Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD092315\
Data File : VD046852.D
Acq On : 23 Sep 2015 13:51
Operator : FY/SY
Sample : G3748-01
Misc : 9.02gm/5mL/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Quant Time: Sep 24 01:45:37 2015
Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:47:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.29	168	165920	50.00	ug/l		-0.01
34) 1,4-Difluorobenzene	7.42	114	227388	50.00	ug/l		-0.01
63) Chlorobenzene-d5	11.56	117	199351	50.00	ug/l		-0.02
72) 1,4-Dichlorobenzene-d4	13.90	152	102487	50.00	ug/l		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.70	65	87449	50.69	ug/l		-0.01
Spiked Amount 50.000			Recovery = 101.38%				
35) Dibromofluoromethane	6.20	113	88454	49.72	ug/l		-0.02
Spiked Amount 50.000			Recovery = 99.44%				
50) Toluene-d8	9.61	98	244758	43.61	ug/l		-0.01
Spiked Amount 50.000			Recovery = 87.22%				
62) 4-Bromofluorobenzene	12.84	95	102515	45.36	ug/l		-0.01
Spiked Amount 50.000			Recovery = 90.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.42	85	434	Below Cal			79
3) Chlorodifluoromethane	1.43	51	410	Below Cal		#	71
6) Bromomethane	1.98	94	215	Below Cal		#	56
11) Methyl Iodide	3.05	142	269	1.87	ug/l	#	86
12) Tert butyl alcohol	3.70	59	32	Below Cal		#	74
17) Acetone	2.93	43	11860	40.69	ug/l		92
18) Carbon Disulfide	3.12	76	52896	10.62	ug/l		98
24) Vinyl Acetate	4.60	43	274	15.24	ug/l	#	82
26) 2-Butanone	5.44	43	2358	7.20	ug/l	#	86
31) Cyclohexane	6.28	56	4319	1.67	ug/l	#	23
36) 1,1-Dichloropropene	6.28	75	16304	6.14	ug/l	#	52
38) Carbon Tetrachloride	6.28	117	17180	6.22	ug/l	#	16
40) Benzene	6.70	78	7780	1.15	ug/l		98
49) 1,4-Dioxane	8.35	88	35	5.50	ug/l	#	20
52) Toluene	9.71	92	20254	4.84	ug/l		97
56) Ethyl methacrylate	10.20	69	240	4.07	ug/l	#	11
58) 2-Chloroethyl Vinyl ether	9.15	63	31	6.38	ug/l	#	53
67) Ethyl Benzene	11.72	91	608296	72.16	ug/l		99
68) m/p-Xylenes	11.86	106	5341	2.01	ug/l		95
69) o-Xylene	12.28	106	3133	1.31	ug/l		95
73) Isopropylbenzene	12.66	105	721412	99.85	ug/l		97
74) N-amyl acetate	12.56	43	128	4.78	ug/l	#	54
80) 1,3,5-Trimethylbenzene	13.24	105	29069	5.05	ug/l		97
81) trans-1,4-Dichloro-2-buten	12.66	75	10797	32.85	ug/l	#	62
83) tert-Butylbenzene	13.58	119	21126	4.07	ug/l	#	65
84) 1,2,4-Trimethylbenzene	13.58	105	197840	34.14	ug/l		94
85) sec-Butylbenzene	13.58	105	192095	25.18	ug/l	#	56
86) p-Isopropyltoluene	13.82	119	105379	17.57	ug/l	#	67
89) n-Butylbenzene	14.12	91	728224	107.56	ug/l	#	43
90) Hexachloroethane	14.60	117	10924	7.86	ug/l	#	8
92) 1,2-Dibromo-3-Chloropropan	14.89	75	3391	22.63	ug/l	#	1
95) Naphthalene	15.82	128	159510	72.38	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD092315\
Data File : VD046852.D
Acq On : 23 Sep 2015 13:51
Operator : FY/SY
Sample : G3748-01
Misc : 9.02gm/5mL/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Quant Time: Sep 24 01:45:37 2015
Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:47:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

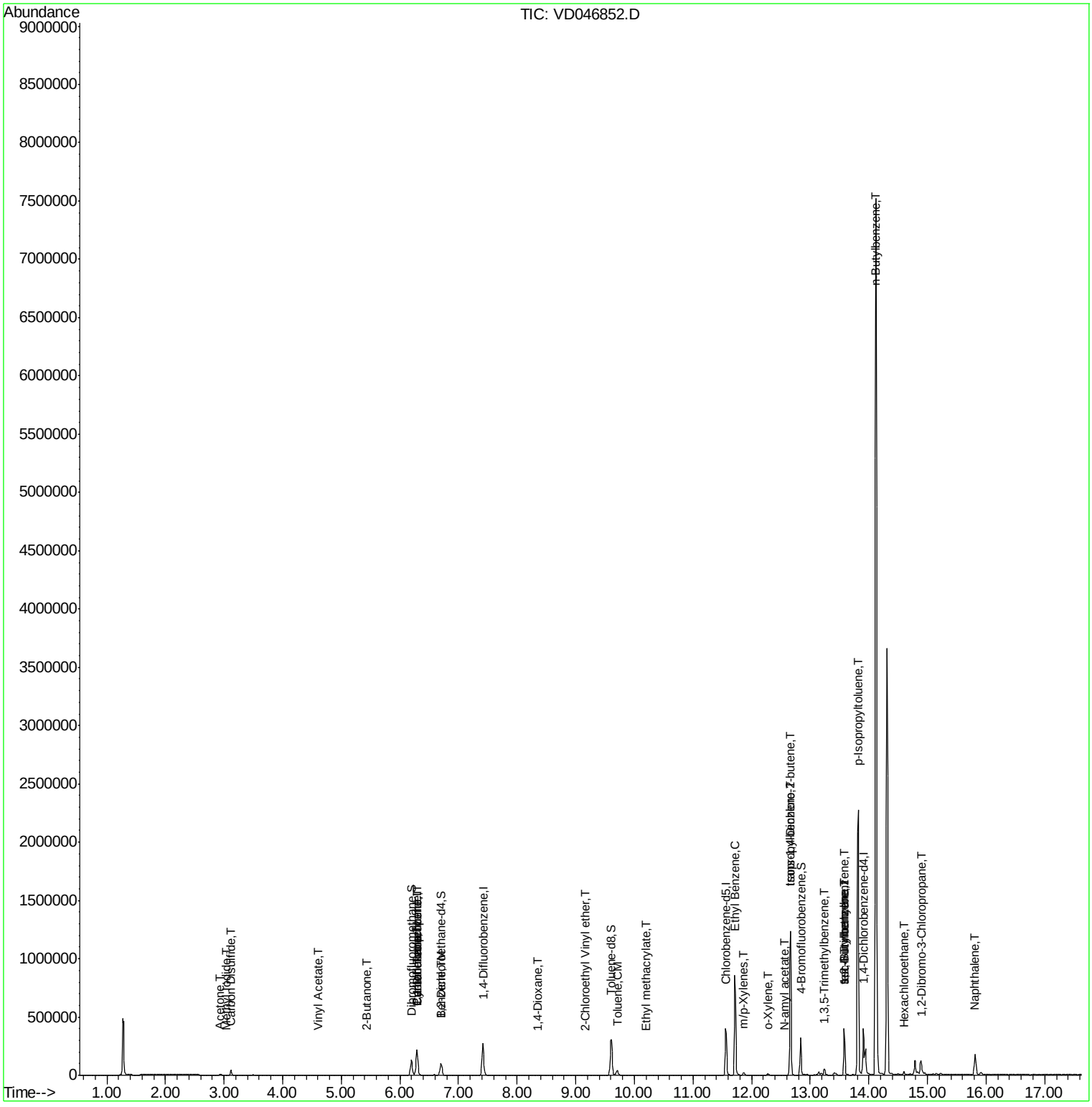
(#) = qualifier out of range (m) = manual integration (+) = signals summed

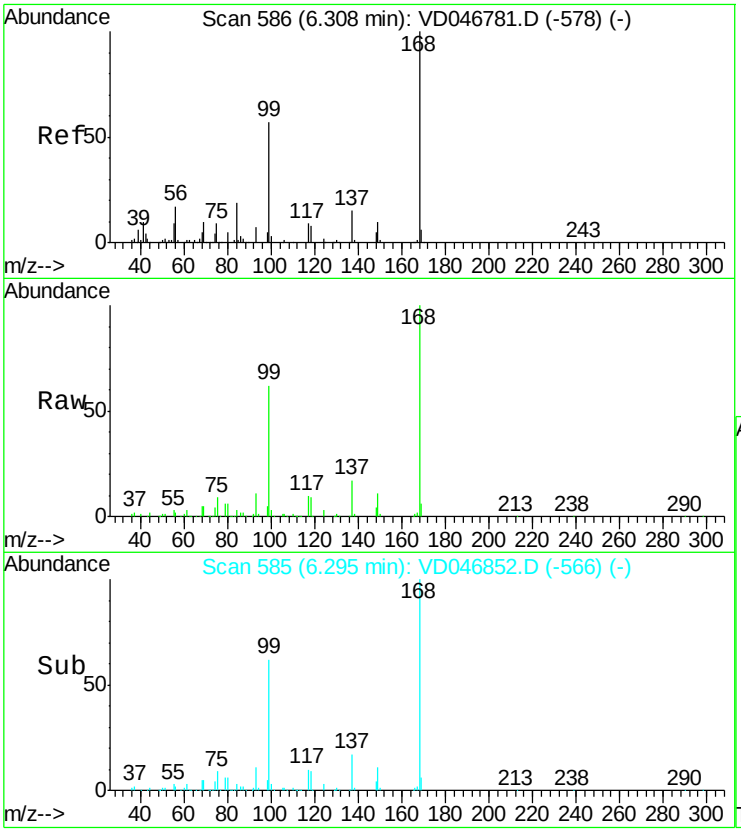
Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD092315\
Data File : VD046852.D
Acq On : 23 Sep 2015 13:51
Operator : FY/SY
Sample : G3748-01
Misc : 9.02gm/5mL/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Quant Time: Sep 24 01:45:37 2015
Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:47:18 2015
Response via : Initial Calibration



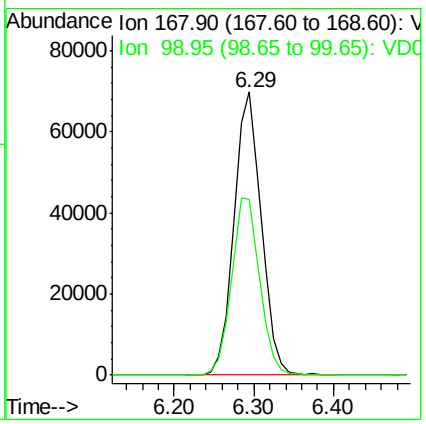


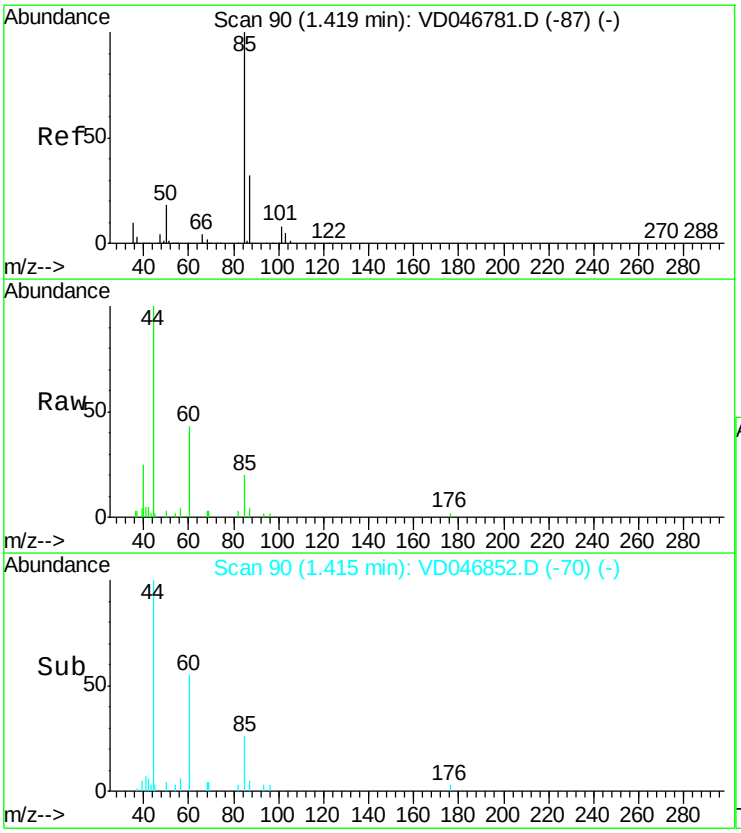
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 6.29 min Scan# 585
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion:168 Resp: 165920

Ion	Ratio	Lower	Upper
168	100		
99	62.1	42.4	63.6

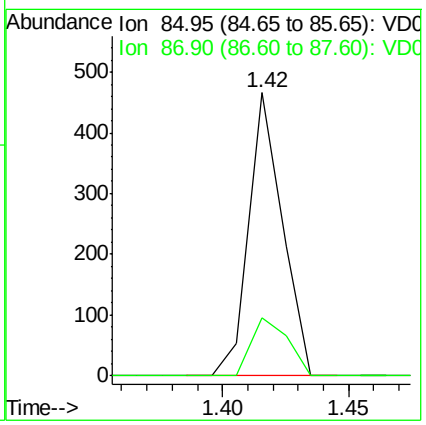


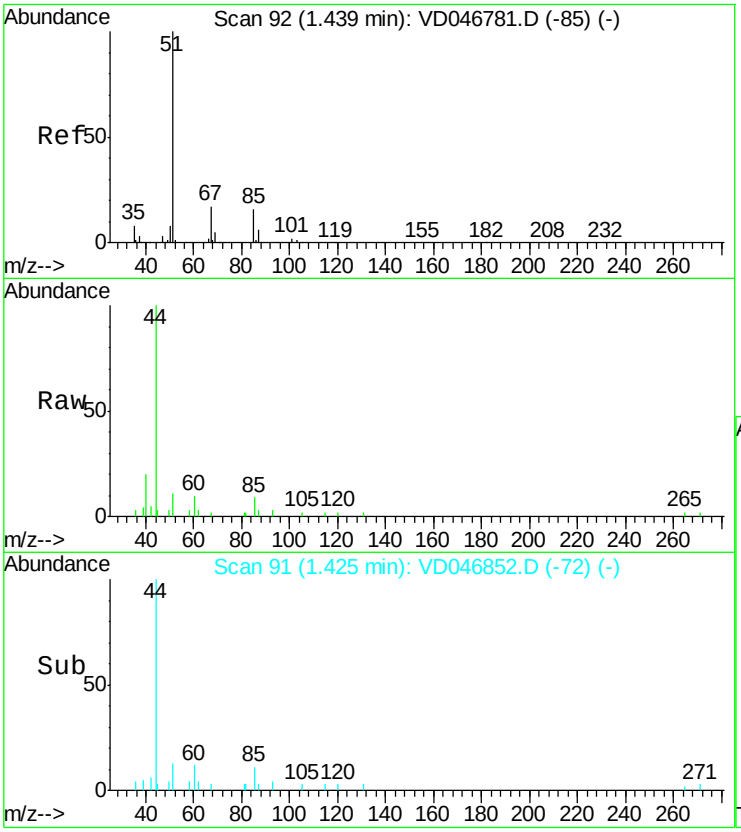


#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.42 min Scan# 90
Delta R.T. -0.00 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 85 Resp: 434

Ion	Ratio	Lower	Upper
85	100		
87	20.6	16.2	48.5



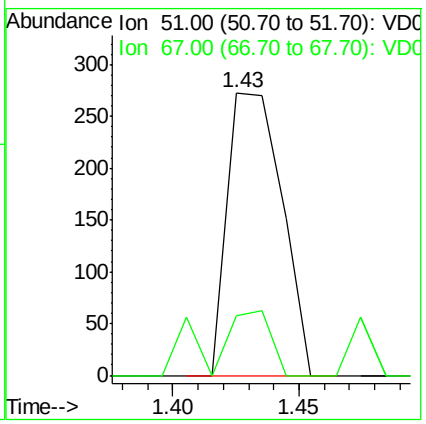


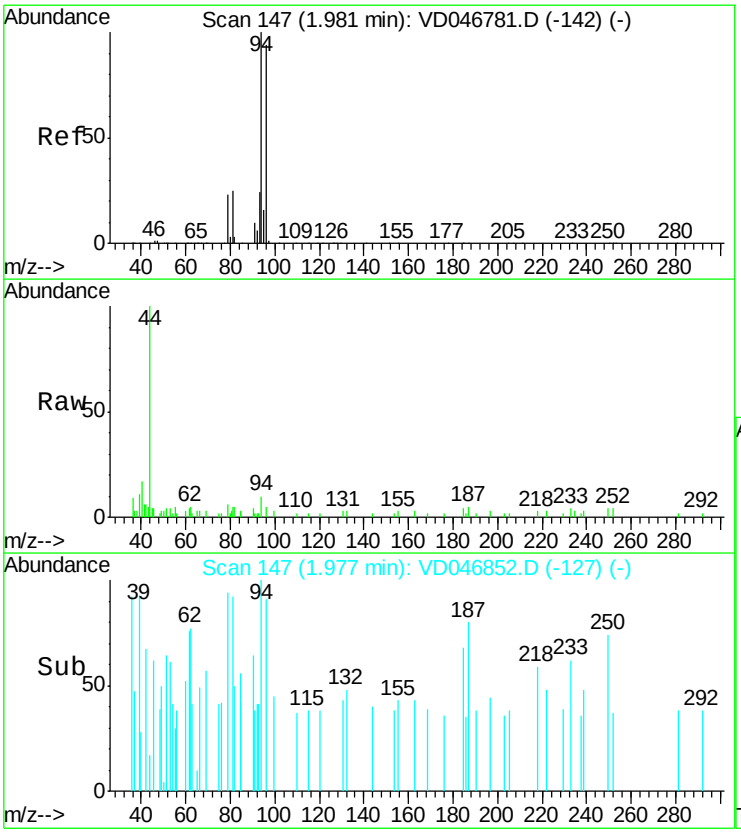
#3
Chlorodifluoromethane
Concen: Below Cal
RT: 1.43 min Scan# 91
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion: 51 Resp: 410

Ion	Ratio	Lower	Upper
51	100		
67	25.4	10.9	16.3#

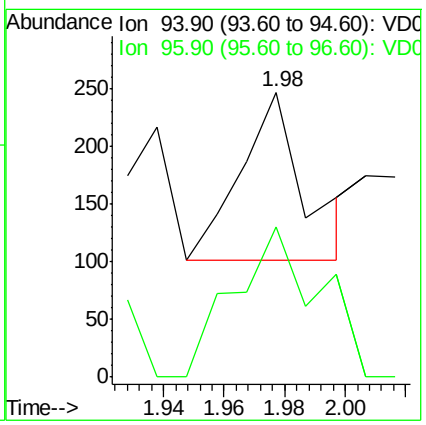


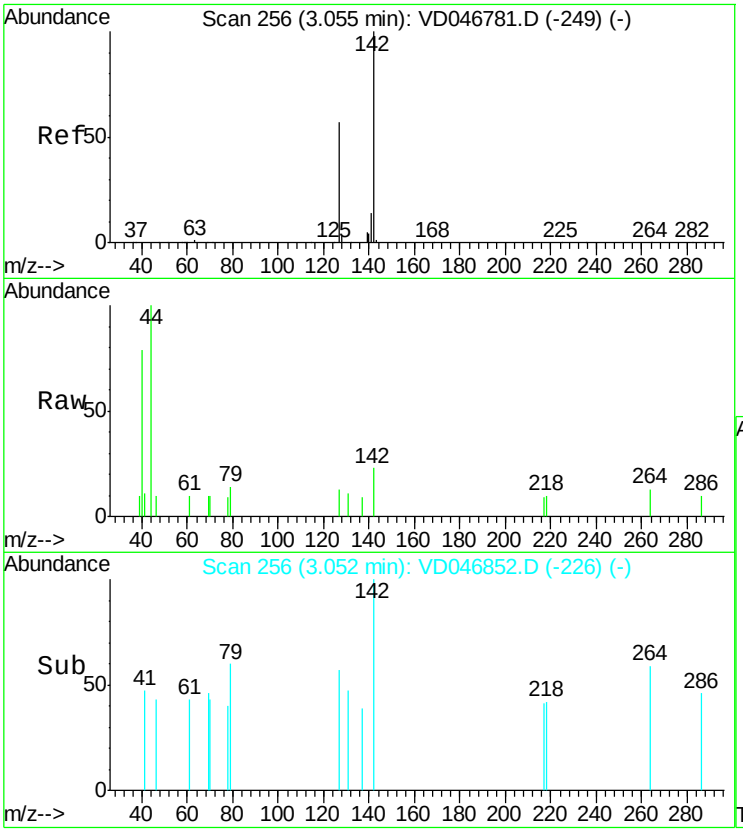


#6
Bromomethane
Concen: Below Cal
RT: 1.98 min Scan# 147
Delta R.T. -0.00 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 94 Resp: 215

Ion	Ratio	Lower	Upper
94	100		
96	52.6	76.0	114.0#



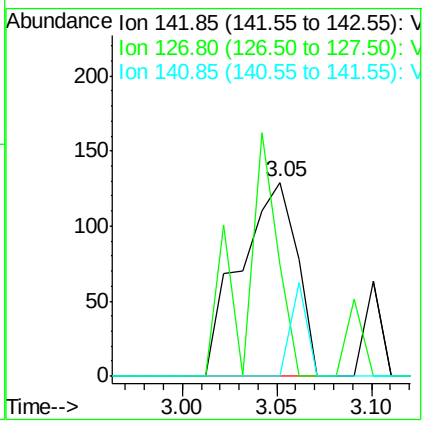


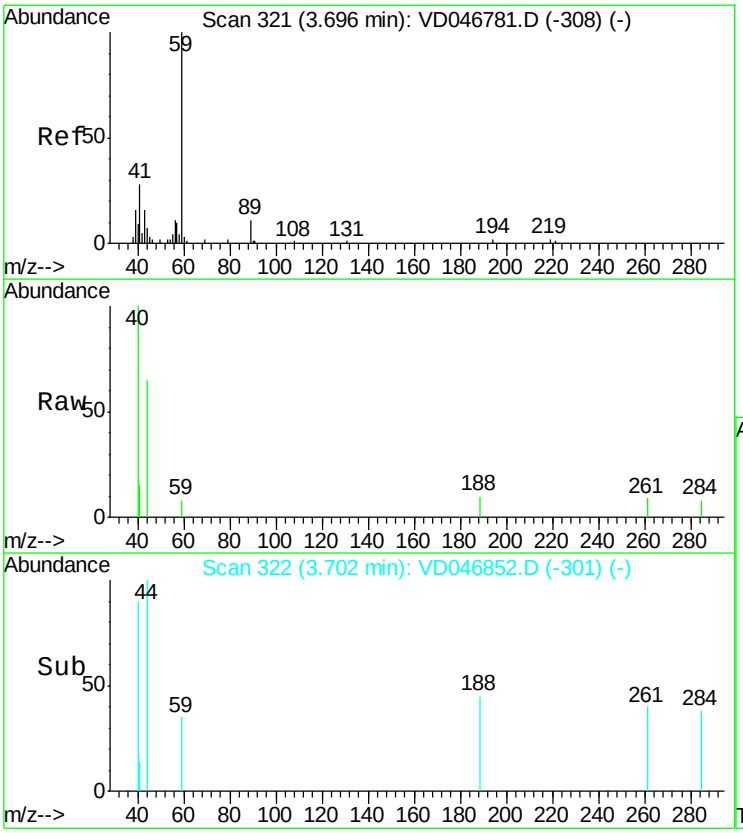
#11
Methyl Iodide
Concen: 1.87 ug/l
RT: 3.05 min Scan# 256
Delta R.T. -0.00 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion:142 Resp: 269

Ion	Ratio	Lower	Upper
142	100		
127	57.4	41.2	61.8
141	0.0	11.6	17.4#

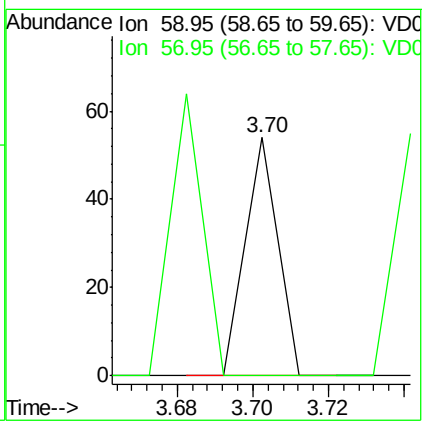


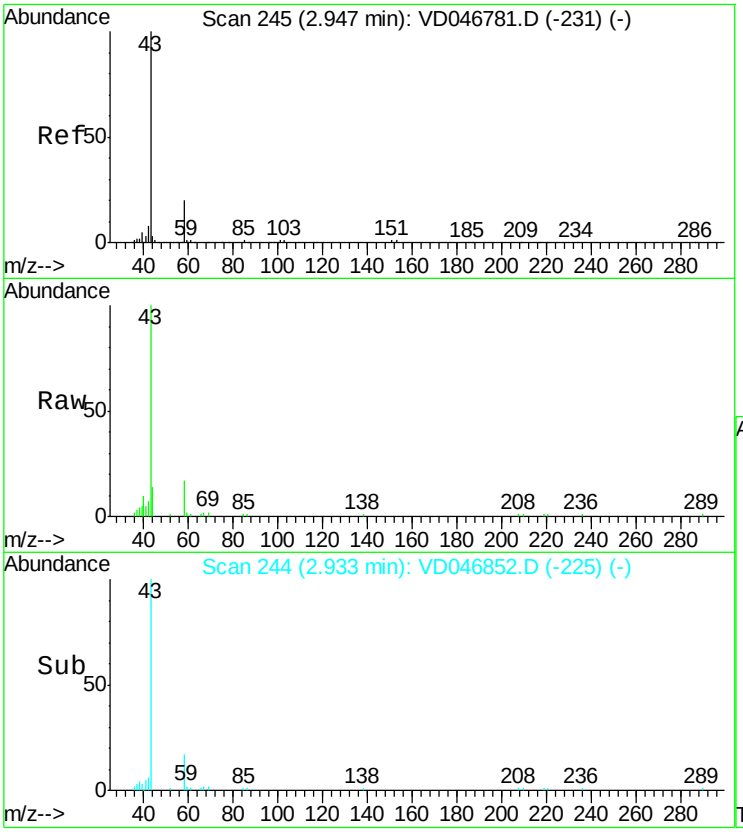


#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.70 min Scan# 322
Delta R.T. 0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 59 Resp: 32

Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.6#



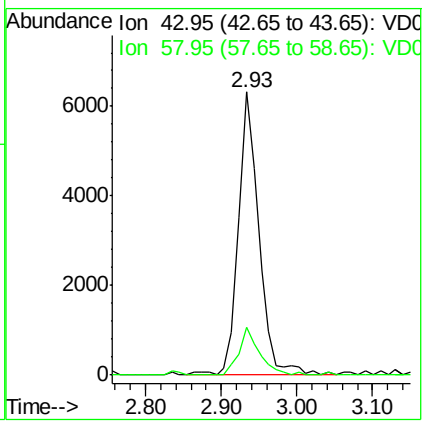


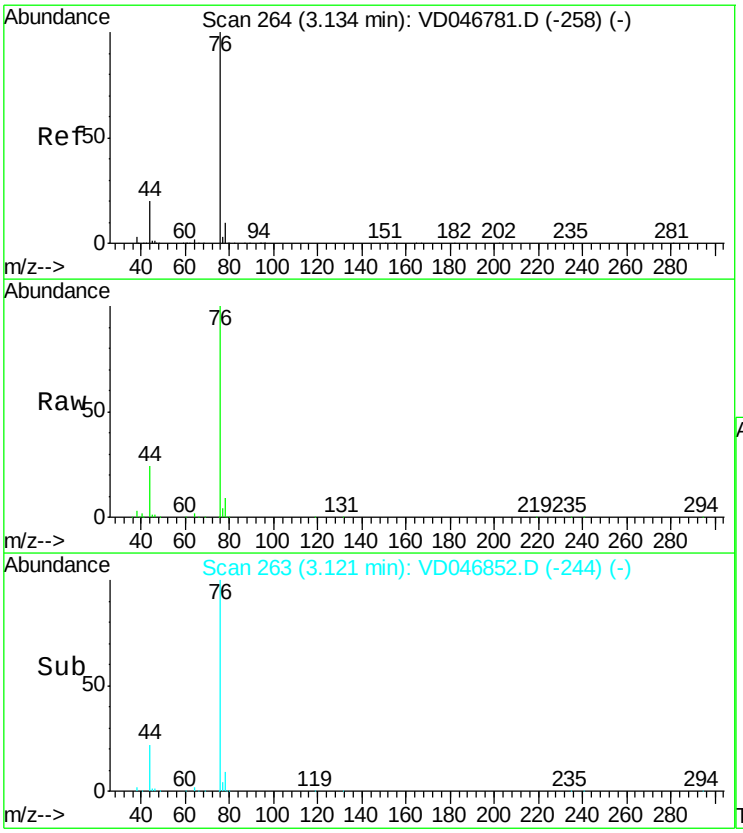
#17
Acetone
Concen: 40.69 ug/l
RT: 2.93 min Scan# 244
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion: 43 Resp: 11860

Ion	Ratio	Lower	Upper
43	100		
58	16.9	16.6	24.8

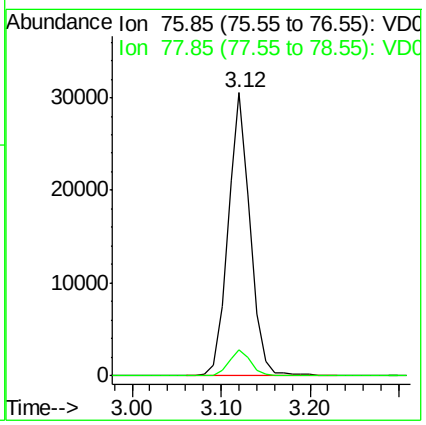


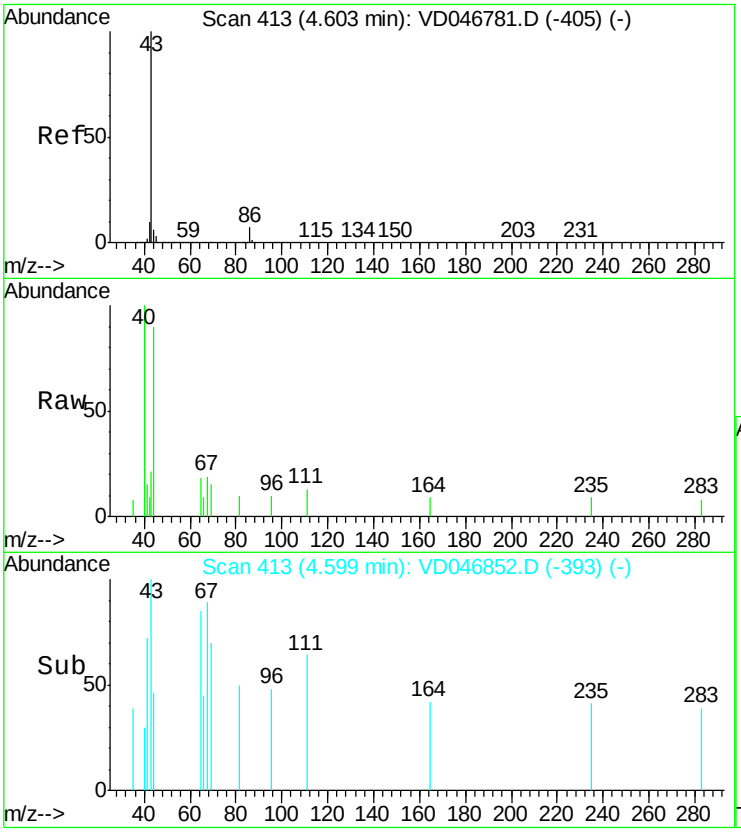


#18
Carbon Disulfide
Concen: 10.62 ug/l
RT: 3.12 min Scan# 263
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 76 Resp: 52896

Ion	Ratio	Lower	Upper
76	100		
78	9.3	8.0	12.0



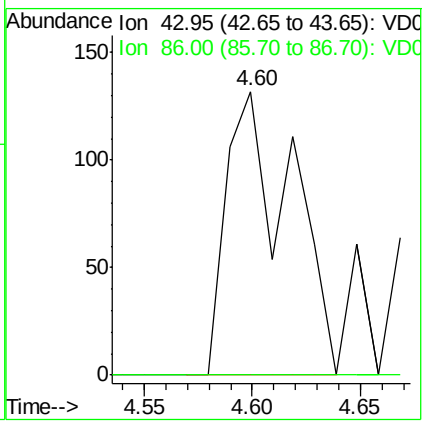


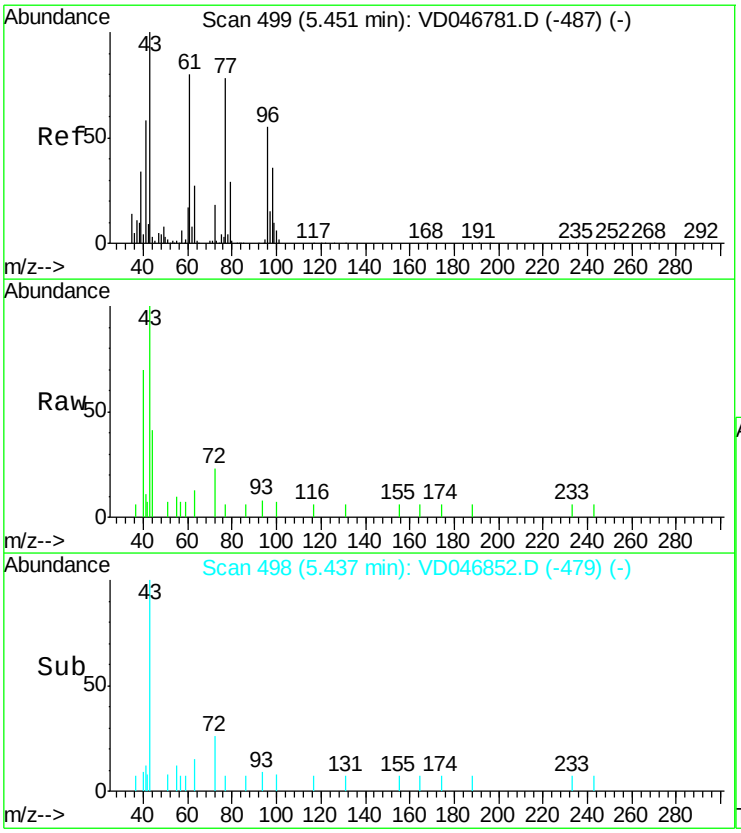
#24
Vinyl Acetate
Concen: 15.24 ug/l
RT: 4.60 min Scan# 413
Delta R.T. -0.00 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion: 43 Resp: 274

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.9	7.3#

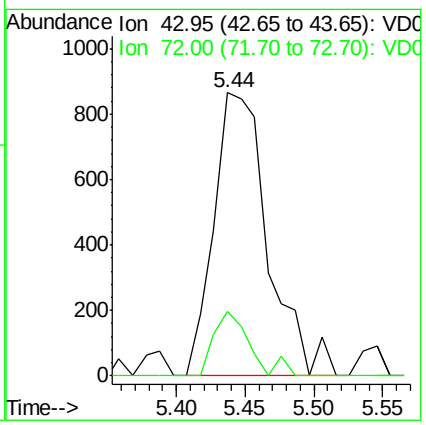


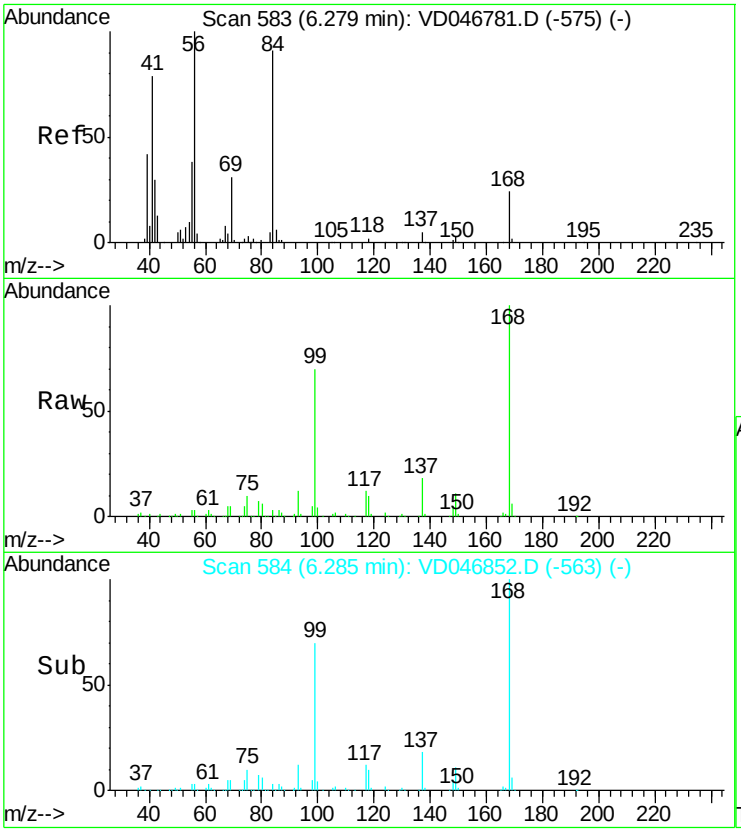


#26
2-Butanone
Concen: 7.20 ug/l
RT: 5.44 min Scan# 498
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 43 Resp: 2358

Ion	Ratio	Lower	Upper
43	100		
72	22.9	13.4	20.0#



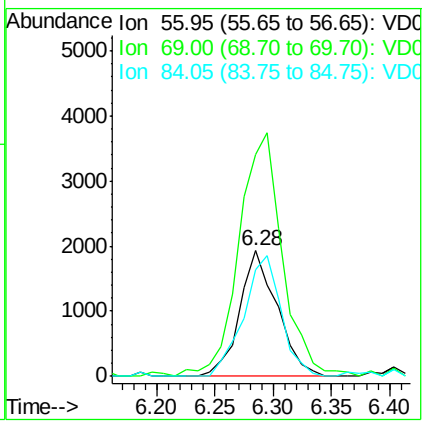


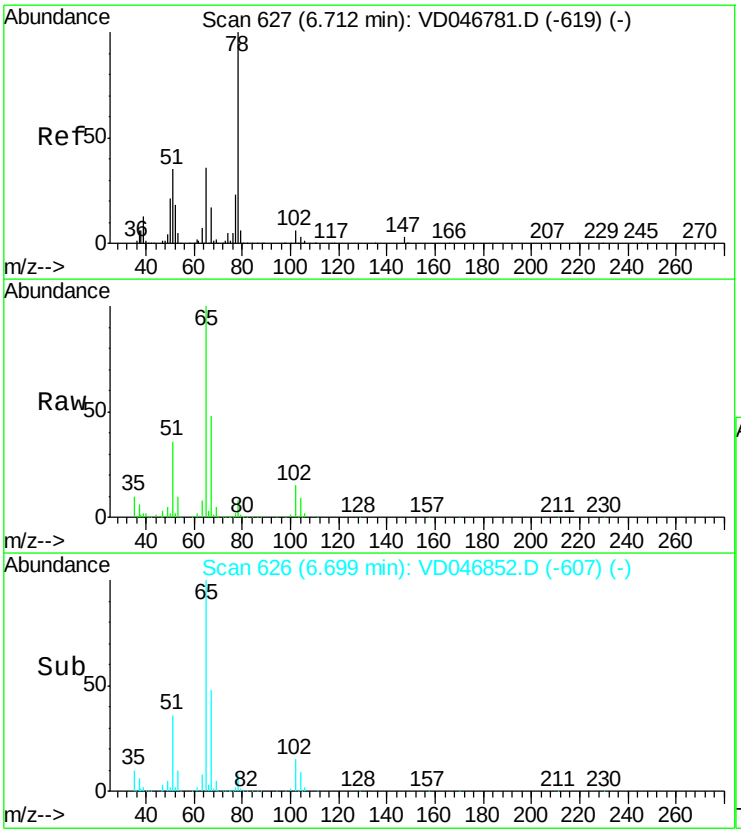
#31
Cyclohexane
Concen: 1.67 ug/l
RT: 6.28 min Scan# 584
Delta R.T. 0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion: 56 Resp: 4319

Ion	Ratio	Lower	Upper
56	100		
69	176.2	23.4	35.0#
84	84.4	63.8	95.8

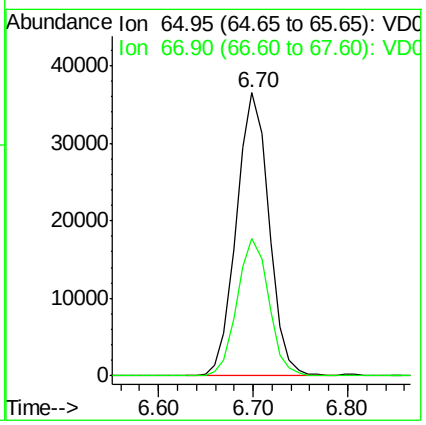


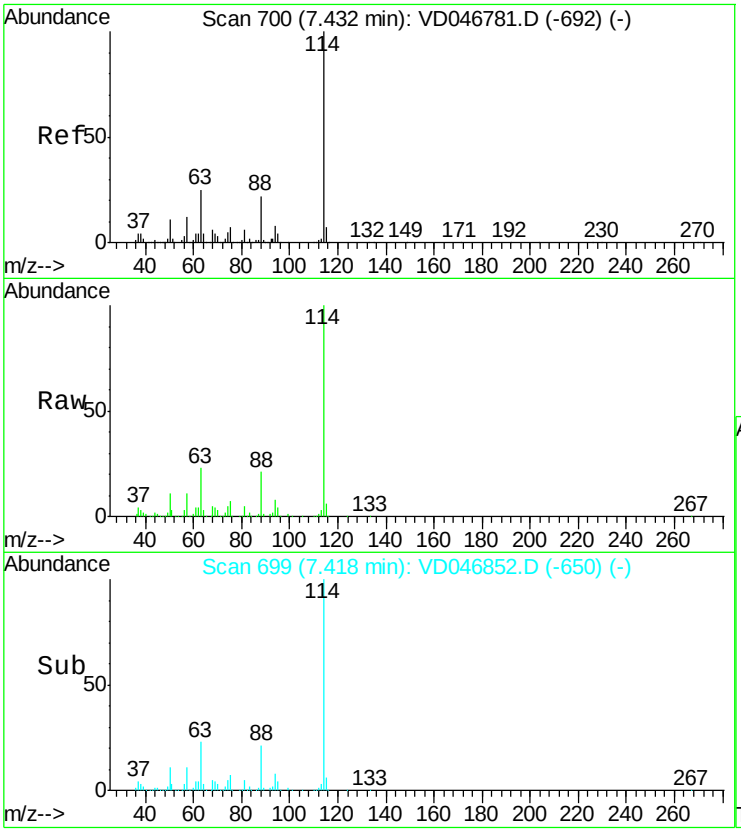


#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.70 min Scan# 626
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 65 Resp: 87449

Ion	Ratio	Lower	Upper
65	100		
67	48.4	0.0	105.4



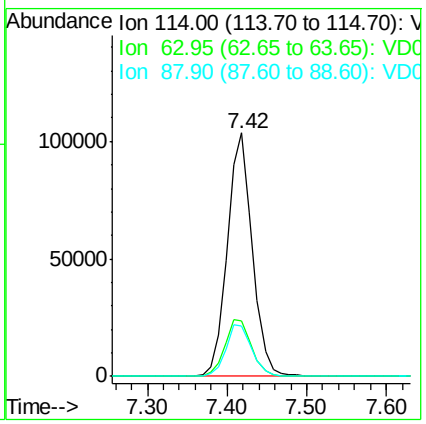


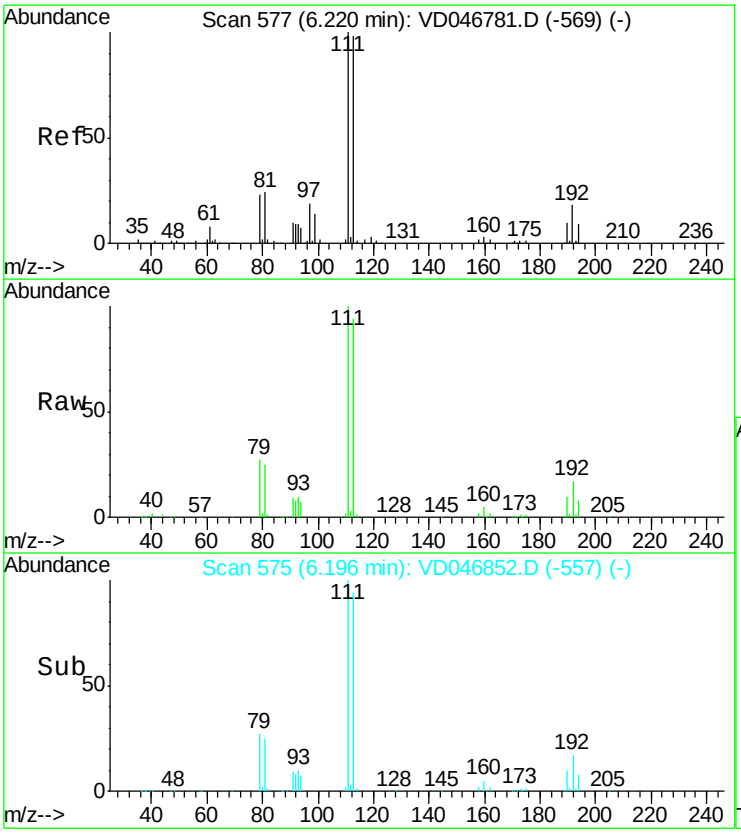
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 7.42 min Scan# 699
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion:114 Resp: 227388

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	49.8
88	20.8	0.0	43.6

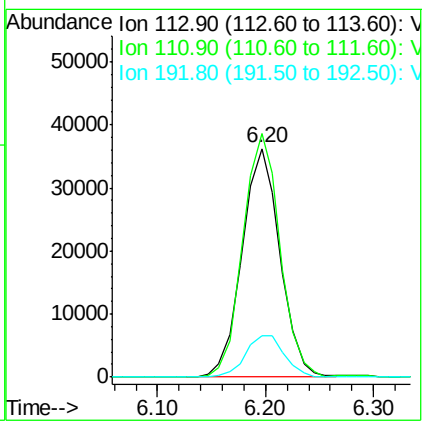


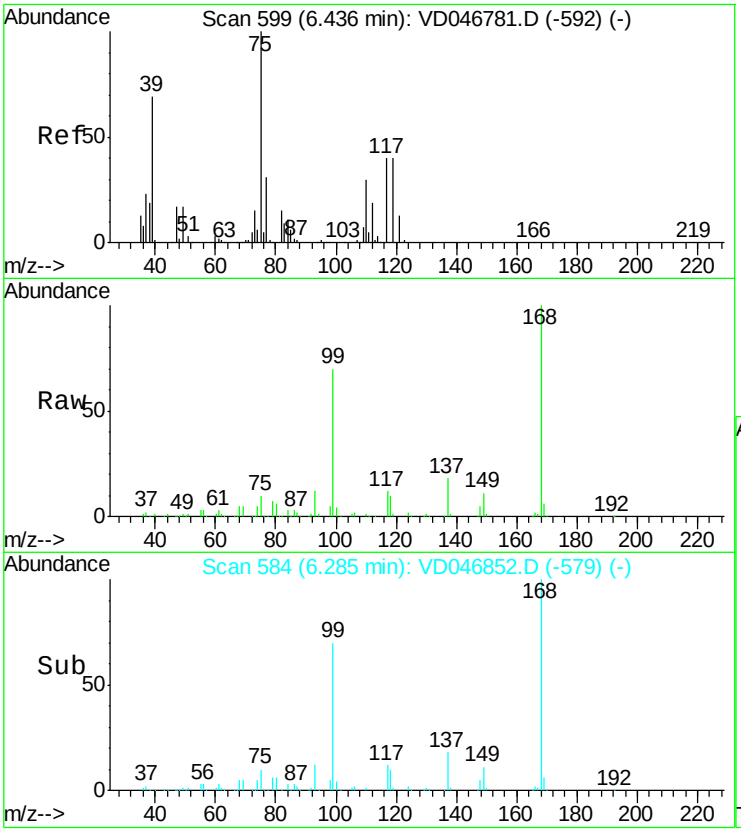


#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 6.20 min Scan# 575
Delta R.T. -0.02 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion:113 Resp: 88454

Ion	Ratio	Lower	Upper
113	100		
111	106.5	79.4	119.0
192	18.1	14.6	22.0



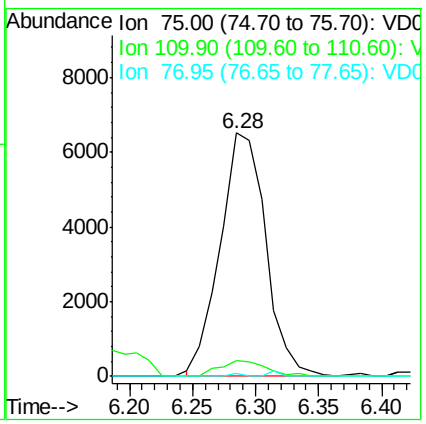


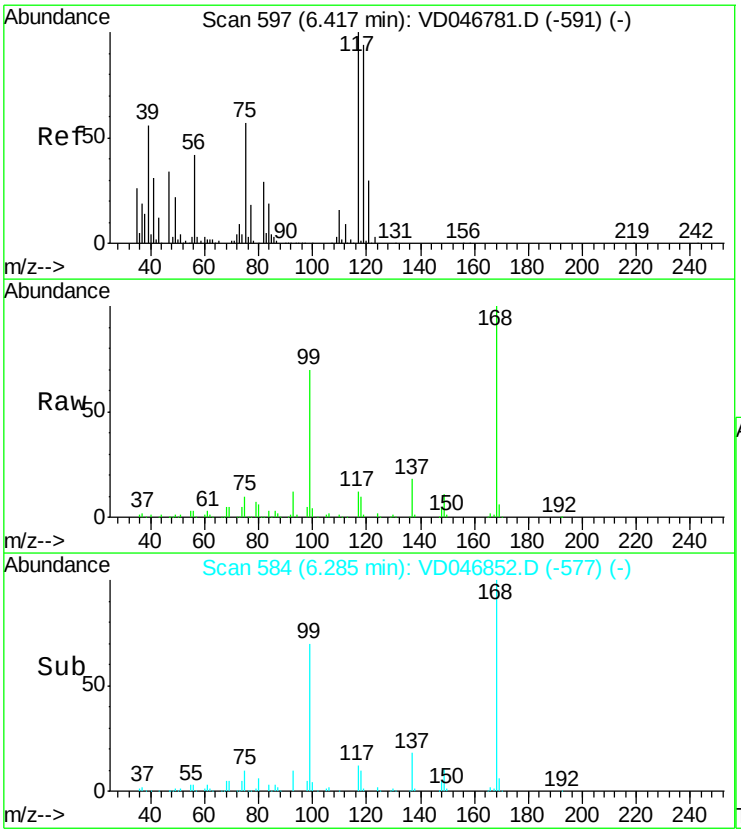
#36
1,1-Dichloropropene
Concen: 6.14 ug/l
RT: 6.28 min Scan# 584
Delta R.T. -0.15 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion: 75 Resp: 16304

Ion	Ratio	Lower	Upper
75	100		
110	6.4	13.7	41.0#
77	1.0	24.7	37.1#

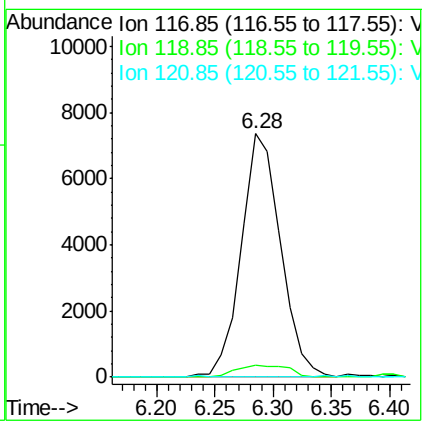


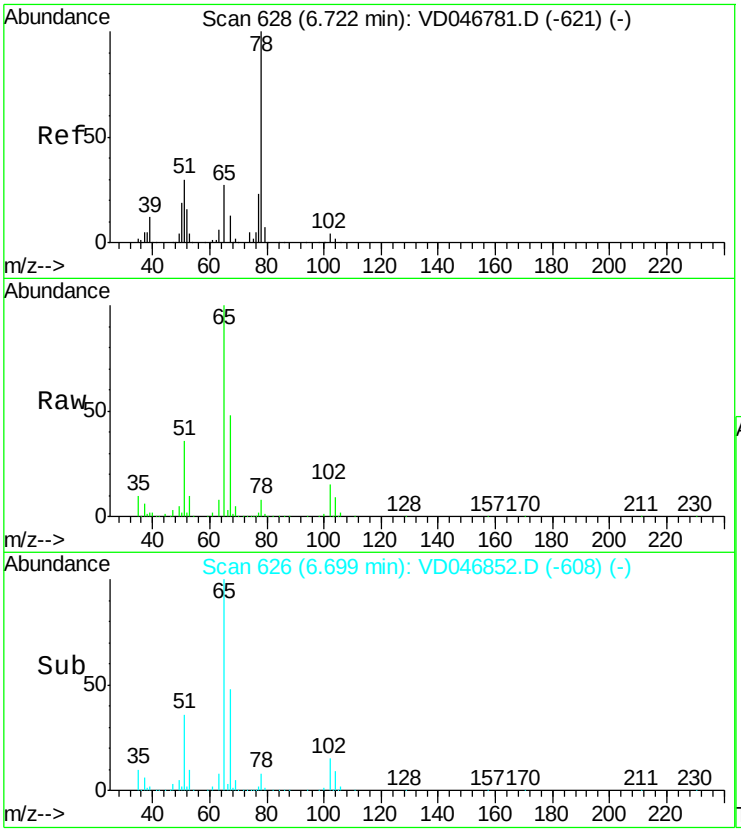


#38
Carbon Tetrachloride
Concen: 6.22 ug/l
RT: 6.28 min Scan# 584
Delta R.T. -0.13 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion:117 Resp: 17180

Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.2	114.4#
121	0.0	24.5	36.7#



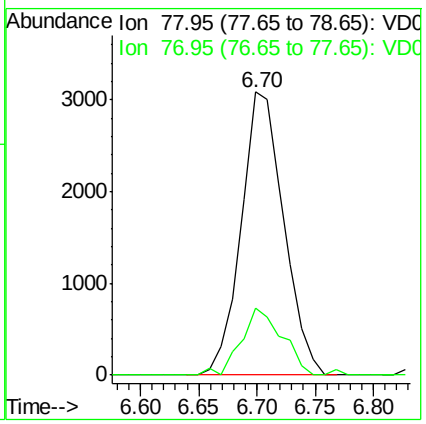


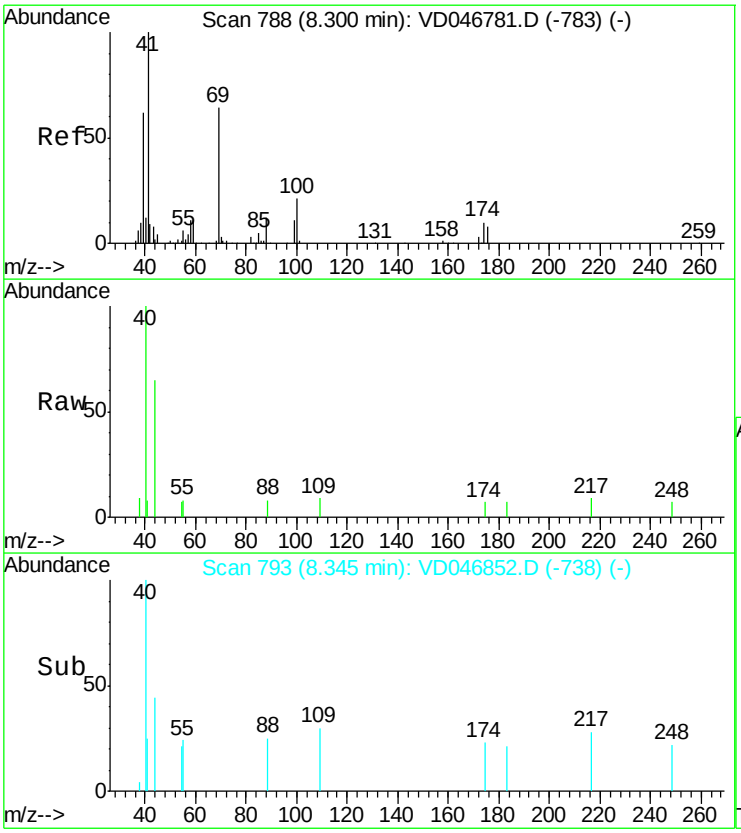
#40
Benzene
Concen: 1.15 ug/l
RT: 6.70 min Scan# 626
Delta R.T. -0.02 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion: 78 Resp: 7780

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.9	29.9

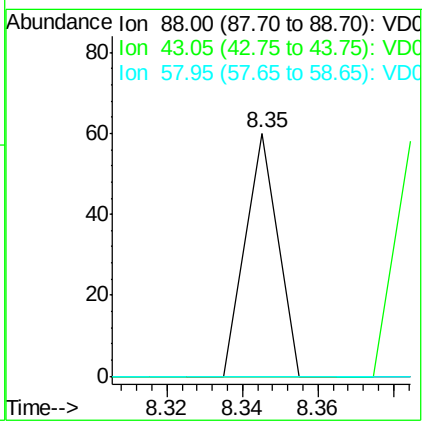


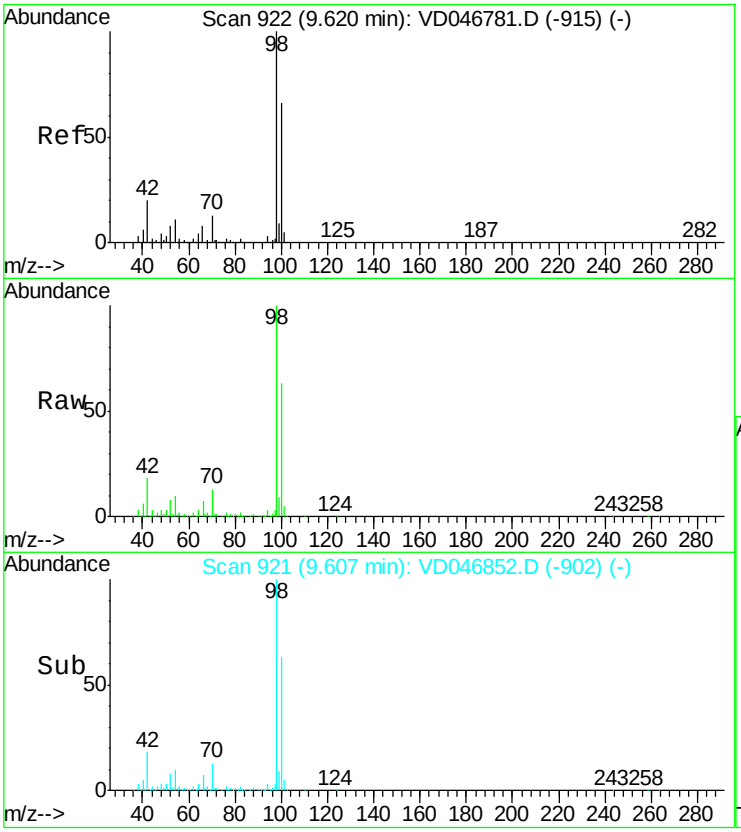


#49
1,4-Dioxane
Concen: 5.50 ug/l
RT: 8.35 min Scan# 793
Delta R.T. 0.05 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 88 Resp: 35

Ion	Ratio	Lower	Upper
88	100		
43	0.0	50.0	75.0#
58	0.0	48.3	72.5#



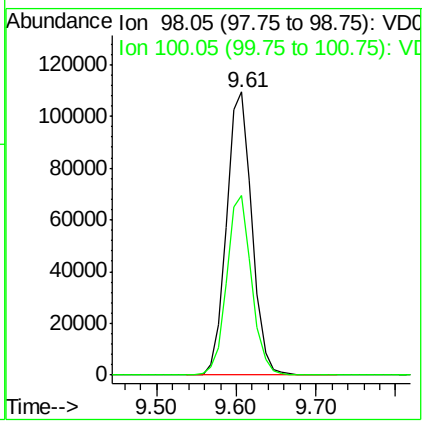


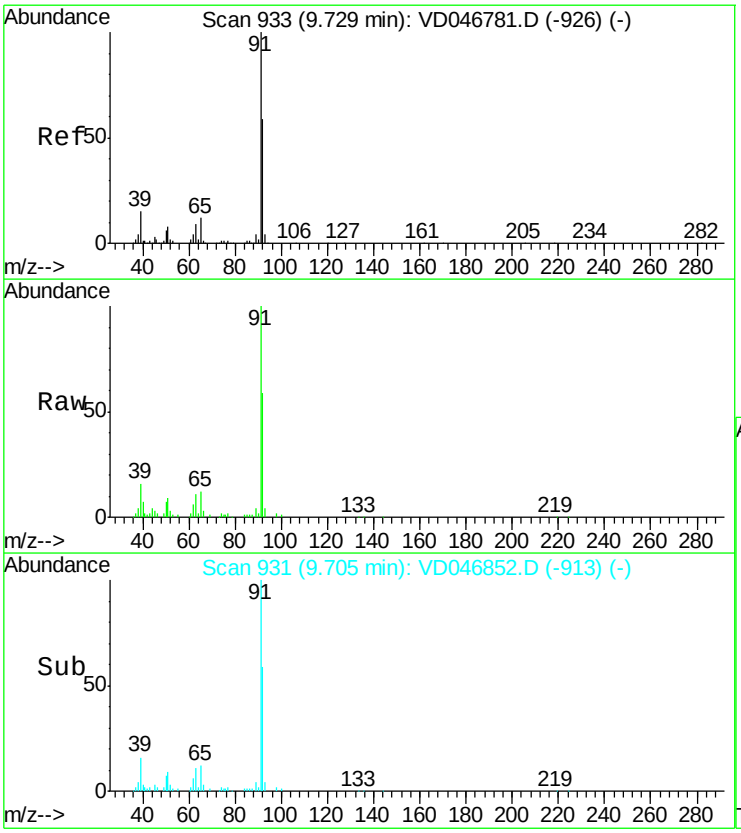
#50
Toluene-d8
Concen: 5.50 ug/l
RT: 9.61 min Scan# 921
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion: 98 Resp: 244758

Ion	Ratio	Lower	Upper
98	100		
100	63.4	49.9	74.9

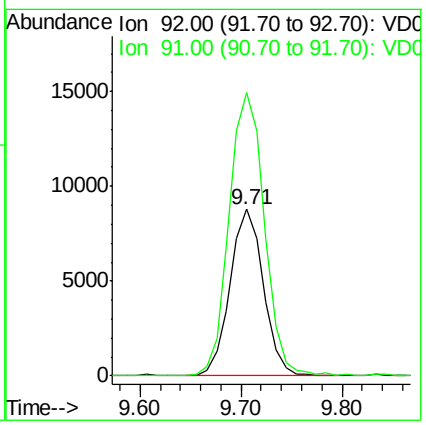


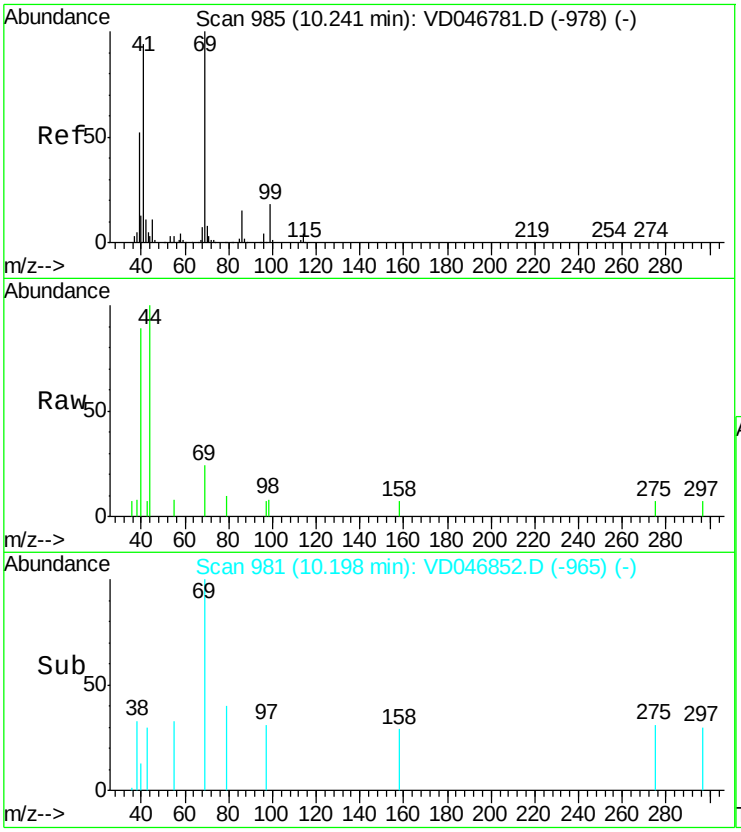


#52
Toluene
Concen: 4.84 ug/l
RT: 9.71 min Scan# 931
Delta R.T. -0.02 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 92 Resp: 20254

Ion	Ratio	Lower	Upper
92	100		
91	170.1	139.4	209.0



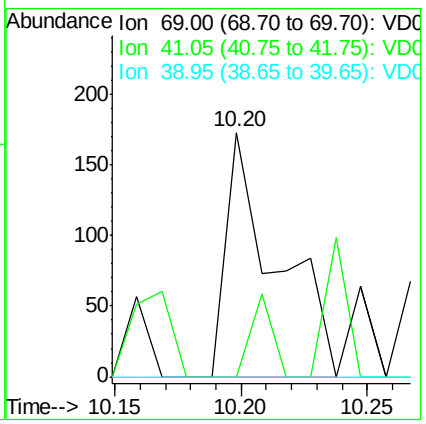


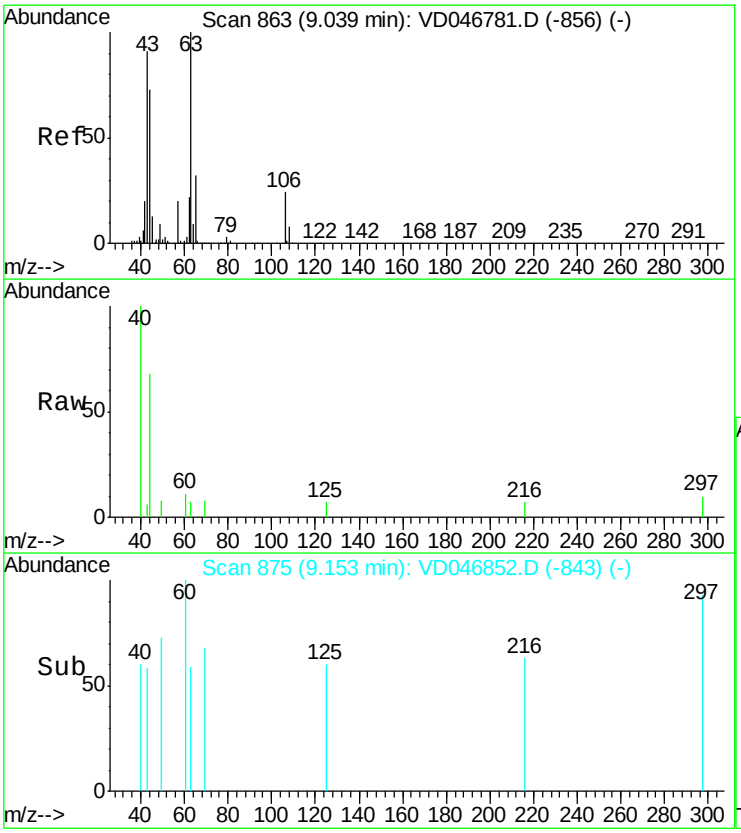
#56
Ethyl methacrylate
Concen: 4.07 ug/l
RT: 10.20 min Scan# 981
Delta R.T. -0.04 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion: 69 Resp: 240

Ion	Ratio	Lower	Upper
69	100		
41	0.0	75.4	113.0#
39	0.0	41.0	61.4#

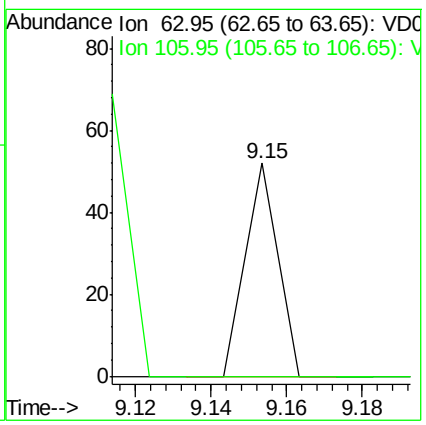


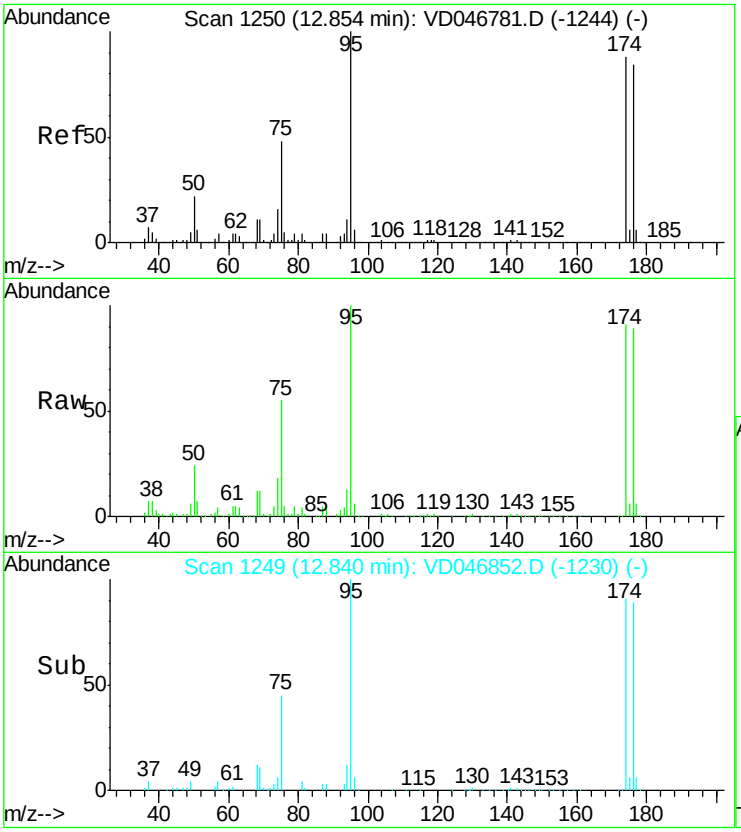


#58
2-Chloroethyl Vinyl ether
Concen: 6.38 ug/l
RT: 9.15 min Scan# 875
Delta R.T. 0.12 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 63 Resp: 31

Ion	Ratio	Lower	Upper
63	100		
106	0.0	17.8	26.8#



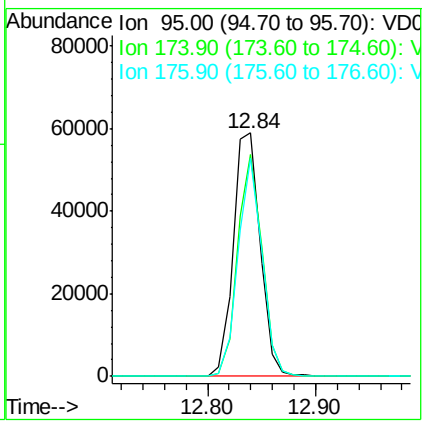


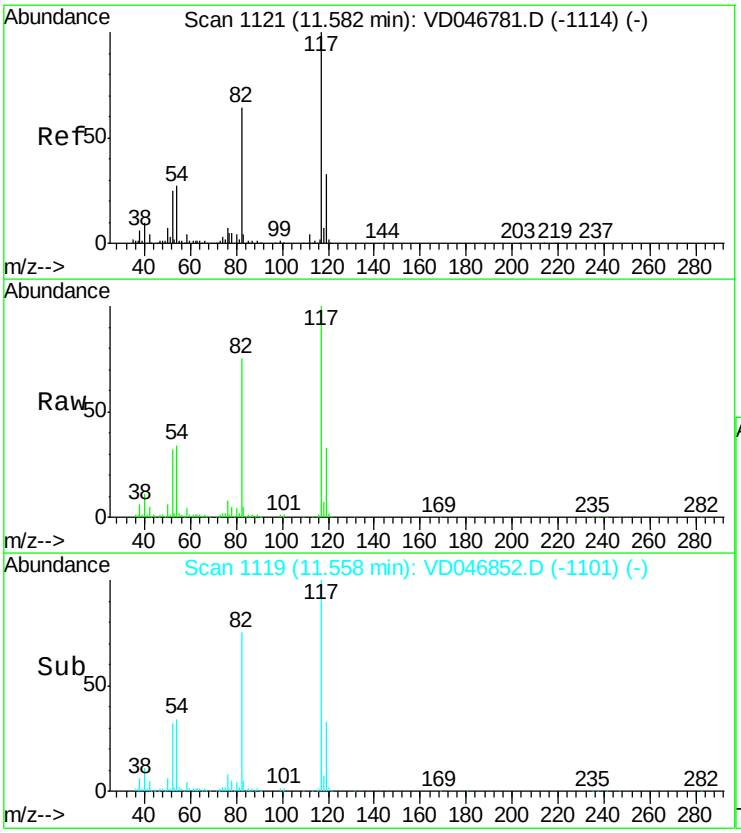
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.84 min Scan# 1249
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion: 95 Resp: 102515

Ion	Ratio	Lower	Upper
95	100		
174	91.2	0.0	149.8
176	89.4	0.0	143.4

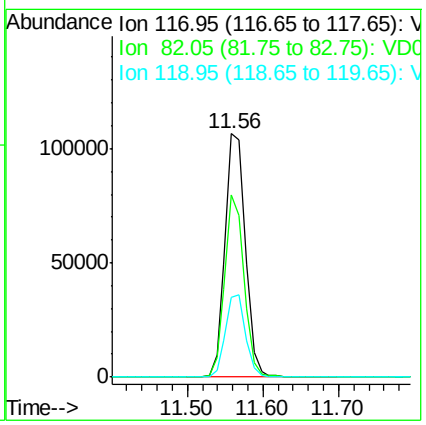


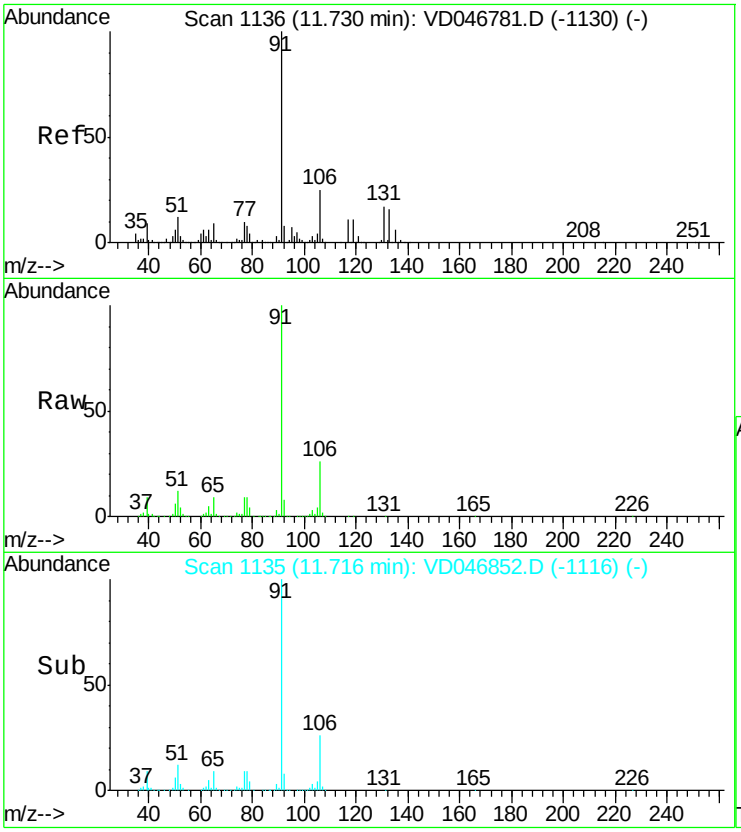


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.56 min Scan# 1119
Delta R.T. -0.02 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion:117 Resp: 199351

Ion	Ratio	Lower	Upper
117	100		
82	75.0	50.6	75.8
119	32.6	25.8	38.8



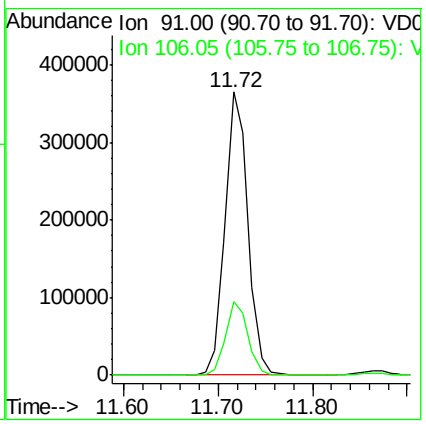


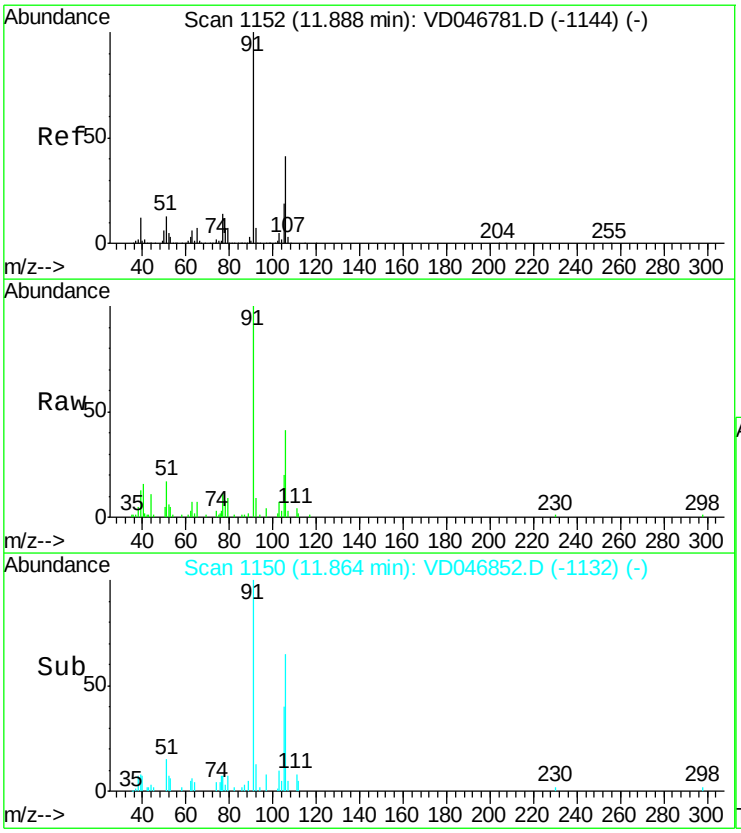
#67
Ethyl Benzene
Concen: 72.16 ug/l
RT: 11.72 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion: 91 Resp: 608296

Ion	Ratio	Lower	Upper
91	100		
106	25.9	20.2	30.2

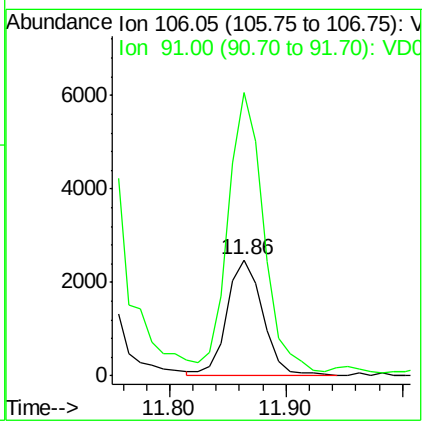


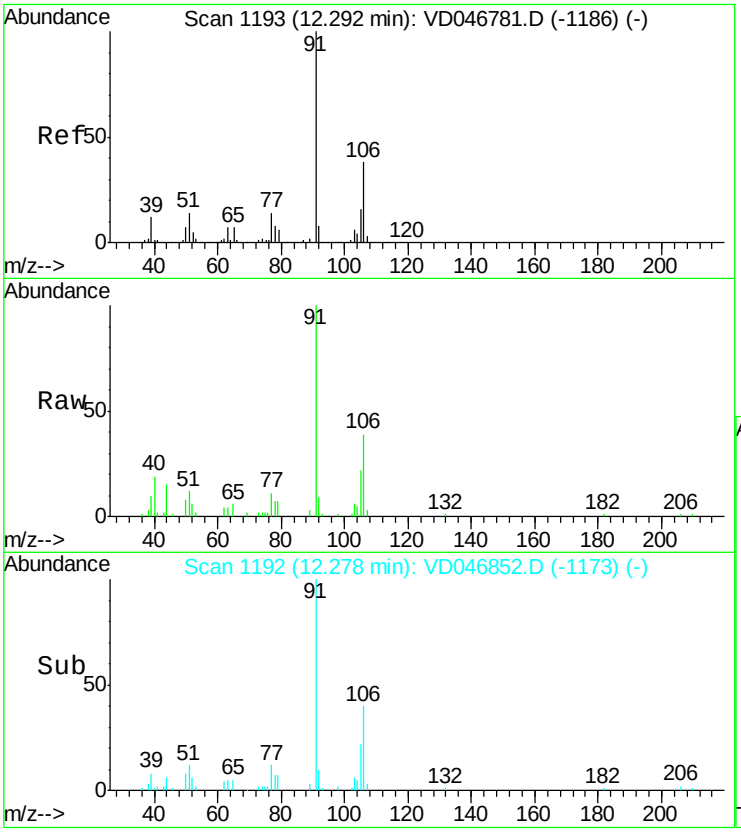


#68
m/p-Xylenes
Concen: 2.01 ug/l
RT: 11.86 min Scan# 1150
Delta R.T. -0.02 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion:106 Resp: 5341

Ion	Ratio	Lower	Upper
106	100		
91	243.9	187.9	281.9



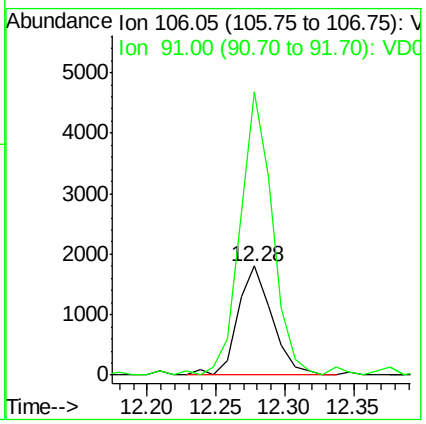


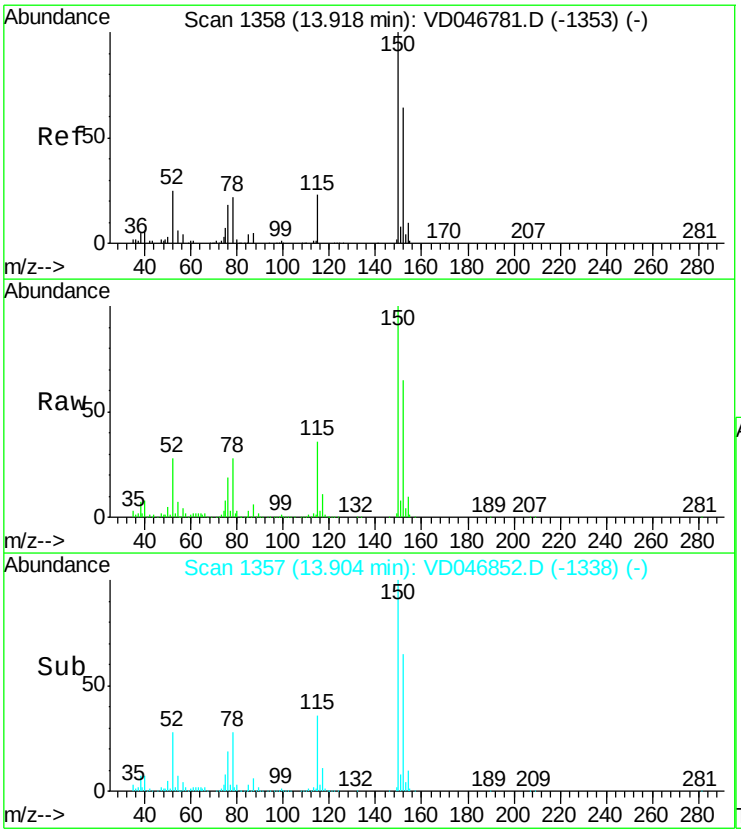
#69
o-Xylene
Concen: 1.31 ug/l
RT: 12.28 min Scan# 1192
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion:106 Resp: 3133

Ion	Ratio	Lower	Upper
106	100		
91	259.2	124.8	374.5

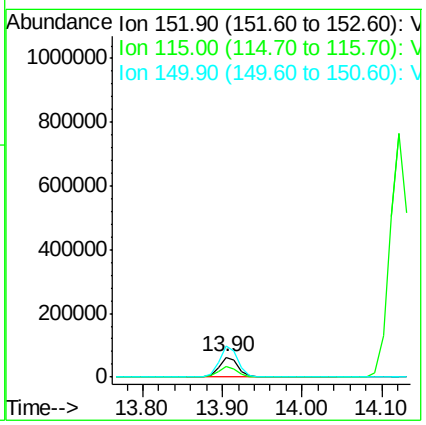


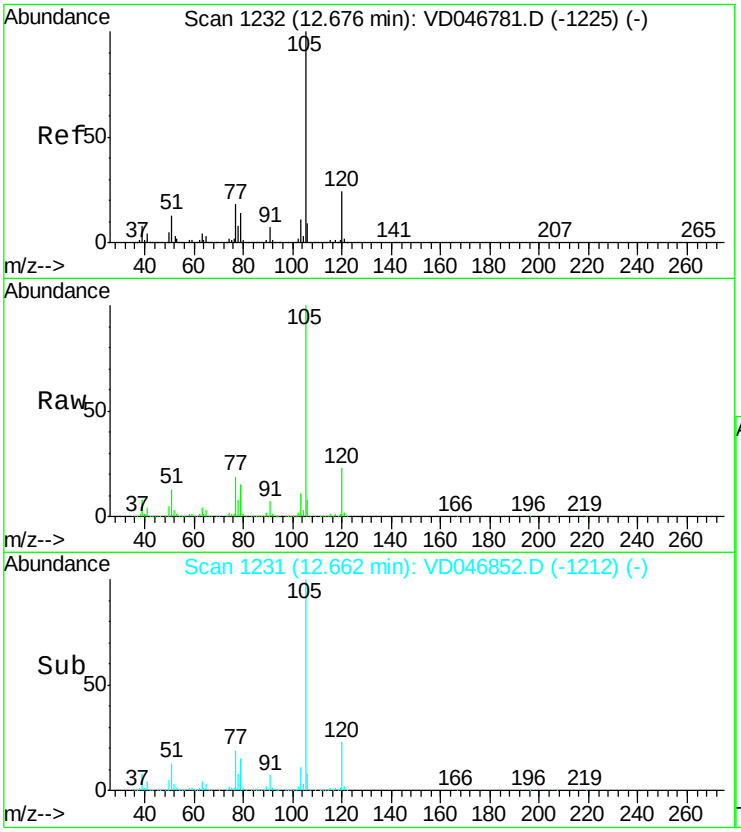


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.90 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion:152 Resp: 102487

Ion	Ratio	Lower	Upper
152	100		
115	55.7	26.2	78.6
150	155.0	0.0	311.8



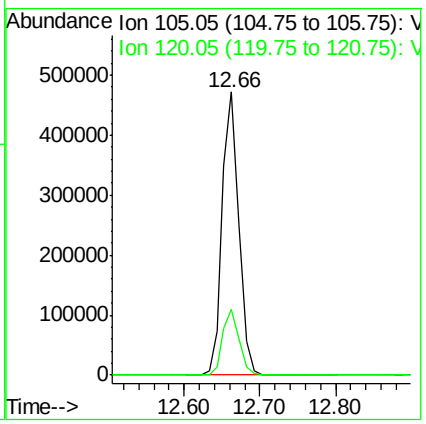


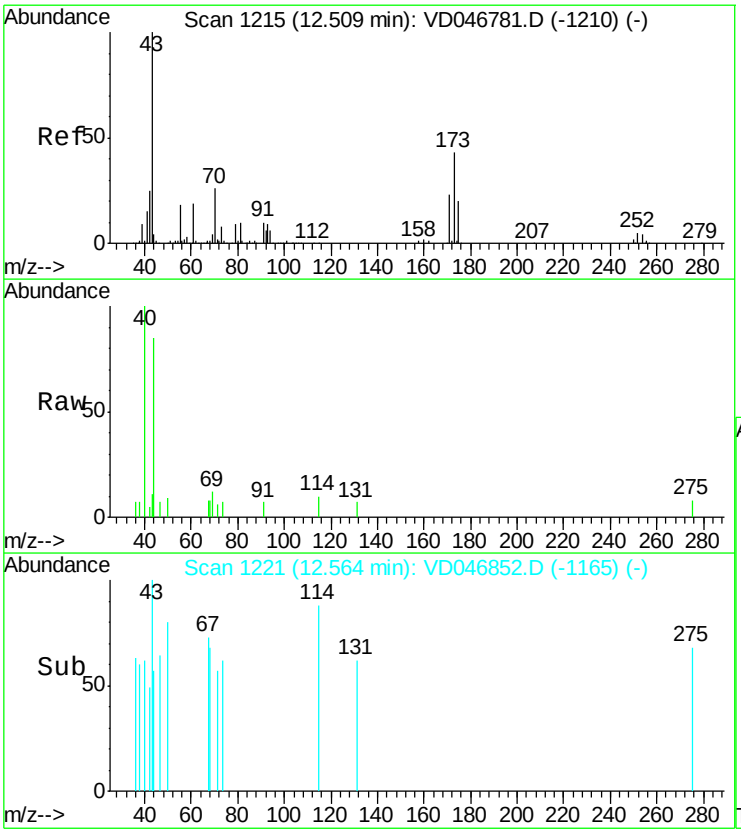
#73
Isopropylbenzene
Concen: 99.85 ug/l
RT: 12.66 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion:105 Resp: 721412

Ion	Ratio	Lower	Upper
105	100		
120	23.5	12.4	37.4

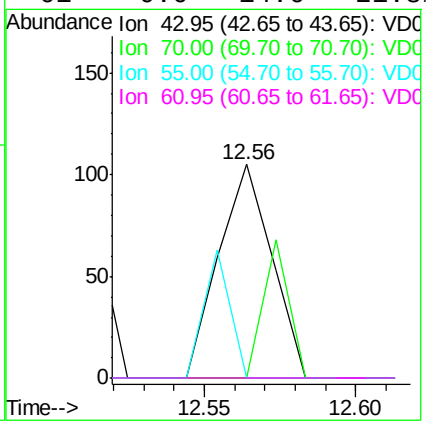


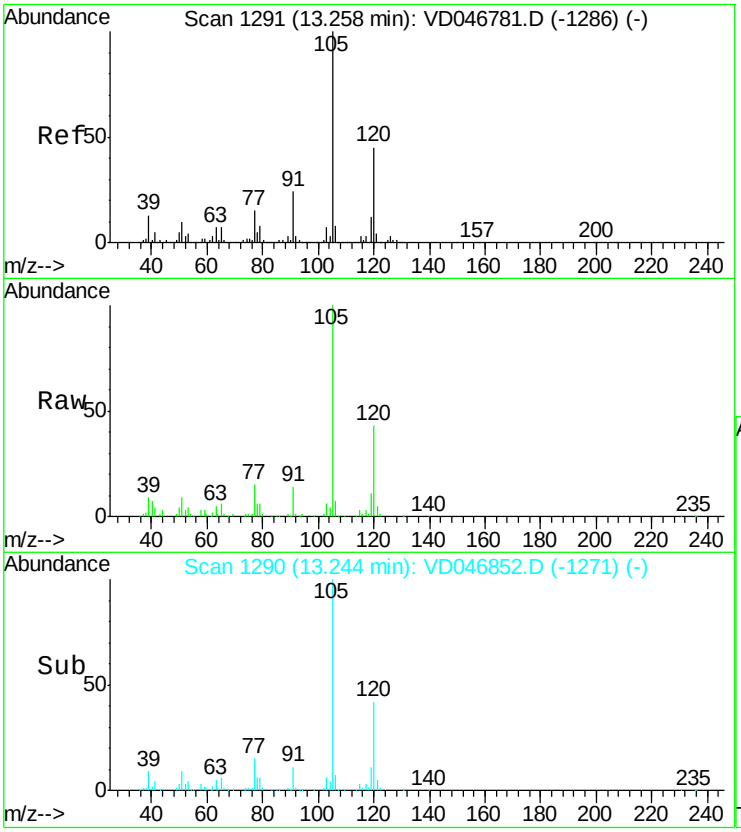


#74
N-amyl acetate
Concen: 4.78 ug/l
RT: 12.56 min Scan# 1221
Delta R.T. 0.06 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 43 Resp: 128

Ion	Ratio	Lower	Upper
43	100		
70	0.0	22.1	33.1#
55	0.0	14.5	21.7#
61	0.0	14.6	21.8#



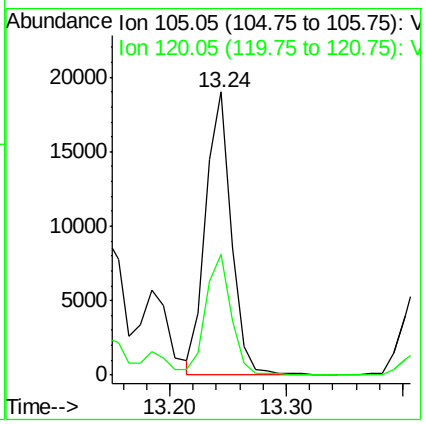


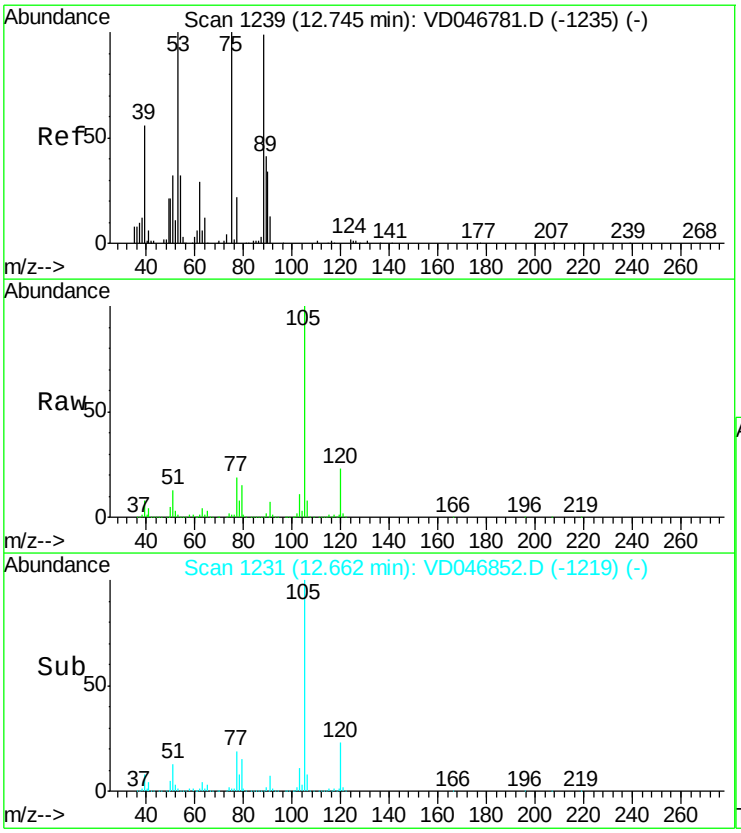
#80
1,3,5-Trimethylbenzene
Concen: 5.05 ug/l
RT: 13.24 min Scan# 1290
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion:105 Resp: 29069

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.3	66.8

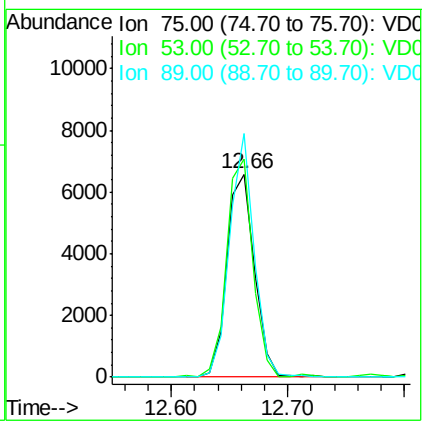


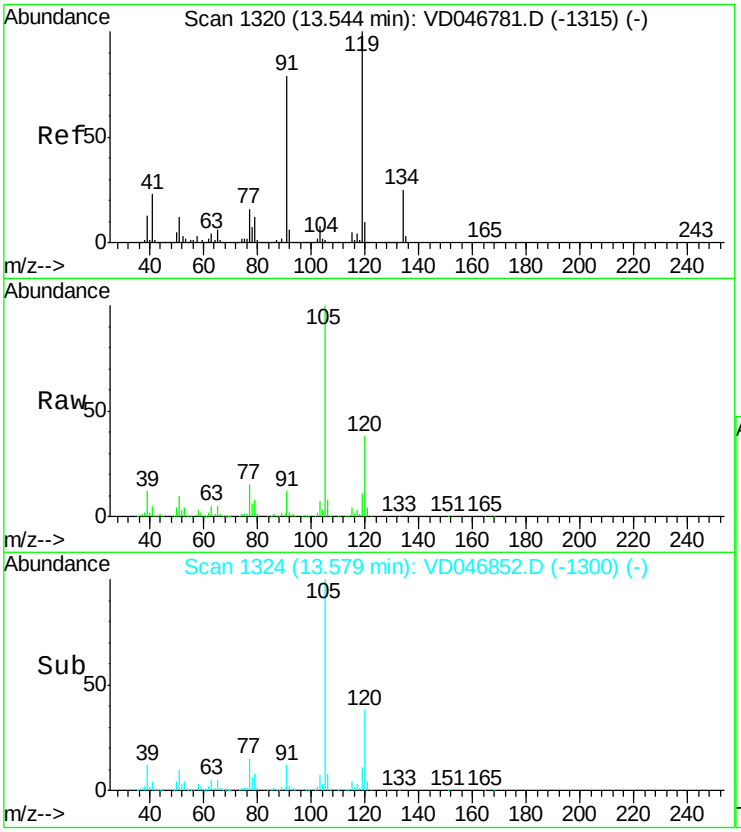


#81
trans-1,4-Dichloro-2-butene
Concen: 32.85 ug/l
RT: 12.66 min Scan# 1231
Delta R.T. -0.08 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion: 75 Resp: 10797

Ion	Ratio	Lower	Upper
75	100		
53	107.3	82.3	123.5
89	120.1	36.6	54.8#



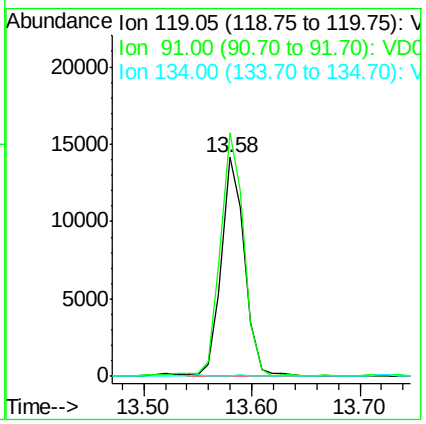


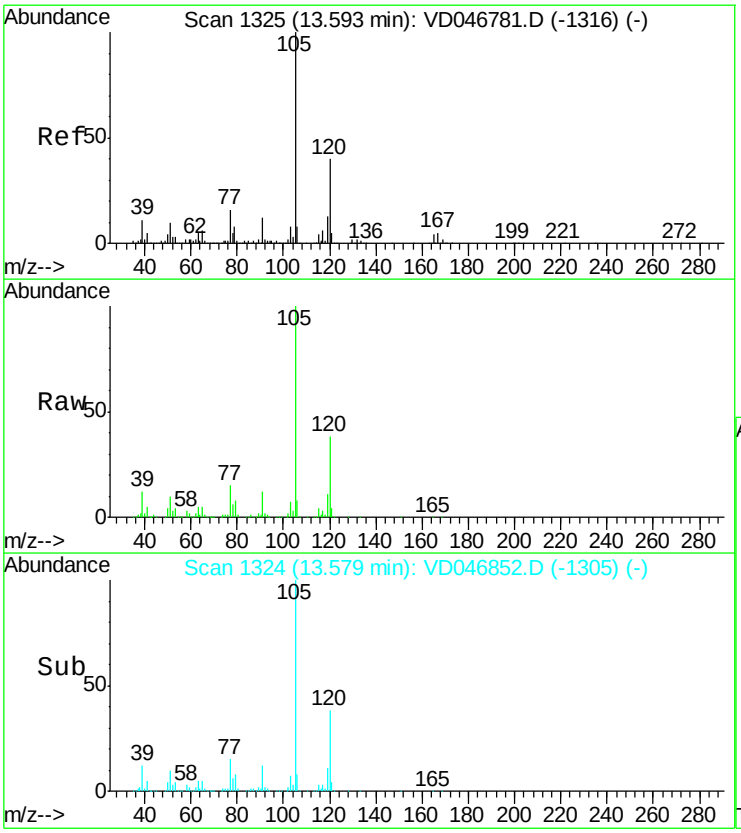
#83
tert-Butylbenzene
Concen: 4.07 ug/l
RT: 13.58 min Scan# 1324
Delta R.T. 0.04 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion:119 Resp: 21126

Ion	Ratio	Lower	Upper
119	100		
91	111.1	41.6	124.9
134	0.0	12.4	37.4#

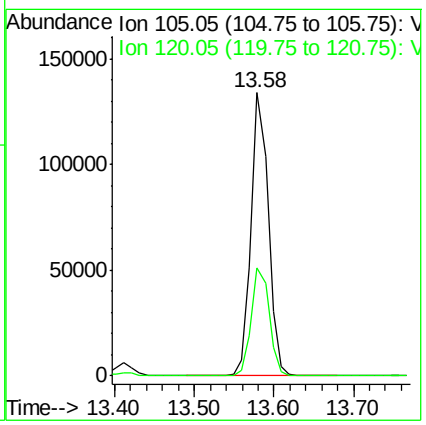


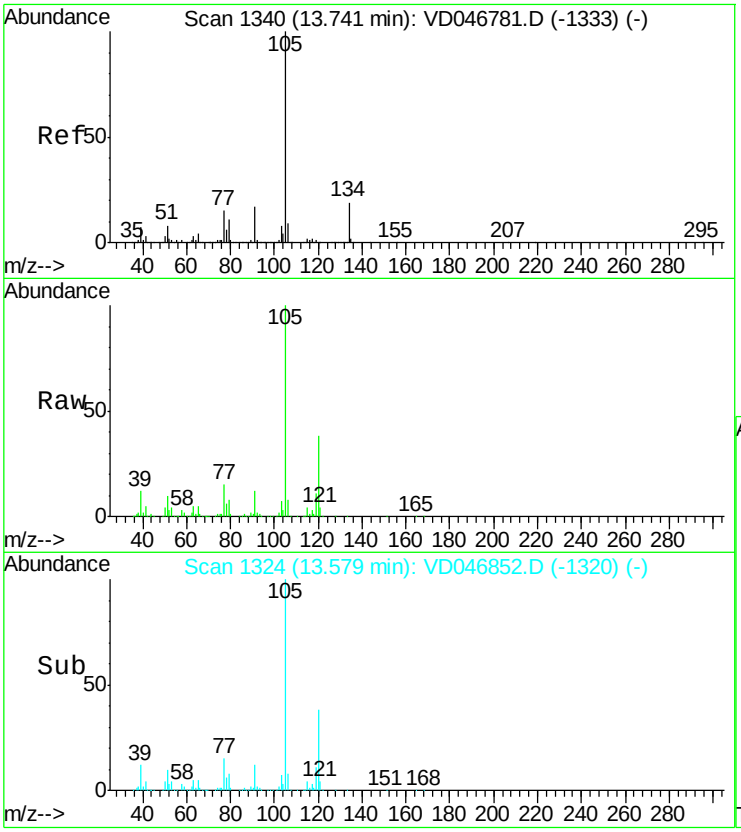


#84
1,2,4-Trimethylbenzene
Concen: 34.14 ug/l
RT: 13.58 min Scan# 1324
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion:105 Resp: 197840

Ion	Ratio	Lower	Upper
105	100		
120	38.1	21.1	63.1



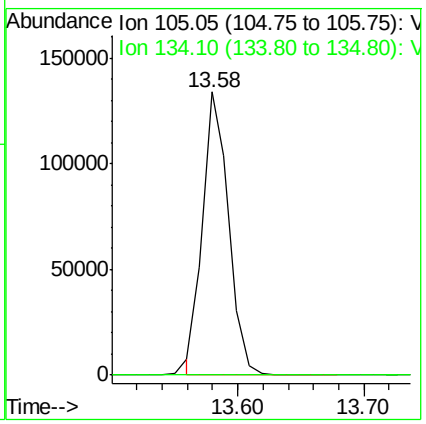


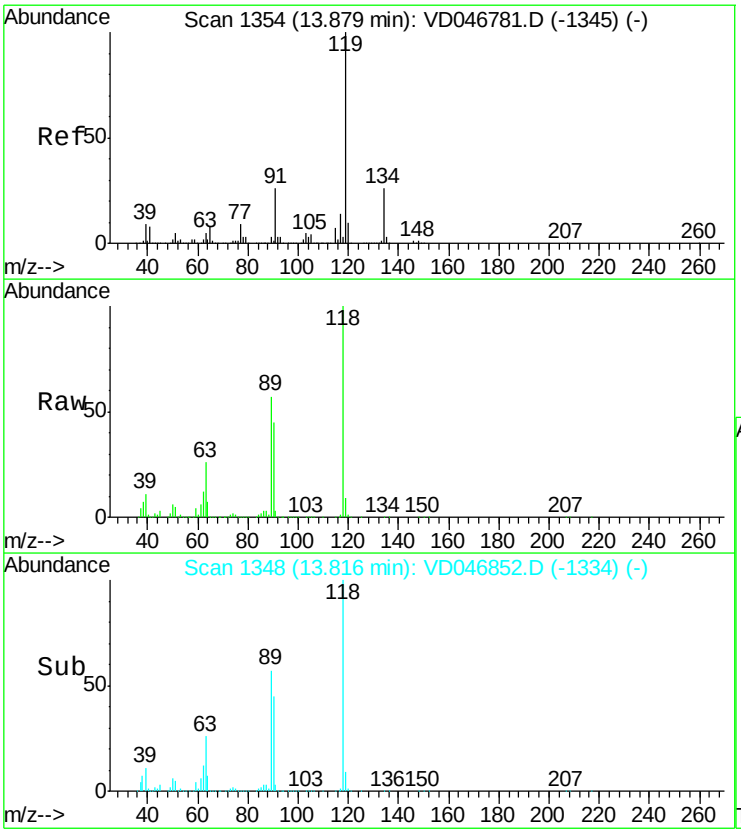
#85
sec-Butylbenzene
Concen: 25.18 ug/l
RT: 13.58 min Scan# 1324
Delta R.T. -0.16 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion:105 Resp: 192095

Ion	Ratio	Lower	Upper
105	100		
134	0.0	10.1	30.3#

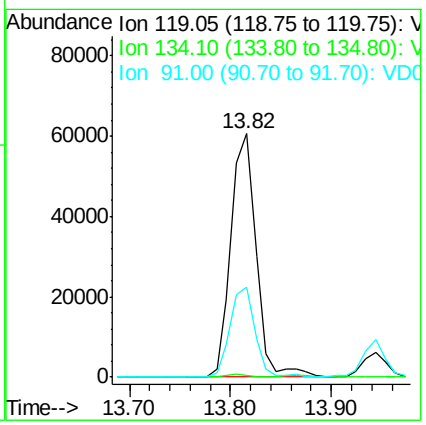


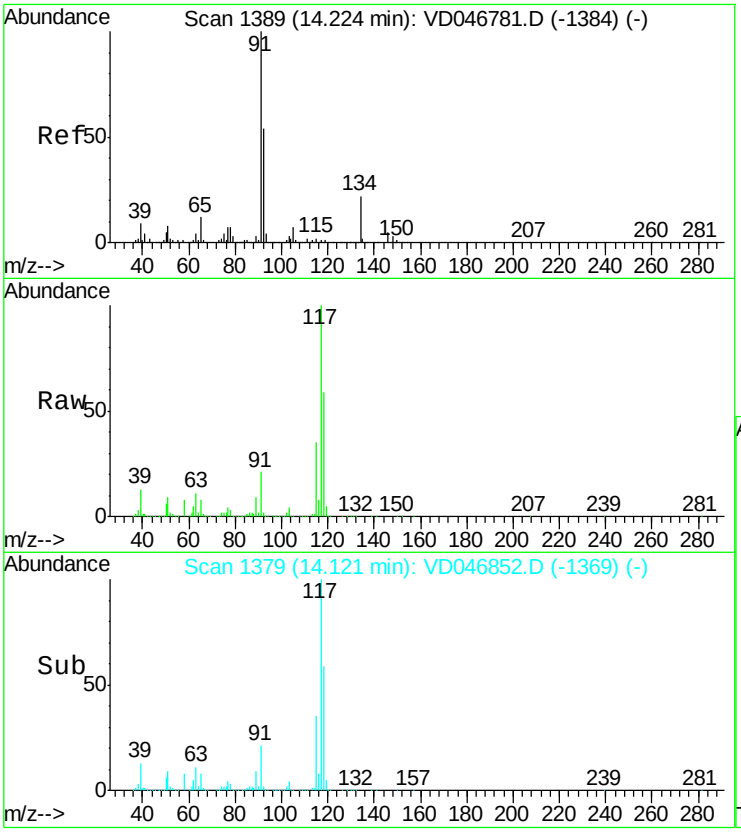


#86
p-Isopropyltoluene
Concen: 17.57 ug/l
RT: 13.82 min Scan# 1348
Delta R.T. -0.06 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion:119 Resp: 105379

Ion	Ratio	Lower	Upper
119	100		
134	0.6	13.0	38.9#
91	37.0	13.8	41.3



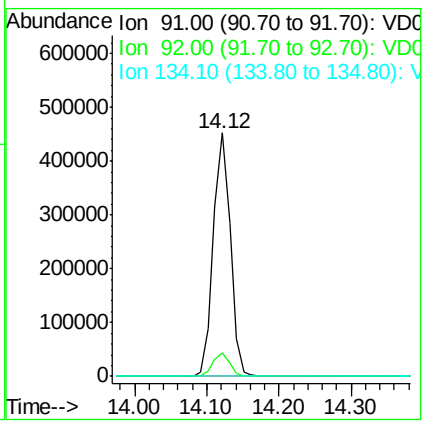


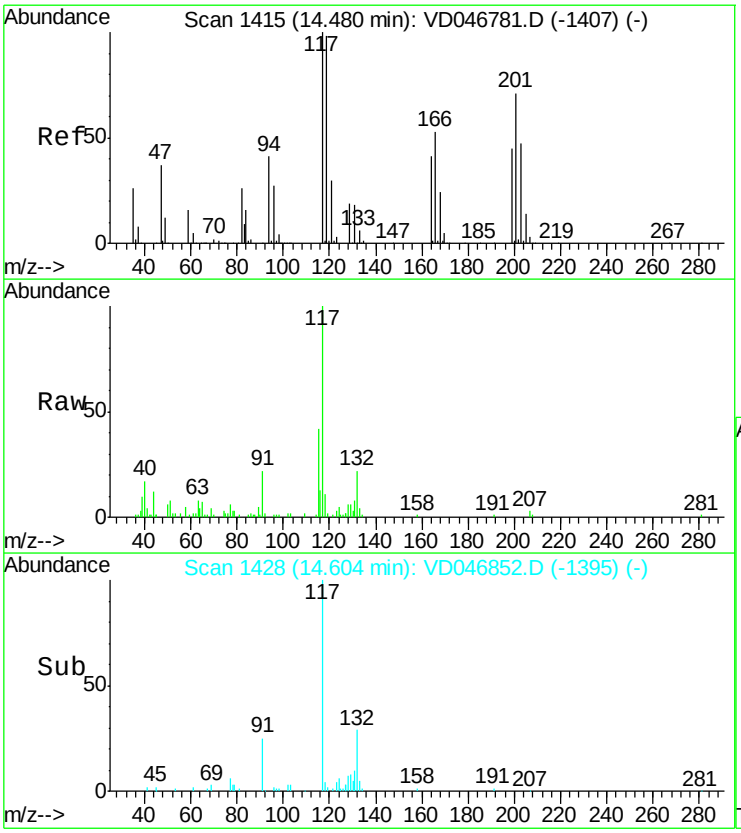
#89
n-Butylbenzene
Concen: 107.56 ug/l
RT: 14.12 min Scan# 1379
Delta R.T. -0.10 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument : MSVOA_D
ClientSampleId : MGP202-30-32

Tgt Ion: 91 Resp: 728224

Ion	Ratio	Lower	Upper
91	100		
92	9.4	27.1	81.2#
134	0.0	9.6	28.6#

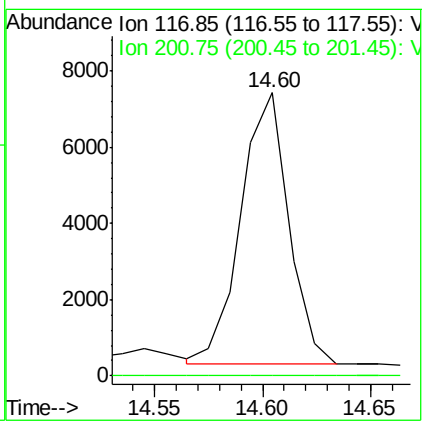


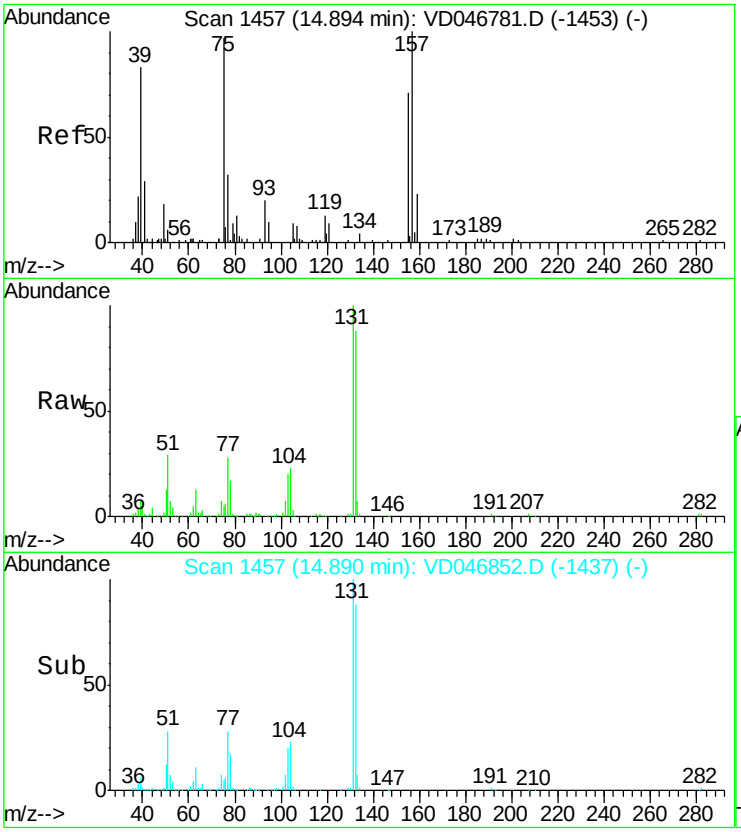


#90
Hexachloroethane
Concen: 7.86 ug/l
RT: 14.60 min Scan# 1428
Delta R.T. 0.12 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion:117 Resp: 10924

Ion	Ratio	Lower	Upper
117	100		
201	0.0	41.0	123.0#



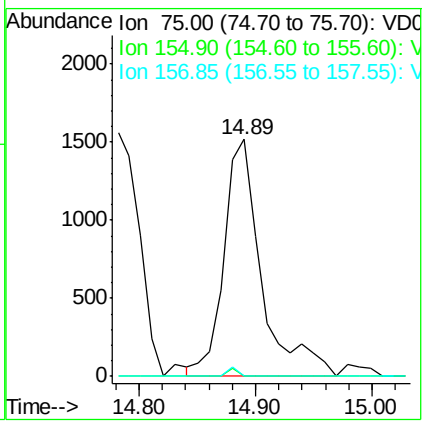


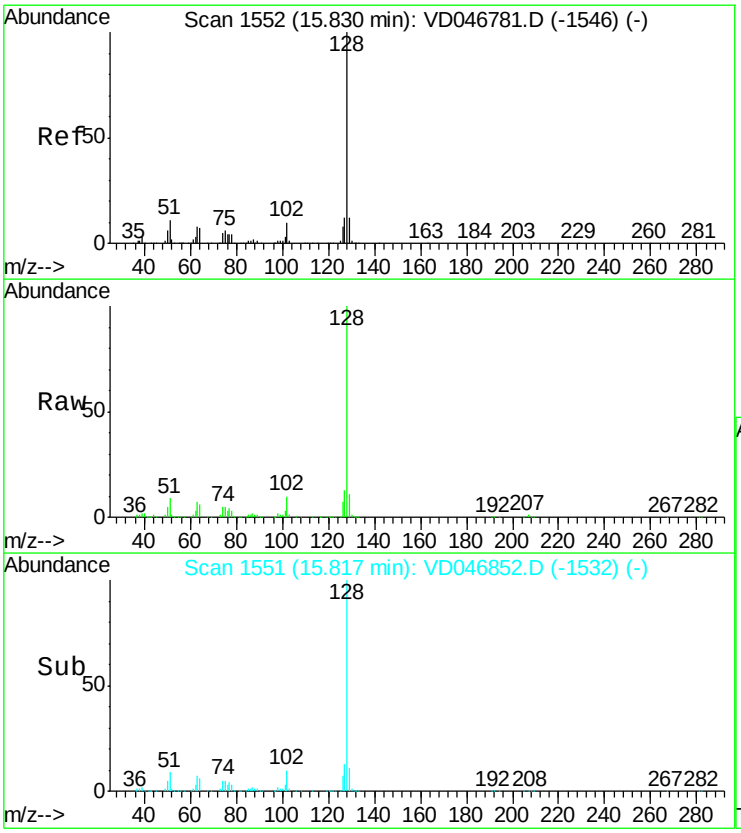
#92
1,2-Dibromo-3-Chloropropane
Concen: 22.63 ug/l
RT: 14.89 min Scan# 1457
Delta R.T. -0.00 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Instrument :
MSVOA_D
ClientSampleId :
MGP202-30-32

Tgt Ion: 75 Resp: 3391

Ion	Ratio	Lower	Upper
75	100		
155	0.0	41.4	124.4#
157	0.0	65.0	195.1#





#95
Naphthalene
Concen: 72.38 ug/l
RT: 15.82 min Scan# 1551
Delta R.T. -0.01 min
Lab File: VD046852.D
Acq: 23 Sep 2015 13:51

Tgt Ion:128 Resp: 159510

Ion	Ratio	Lower	Upper
128	100		
127	12.6	9.8	14.6
129	10.7	8.6	12.8