

Supporting Information-I

Organocatalyzed Enantioselective Michael addition/cyclization Cascade

Reaction of 3-Isothiocyanatooxindole with Arylidene Malonates

Raghunath Chowdhury,^{*a} Mukesh Kumar^b and Sunil K. Ghosh^{*a}

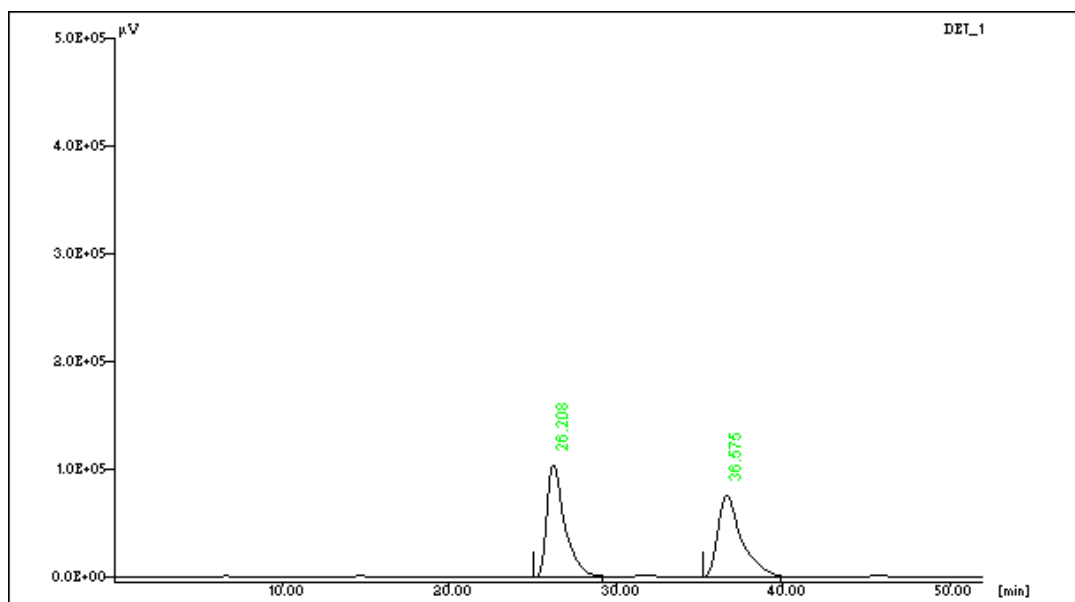
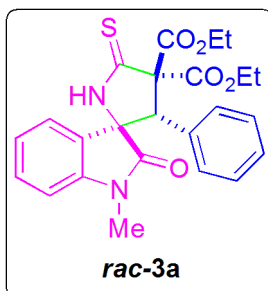
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400085

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File name : rc-559-rac272.CH1

AD-H, ipa/hexane 10/90, flow 1.0 ml/min, 254 nm

Injection Date :10-Feb-2016 14:00:50

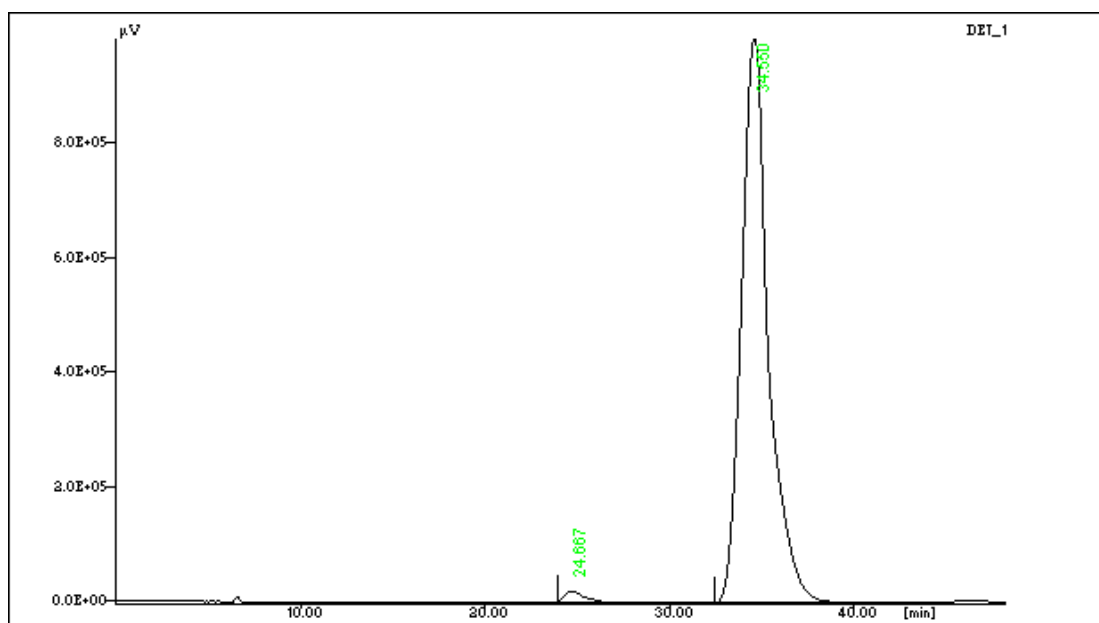
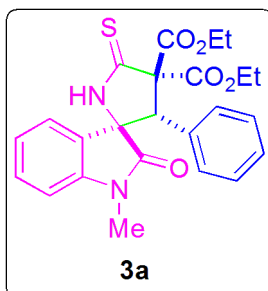
Curr. Date : 5-Mar-2016 11:01:16

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]
1	26.20	50.501	7134645.500
2	36.57	49.499	6993038.500

Total Area of Peak = 14127684.000 [$\mu V \cdot Sec$]

Total Area of Signal = 13464411.500



File name : RC-590.CH1

Injection Date :21-Mar-2016 16:05:58

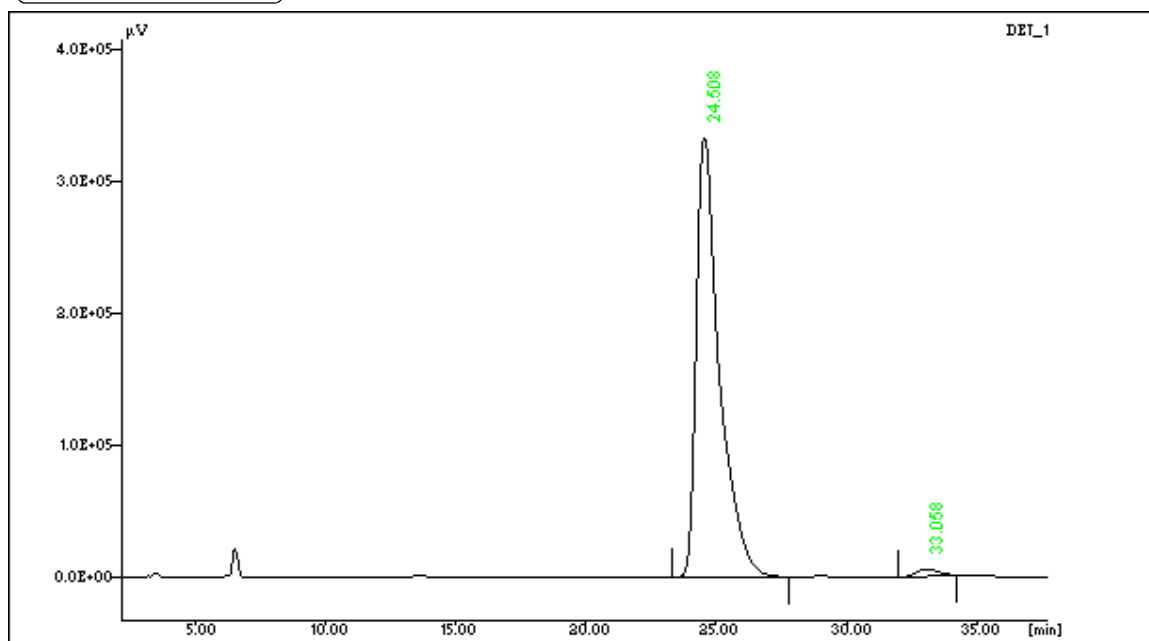
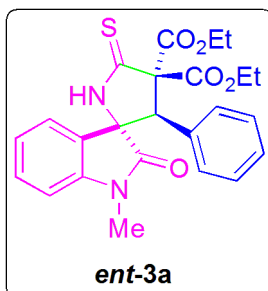
Curr. Date : 21-Mar-2016 17:50:24

Control Method :RC

Name	RT	%Area	Area[μV.Sec]
1	24.66	1.246	1189295.000
2	34.55	98.754	94240632.500

Total Area of Peak = 95429927.500 [μV.Sec]

Total Area of Signal = 91038791.000



File name : RC-652525.CH1

Injection Date :11-Jun-2016 14:29:04

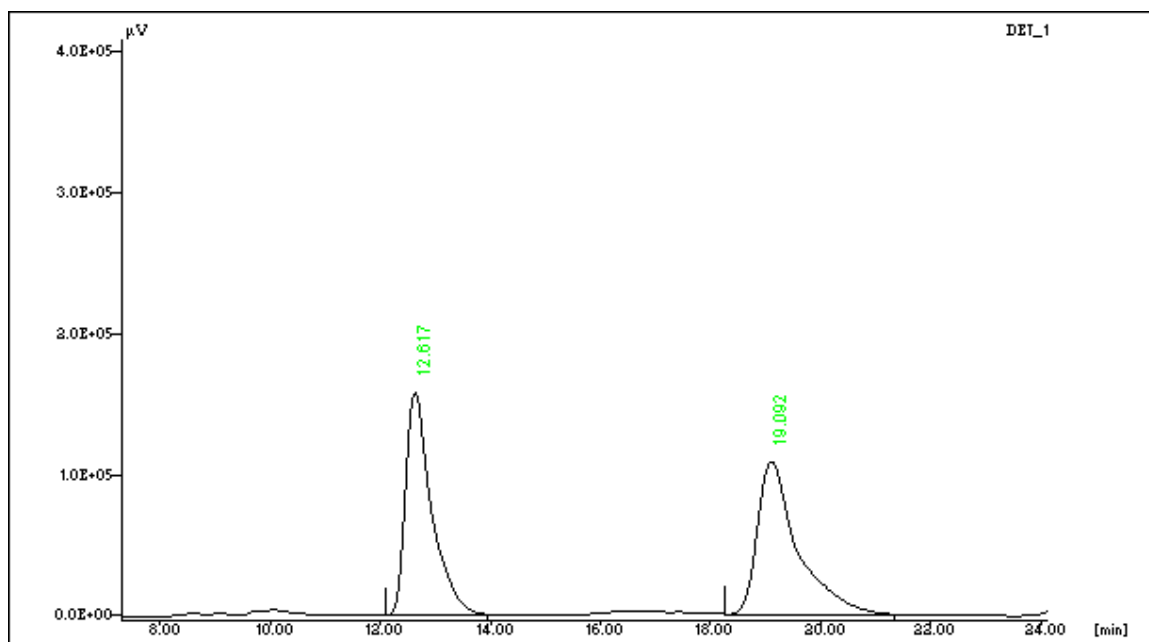
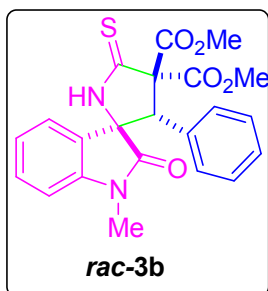
Curr. Date : 11-Jun-2016 15:54:10

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	24.50	98.663	19079586.50	331887
2	33.05	1.337	258510.88	4891

Total Area of Peak = 19338097.38 [μV.Sec]

Total Area of Signal = 19566740.50



File name : RC-596514.CH1

Injection Date : 9-Jun-2016 17:42:16

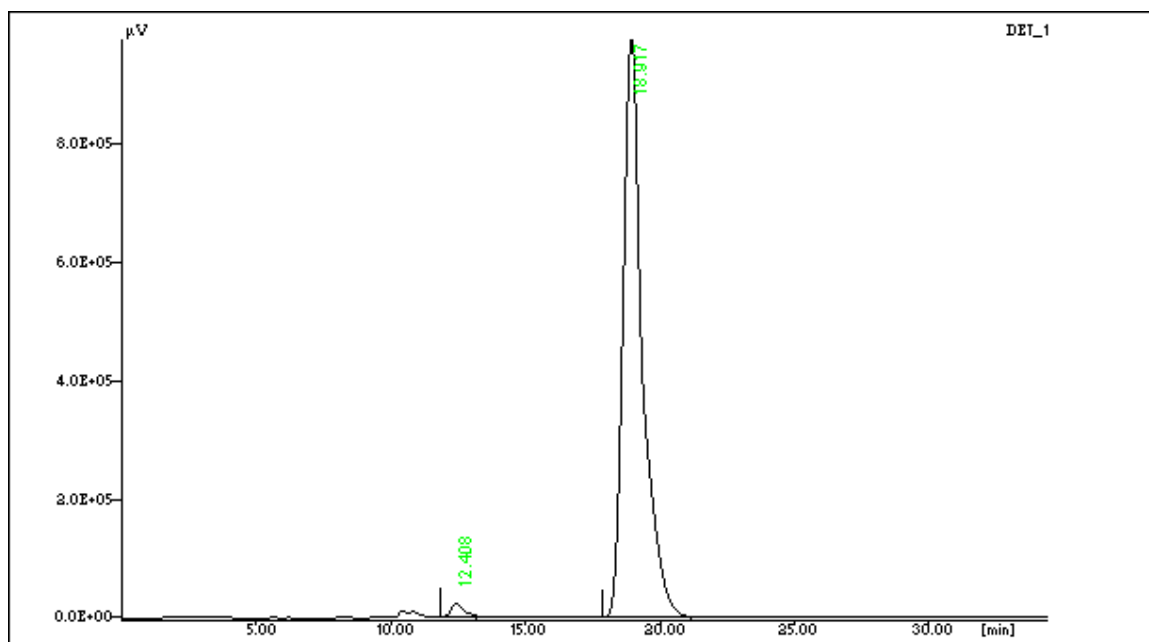
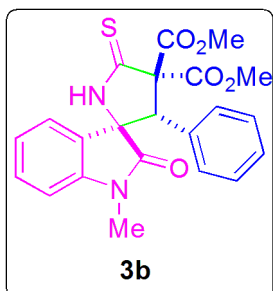
Curr. Date : 9-Jun-2016 18:51:52

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	12.61	47.971	4842303.00	157025
2	19.09	52.029	5251839.41	108059

Total Area of Peak = 10094142.41 [$\mu V \cdot Sec$]

Total Area of Signal = 12204353.00



File name : RC-599515.CH1

Injection Date : 9-Jun-2016 18:13:16

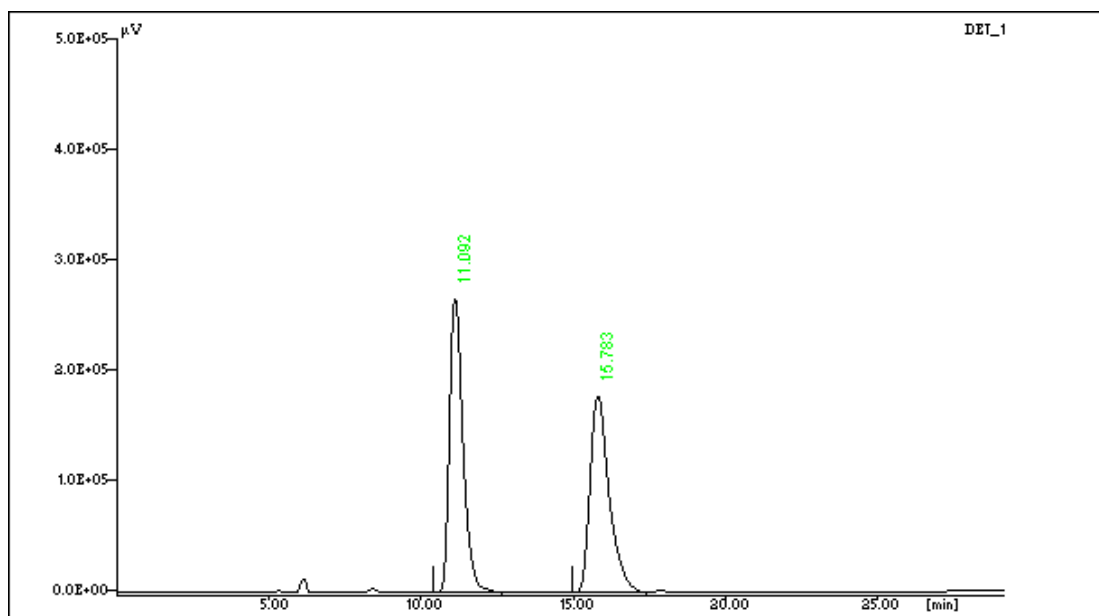
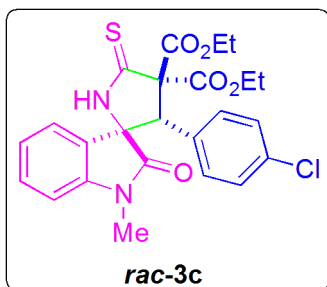
Group : DATA

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	12.40	1.240	560695.50	20160
2	18.91	98.760	44664838.50	973312

Total Area of Peak = 45225534.00 [μV.Sec]

Total Area of Signal = 46686503.00



File name : RC-603397.CH1

IPA/HEXANE 20/80, FLOW RATE 1.0 ML/MIN

Injection Date :25-Mar-2016 10:55:04

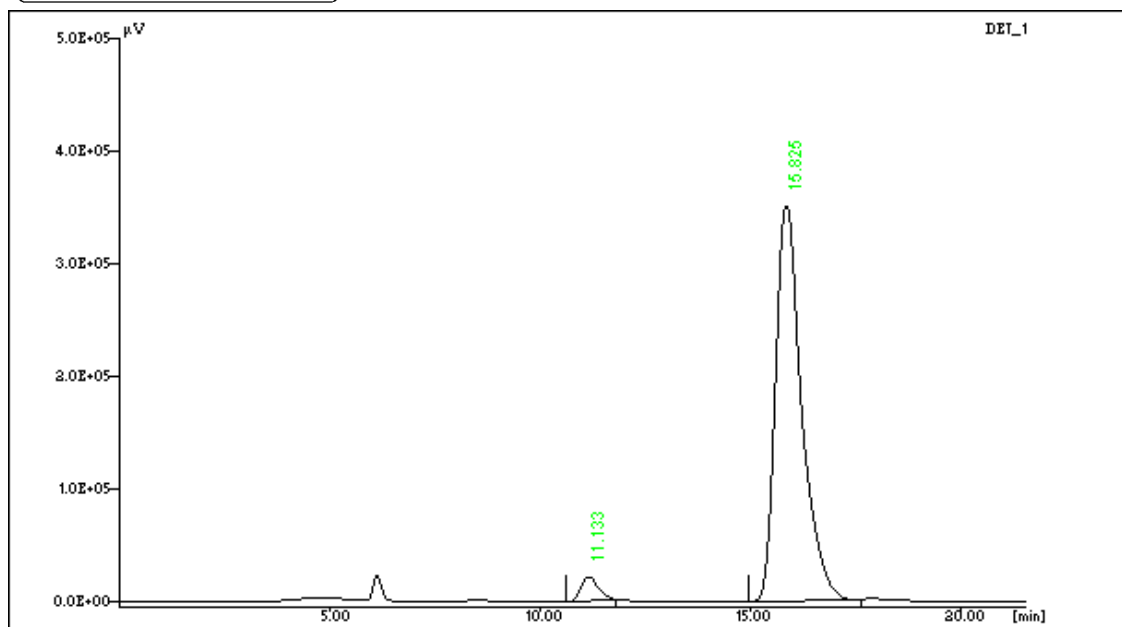
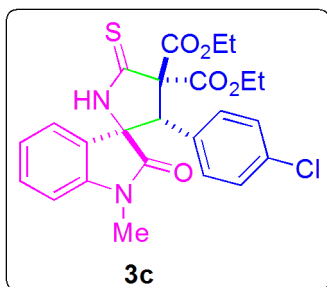
Curr. Date : 25-Mar-2016 12:31:44

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]
1	11.09	50.472	7330963.077
2	15.78	49.528	7193964.000

Total Area of Peak = 14524927.077 [$\mu V \cdot Sec$]

Total Area of Signal = 11135159.000



File name : RC-601398.CH1

Injection Date :25-Mar-2016 11:24:42

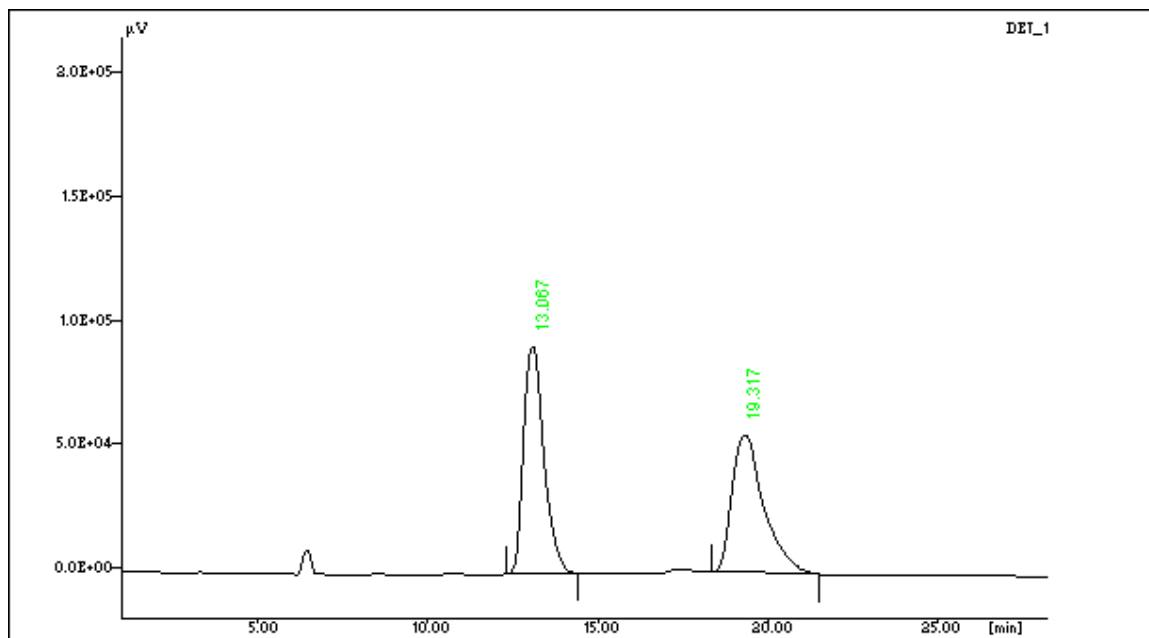
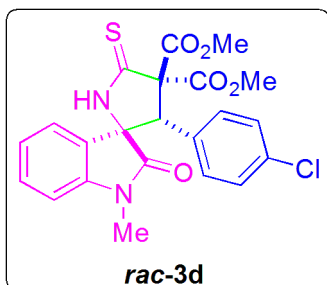
Curr. Date : 25-Mar-2016 12:34:42

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	11.13	3.817	565014.90	21442
2	15.82	96.183	14235730.28	350754

Total Area of Peak = 14800745.19 [μV.Sec]

Total Area of Signal = 15919746.50



File name : RC-608421.CH1

Injection Date : 8-Apr-2016 10:07:04

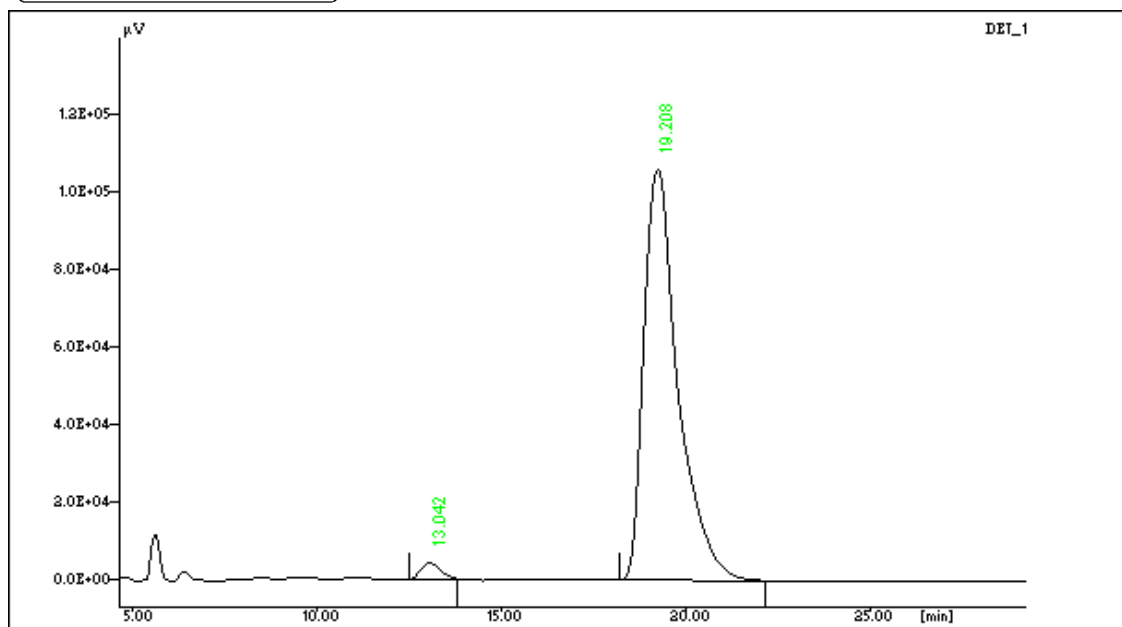
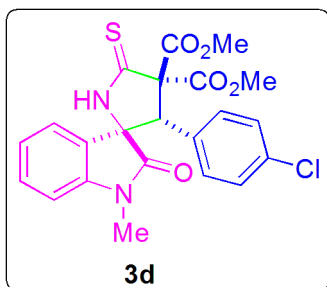
Curr. Date : 8-Apr-2016 12:13:34

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	13.06	50.492	3527509.00	91457
2	19.31	49.508	3458771.75	55579

Total Area of Peak = 6986280.75 [μV.Sec]

Total Area of Signal = 1423447.00



File name : RC-614-II423.CH1

Injection Date : 8-Apr-2016 11:16:42

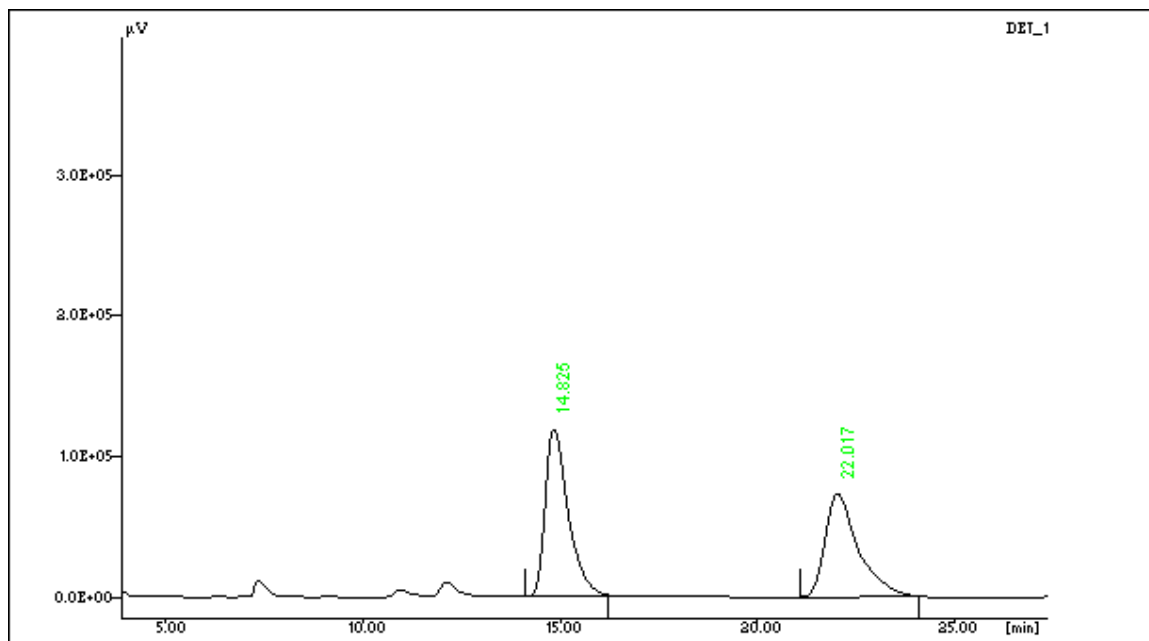
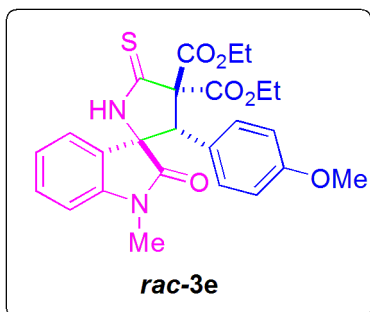
Curr. Date : 8-Apr-2016 12:01:50

Control Method :RC

Name	RT	%Area	Area[μ V.Sec]	Height[μ V]
1	13.04	2.125	141068.00	4063
2	19.20	97.875	6495916.50	105661

Total Area of Peak = 6636984.50 [μ V.Sec]

Total Area of Signal = 6724953.50



File name : RC-646510.CH1

Injection Date : 9-Jun-2016 15:43:02

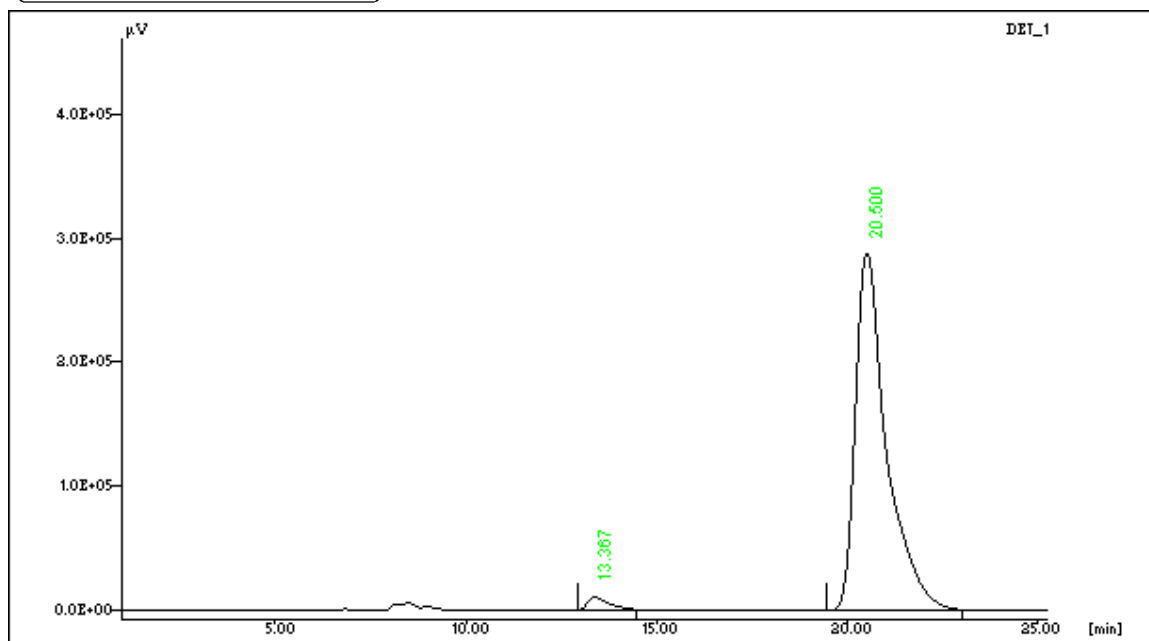
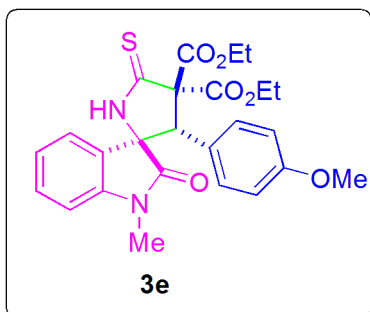
Curr. Date : 9-Jun-2016 18:56:00

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	14.82	52.363	4487104.82	118340
2	22.01	47.637	4082105.50	72647

Total Area of Peak = 8569210.32 [μV.Sec]

Total Area of Signal = 11537063.50



File name : RC-647511.CH1

Injection Date : 9-Jun-2016 16:17:36

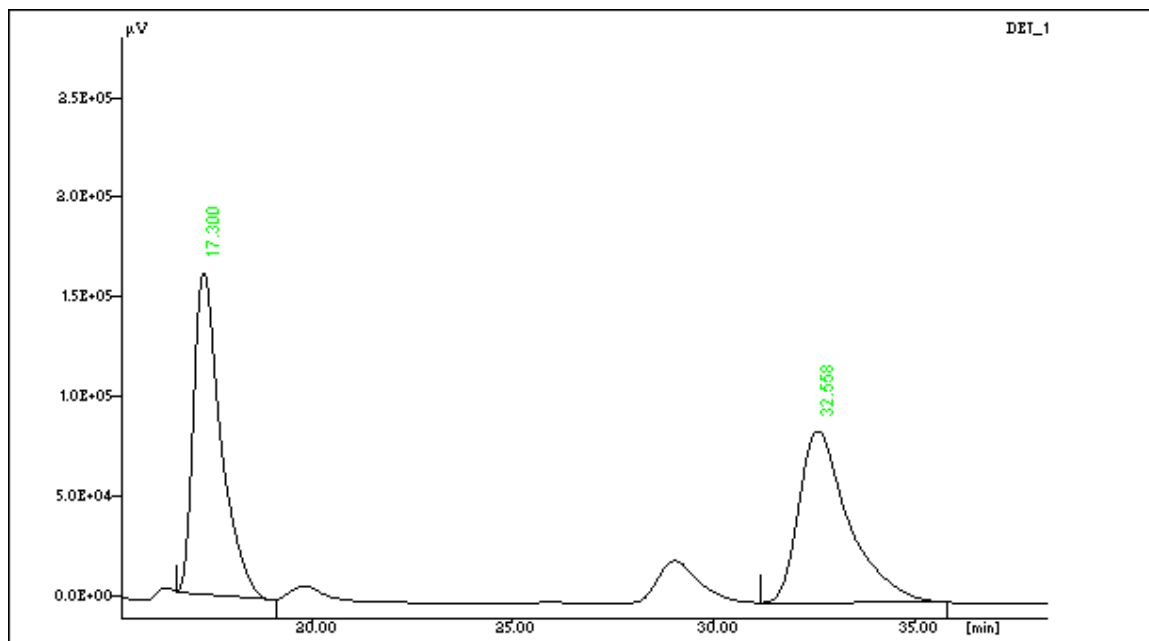
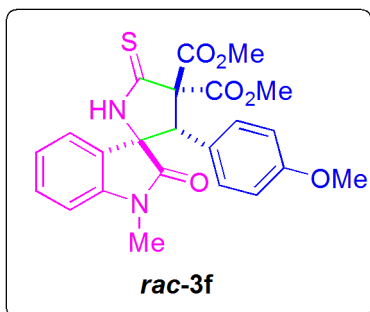
Curr. Date : 9-Jun-2016 18:57:12

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	13.36	2.296	363925.75	10213
2	20.50	97.704	15487490.02	288247

Total Area of Peak = 15851415.77 [μV.Sec]

Total Area of Signal = 15092364.50



File name : rc-633489.CH1

Injection Date : 3-Jun-2016 14:33:48

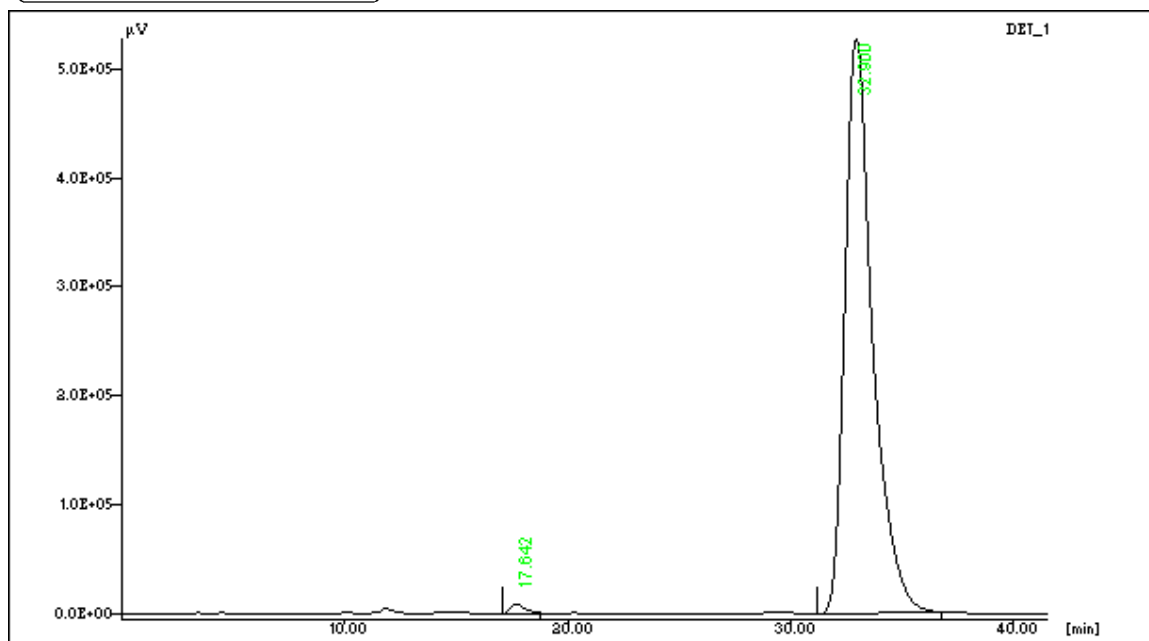
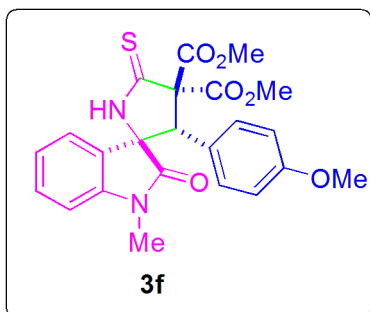
Curr. Date : 4-Jun-2016 16:27:26

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	17.30	49.703	7120033.33	160530
2	32.55	50.297	7205054.75	85895

Total Area of Peak = 14325088.08 [μV.Sec]

Total Area of Signal = 12342555.50



File name : RC-641492.CH1

Injection Date : 3-Jun-2016 16:44:14

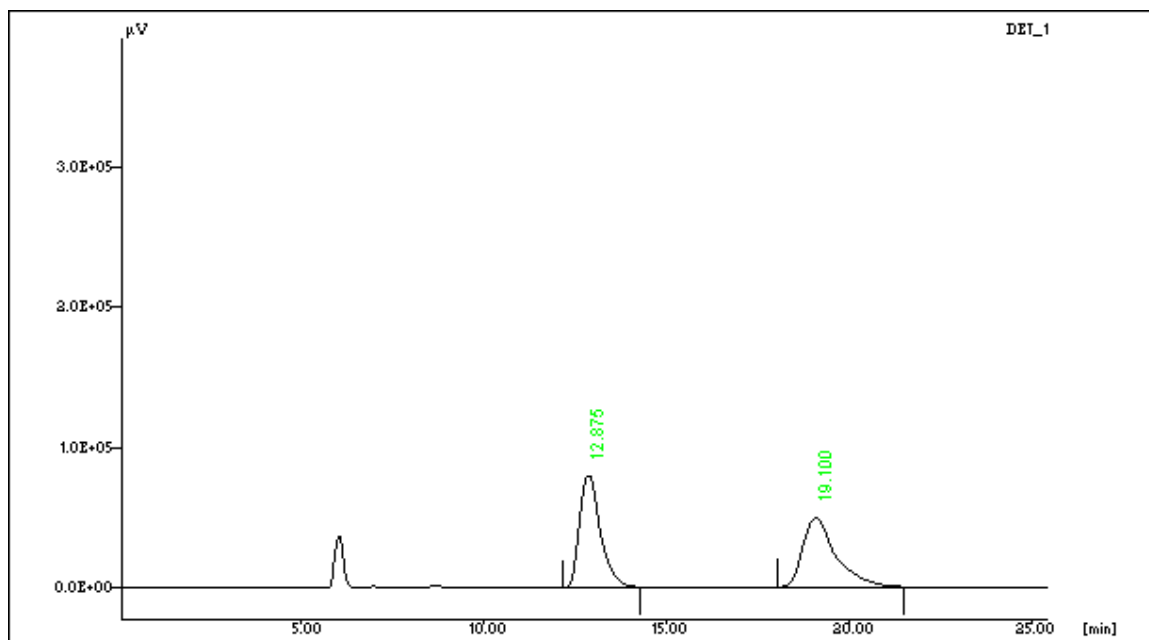
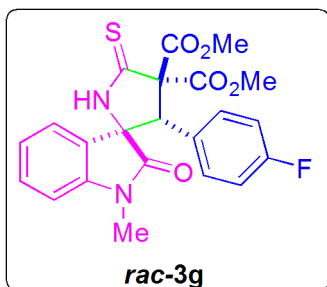
Curr. Date : 4-Jun-2016 16:29:24

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	17.64	0.832	361968.00	8758
2	32.90	99.168	43128406.06	526460

Total Area of Peak = 43490374.06 [μV.Sec]

Total Area of Signal = 45070620.50



File name : RC-620439.CH1

Injection Date :22-Apr-2016 19:04:16

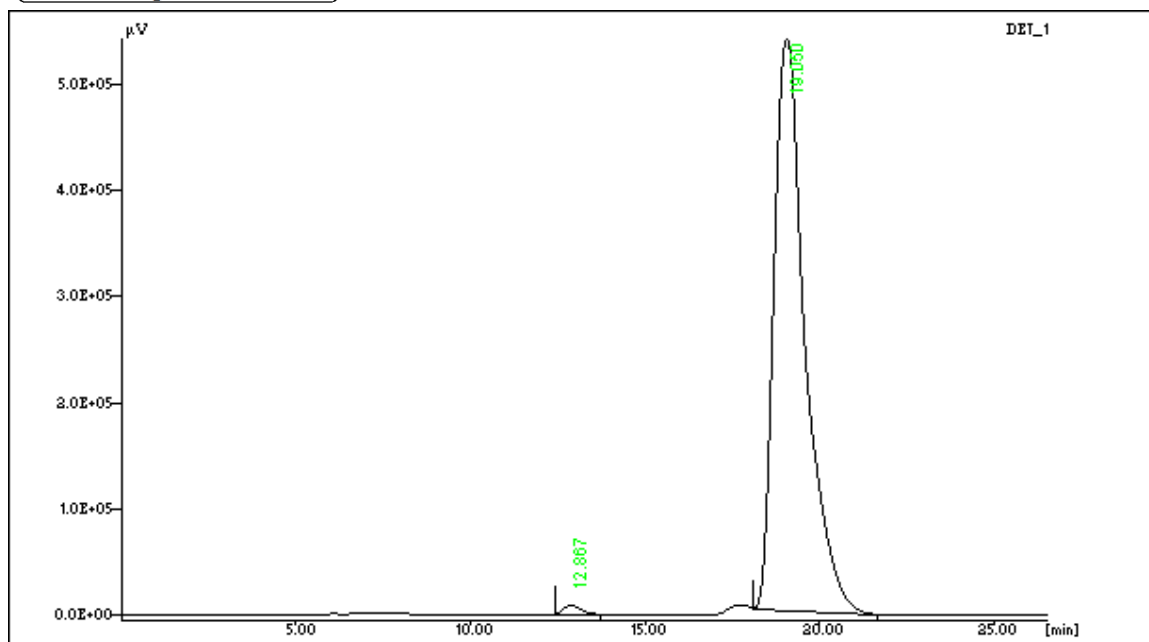
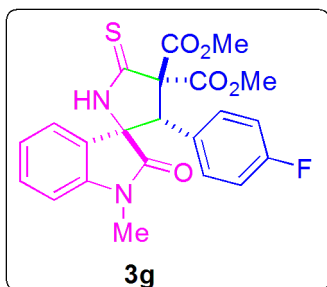
Curr. Date : 25-Apr-2016 19:06:22

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	12.87	49.937	2933130.50	79829
2	19.10	50.063	2940513.50	48940

Total Area of Peak = 5873644.00 [μV.Sec]

Total Area of Signal = 6568353.00



File name : RC-621440.CH1

Injection Date :22-Apr-2016 19:32:20

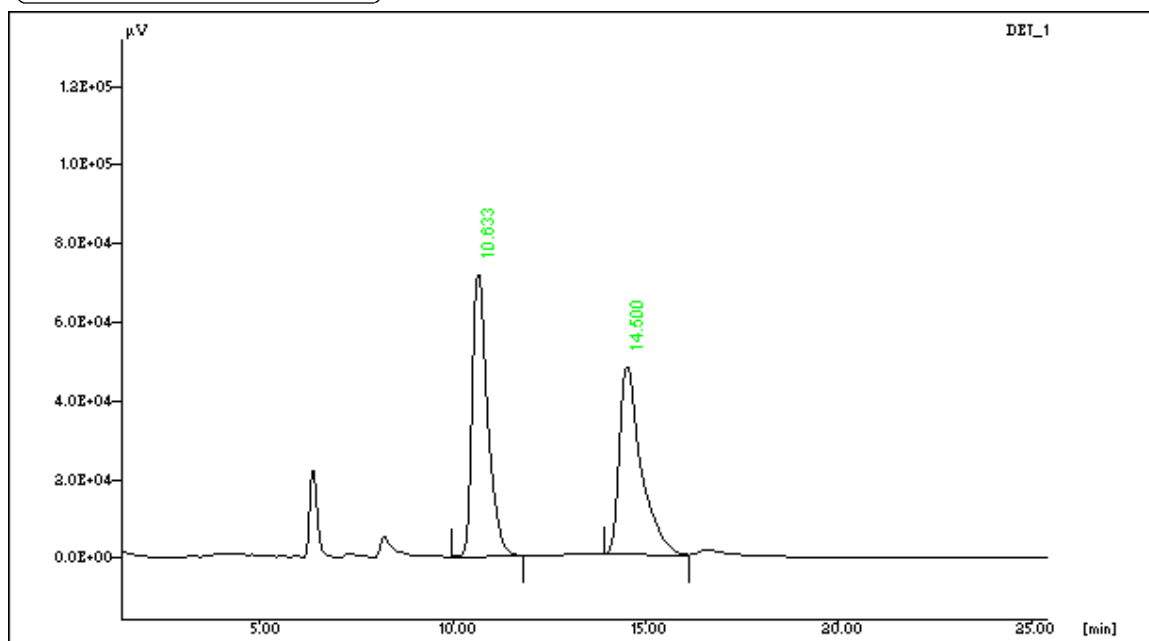
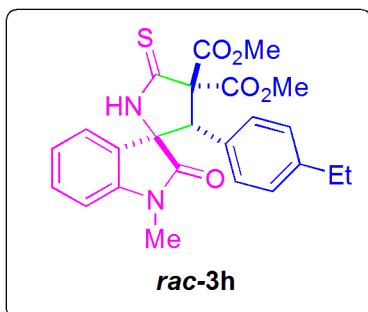
Curr. Date : 25-Apr-2016 19:07:22

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	12.86	0.866	276061.00	8356
2	19.05	99.134	31593235.50	537799

Total Area of Peak = 31869296.50 [μV.Sec]

Total Area of Signal = 33592326.00



File name : RC-638496.CH1

Injection Date : 4-Jun-2016 11:16:46

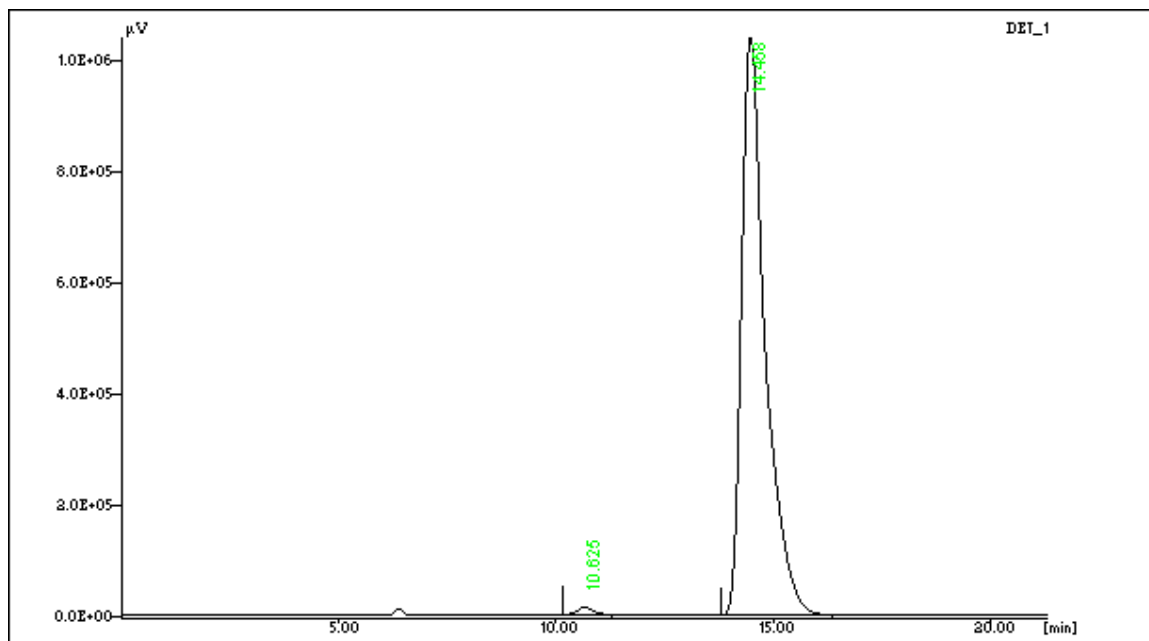
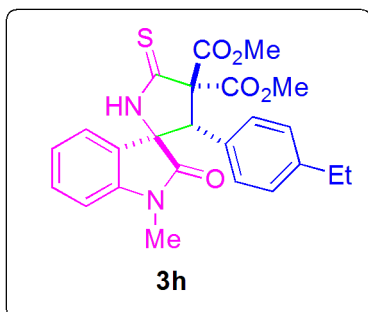
Curr. Date : 4-Jun-2016 16:32:00

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	10.63	50.713	1786621.00	71517
2	14.50	49.287	1736387.28	47401

Total Area of Peak = 3523008.28 [μV.Sec]

Total Area of Signal = 4986599.50



File name : RC-643498.CH1

Injection Date : 4-Jun-2016 12:18:18

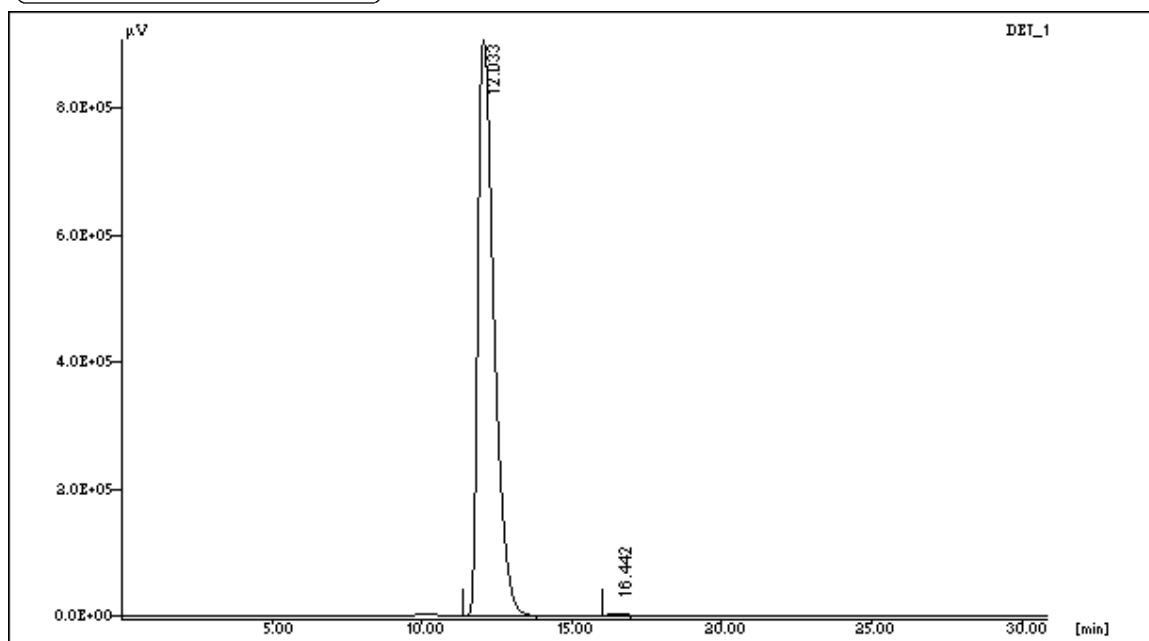
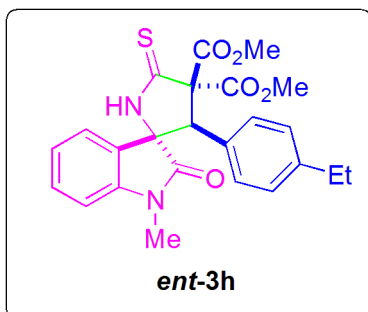
Curr. Date : 4-Jun-2016 16:33:22

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	10.62	0.797	297025.00	12311
2	14.45	99.203	36983687.00	1038436

Total Area of Peak = 37280712.00 [μV.Sec]

Total Area of Signal = 38777710.00



File name : rc-664538.CH1

Injection Date :24-Jun-2016 16:06:26

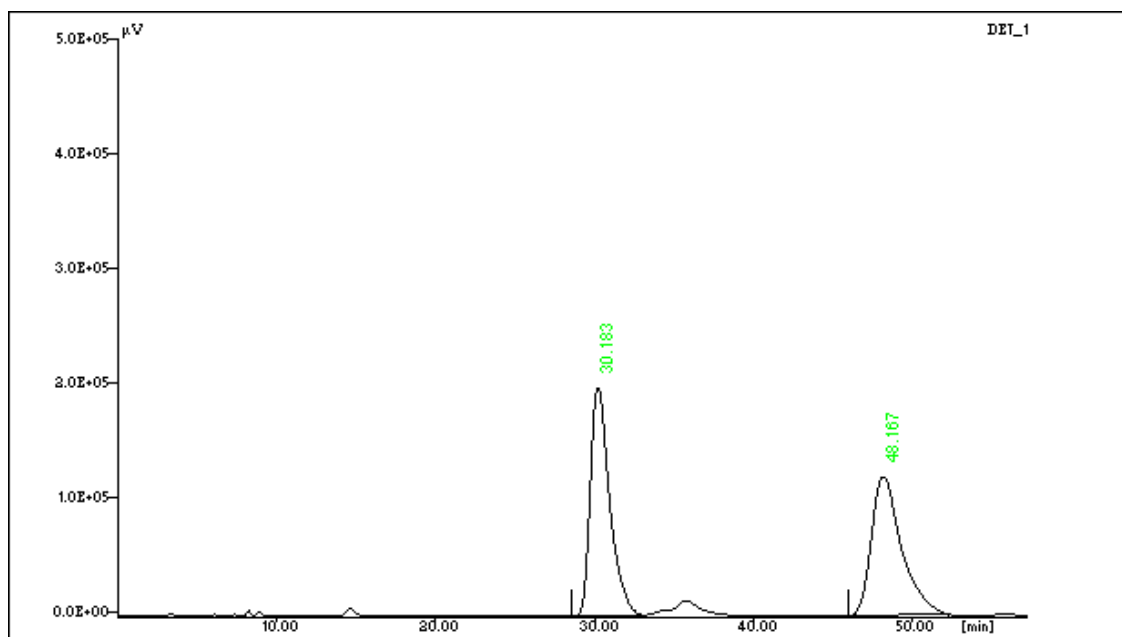
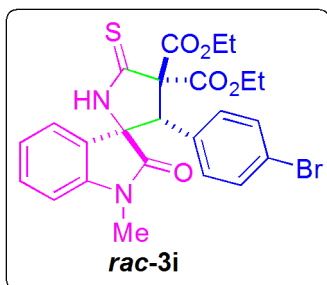
Curr. Date : 24-Jun-2016 17:51:14

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	12.03	99.730	30614640.00	904953
2	16.44	0.270	82931.75	2827

Total Area of Peak = 30697571.75 [$\mu V \cdot Sec$]

Total Area of Signal = 31224167.00



File name : RC-597-RAC-4Br383.CH1

Injection Date :21-Mar-2016 16:55:06

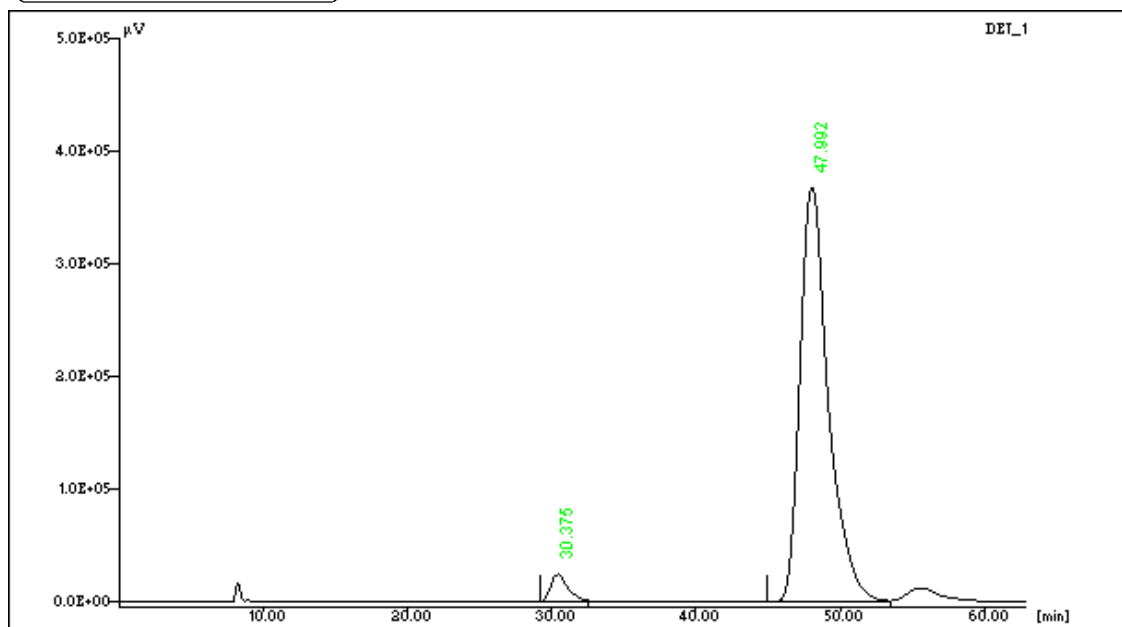
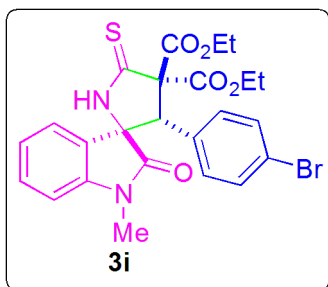
Curr. Date : 21-Mar-2016 17:53:12

Control Method :RC

Name	RT	%Area	Area[μV.Sec]
1	30.18	50.504	15507529.704
2	48.16	49.496	15197883.750

Total Area of Peak = 30705413.454 [μV.Sec]

Total Area of Signal = 21070927.500



File name : RC-600389.CH1

Injection Date :23-Mar-2016 15:34:12

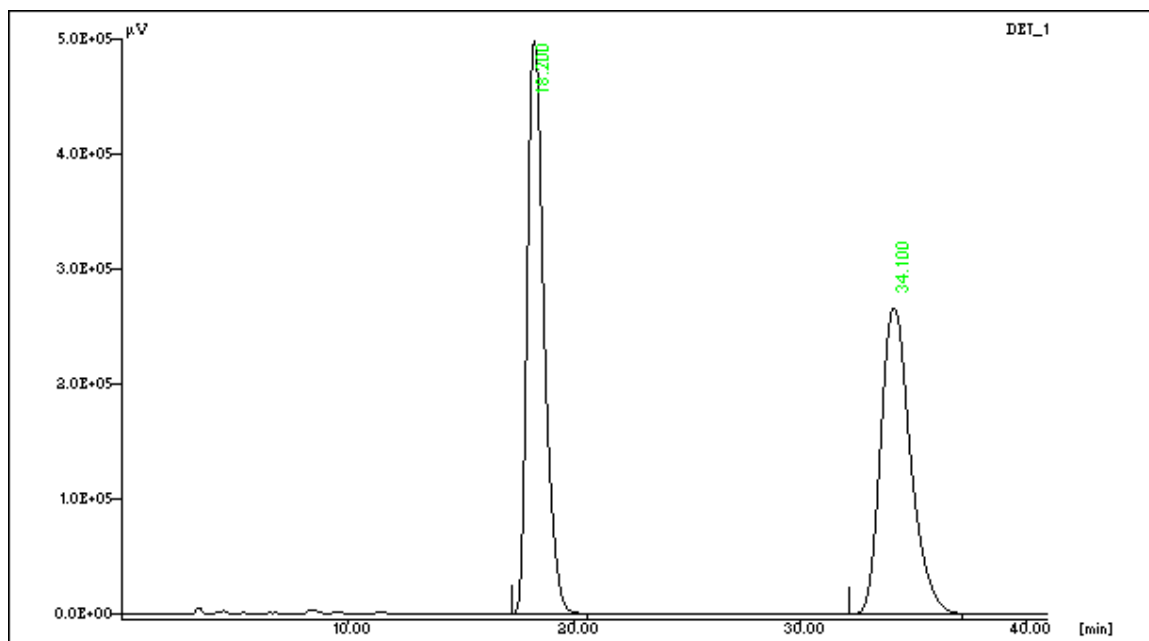
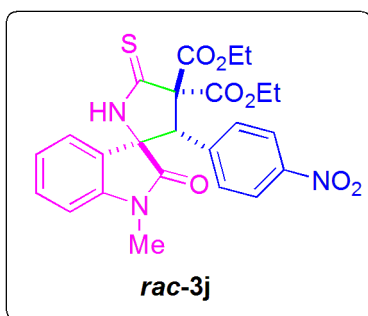
Curr. Date : 25-Mar-2016 12:30:40

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	30.37	3.512	1714357.75	22791
2	47.99	96.488	47101157.33	366742

Total Area of Peak = 48815515.08 [μV.Sec]

Total Area of Signal = 51336731.00



File name : RC-604394.CH1

Injection Date :24-Mar-2016 15:49:16

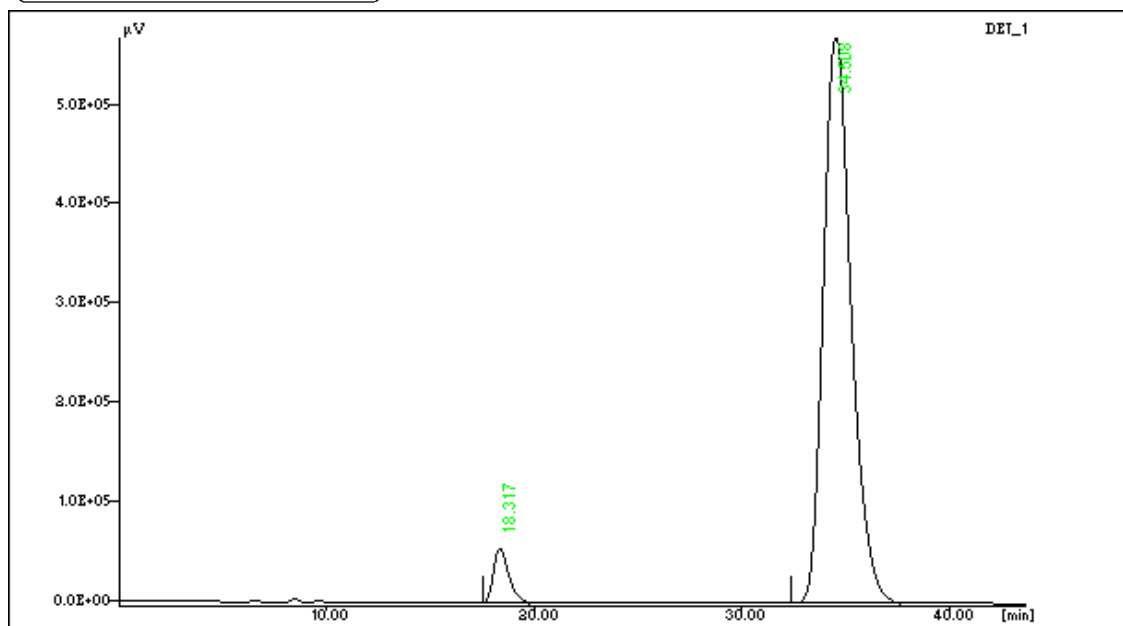
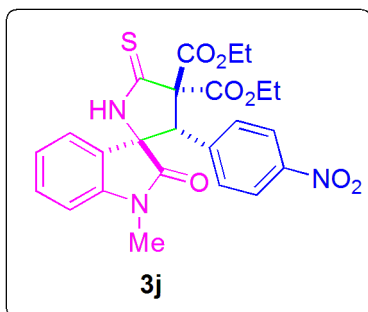
Curr. Date : 25-Mar-2016 12:35:52

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	18.20	50.434	23313715.75	497019
2	34.10	49.566	22912860.00	265506

Total Area of Peak = 46226575.75 [μV.Sec]

Total Area of Signal = 46840141.00



File name : RC-602395.CH1

Injection Date :25-Mar-2016 9:26:52

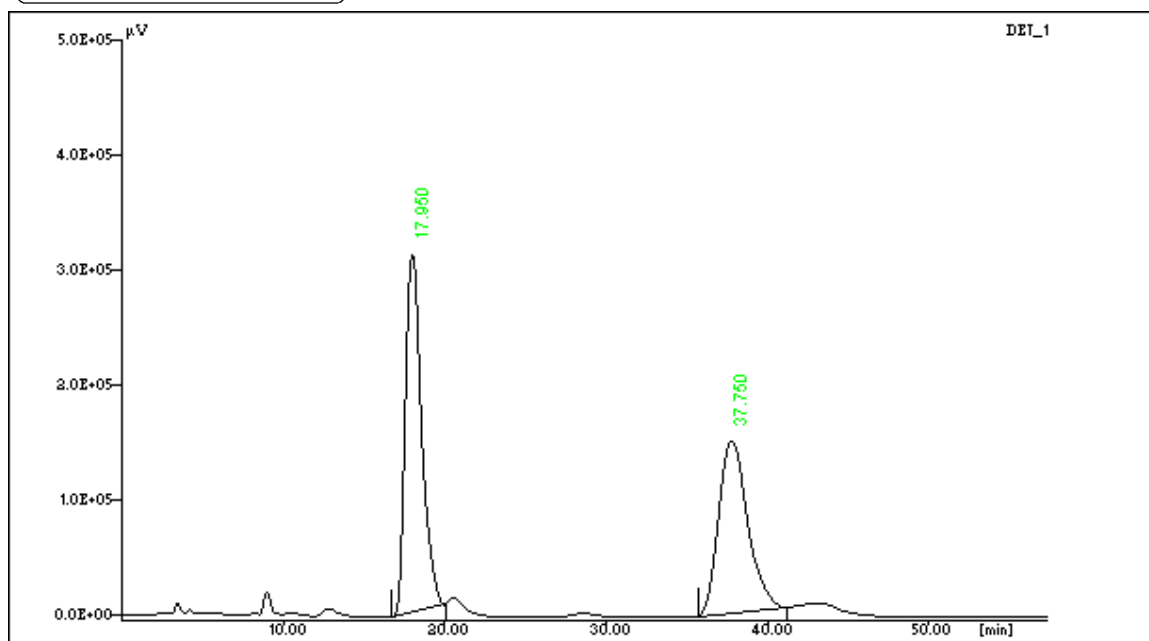
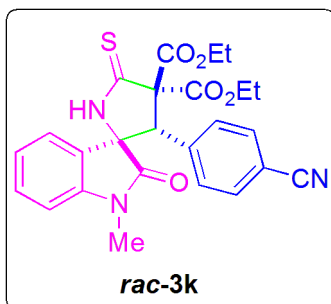
Curr. Date : 25-Mar-2016 12:38:04

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	18.31	5.372	2418158.50	52424
2	34.50	94.628	42599959.50	487387

Total Area of Peak = 45018118.00 [μV.Sec]

Total Area of Signal = 39499564.50



File name : RC-624436.CH1

AD-H, ipa/hexane 20/80, flow 1.0 ml/min, 254 nm

Injection Date :22-Apr-2016 15:32:48

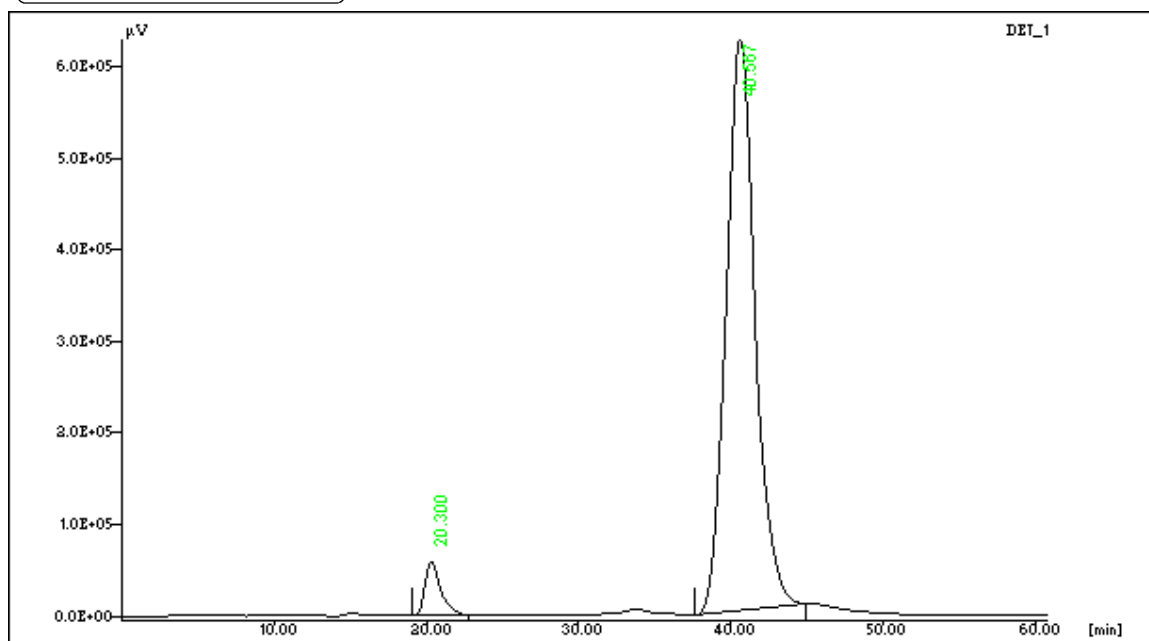
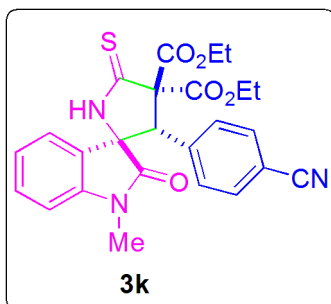
Curr. Date : 25-Apr-2016 19:09:08

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	17.95	52.655	19693982.99	309857
2	37.75	47.345	17707834.50	148684

Total Area of Peak = 37401817.49 [μV.Sec]

Total Area of Signal = 40430987.50



File name : RC-625438.CH1

AD-H, ipa/hexane 20/80, flow 1.0 ml/min, 254 nm

Injection Date :22-Apr-2016 17:34:36

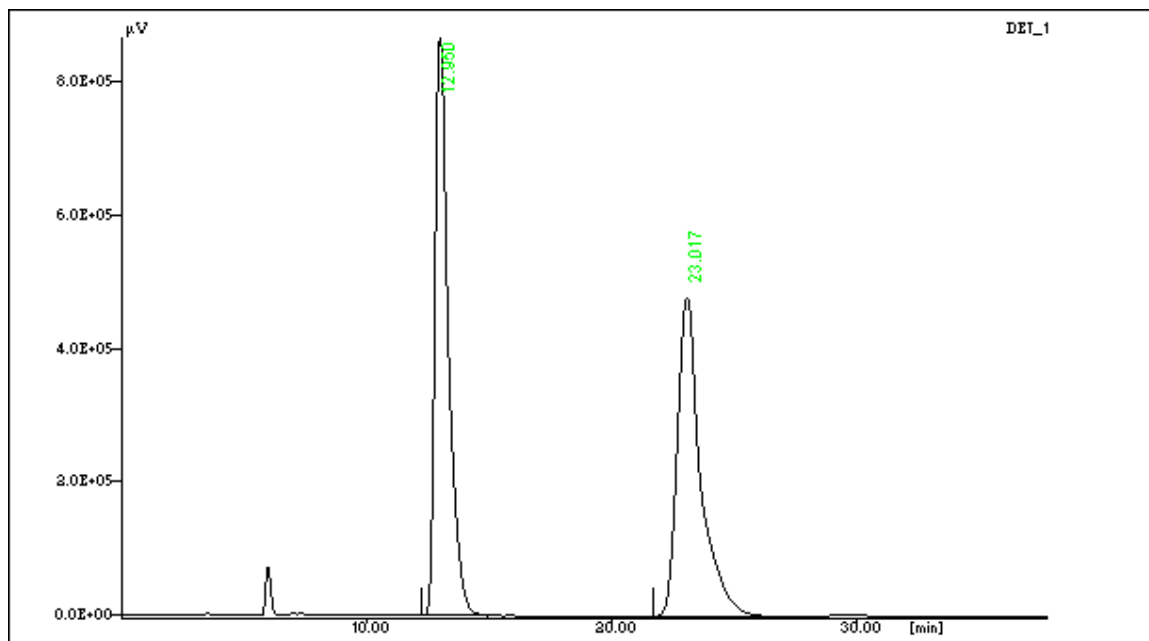
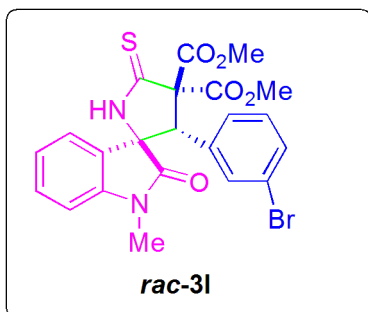
Curr. Date : 25-Apr-2016 19:09:58

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	20.30	4.740	3876878.00	57785
2	40.56	95.260	77913642.16	622944

Total Area of Peak = 81790520.16 [μV.Sec]

Total Area of Signal = 91017942.50



File name : RC-626450.CH1

Info : AD-H, ipa/hexane 20/80, flow 1.0 ml/min, 254 nm

Injection Date :27-Apr-2016 11:58:24

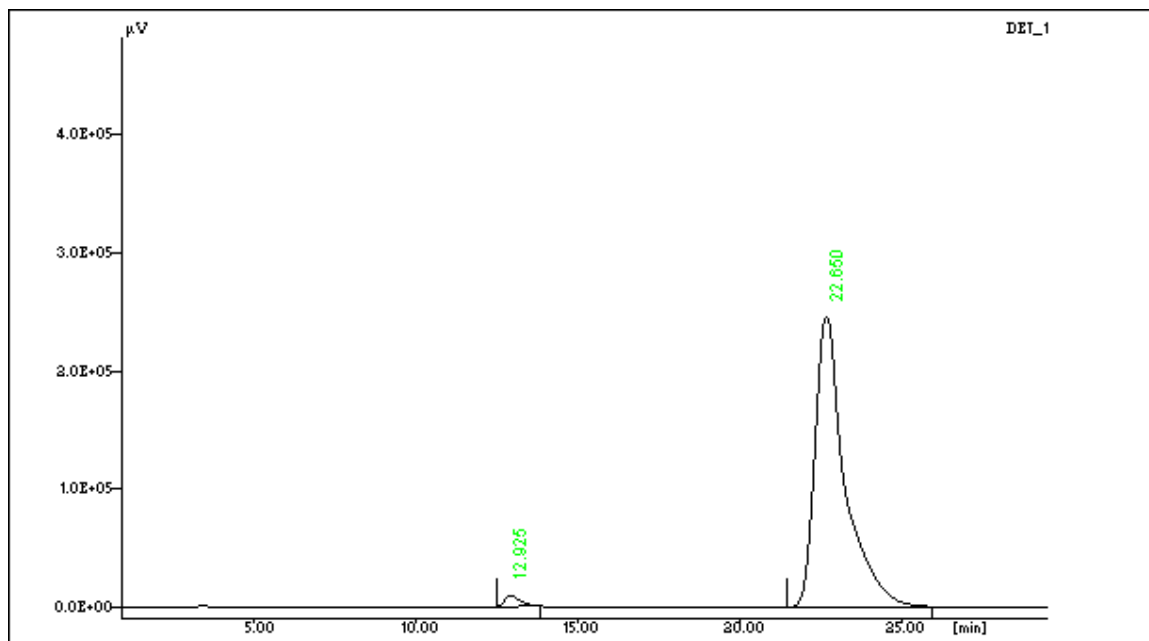
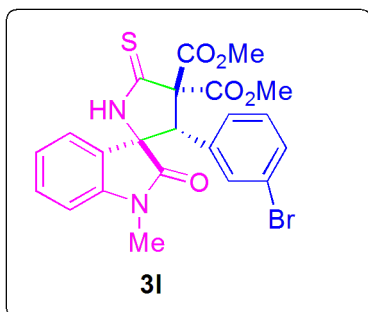
Curr. Date : 27-Apr-2016 15:12:08

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	12.95	49.818	29096935.25	865579
2	23.01	50.182	29309056.50	476551

Total Area of Peak = 58405991.75 [μV.Sec]

Total Area of Signal = 57311205.00



File name : RC-628452.CH1

Info : AD-H, ipa/hexane 20/80, flow 1.0 ml/min, 254 nm

Injection Date :27-Apr-2016 14:32:26

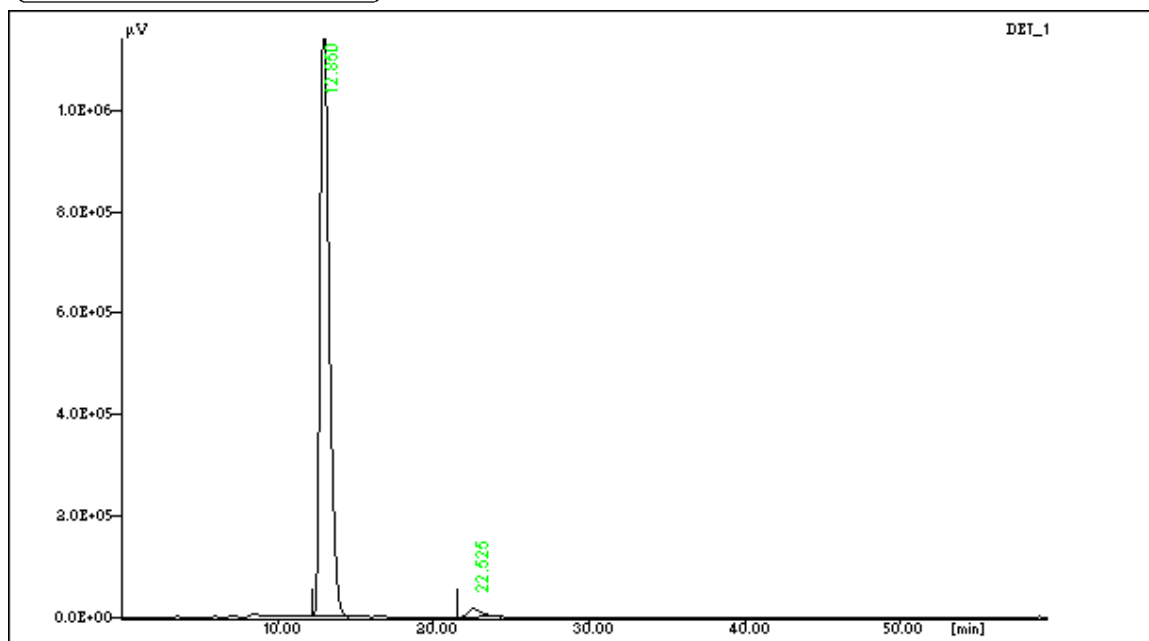
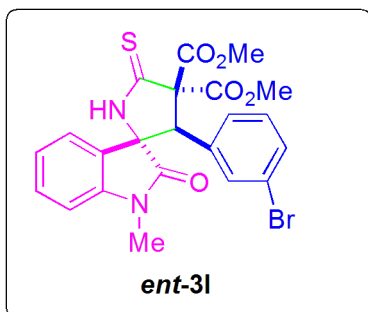
Curr. Date : 27-Apr-2016 15:13:28

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	12.92	1.902	288365.00	9599
2	22.65	98.098	14870831.75	245137

Total Area of Peak = 15159196.75 [μV.Sec]

Total Area of Signal = 15270116.50



File name : rc-663537.CH1

Injection Date :24-Jun-2016 15:06:38

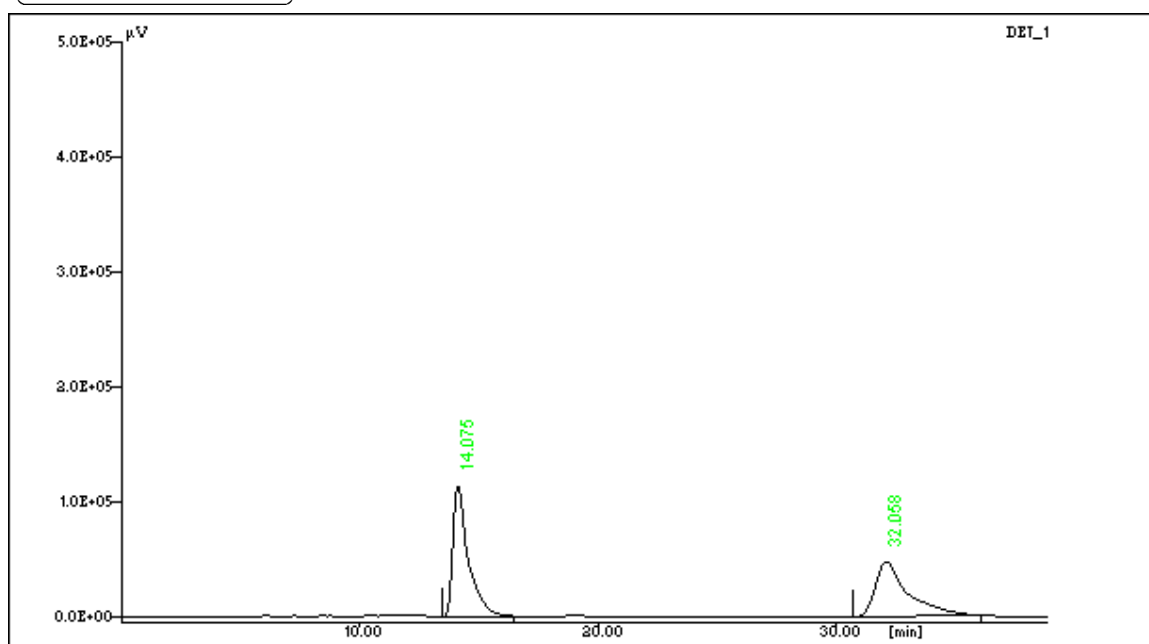
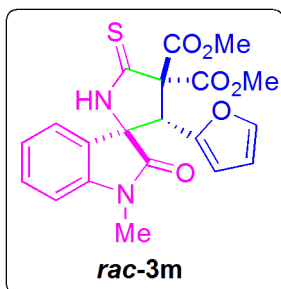
Curr. Date : 24-Jun-2016 17:27:02

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	12.85	97.728	39388308.50	1139221
2	22.52	2.272	915877.44	15688

Total Area of Peak = 40304185.94 [$\mu V \cdot Sec$]

Total Area of Signal = 40629216.50



File name : rc-658533.CH1

Injection Date :24-Jun-2016 11:47:06

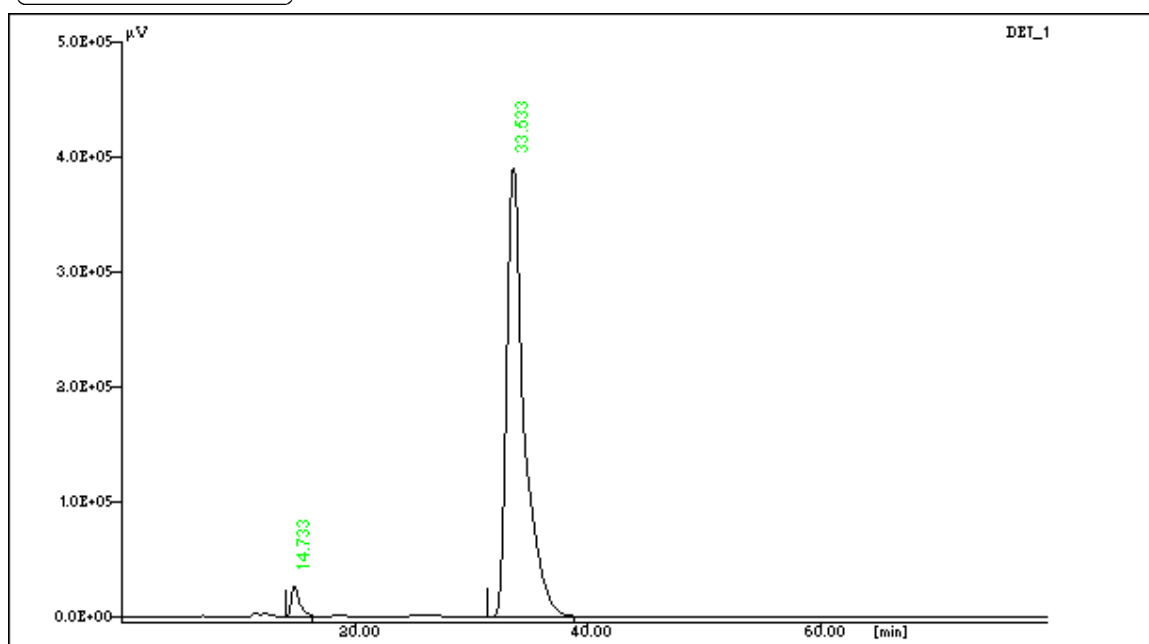
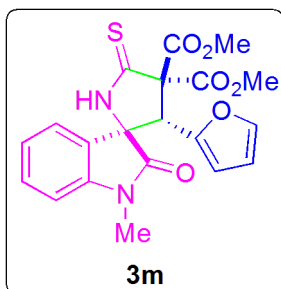
Curr. Date : 24-Jun-2016 17:21:46

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	14.07	51.750	4591930.00	113023
2	32.05	48.250	4281373.05	46453

Total Area of Peak = 8873303.05 [μV.Sec]

Total Area of Signal = 9716393.50



File name : rc-660534.CH1

Injection Date :24-Jun-2016 12:26:14

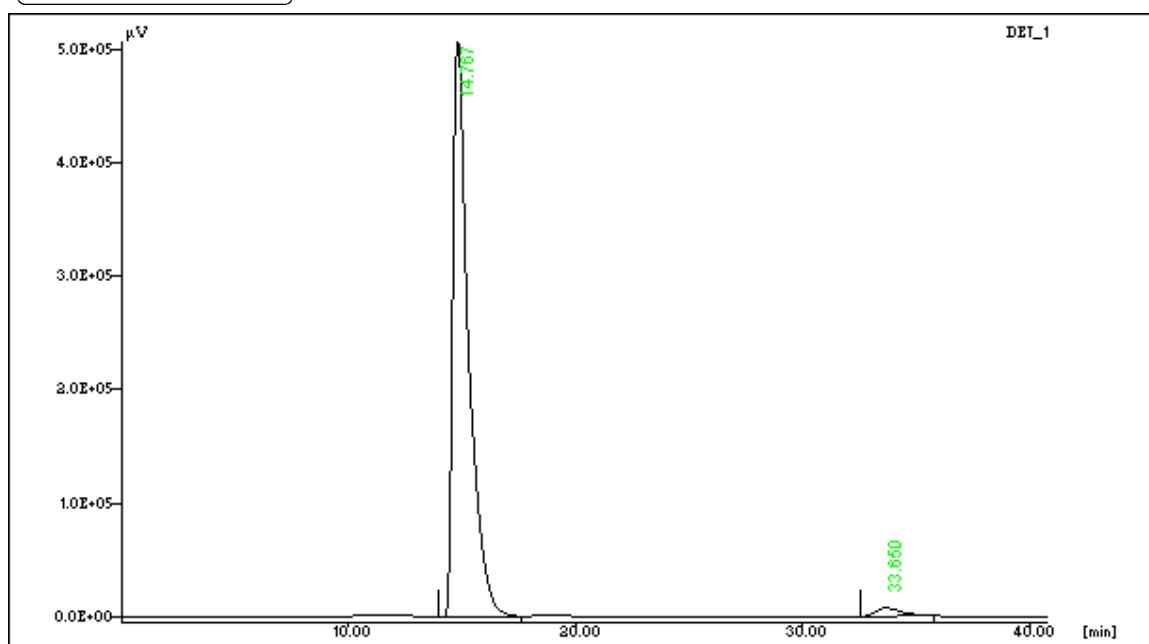
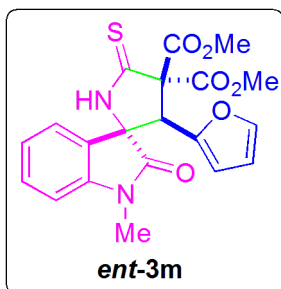
Curr. Date : 24-Jun-2016 17:22:34

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	14.73	2.726	1033500.05	25481
2	33.53	97.274	36874004.98	389713

Total Area of Peak = 37907505.04 [μV.Sec]

Total Area of Signal = 38349678.50



File name : rc-661535.CH1

Injection Date :24-Jun-2016 13:52:44

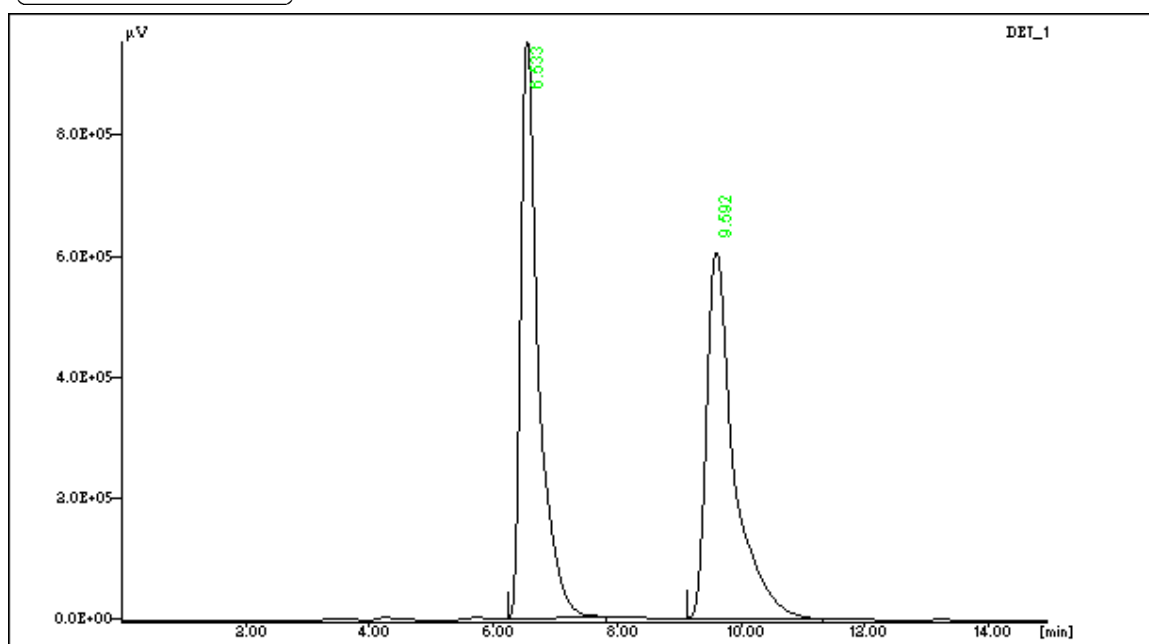
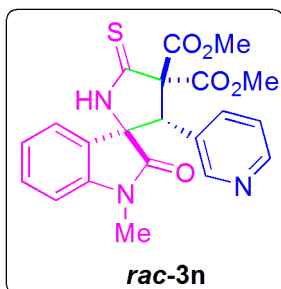
Curr. Date : 24-Jun-2016 17:23:18

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	14.76	97.623	22038418.49	505938
2	33.65	2.377	536584.00	7083

Total Area of Peak = 22575002.49 [μV.Sec]

Total Area of Signal = 23062706.00



File name : RC-627460.CH1

Injection Date :29-Apr-2016 10:29:44

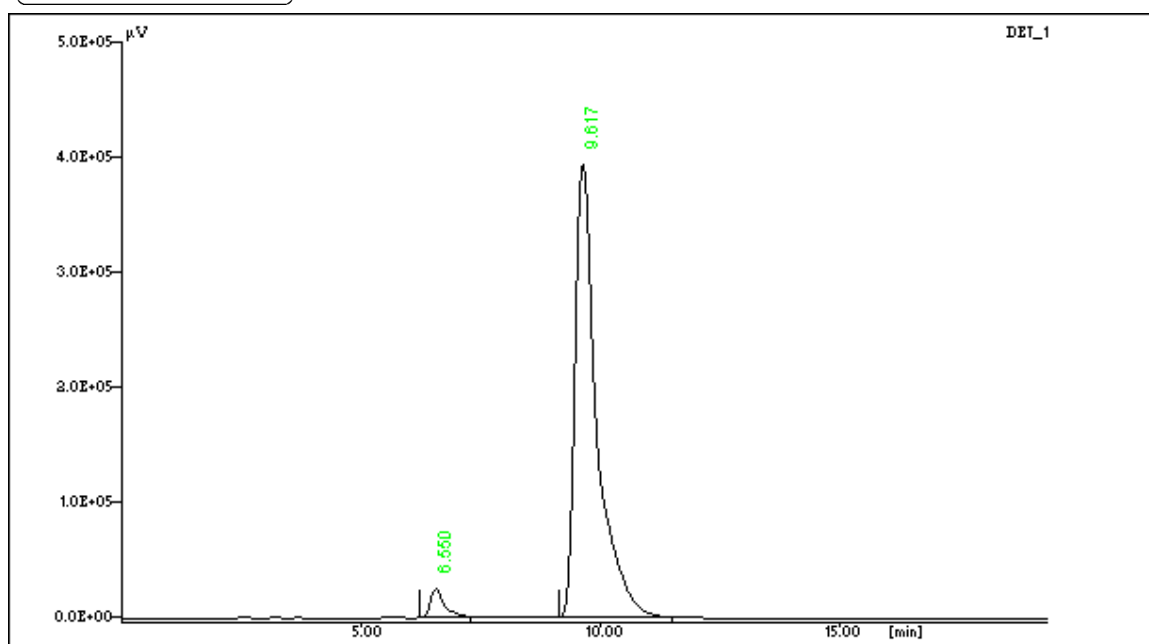
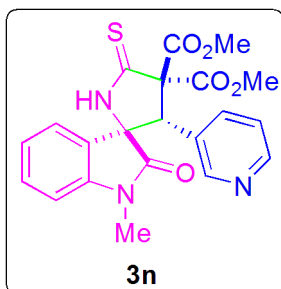
Curr. Date : 29-Apr-2016 14:39:54

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	6.53	50.227	17525401.75	952655
2	9.592	49.773	17366684.00	602516

Total Area of Peak = 34892085.75 [$\mu V \cdot Sec$]

Total Area of Signal = 35342709.00



File name : RC-629462.CH1

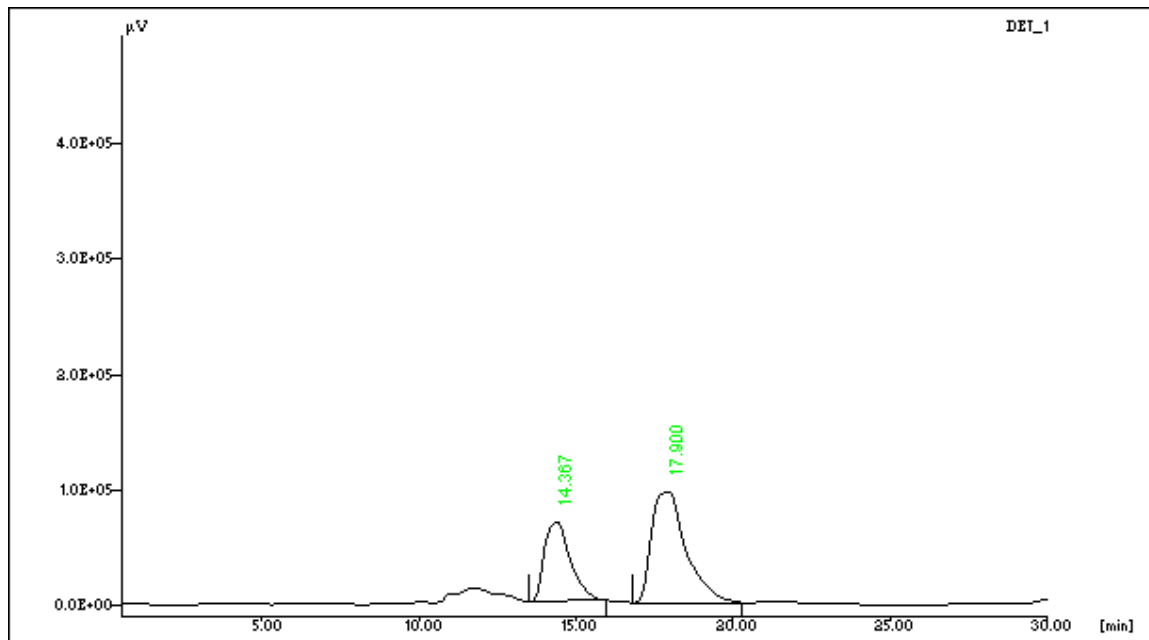
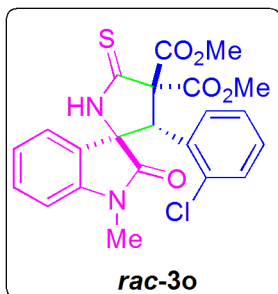
Injection Date :29-Apr-2016 11:32:02

Curr. Date : 29-Apr-2016 14:40:56

Control Method :RC

Name	RT	%Area	Area[$\mu\text{V}.\text{Sec}$]	Height[μV]
1	6.55	3.712	96.288	24274
2	9.61	96.288	11603694.50	393005

Total Area of Peak = 12051053.25 [$\mu\text{V}.\text{Sec}$]



File name : RC-683567.CH1

Injection Date :26-Jun-2016 17:04:24

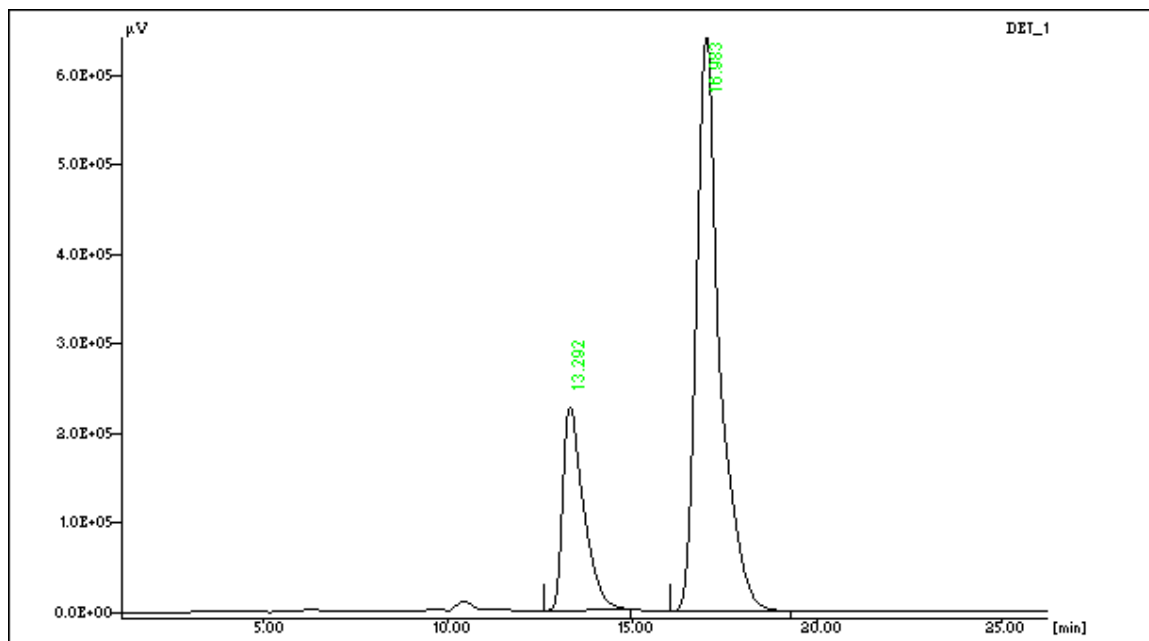
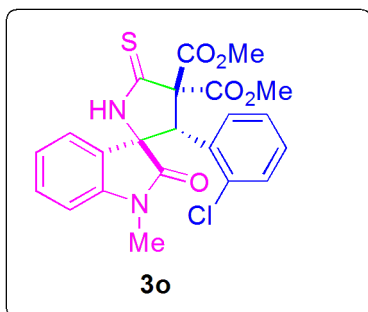
Curr. Date : 26-Jun-2016 17:53:18

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	14.36	34.745	3754491.94	68653
2	17.90	65.255	7051417.50	96582

Total Area of Peak = 10805909.44 [$\mu V \cdot Sec$]

Total Area of Signal = 15564560.50



File name : RC-642494.CH1

Injection Date : 3-Jun-2016 19:03:40

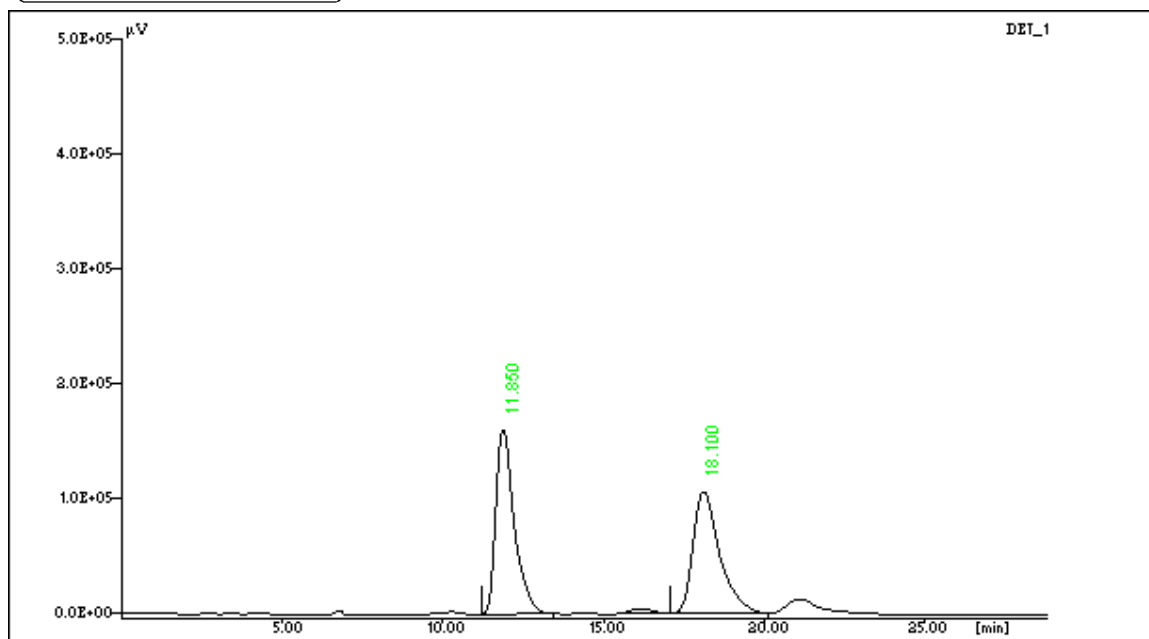
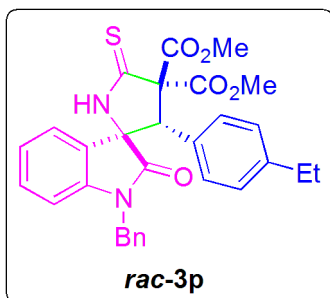
Curr. Date : 26-Jun-2016 15:43:22

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	13.29	24.056	8297074.50	227229
2	16.98	75.944	26193596.04	639991

Total Area of Peak = 34490670.54 [μV.Sec]

Total Area of Signal = 37927515.50



File name : RC-669554.CH1

Injection Date :30-Jun-2016 16:23:52

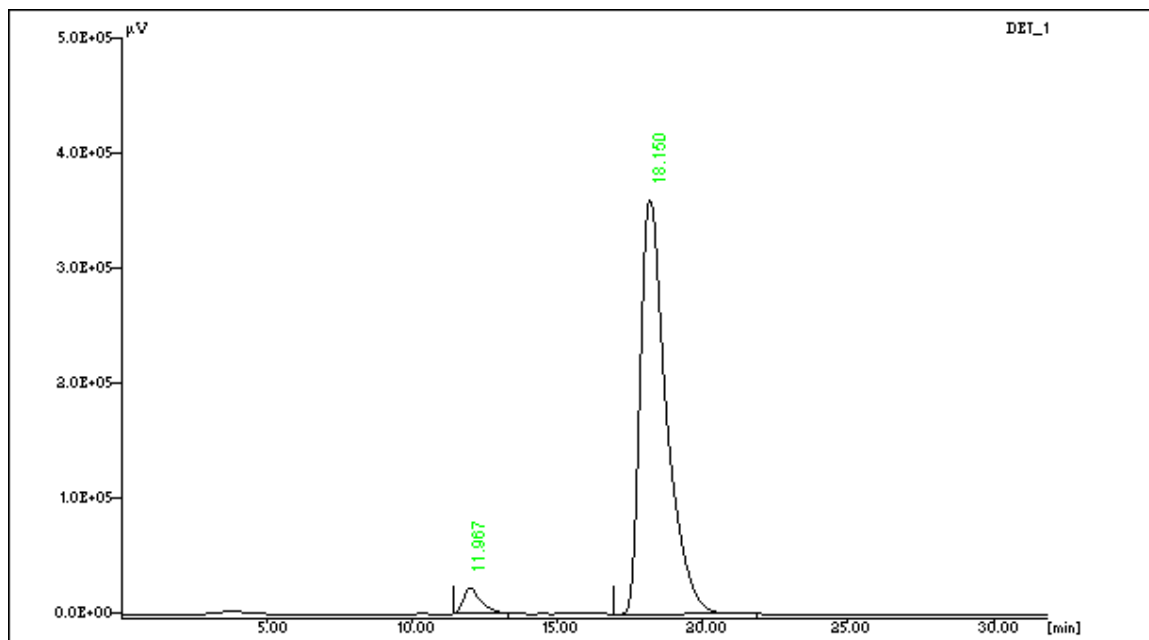
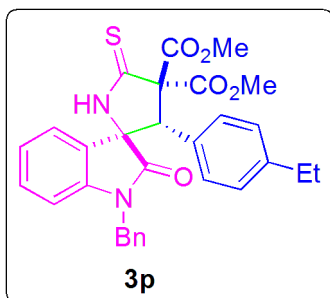
Curr. Date : 1-July-2016 10:34:08

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	11.85	50.156	5880920.50	160407
2	18.10	49.844	5844277.12	105905

Total Area of Peak = 11725197.62 [$\mu V \cdot Sec$]

Total Area of Signal = 11184123.00



File name : RC-670555.CH1

Injection Date :30-Jun-2016 16:53:04

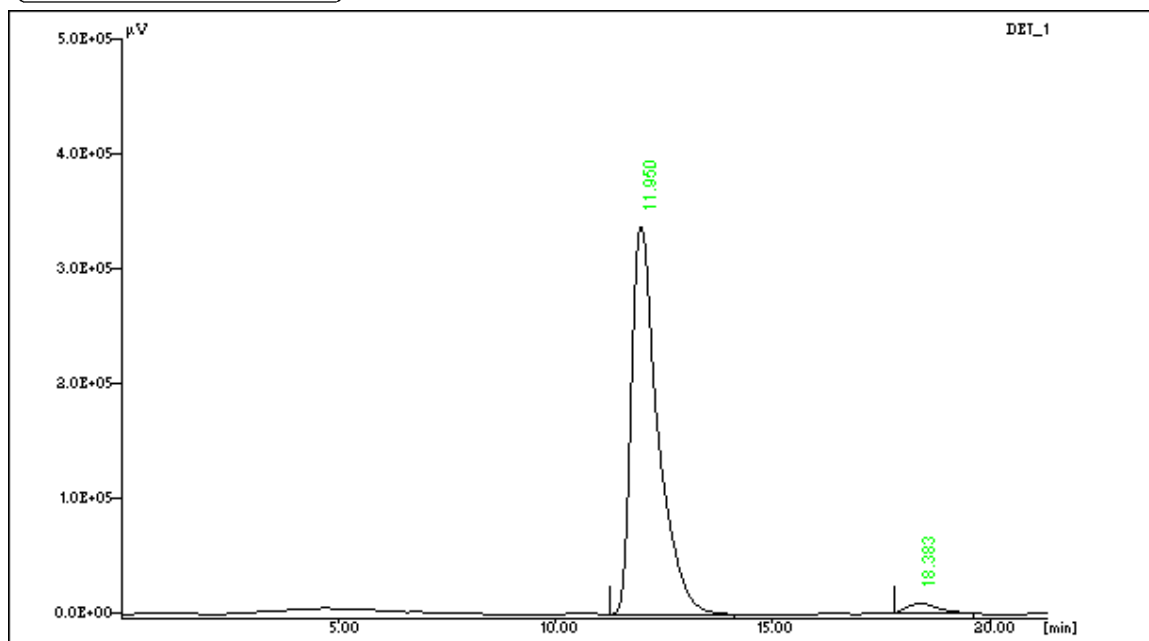
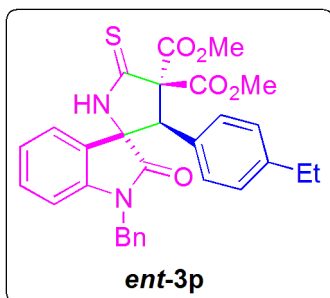
Curr. Date : 1-July-2016 11:38:18

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	11.96	3.839	848744.50	22371
2	18.15	96.161	21261871.67	359253

Total Area of Peak = 22110616.17 [μV.Sec]

Total Area of Signal = 20040621.00



File name : RC-671556.CH1

Injection Date :30-Jun-2016 17:25:22

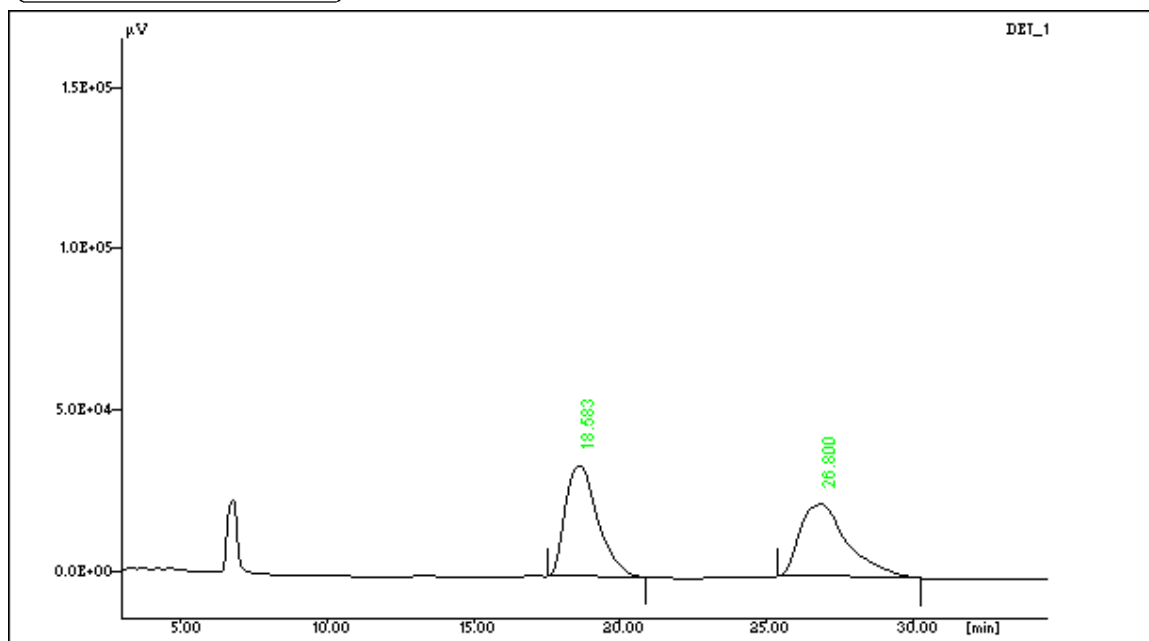
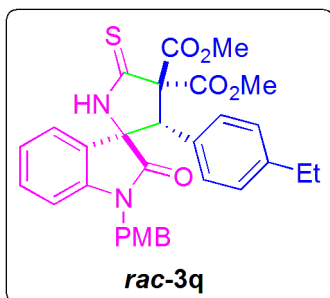
Curr. Date : 1-July-2016 13:36:00

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	11.95	97.197	13492510.75	337349
2	18.38	2.803	389158.50	8097

Total Area of Peak = 13881669.25 [μV.Sec]

Total Area of Signal = 13583862.50



File name : RC-685569.CH1

Injection Date :30-Jun-2016 18:32:16

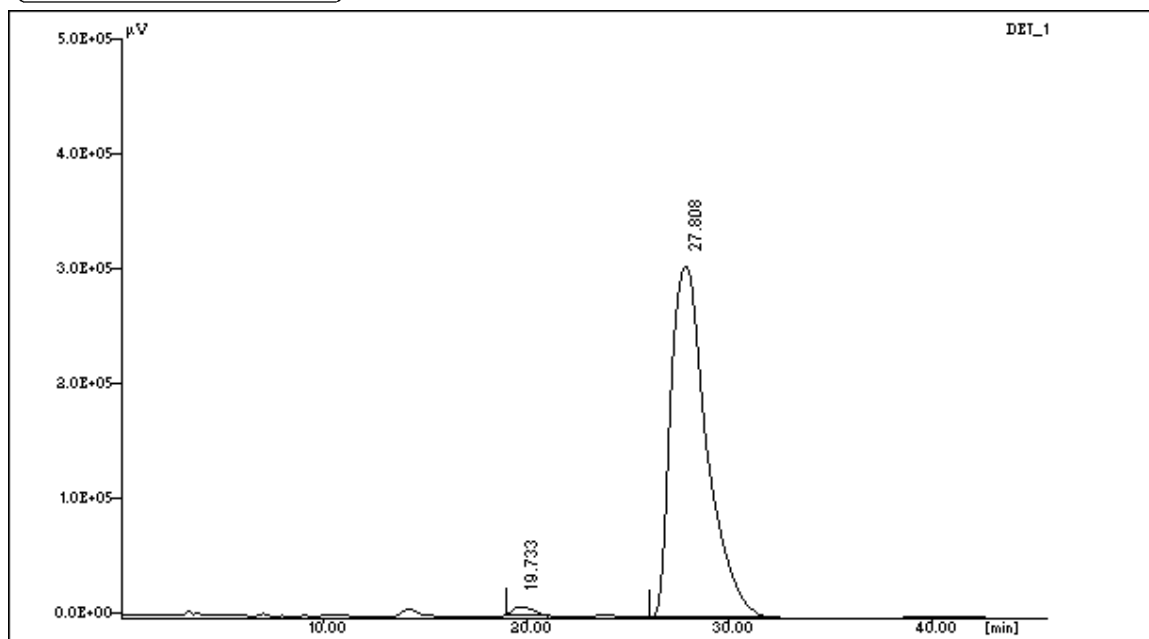
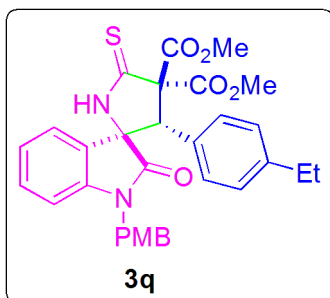
Curr. Date : 1-July-2016 13:50:08

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	18.58	50.741	2547074.00	34231
2	26.80	49.259	2472676.50	22359

Total Area of Peak = 5019750.50 [$\mu V \cdot Sec$]

Total Area of Signal = 2235360.00



File name : RC-686571.CH1

Injection Date :30-Jun-2016 21:28:26

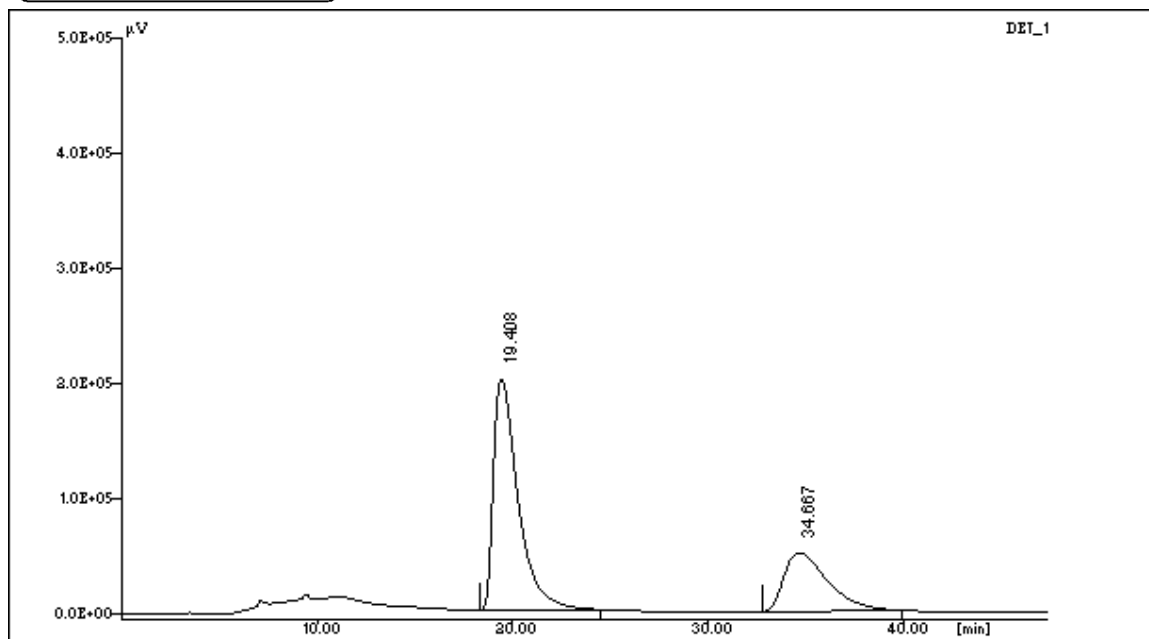
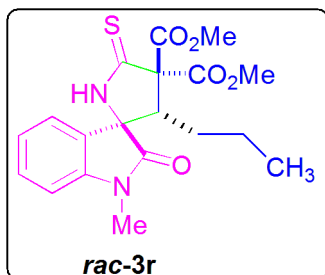
Curr. Date : 1-July-2016 14:20:58

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	19.73	1.346	489780.75	7249
2	27.80	98.654	35885679.00	304537

Total Area of Peak = 36375459.75 [μV.Sec]

Total Area of Signal = 28146227.50



File name : RC-733750.CH1

Injection Date : 21-Oct-2016 10:09:16

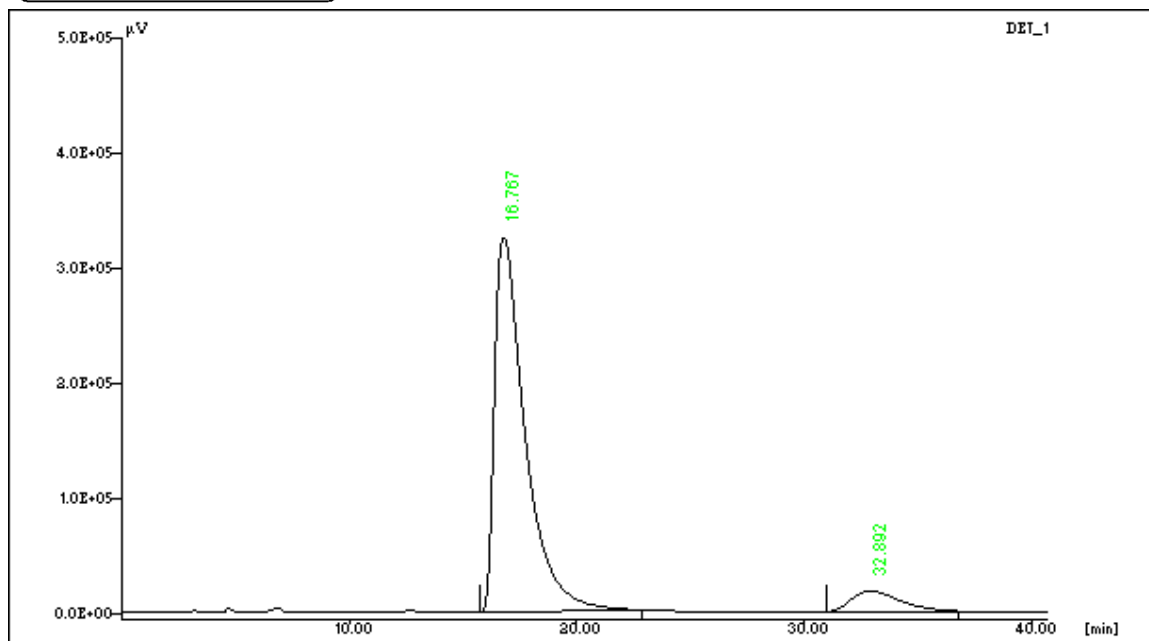
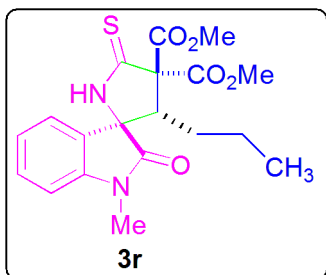
Curr. Date : 21-Oct-2016 1:39:26

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	19.40	68.205	16519578.50	199470
2	34.66	31.795	7701058.00	50792

Total Area of Peak = 24220636.50 [$\mu V \cdot Sec$]

Total Area of Signal = 34253735.50



File name : RC-734751.CH1

Injection Date :21-Oct-2016 0:59:00

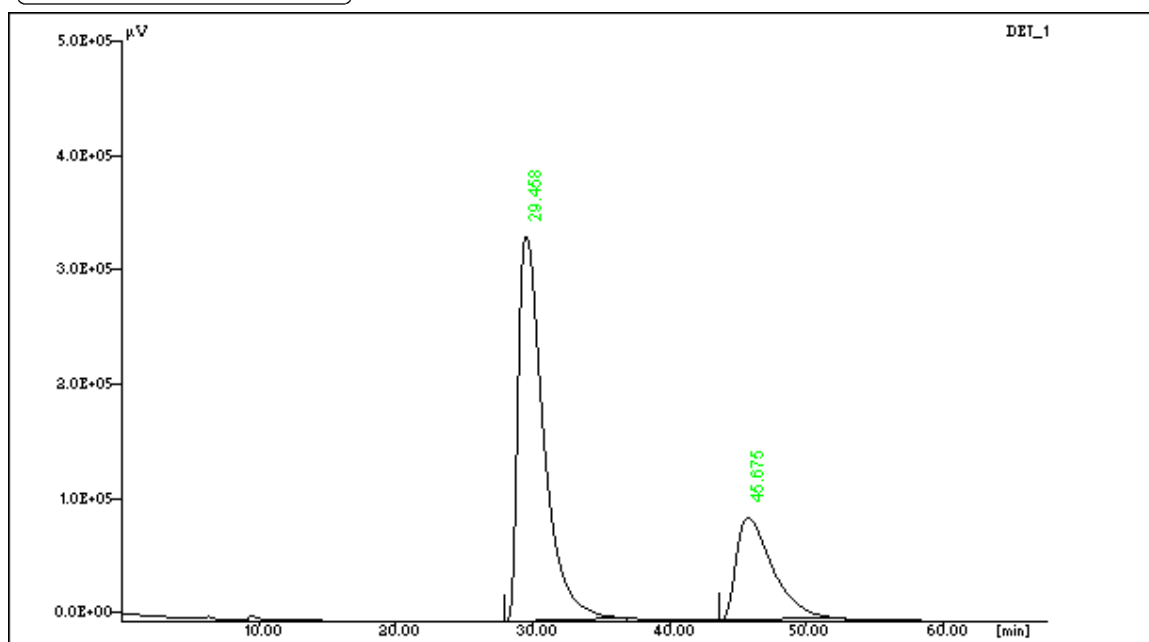
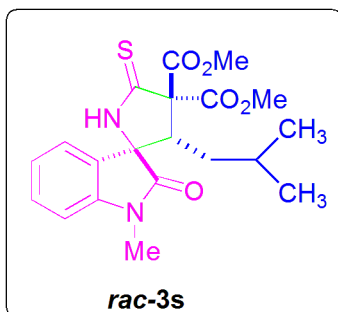
Curr. Date : 21-Oct-2016 1:42:06

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	16.76	91.736	28915848.23	324698
2	32.89	8.264	2604909.50	17889

Total Area of Peak = 31520757.73 [μV.Sec]

Total Area of Signal = 35828013.50



File name : RC-731743.CH1

Injection Date : 19-Oct-2016 4:29:10

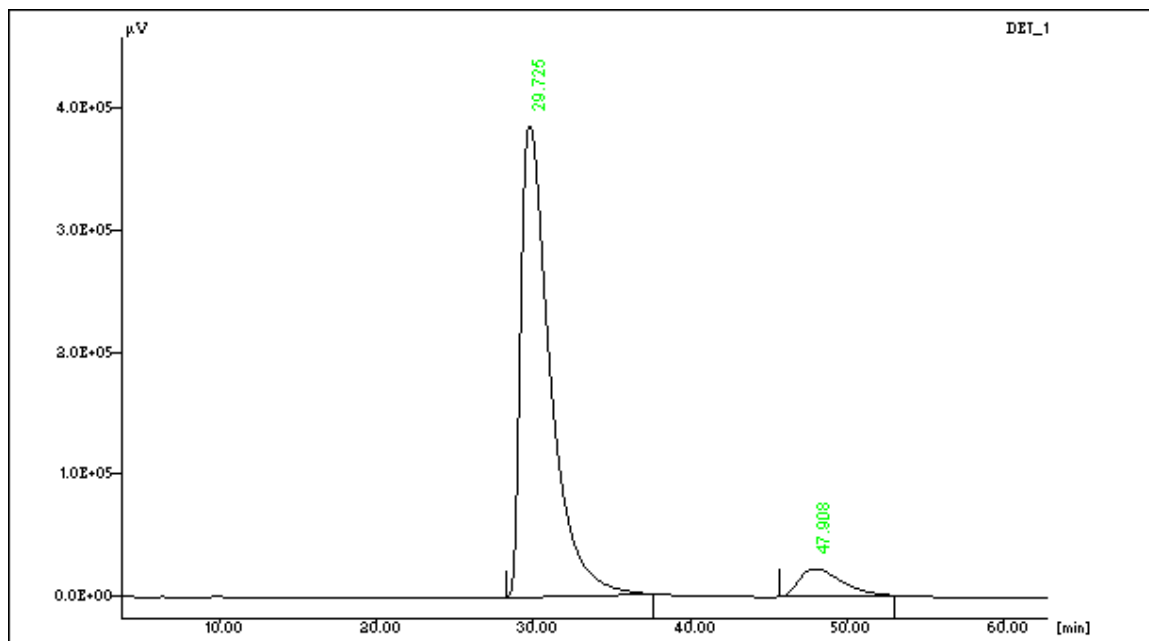
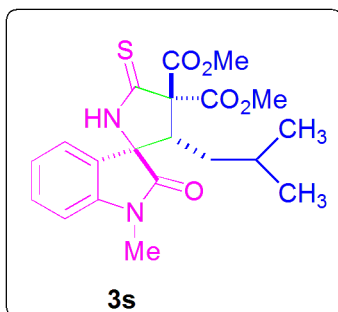
Curr. Date : 19-Oct-2016 5:39:18

Control Method : RC-1

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	29.45	71.791	40749820.50	335692
2	45.67	28.209	16011731.50	88966

Total Area of Peak = 56761552.00 [$\mu V \cdot Sec$]

Total Area of Signal = 32643935.00



File name : RC-732744.CH1

Injection Date :19-Oct-2016 5:37:28

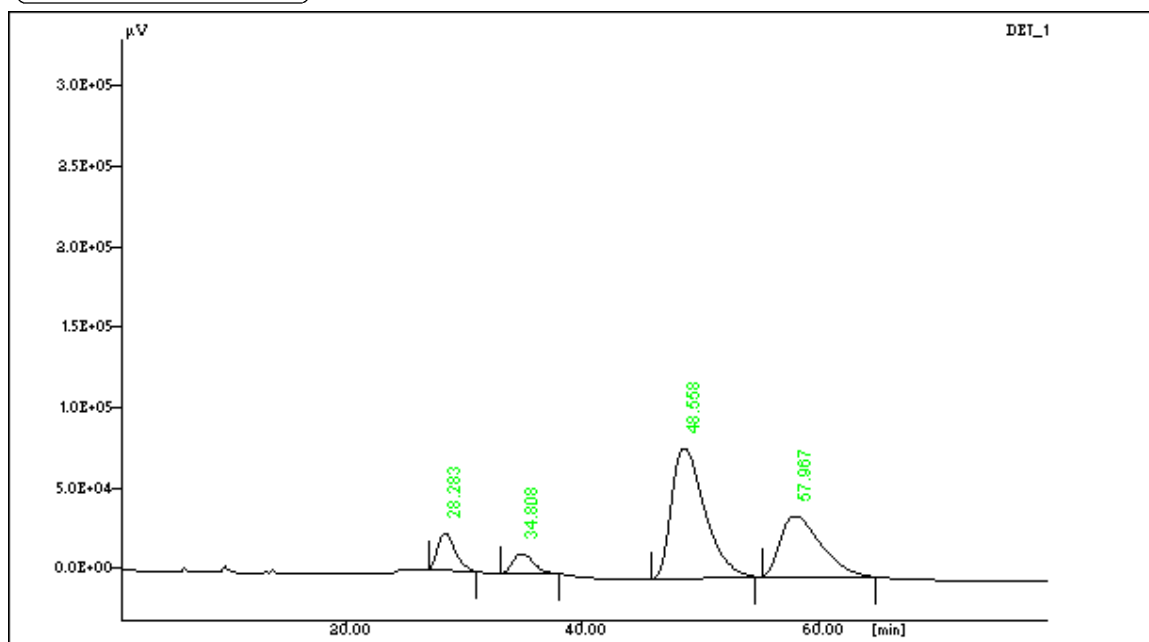
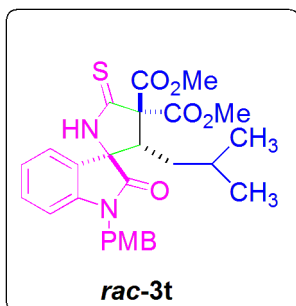
Curr. Date : 19-Oct-2016 6:47:20

Control Method :RC-1

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	29.72	92.095	47729577.53	385566
2	47.90	7.905	4096726.00	22420

Total Area of Peak = 51826303.53 [μV.Sec]

Total Area of Signal = 50555820.00



File name : RC-729740.CH1

Injection Date :15-Oct-2016 1:38:46

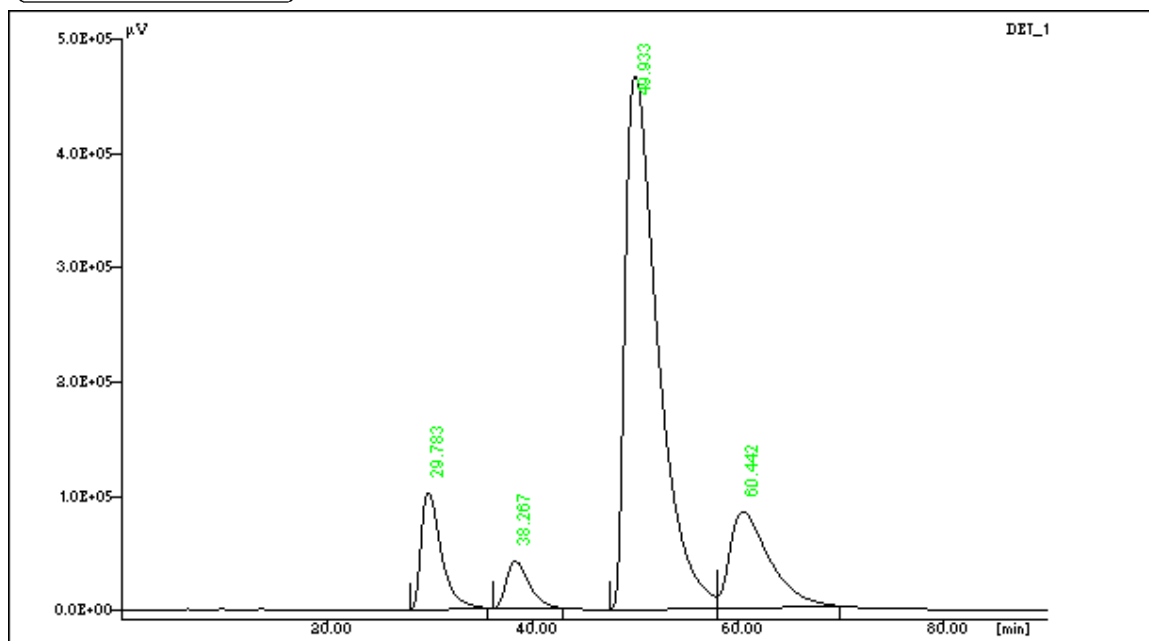
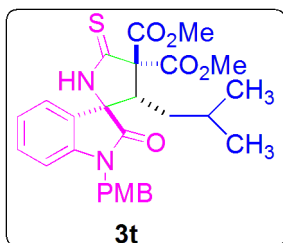
Curr. Date : 15-Oct-2016 5:11:34

Control Method :RC-1

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	28.28	7.787	2142465.00	22425
2	34.808	5.317	1462747.50	12317
3	48.55	55.373	15234782.75	80875
4	57.96	31.524	8673177.50	37357

Total Area of Peak = 27513172.75 [$\mu V \cdot Sec$]

Total Area of Signal = 5749708.50



File name : RC-730741.CH1

Injection Date :15-Oct-2016 2:59:56

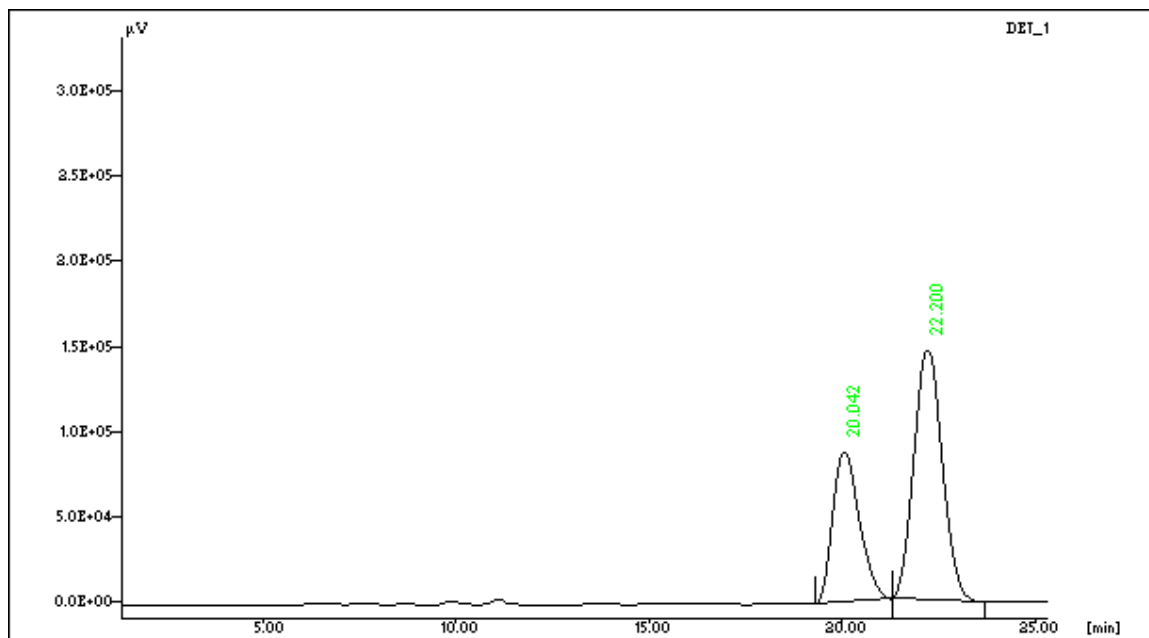
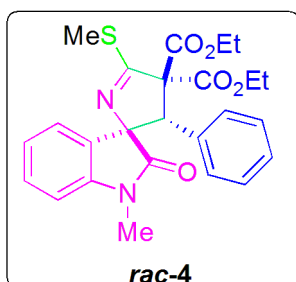
Curr. Date : 15-Oct-2016 5:13:20

Control Method :RC-1

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	29.78	9.338	12940701.50	102221
2	38.26	4.260	5903401.50	40541
3	49.93	70.671	97936087.08	465771
4	60.44	15.731	21800862.92	83090

Total Area of Peak = 138581053.00 [$\mu V \cdot Sec$]

Total Area of Signal = 145676931.50



File name : RC-673558.CH1

Injection Date : 1-Jul-2016 17:07:46

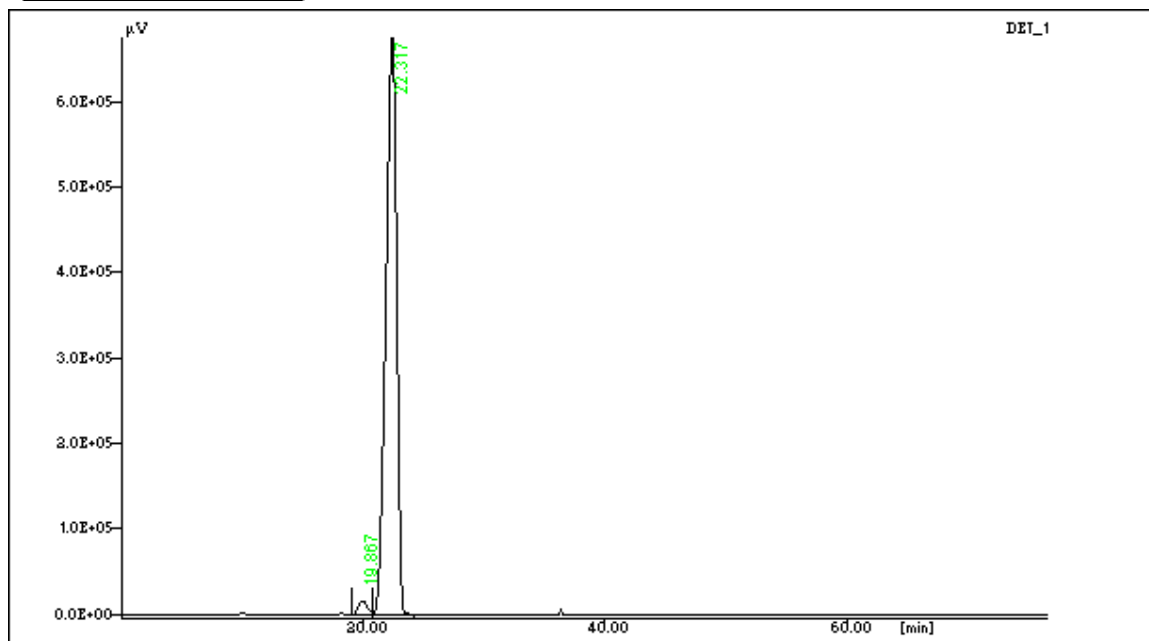
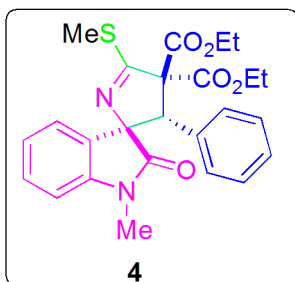
Curr. Date : 1-Jul-2016 18:51:26

Control Method :RC-1

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	20.04	35.836	3973028.29	87719
2	22.20	64.164	7113812.27	146423

Total Area of Peak = 11086840.56 [μV.Sec]

Total Area of Signal = 9491315.50



File name : RC-672559.CH1

Injection Date : 1-Jul-2016 17:33:36

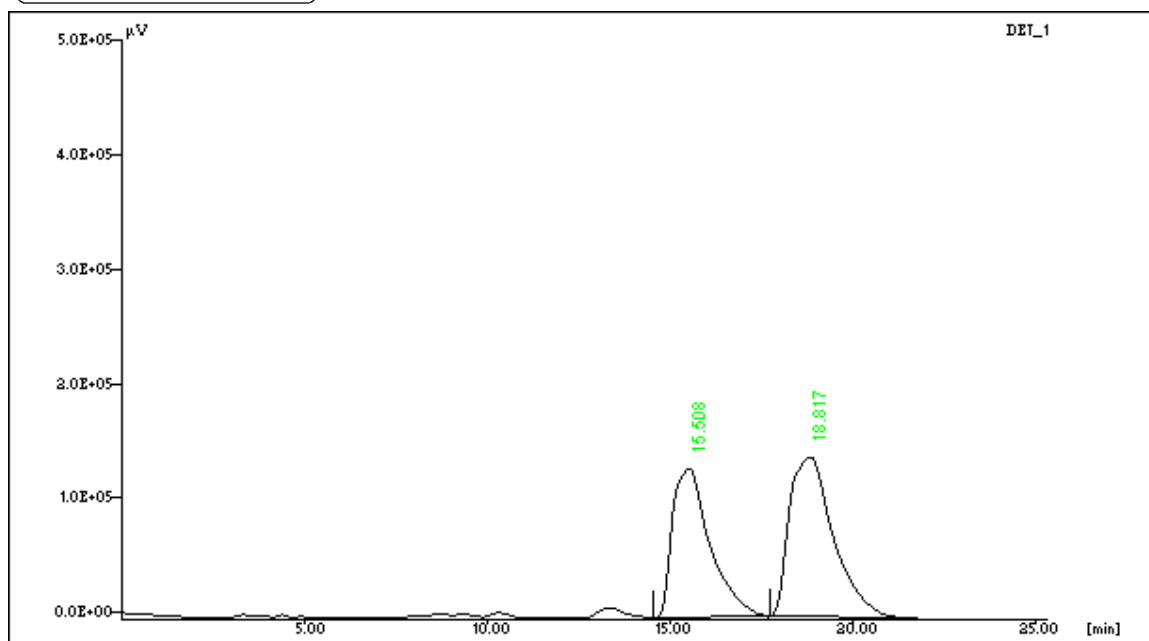
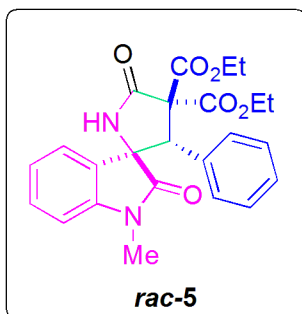
Curr. Date : 1-Jul-2016 18:52:30

Control Method :RC-1

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	19.86	1.891	686042.76	16027
2	22.31	98.109	35597760.35	674723

Total Area of Peak = 36283803.11 [μV.Sec]

Total Area of Signal = 33942705.50



File name : RC-678MIX682563.CH1

Injection Date :1-July-2016 15:25:212

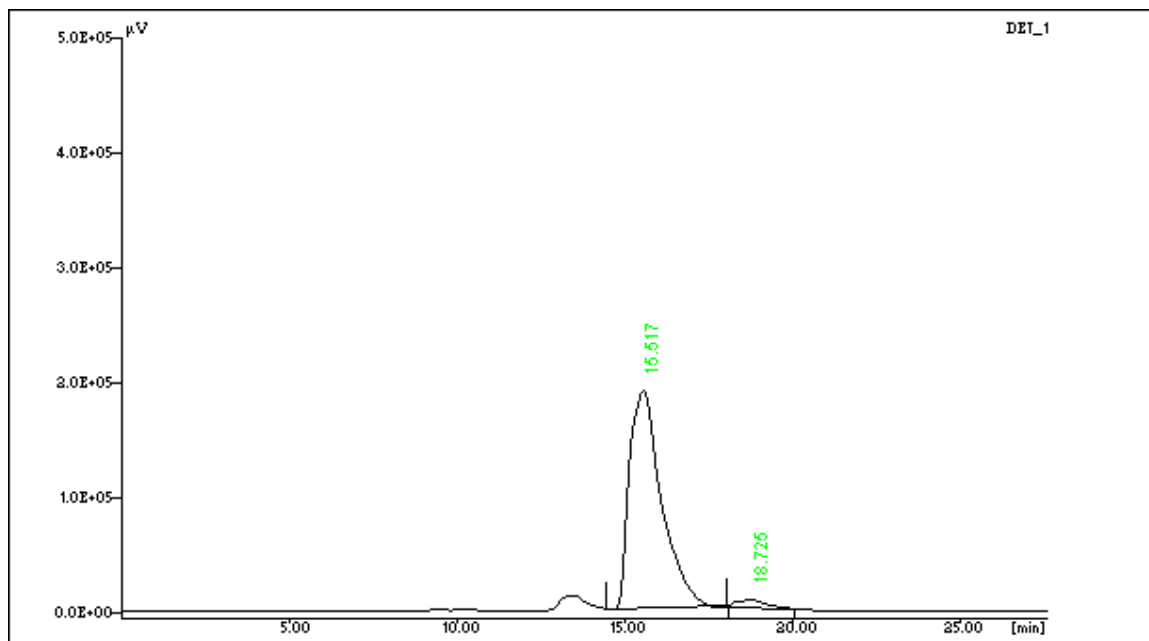
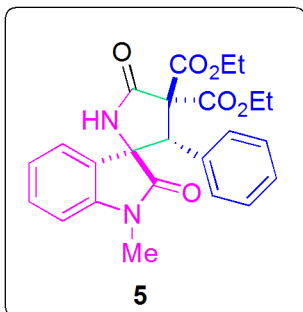
Curr. Date : 1-July-2016 16:56:22

Control Method :RC

Name	RT	%Area	Area[$\mu V \cdot Sec$]	Height[μV]
1	15.50	44.123	8868362.89	129396
2	18.81	55.877	11230863.00	139116

Total Area of Peak = 20099225.89 [$\mu V \cdot Sec$]

Total Area of Signal = 14632764.00



File name : RC-678566.CH1

Injection Date : 1-July-2016 16:20:28

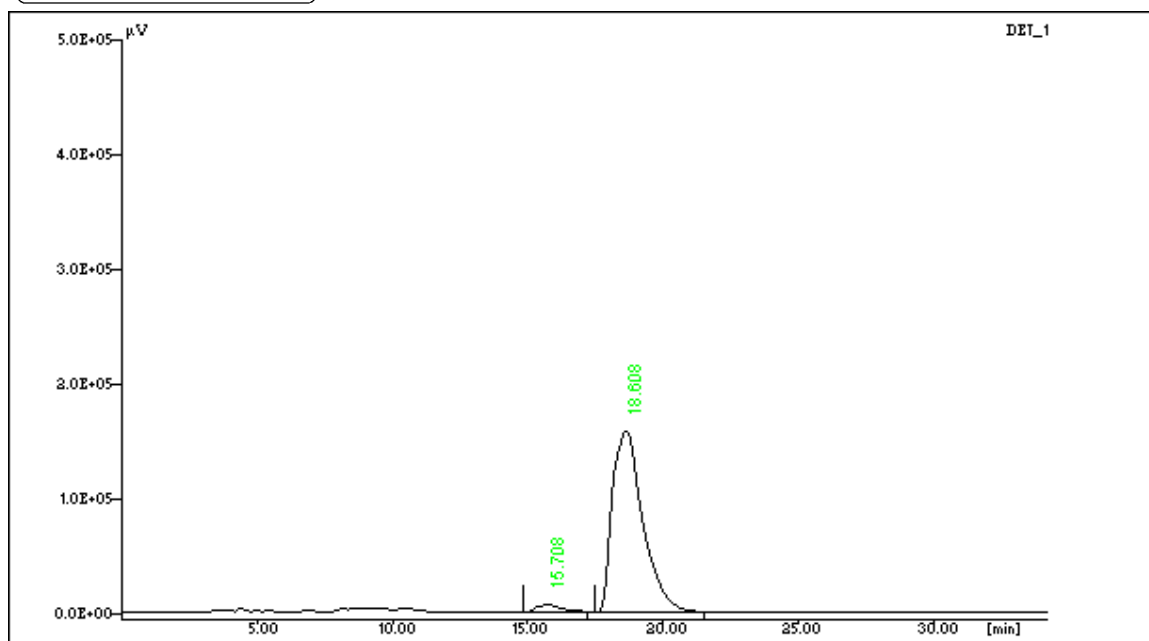
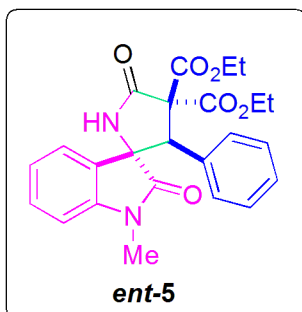
Curr. Date : 1-July-2016 17:02:22

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	15.51	97.056	11905068.83	188485
2	18.72	2.944	361088.00	5919

Total Area of Peak = 12266156.83 [μV.Sec]

Total Area of Signal = 16426638.00



File name : RC-682565.CH1

Injection Date : 3-July-2016 11:45:52

Curr. Date : 3-July-2016 13:04:28

Control Method :RC

Name	RT	%Area	Area[μV.Sec]	Height[μV]
1	15.70	2.892	347499.50	5715
2	18.60	97.108	11666582.00	157271

Total Area of Peak = 12014081.50 [μV.Sec]

Total Area of Signal = 16104062.00