

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD040919\
 Data File : VD061692.D
 Acq On : 9 Apr 2019 23:16
 Operator : VA/AP
 Sample : K2316-09
 Misc : 5.07g/5ml/MSVOA_D/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190177-AMND-COMP-CS-4

Quant Time: Apr 10 04:08:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	472779	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.25	114	754170	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.38	117	538808	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	138752	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	223162	62.27	ug/l	0.03
Spiked Amount			Recovery	=	124.54%	
35) Dibromofluoromethane	6.96	113	1130	0.22	ug/l	0.04
Spiked Amount			Recovery	=	0.44%	
50) Toluene-d8	10.43	98	661298	50.38	ug/l	0.03
Spiked Amount			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	13.56	95	183852	37.85	ug/l	0.01
Spiked Amount			Recovery	=	75.70%	

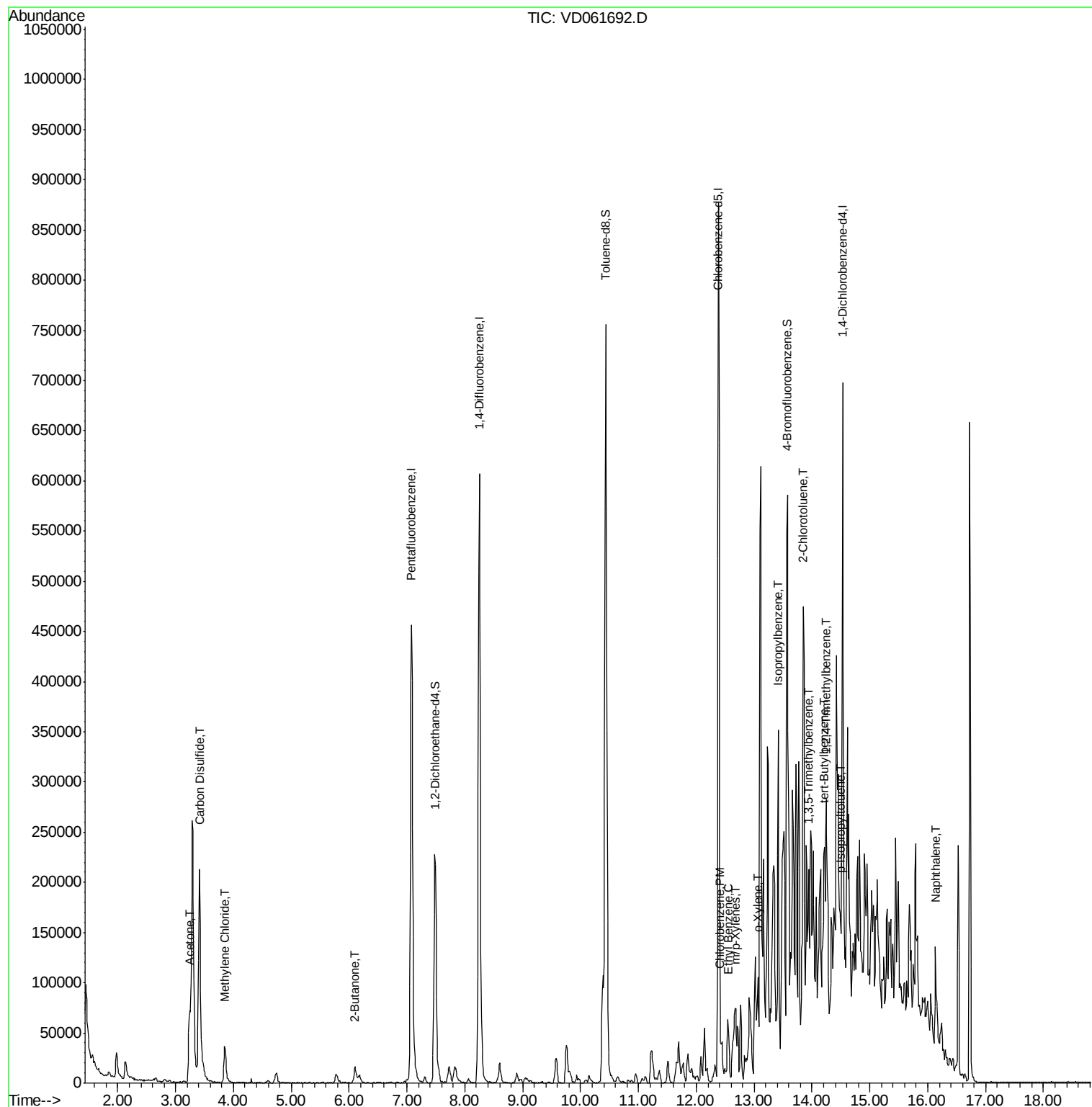
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.25	43	148184	138.326	ug/l	99
17) Carbon Disulfide	3.41	76	438165	27.360	ug/l	99
20) Methylene Chloride	3.85	84	27100	4.458	ug/l	97
25) 2-Butanone	6.10	43	35870	29.045	ug/l	96
65) Chlorobenzene	12.42	112	12386	1.159	ug/l	94
67) Ethyl Benzene	12.54	91	27943	1.717	ug/l	96
68) m/p-Xylenes	12.68	106	14268	2.275	ug/l	89
69) o-Xylene	13.06	106	14210	2.347	ug/l	87
73) Isopropylbenzene	13.42	105	156498	16.928	ug/l	99
79) 2-Chlorotoluene	13.85	91	186755	29.530	ug/l	94
80) 1,3,5-Trimethylbenzene	13.95	105	24054	3.278	ug/l	92
83) tert-Butylbenzene	14.20	119	17276	1.953	ug/l	94
84) 1,2,4-Trimethylbenzene	14.25	105	49980	6.749	ug/l	97
86) p-Isopropyltoluene	14.50	119	21151	2.551	ug/l	90
95) Naphthalene	16.13	128	50838	16.568	ug/l	99

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 574

Delta R.T. 0.04 min

Lab File: VD061692.D

Acq: 9 Apr 2019 23:16

Instrument :

MSVOA_D

ClientSampleId :

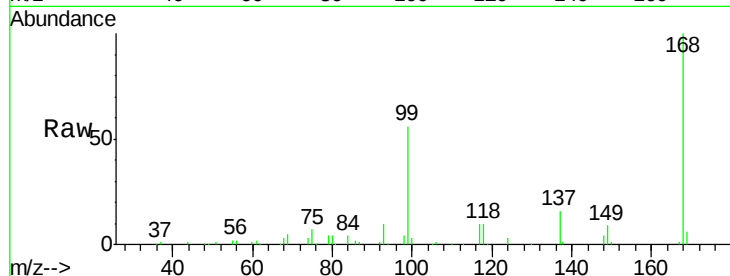
20190177-AMND-COMP-CS-4

Tgt Ion:168 Resp: 472779

Ion Ratio Lower Upper

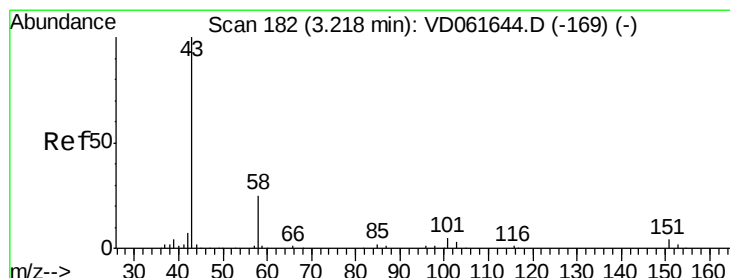
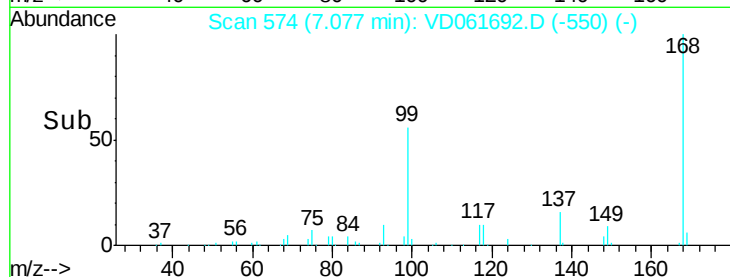
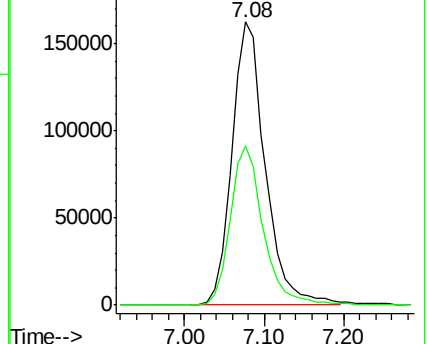
168 100

99 56.1 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 138.326 ug/l

RT: 3.25 min Scan# 185

Delta R.T. 0.03 min

Lab File: VD061692.D

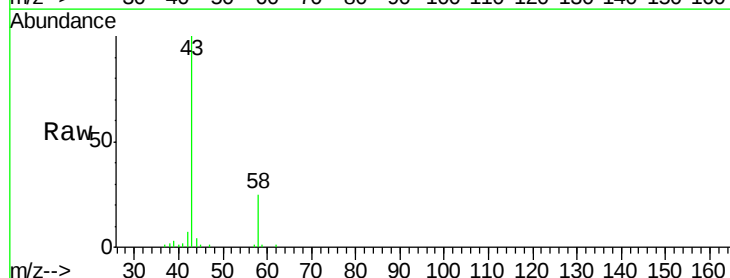
Acq: 9 Apr 2019 23:16

Tgt Ion: 43 Resp: 148184

Ion Ratio Lower Upper

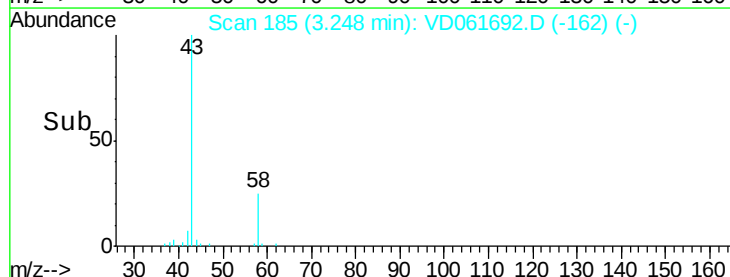
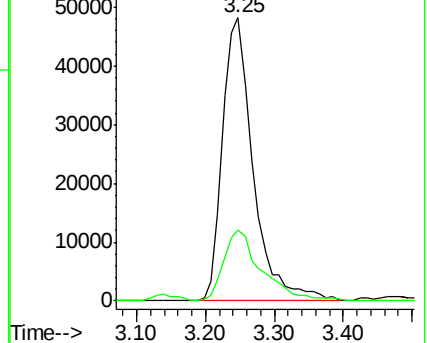
43 100

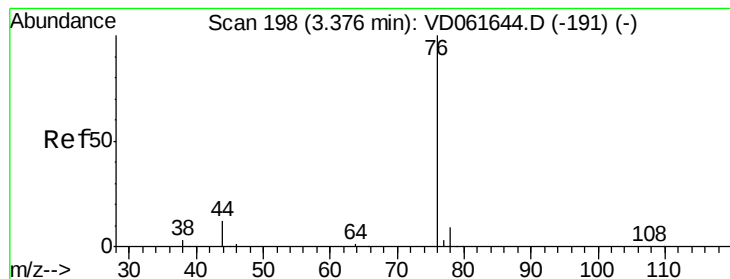
58 25.2 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 27.360 ug/l

RT: 3.41 min Scan# 202

Delta R.T. 0.04 min

Lab File: VD061692.D

Acq: 9 Apr 2019 23:16

Instrument :

MSVOA_D

ClientSampleId :

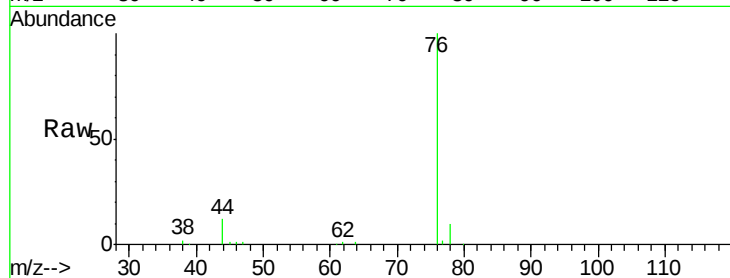
20190177-AMND-COMP-CS-4

Tgt Ion: 76 Resp: 438165

Ion Ratio Lower Upper

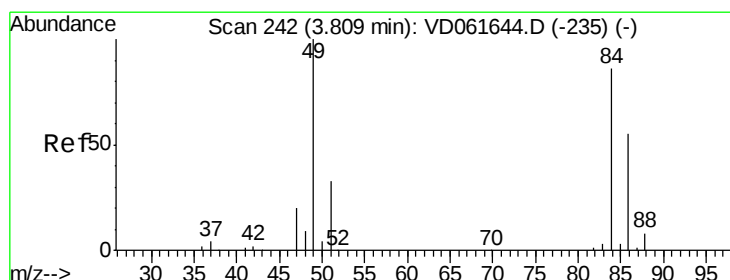
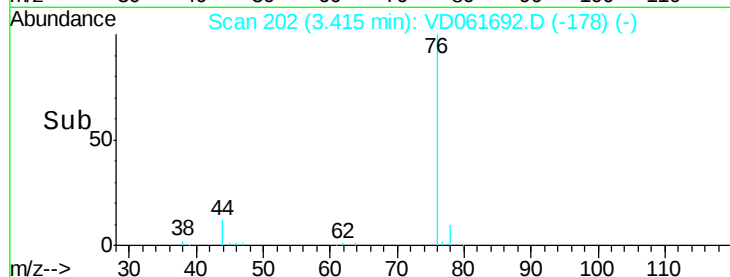
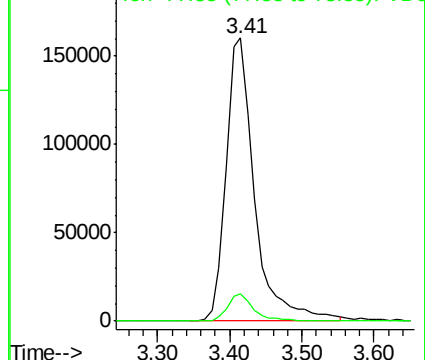
76 100

78 9.8 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: 4.458 ug/l

RT: 3.85 min Scan# 246

Delta R.T. 0.04 min

Lab File: VD061692.D

Acq: 9 Apr 2019 23:16

Tgt Ion: 84 Resp: 27100

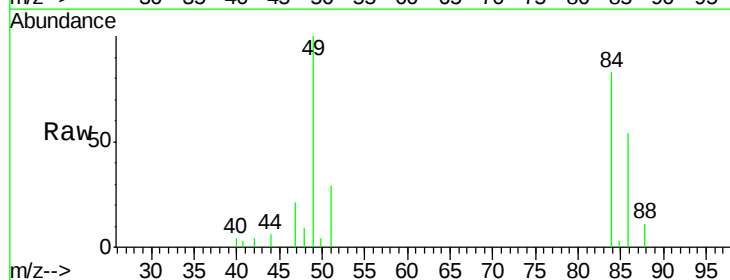
Ion Ratio Lower Upper

84 100

49 120.2 93.0 139.4

51 34.9 30.4 45.6

86 64.5 51.0 76.4

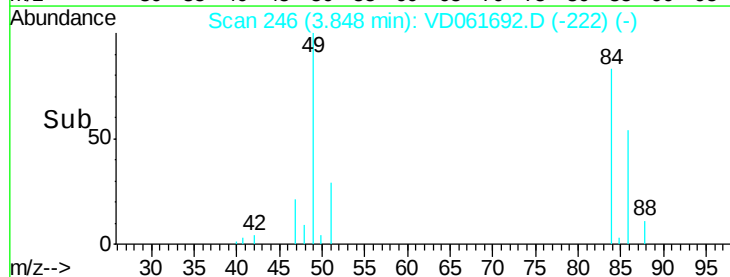
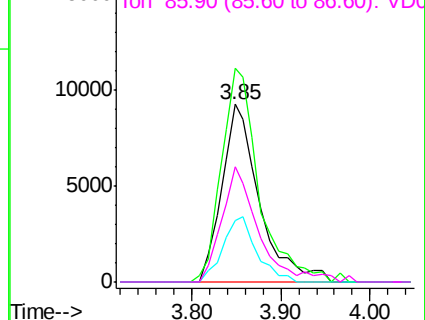


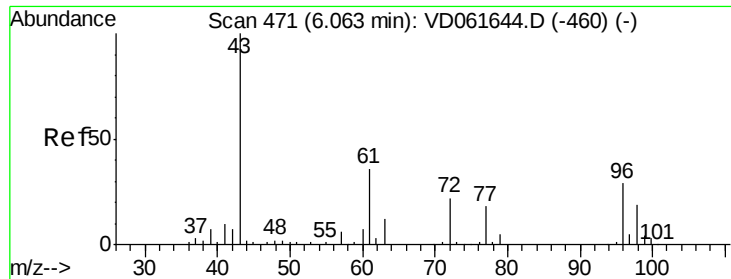
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 29.045 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.04 min

Lab File: VD061692.D

Acq: 9 Apr 2019 23:16

Instrument :

MSVOA_D

ClientSampleId :

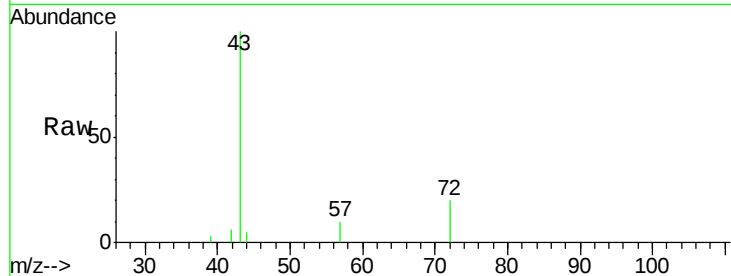
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Tgt Ion: 43 Resp: 35870

Ion Ratio Lower Upper

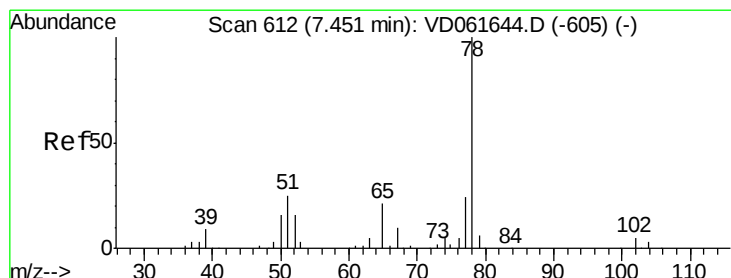
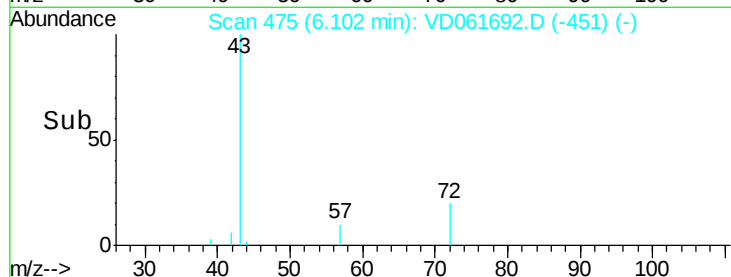
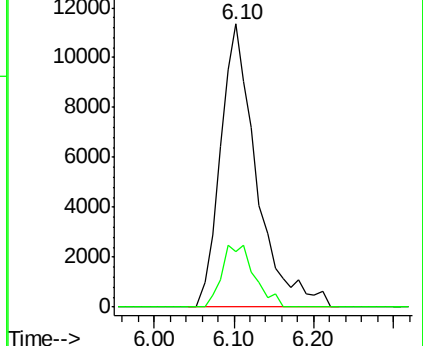
43 100

72 19.7 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 62.273 ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.03 min

Lab File: VD061692.D

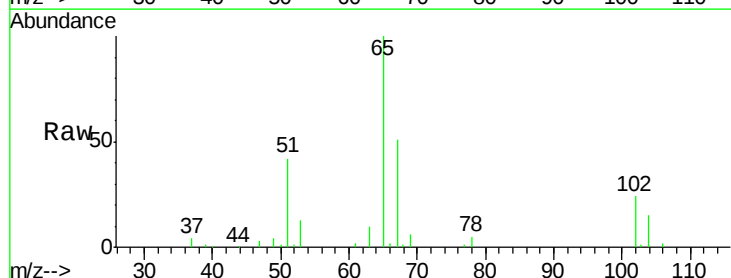
Acq: 9 Apr 2019 23:16

Tgt Ion: 65 Resp: 223162

Ion Ratio Lower Upper

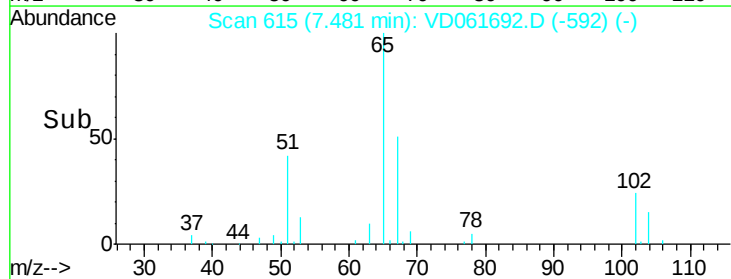
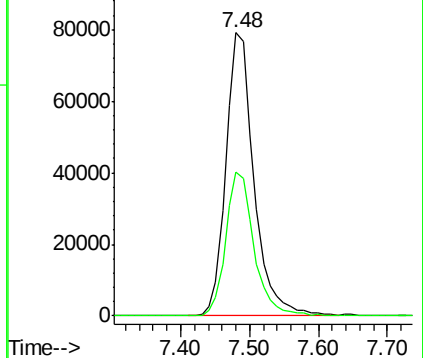
65 100

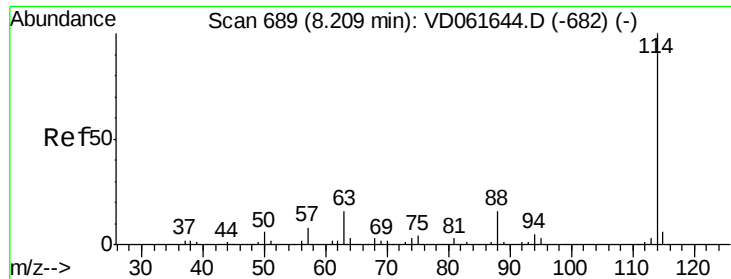
67 51.0 0.0 99.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

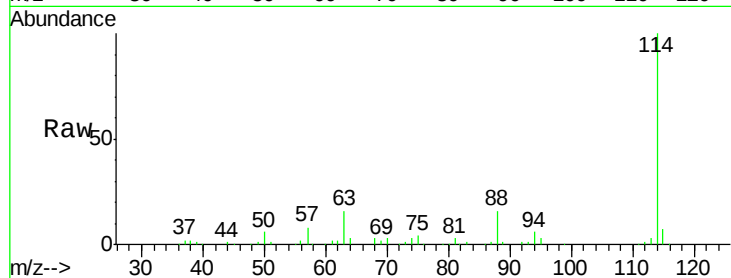




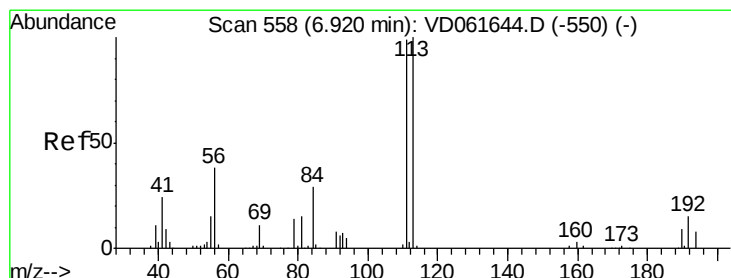
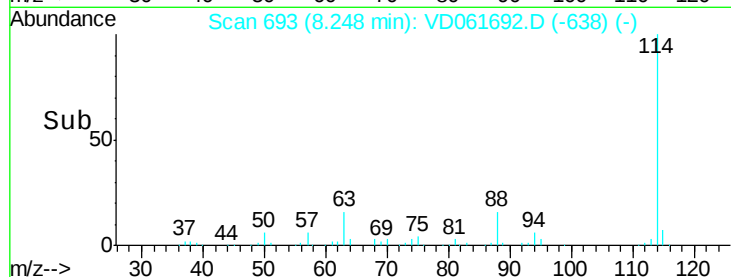
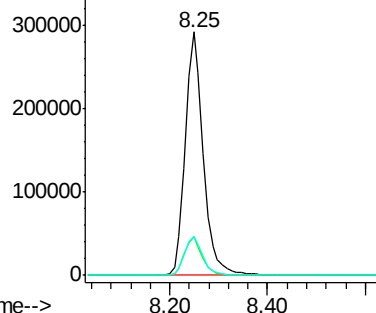
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.25 min Scan# 693
 Delta R.T. 0.04 min
 Lab File: VD061692.D
 Acq: 9 Apr 2019 23:16

Instrument :
 MSVOA_D
 ClientSampleId :
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Tgt Ion:114 Resp: 754170
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 31.2
 88 16.1 0.0 31.8

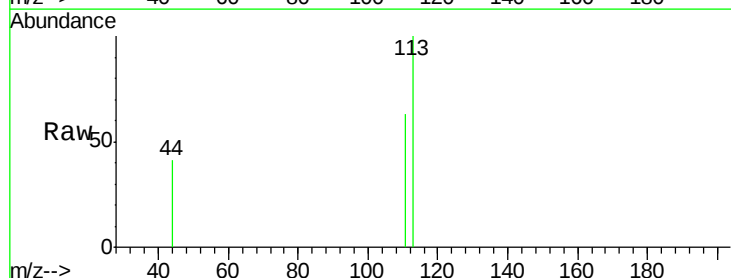


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

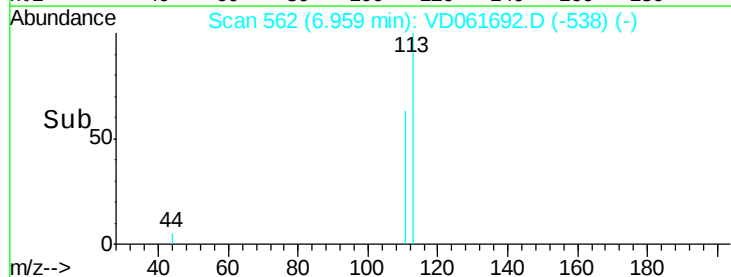
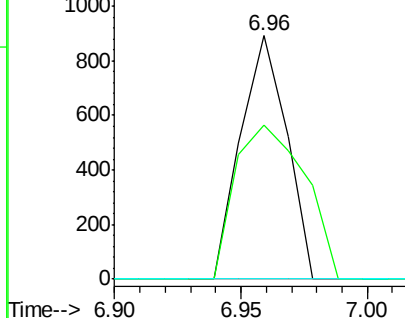


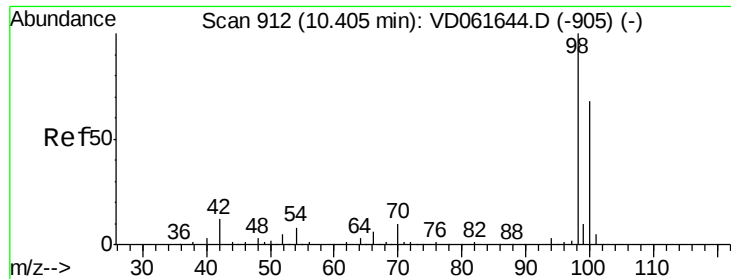
#35
 Dibromofluoromethane
 Concen: 0.216 ug/l
 RT: 6.96 min Scan# 562
 Delta R.T. 0.04 min
 Lab File: VD061692.D
 Acq: 9 Apr 2019 23:16

Tgt Ion:113 Resp: 1130
 Ion Ratio Lower Upper
 113 100
 111 63.5 79.3 118.9#
 192 0.0 12.3 18.5#



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

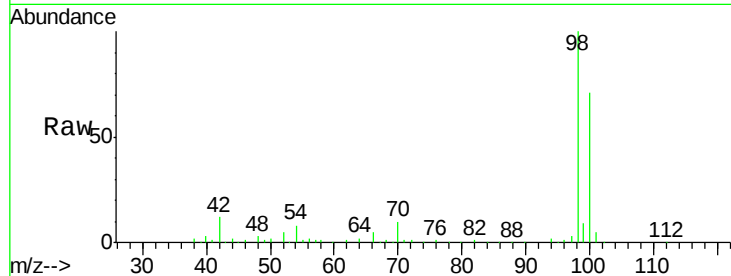




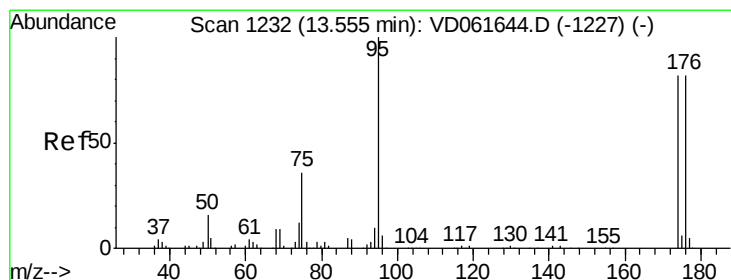
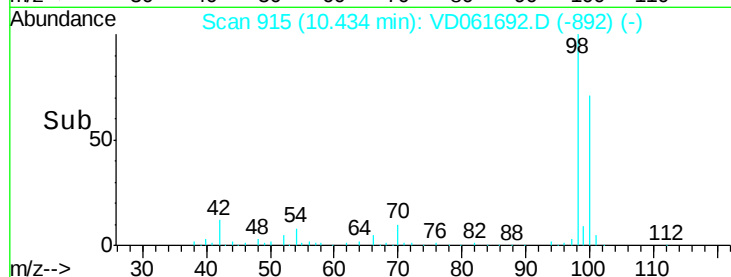
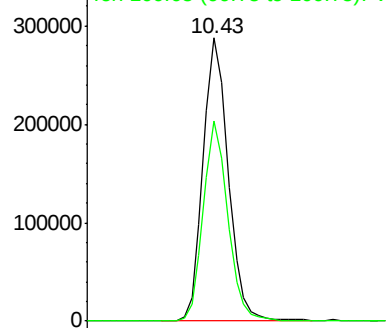
#50
Toluene-d8
Concen: 50.378 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD061692.D
Acq: 9 Apr 2019 23:16

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ClientSampleId :
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Tgt Ion: 98 Resp: 661298
Ion Ratio Lower Upper
98 100
100 70.6 55.4 83.0

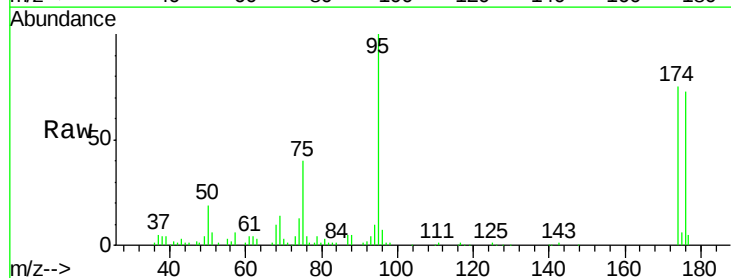


Abundance Ion 98.05 (97.75 to 98.75): VD061644.D (-905) (-)
Ion 100.05 (99.75 to 100.75): VD061644.D (-905) (-)

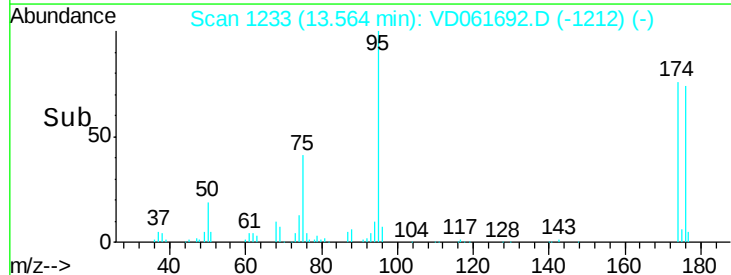
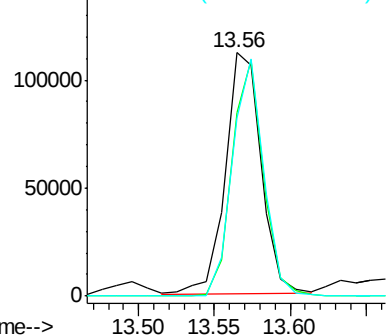


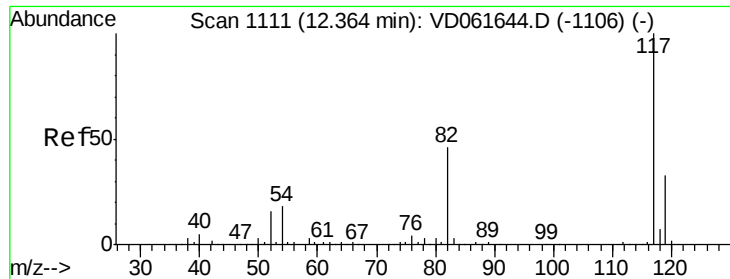
#62
4-Bromofluorobenzene
Concen: 37.854 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD061692.D
Acq: 9 Apr 2019 23:16

Tgt Ion: 95 Resp: 183852
Ion Ratio Lower Upper
95 100
174 75.4 0.0 164.6
176 73.0 0.0 165.0



Abundance Ion 95.00 (94.70 to 95.70): VD061644.D (-1227) (-)
Ion 173.90 (173.60 to 174.60): VD061644.D (-1227) (-)
Ion 175.90 (175.60 to 176.60): VD061644.D (-1227) (-)

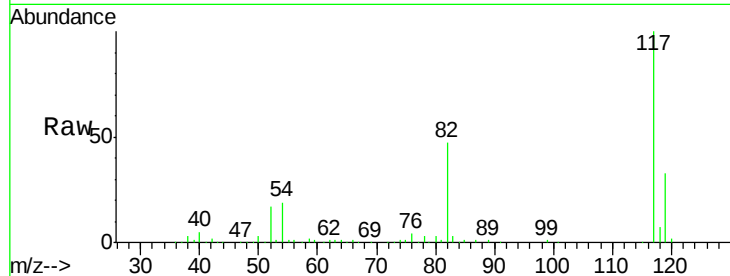




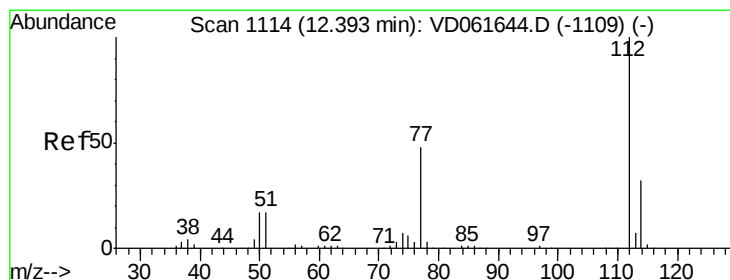
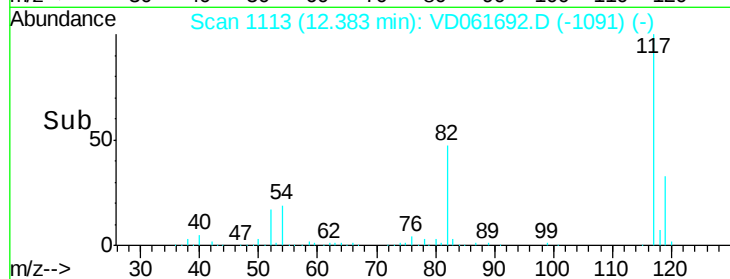
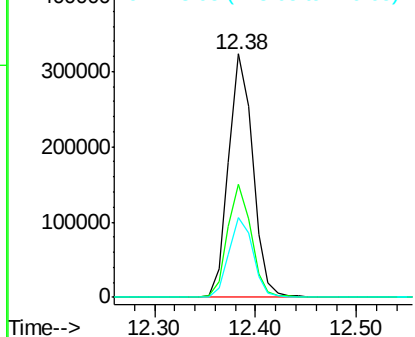
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD061692.D
Acq: 9 Apr 2019 23:16

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Tgt Ion:117 Resp: 538808
Ion Ratio Lower Upper
117 100
82 46.7 36.8 55.2
119 32.7 26.1 39.1

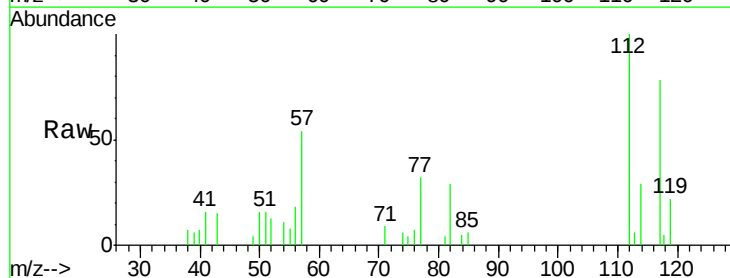


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

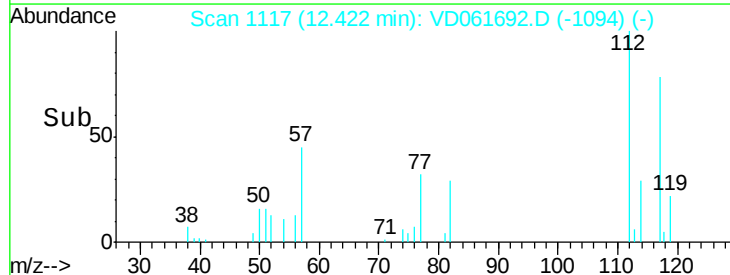
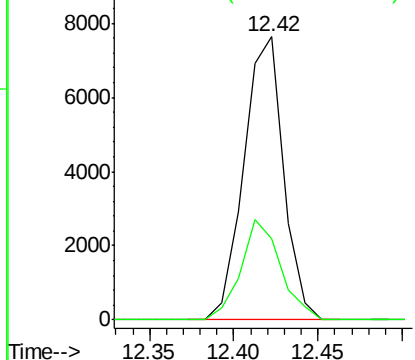


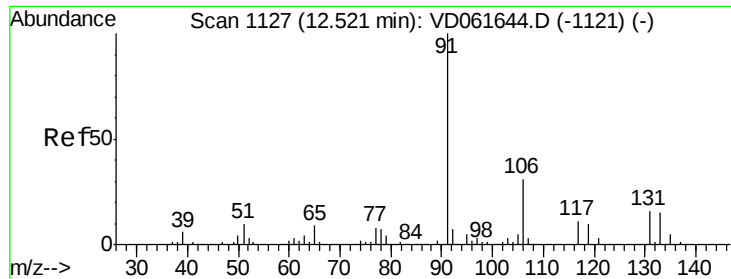
#65
Chlorobenzene
Concen: 1.159 ug/l
RT: 12.42 min Scan# 1117
Delta R.T. 0.03 min
Lab File: VD061692.D
Acq: 9 Apr 2019 23:16

Tgt Ion:112 Resp: 12386
Ion Ratio Lower Upper
112 100
114 28.6 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

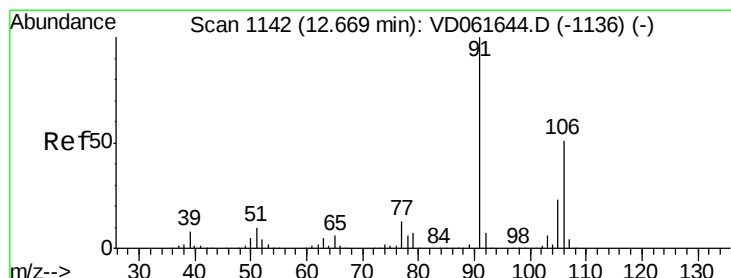
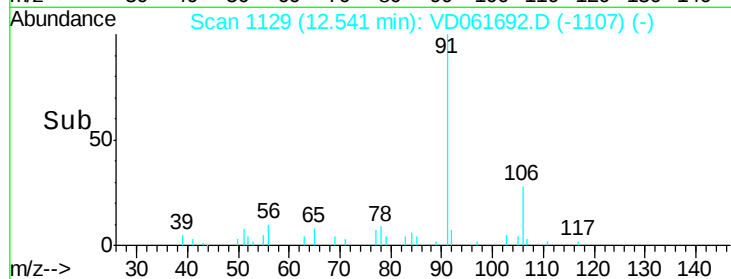
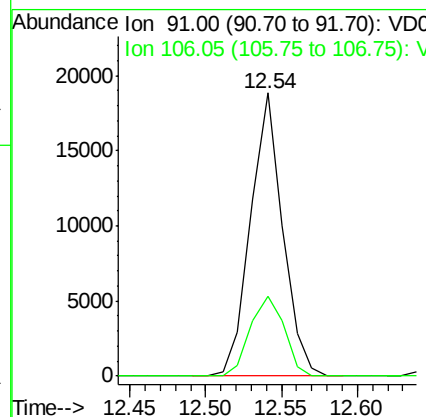
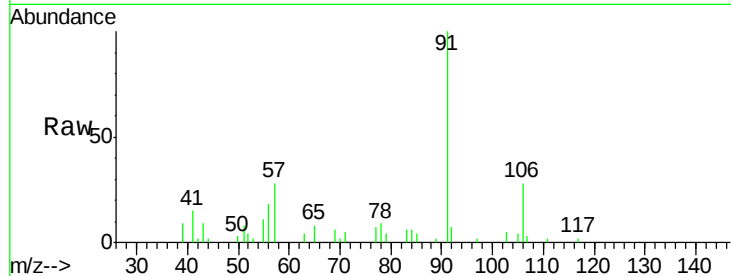




#67
Ethyl Benzene
Concen: 1.717 ug/l
RT: 12.54 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD061692.D
Acq: 9 Apr 2019 23:16

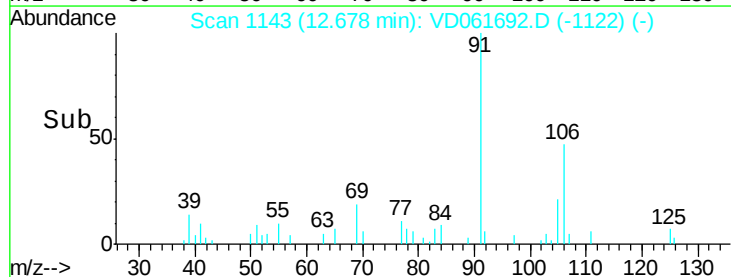
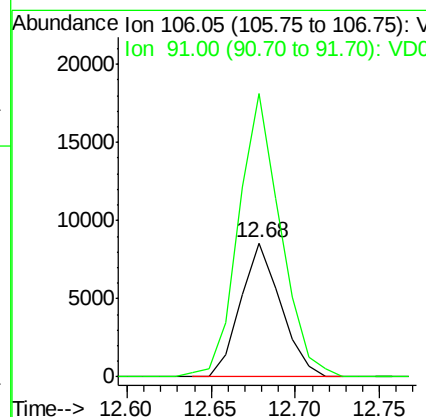
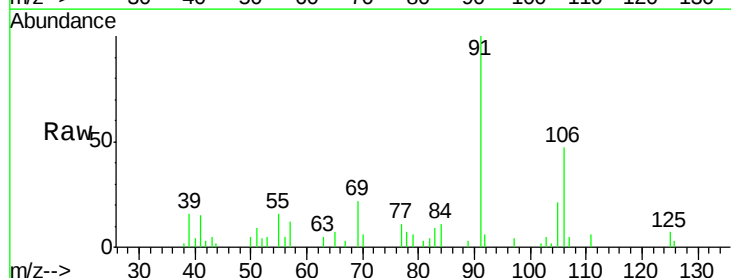
Instrument :
MSVOA_D
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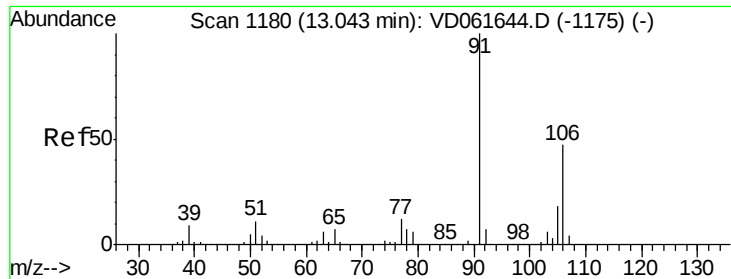
Tgt Ion: 91 Resp: 27943
Ion Ratio Lower Upper
91 100
106 28.3 24.6 37.0



#68
m/p-Xylenes
Concen: 2.275 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD061692.D
Acq: 9 Apr 2019 23:16

Tgt Ion: 106 Resp: 14268
Ion Ratio Lower Upper
106 100
91 211.6 156.7 235.1

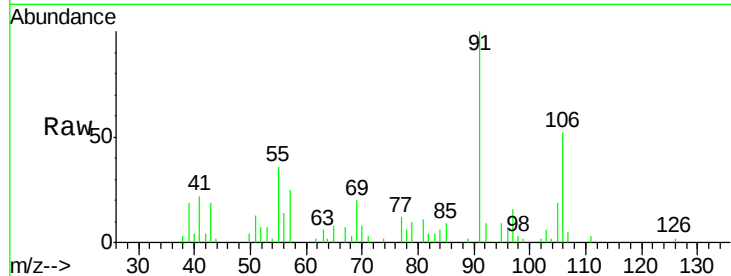




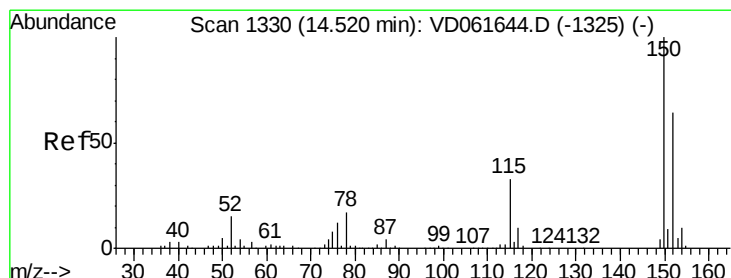
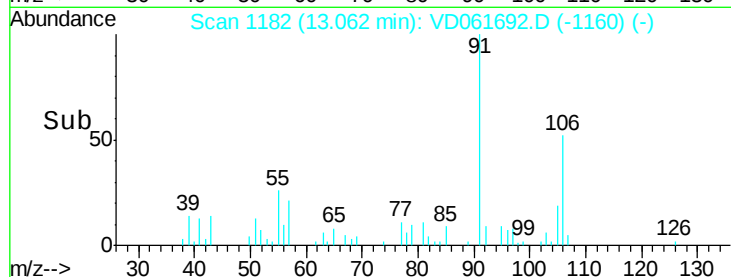
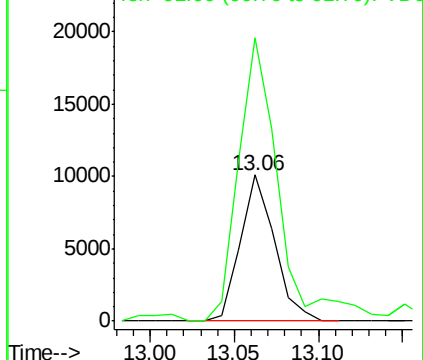
#69
o-Xylene
Concen: 2.347 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD061692.D
Acq: 9 Apr 2019 23:16

Instrument :
MSVOA_D
ClientSampleId :
20190177-AMND-COMP-CS-4

Tgt Ion:106 Resp: 14210
Ion Ratio Lower Upper
106 100
91 194.1 107.3 321.9

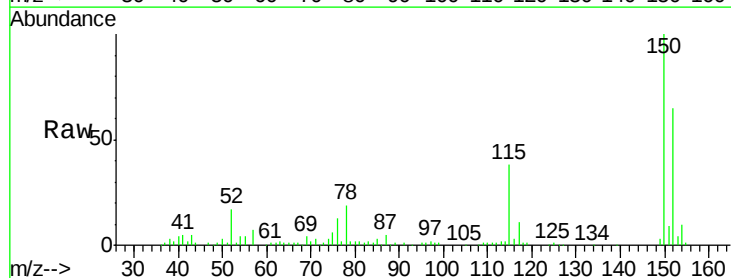


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

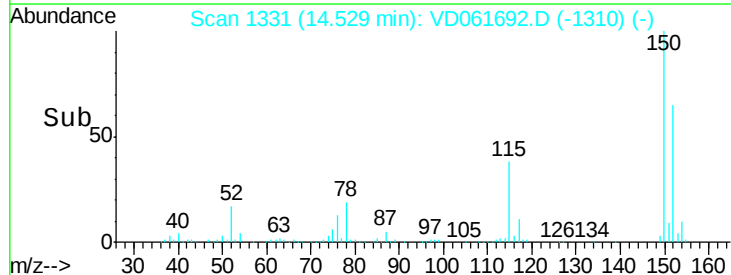
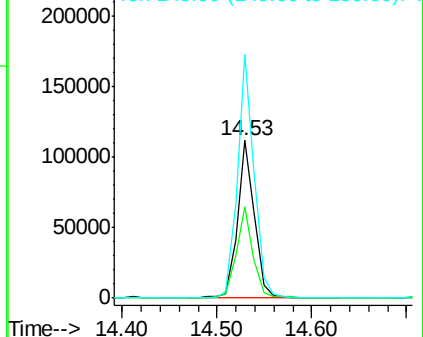


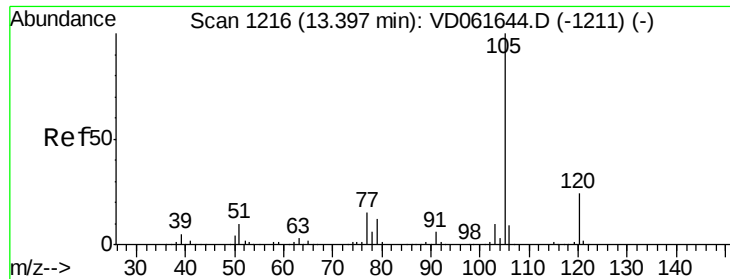
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD061692.D
Acq: 9 Apr 2019 23:16

Tgt Ion:152 Resp: 138752
Ion Ratio Lower Upper
152 100
115 58.3 26.4 79.2
150 154.4 0.0 320.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 16.928 ug/l

RT: 13.42 min Scan# 1218

Delta R.T. 0.02 min

Lab File: VD061692.D

Acq: 9 Apr 2019 23:16

Instrument :

MSVOA_D

ClientSampleId :

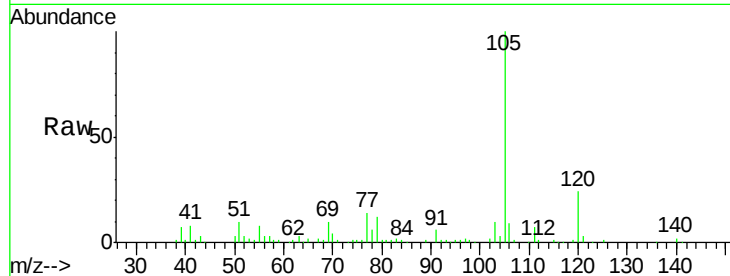
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Tgt Ion:105 Resp: 156498

Ion Ratio Lower Upper

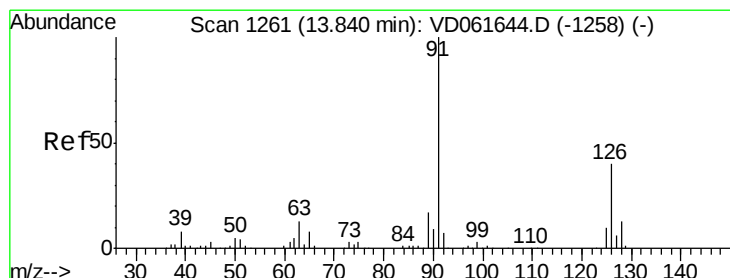
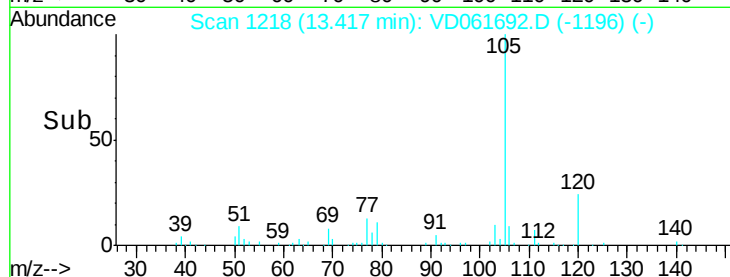
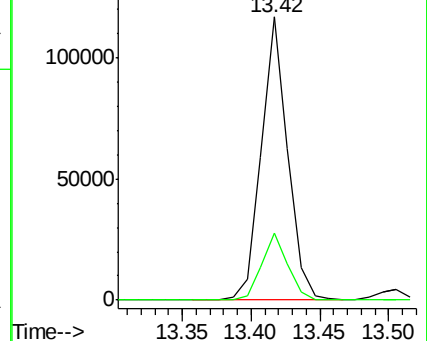
105 100

120 23.8 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 29.530 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD061692.D

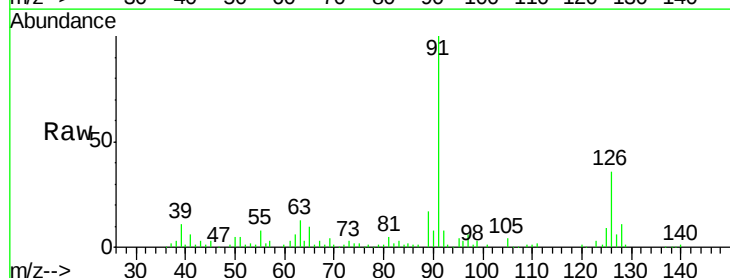
Acq: 9 Apr 2019 23:16

Tgt Ion: 91 Resp: 186755

Ion Ratio Lower Upper

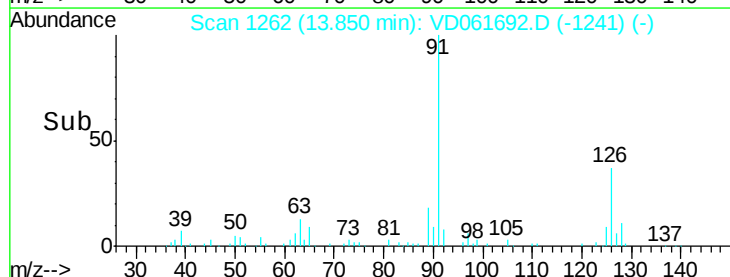
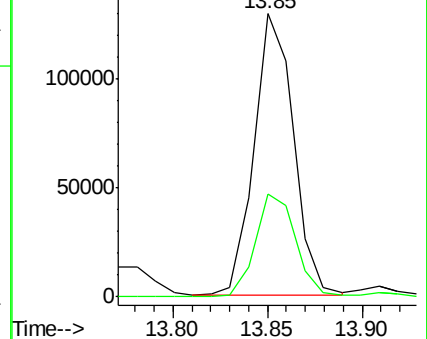
91 100

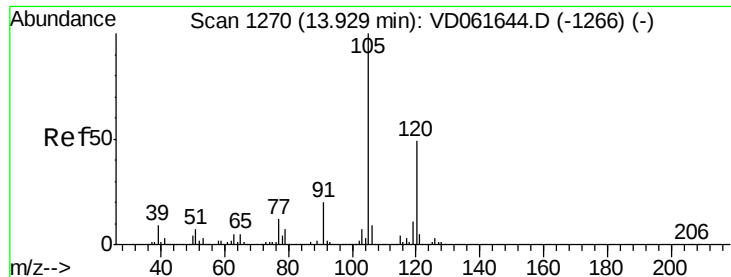
126 36.5 20.0 59.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

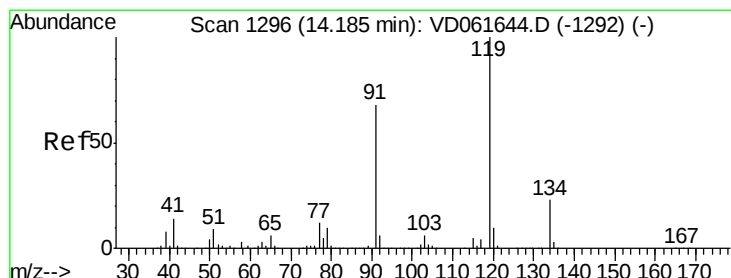
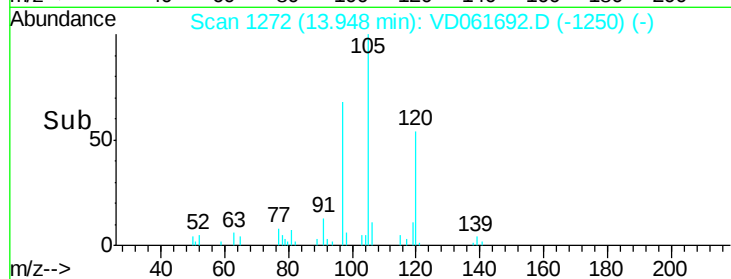
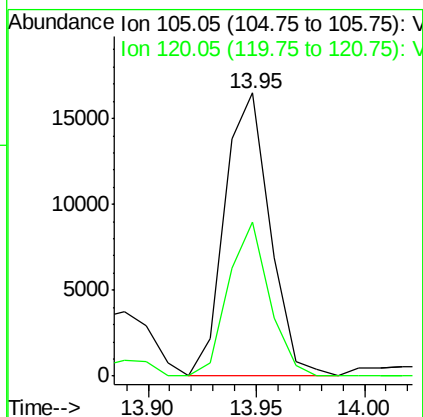
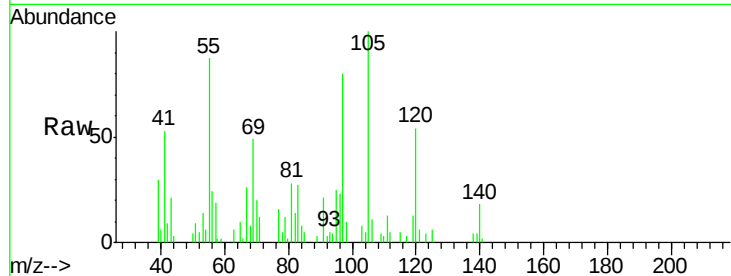




#80
 1,3,5-Trimethylbenzene
 Concen: 3.278 ug/l
 RT: 13.95 min Scan# 1272
 Delta R.T. 0.02 min
 Lab File: VD061692.D
 Acq: 9 Apr 2019 23:16

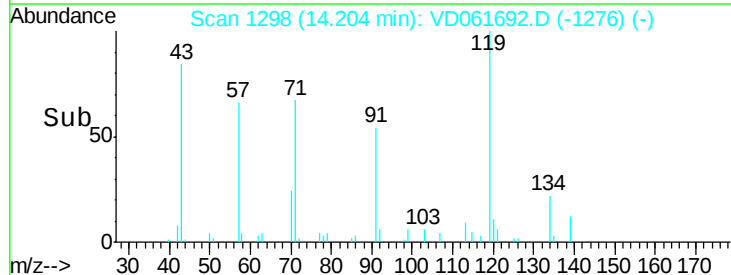
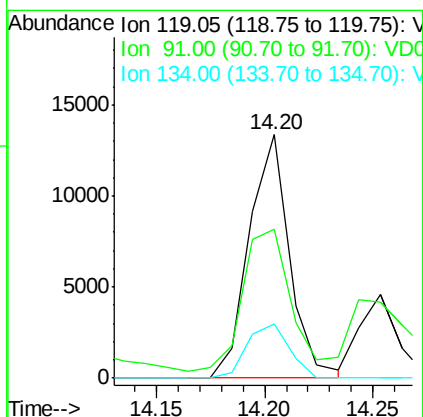
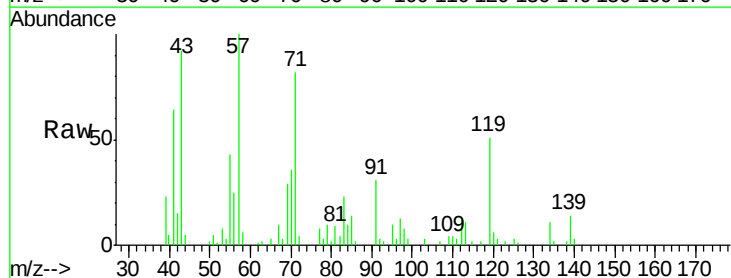
Instrument :
 MSVOA_D
 ClientSampleId :
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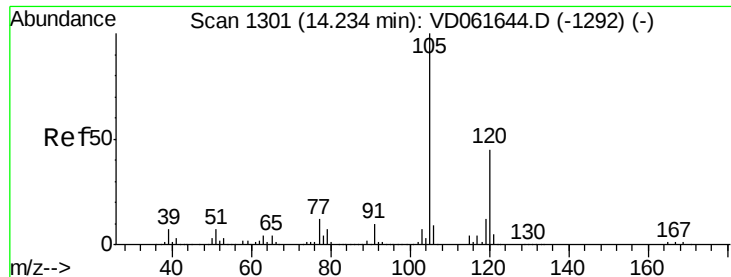
Tgt Ion:105 Resp: 24054
 Ion Ratio Lower Upper
 105 100
 120 54.3 24.4 73.2



#83
 tert-Butylbenzene
 Concen: 1.953 ug/l
 RT: 14.20 min Scan# 1298
 Delta R.T. 0.02 min
 Lab File: VD061692.D
 Acq: 9 Apr 2019 23:16

Tgt Ion:119 Resp: 17276
 Ion Ratio Lower Upper
 119 100
 91 61.1 33.9 101.6
 134 22.5 11.6 34.8

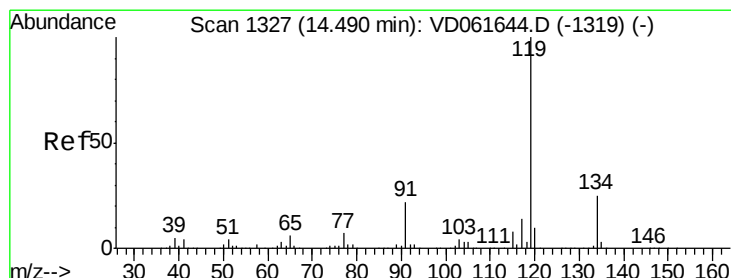
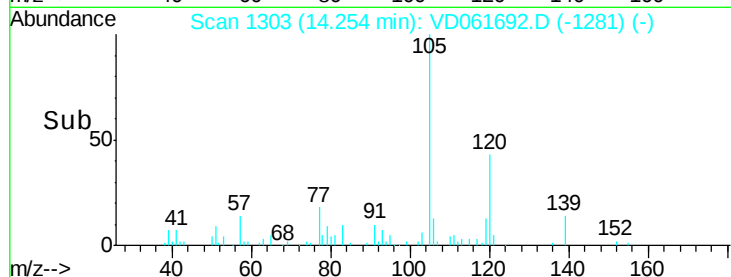
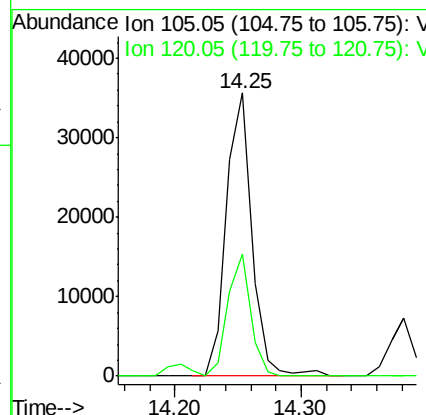
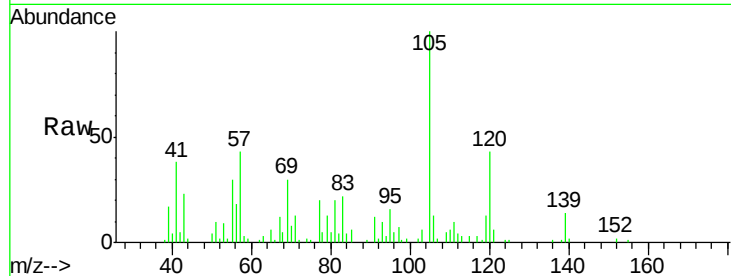




#84
 1,2,4-Trimethylbenzene
 Concen: 6.749 ug/l
 RT: 14.25 min Scan# 1303
 Delta R.T. 0.02 min
 Lab File: VD061692.D
 Acq: 9 Apr 2019 23:16

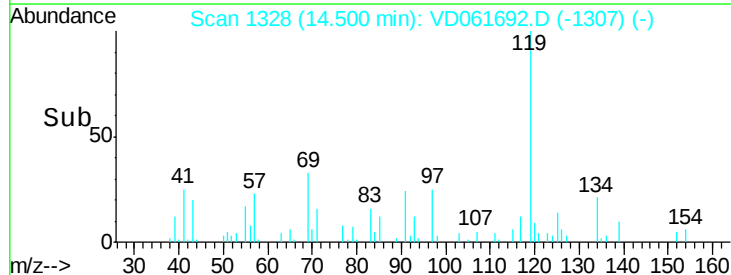
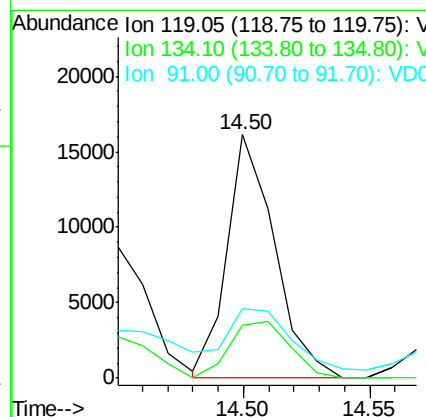
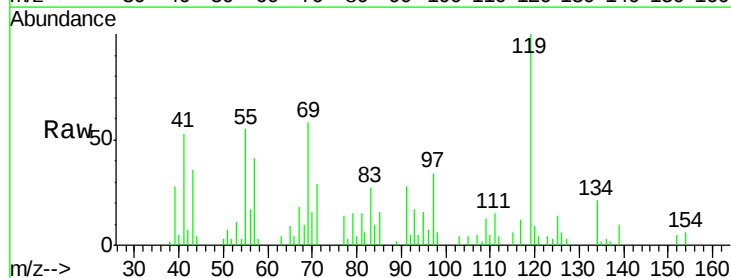
Instrument :
 MSVOA_D
 ClientSampleId :
 20190177-AMND-COMP-CS-4

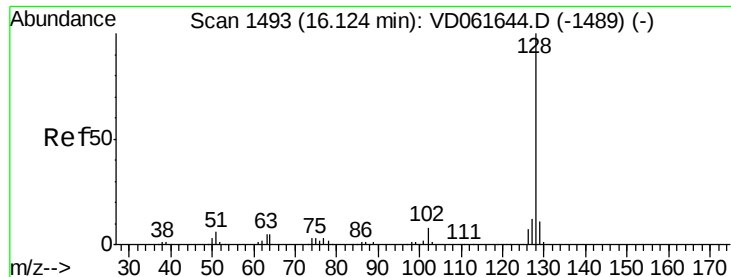
Tgt Ion:105 Resp: 49980
 Ion Ratio Lower Upper
 105 100
 120 43.0 22.6 67.8



#86
 p-Isopropyltoluene
 Concen: 2.551 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD061692.D
 Acq: 9 Apr 2019 23:16

Tgt Ion:119 Resp: 21151
 Ion Ratio Lower Upper
 119 100
 134 21.5 12.5 37.5
 91 28.4 11.0 33.0





#95
 Naphthalene
 Concen: 16.568 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD061692.D
 Acq: 9 Apr 2019 23:16

Instrument :
 MSVOA_D
 ClientSampleId :
 20190177-AMND-COMP-CS-4

Tgt Ion:128 Resp: 50838
 Ion Ratio Lower Upper
 128 100
 127 11.6 9.4 14.2
 129 12.0 8.8 13.2

