

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD041019\
 Data File : VD061722.D
 Acq On : 10 Apr 2019 19:29
 Operator : VA/AP
 Sample : K2316-10RE
 Misc : 5.07g/5ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190178-AMND-COMP-CS-5RE

Quant Time: Apr 11 02:57:13 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	7.06	168	481683	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	765695	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	586457	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	185360	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	211951	58.05	ug/l	0.01
Spiked Amount			Recovery	=	116.10%	
35) Dibromofluoromethane	6.95	113	10225	1.93	ug/l	0.03
Spiked Amount			Recovery	=	3.86%	
50) Toluene-d8	10.41	98	731586	54.89	ug/l	0.01
Spiked Amount			Recovery	=	109.78%	
62) 4-Bromofluorobenzene	13.56	95	210722	43.83	ug/l	0.01
Spiked Amount			Recovery	=	87.66%	

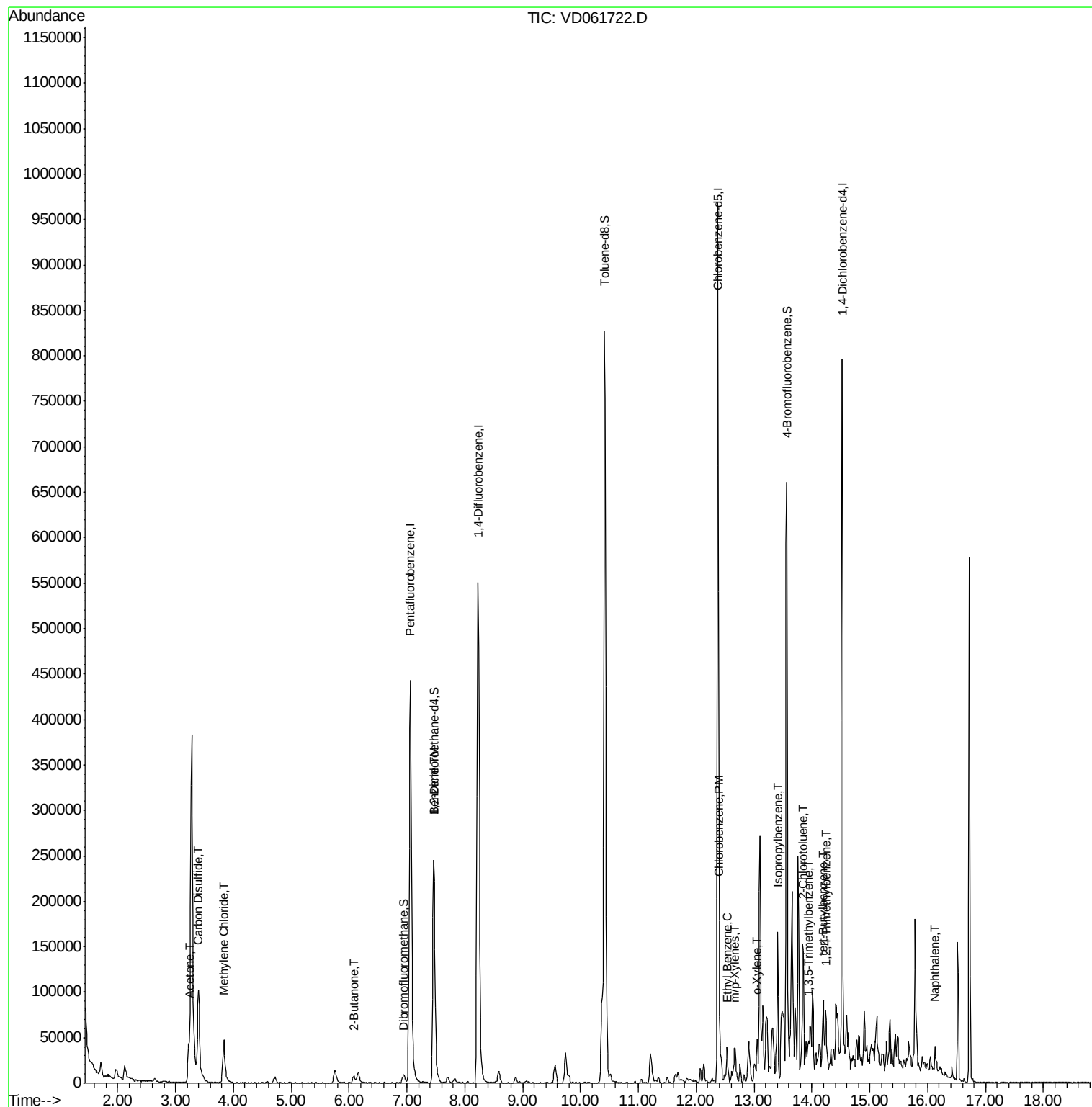
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.23	43	84721	77.623	ug/l	98
17) Carbon Disulfide	3.40	76	190573	11.680	ug/l	97
20) Methylene Chloride	3.84	84	40188	6.489	ug/l	98
25) 2-Butanone	6.08	43	17793	14.141	ug/l #	88
40) Benzene	7.47	78	35684	2.207	ug/l	96
65) Chlorobenzene	12.40	112	22182	1.907	ug/l	99
67) Ethyl Benzene	12.53	91	19688	1.112	ug/l	94
68) m/p-Xylenes	12.67	106	11698	1.713	ug/l	92
69) o-Xylene	13.05	106	10720	1.627	ug/l	83
73) Isopropylbenzene	13.41	105	93036	7.533	ug/l	100
79) 2-Chlorotoluene	13.84	91	72762	8.612	ug/l	92
80) 1,3,5-Trimethylbenzene	13.94	105	9938	1.014	ug/l	94
83) tert-Butylbenzene	14.19	119	23301	1.971	ug/l	99
84) 1,2,4-Trimethylbenzene	14.24	105	18481	1.868	ug/l	99
95) Naphthalene	16.12	128	15968	3.895	ug/l	99

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD041019\
Data File : VD061722.D
Acq On : 10 Apr 2019 19:29
Operator : VA/AP
Sample : K2316-10RE
Misc : 5.07g/5ml/MSVOA_D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
20190178-AMND-COMP-CS-5RE

Quant Time: Apr 11 02:57:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD061722.D

Acq: 10 Apr 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

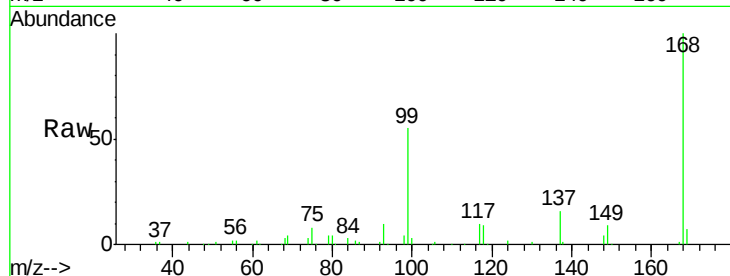
20190178-AMND-COMP-CS-5RE

Tgt Ion:168 Resp: 481683

Ion Ratio Lower Upper

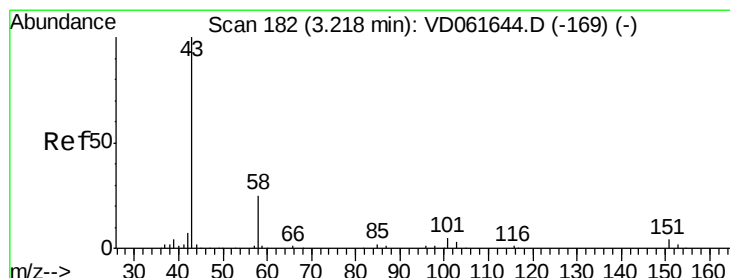
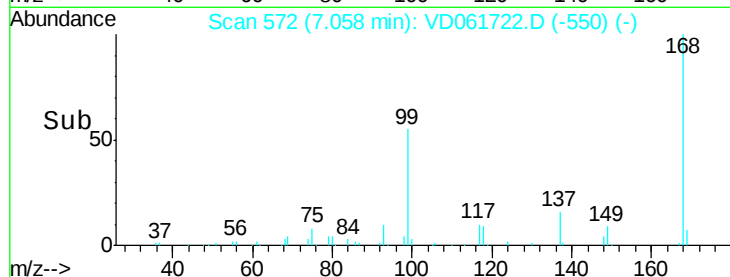
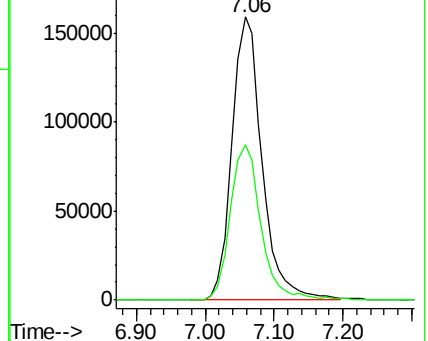
168 100

99 54.8 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: 77.623 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD061722.D

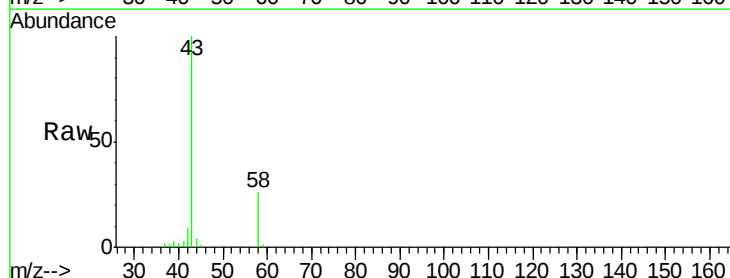
Acq: 10 Apr 2019 19:29

Tgt Ion: 43 Resp: 84721

Ion Ratio Lower Upper

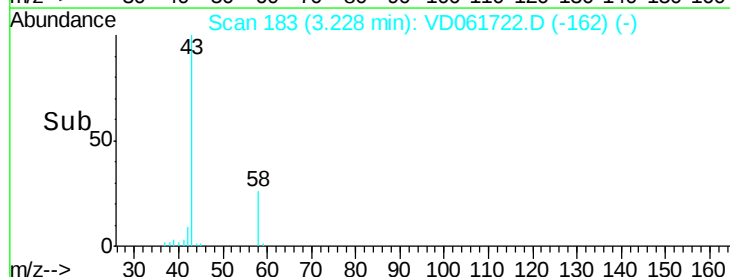
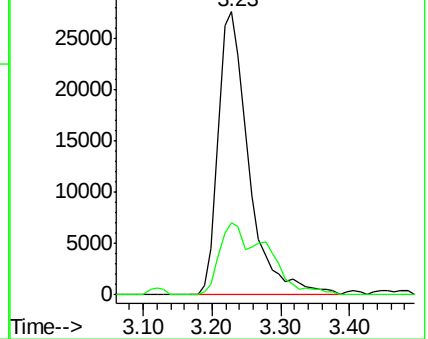
43 100

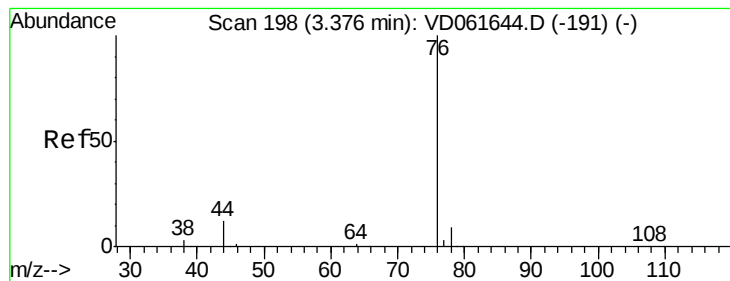
58 25.6 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 11.680 ug/l

RT: 3.40 min Scan# 200

Delta R.T. 0.02 min

Lab File: VD061722.D

Acq: 10 Apr 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

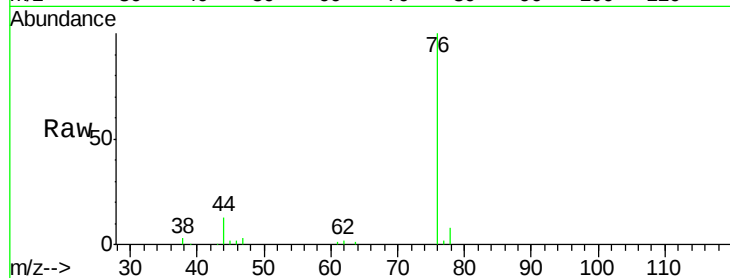
20190178-AMND-COMP-CS-5RE

Tgt Ion: 76 Resp: 190573

Ion Ratio Lower Upper

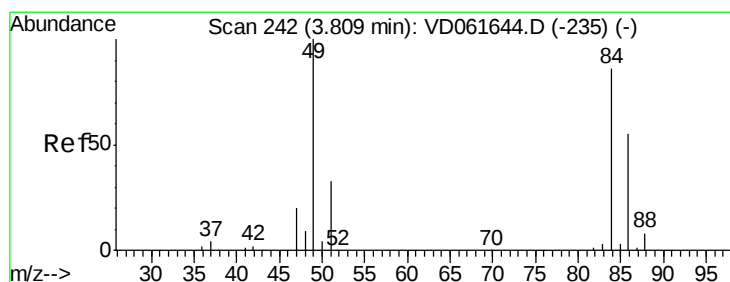
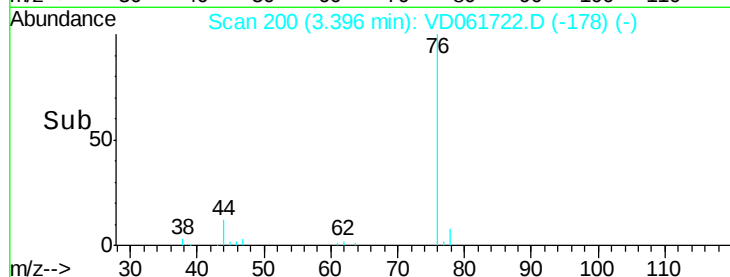
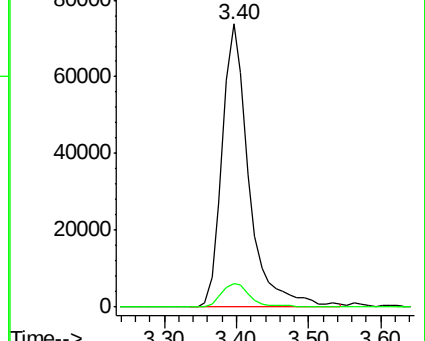
76 100

78 8.3 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: 6.489 ug/l

RT: 3.84 min Scan# 245

Delta R.T. 0.03 min

Lab File: VD061722.D

Acq: 10 Apr 2019 19:29

Tgt Ion: 84 Resp: 40188

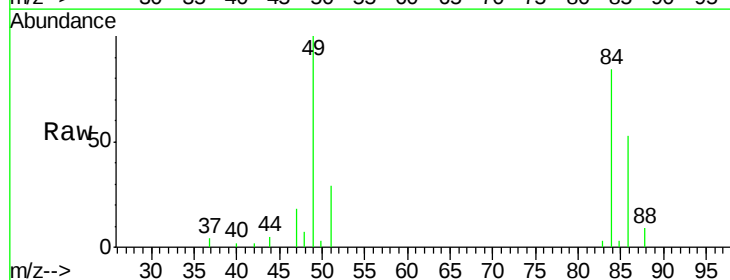
Ion Ratio Lower Upper

84 100

49 118.7 93.0 139.4

51 34.9 30.4 45.6

86 63.2 51.0 76.4

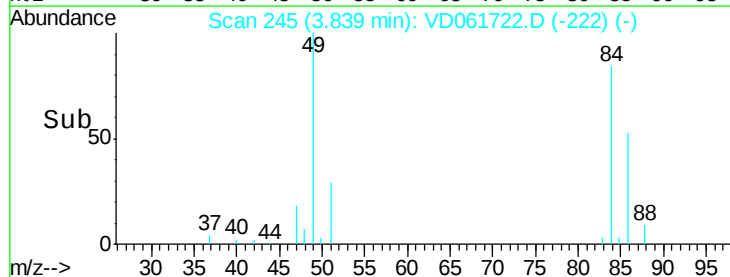
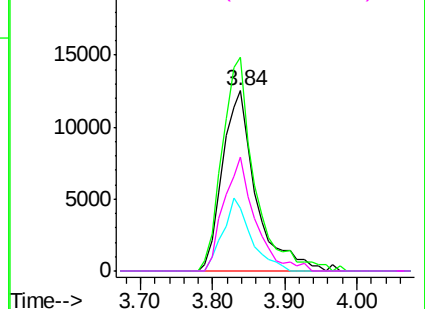


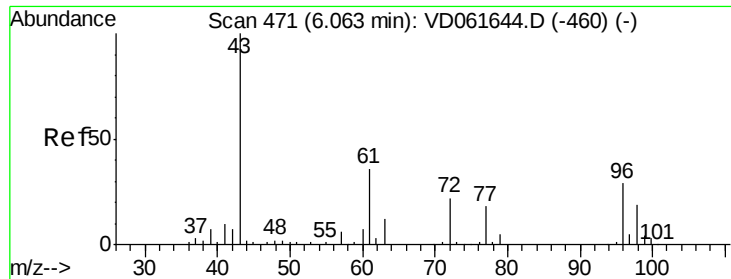
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 14.141 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD061722.D

Acq: 10 Apr 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

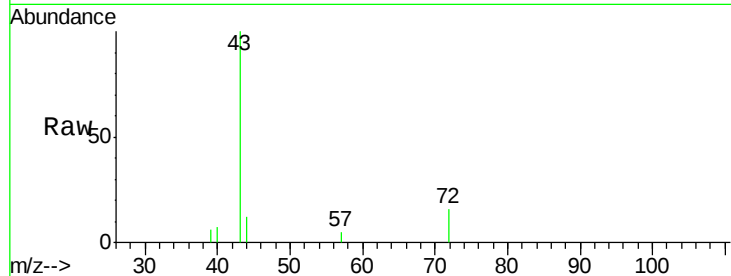
20190178-AMND-COMP-CS-5RE

Tgt Ion: 43 Resp: 17793

Ion Ratio Lower Upper

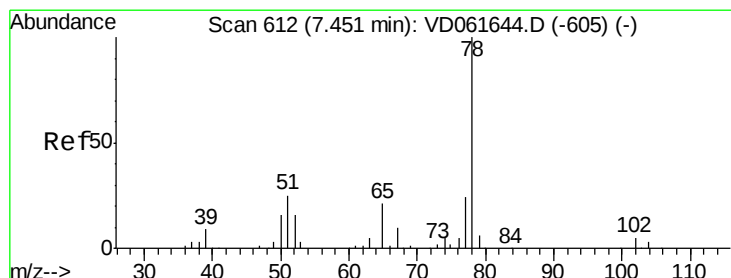
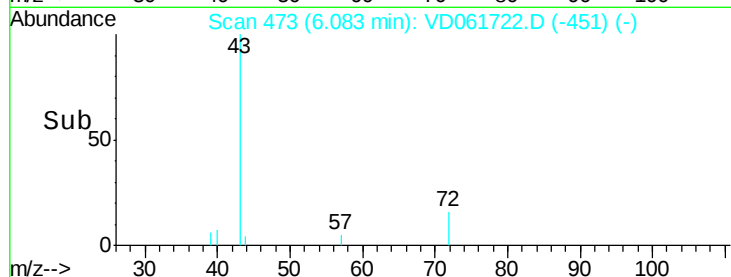
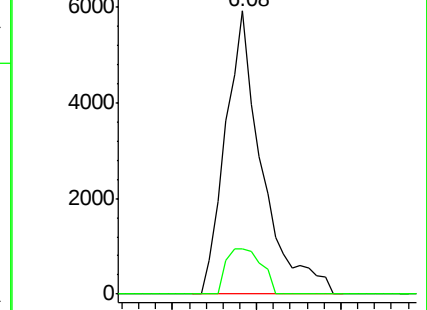
43 100

72 16.1 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: 58.051 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061722.D

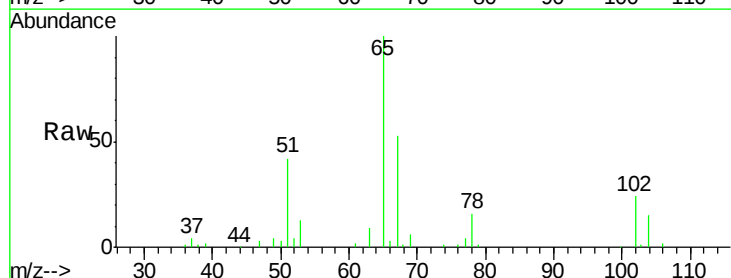
Acq: 10 Apr 2019 19:29

Tgt Ion: 65 Resp: 211951

Ion Ratio Lower Upper

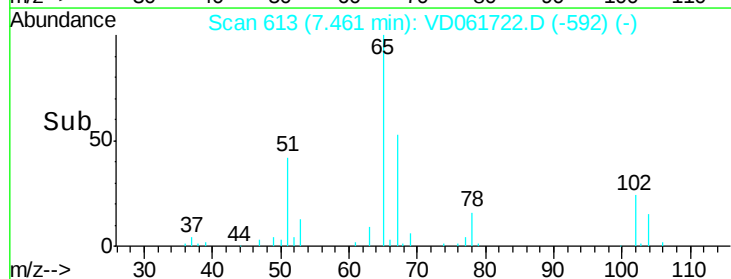
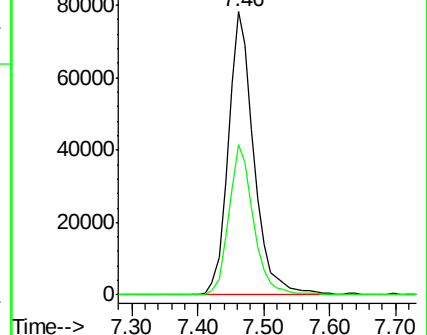
65 100

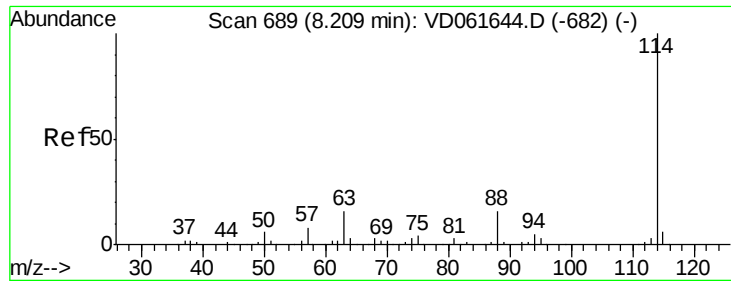
67 52.9 0.0 99.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

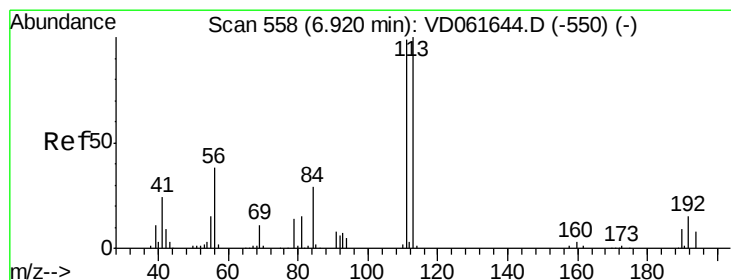
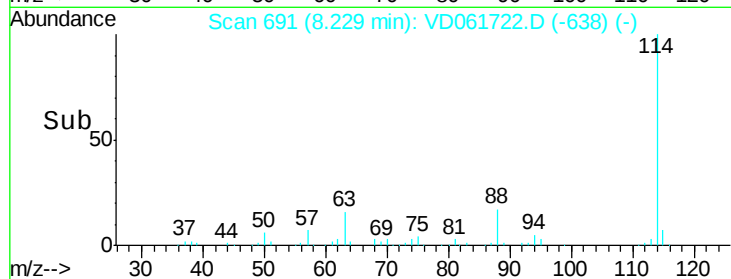
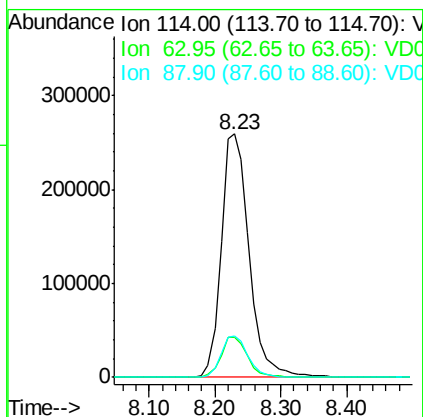
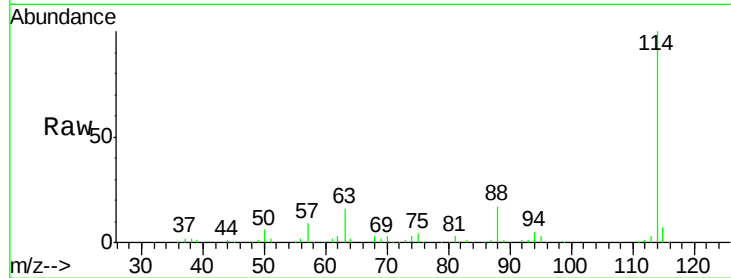




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD061722.D
 Acq: 10 Apr 2019 19:29

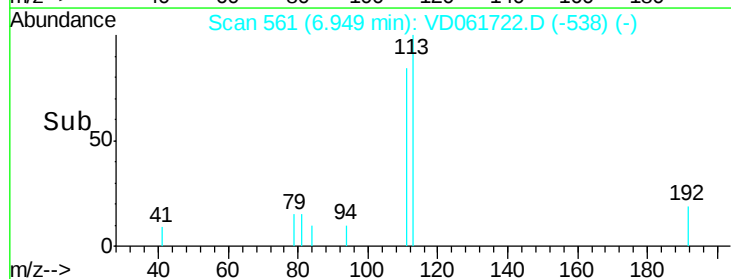
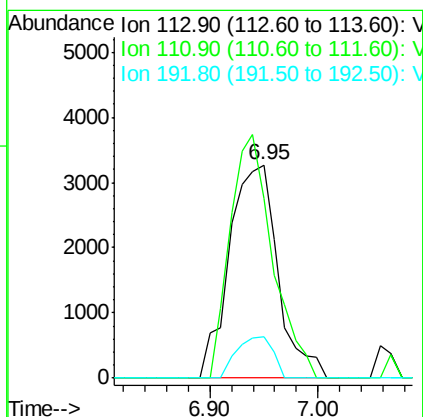
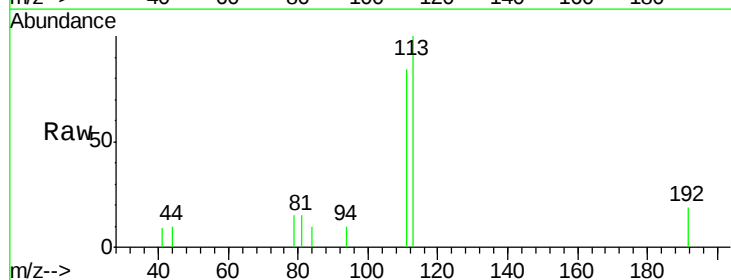
Instrument :
 MSVOA_D
 ClientSampleId :
 20190178-AMND-COMP-CS-5RE

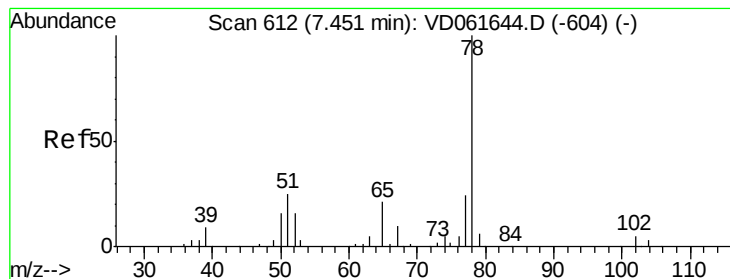
Tgt Ion:114 Resp: 765695
 Ion Ratio Lower Upper
 114 100
 63 16.2 0.0 31.2
 88 16.8 0.0 31.8



#35
 Dibromofluoromethane
 Concen: 1.928 ug/l
 RT: 6.95 min Scan# 561
 Delta R.T. 0.03 min
 Lab File: VD061722.D
 Acq: 10 Apr 2019 19:29

Tgt Ion:113 Resp: 10225
 Ion Ratio Lower Upper
 113 100
 111 84.4 79.3 118.9
 192 19.4 12.3 18.5#





#40

Benzene

Concen: 2.207 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD061722.D

Acq: 10 Apr 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

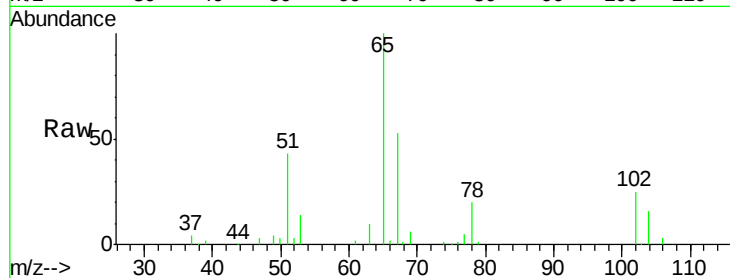
20190178-AMND-COMP-CS-5RE

Tgt Ion: 78 Resp: 35684

Ion Ratio Lower Upper

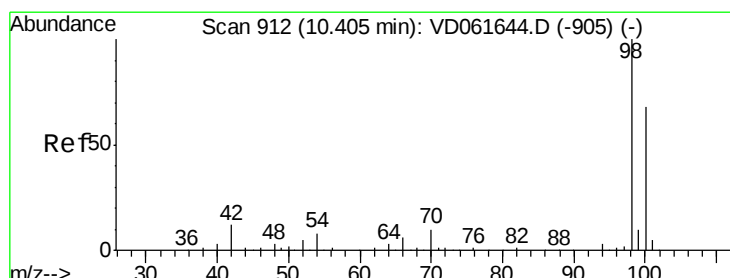
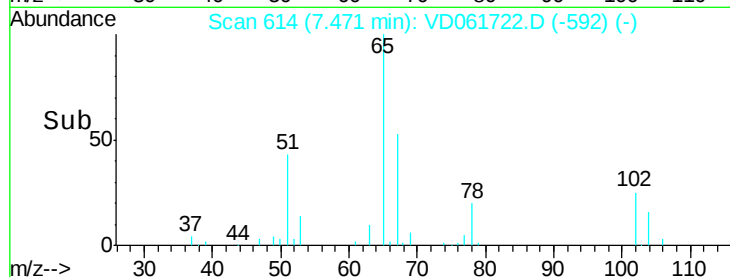
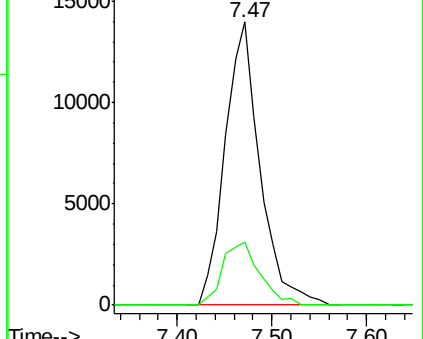
78 100

77 22.5 19.5 29.3



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: 54.894 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061722.D

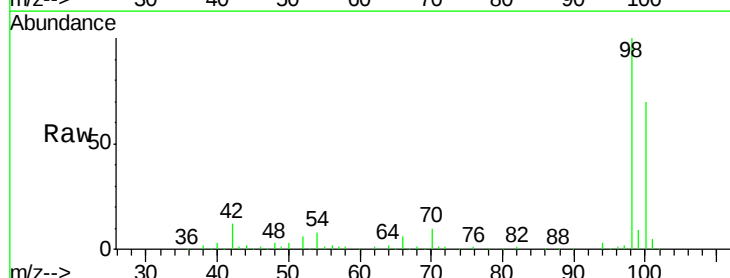
Acq: 10 Apr 2019 19:29

Tgt Ion: 98 Resp: 731586

Ion Ratio Lower Upper

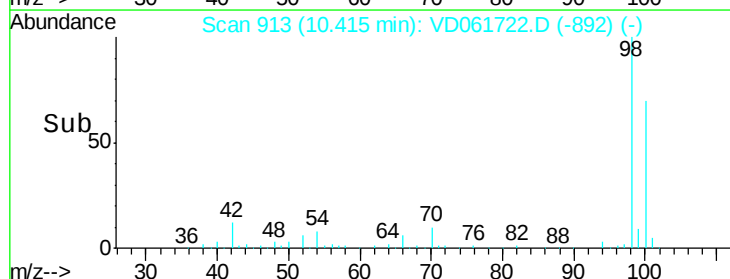
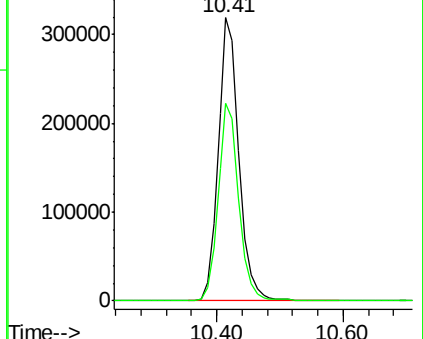
98 100

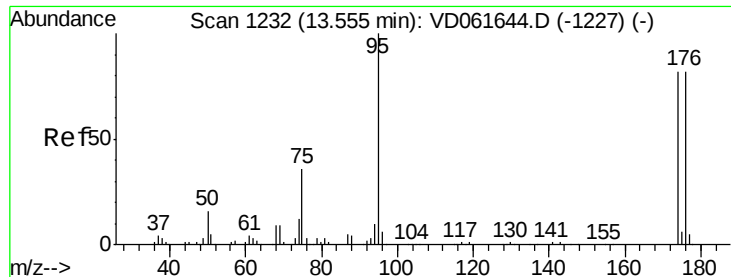
100 69.7 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: 43.831 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061722.D

Acq: 10 Apr 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

20190178-AMND-COMP-CS-5RE

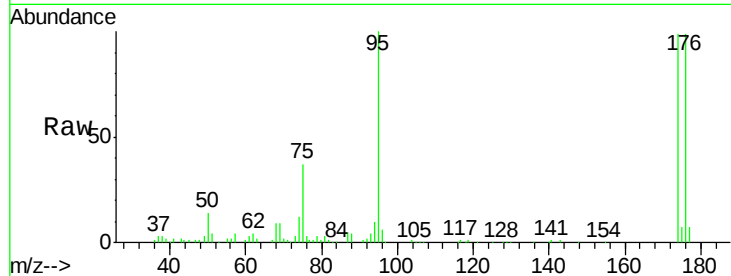
Tgt Ion: 95 Resp: 210722

Ion Ratio Lower Upper

95 100

174 98.5 0.0 164.6

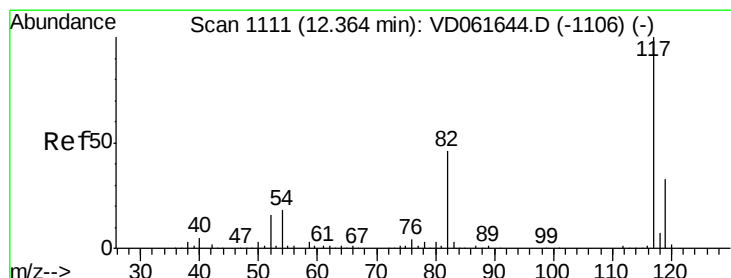
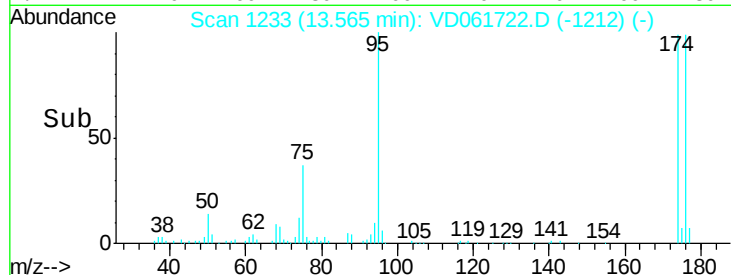
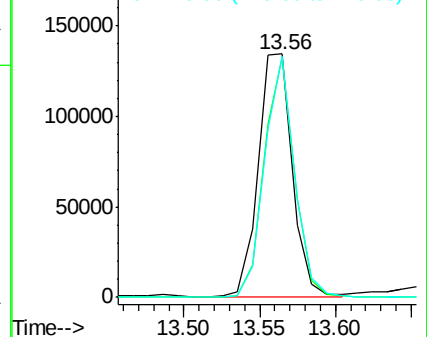
176 99.0 0.0 165.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD061722.D

Acq: 10 Apr 2019 19:29

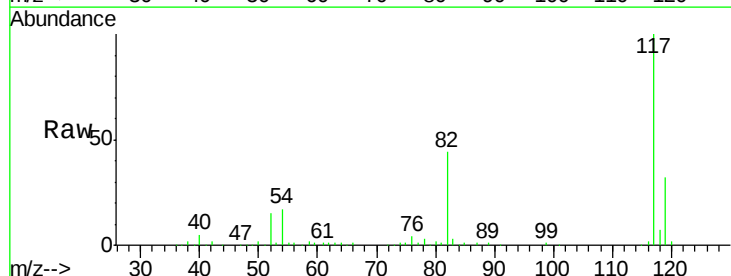
Tgt Ion: 117 Resp: 586457

Ion Ratio Lower Upper

117 100

82 44.0 36.8 55.2

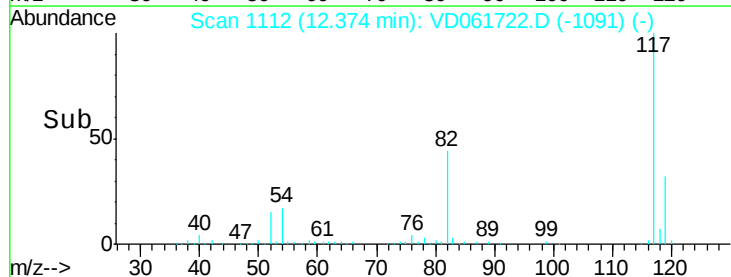
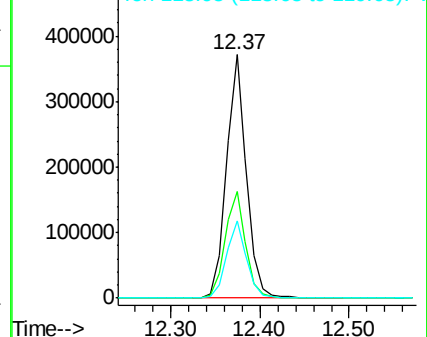
119 31.9 26.1 39.1

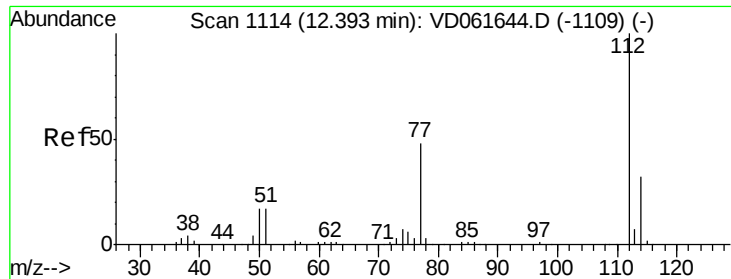


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

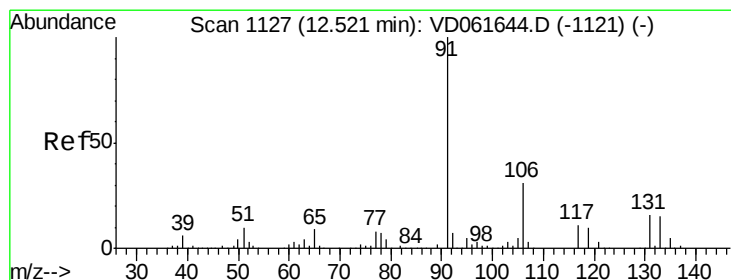
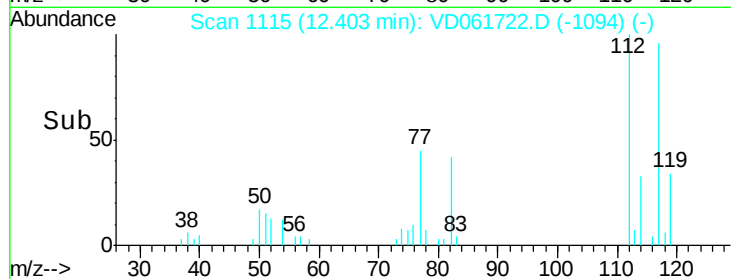
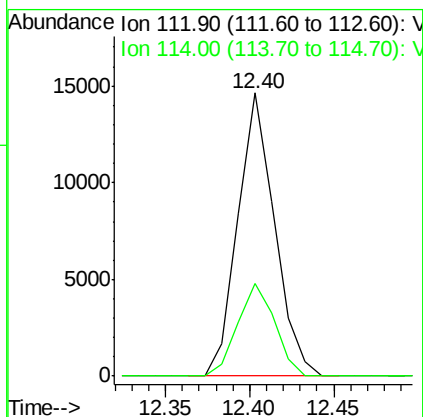
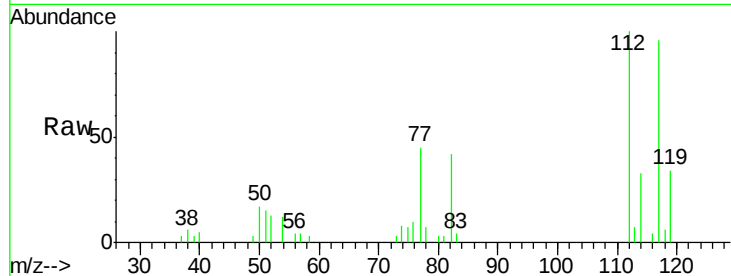




#65
Chlorobenzene
Concen: 1.907 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD061722.D
Acq: 10 Apr 2019 19:29

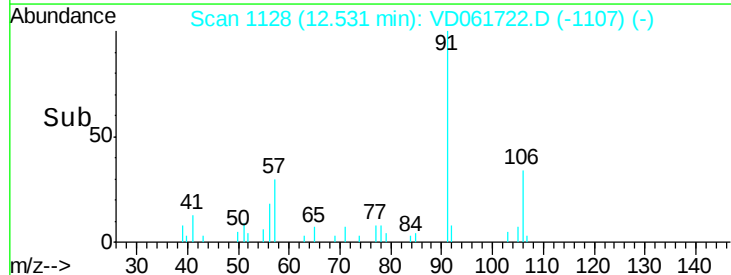
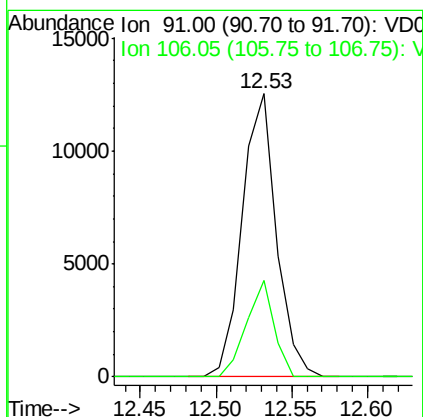
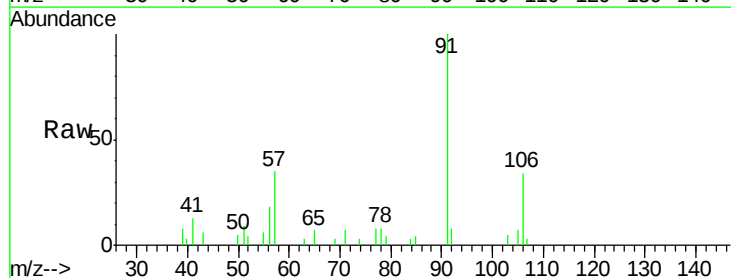
Instrument :
MSVOA_D
ClientSampleId :
20190178-AMND-COMP-CS-5RE

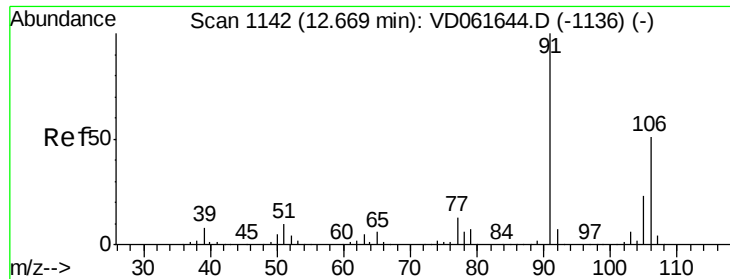
Tgt Ion: 112 Resp: 22182
Ion Ratio Lower Upper
112 100
114 32.5 25.6 38.4



#67
Ethyl Benzene
Concen: 1.112 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD061722.D
Acq: 10 Apr 2019 19:29

Tgt Ion: 91 Resp: 19688
Ion Ratio Lower Upper
91 100
106 34.0 24.6 37.0

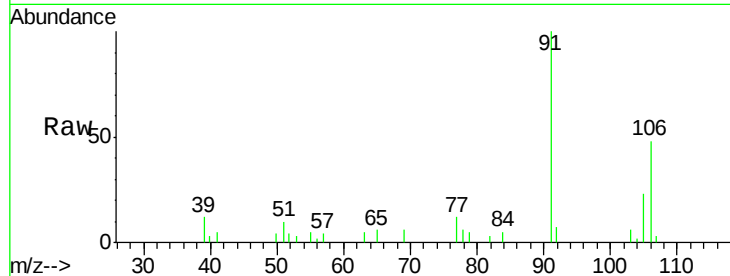




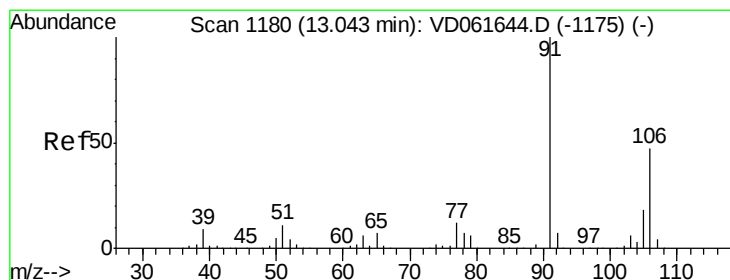
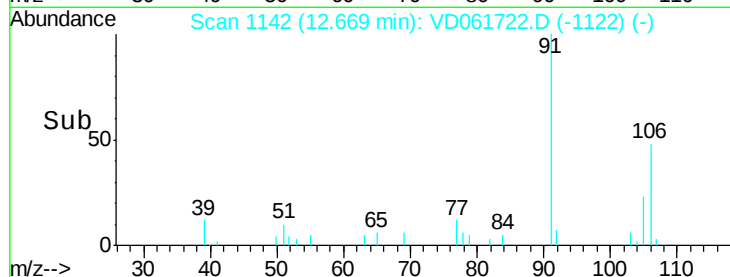
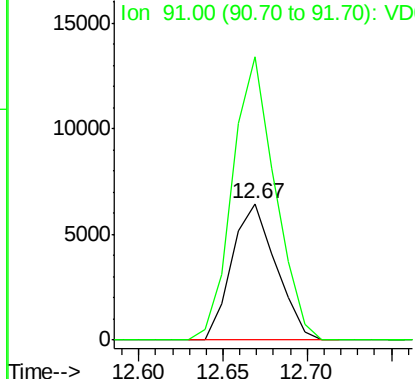
#68
m/p-Xylenes
Concen: 1.713 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD061722.D
Acq: 10 Apr 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :
20190178-AMND-COMP-CS-5RE

Tgt Ion:106 Resp: 11698
Ion Ratio Lower Upper
106 100
91 207.9 156.7 235.1

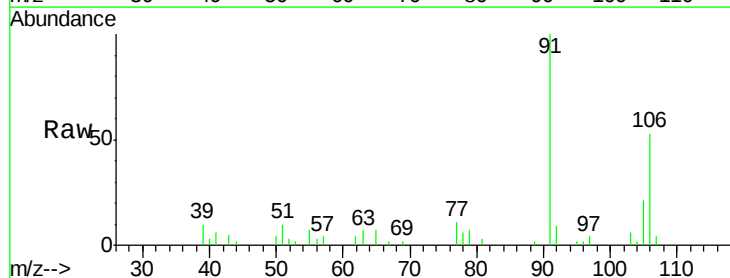


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

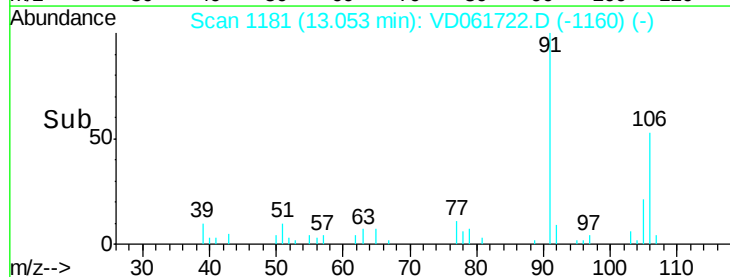
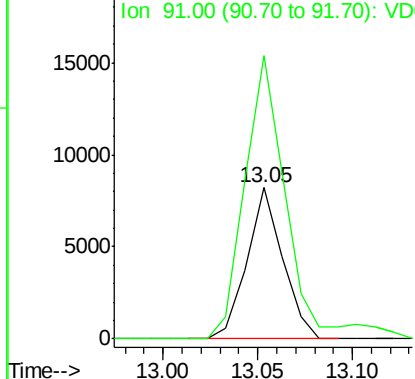


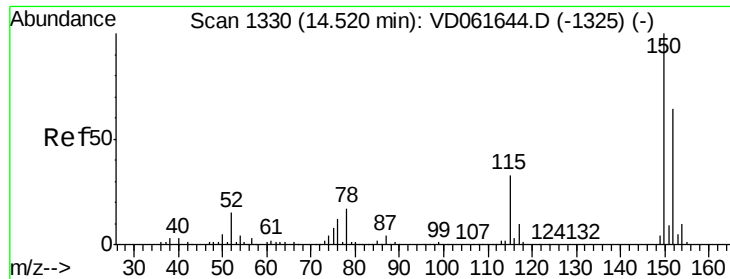
#69
o-Xylene
Concen: 1.627 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD061722.D
Acq: 10 Apr 2019 19:29

Tgt Ion:106 Resp: 10720
Ion Ratio Lower Upper
106 100
91 187.1 107.3 321.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD061722.D

Acq: 10 Apr 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

20190178-AMND-COMP-CS-5RE

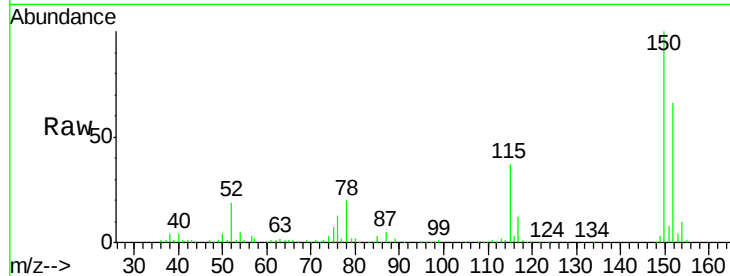
Tgt Ion:152 Resp: 185360

Ion Ratio Lower Upper

152 100

115 56.1 26.4 79.2

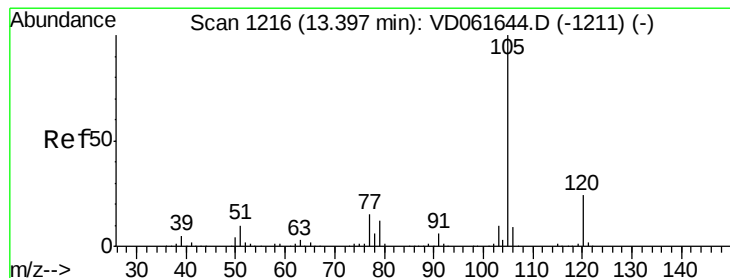
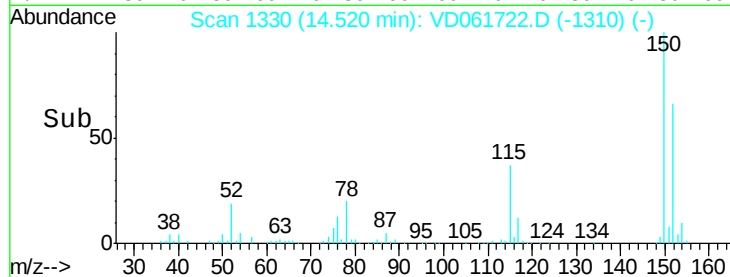
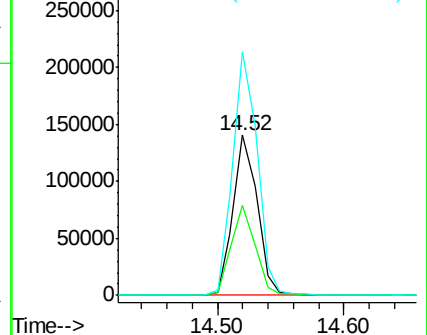
150 152.3 0.0 320.6



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: 7.533 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD061722.D

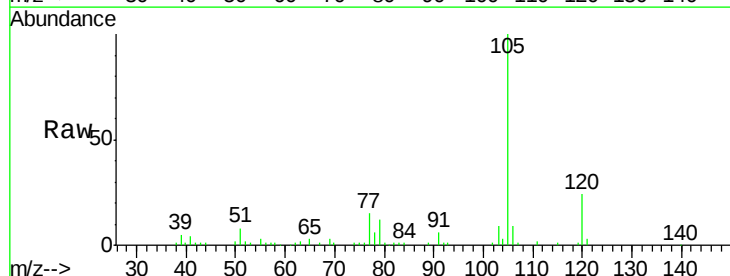
Acq: 10 Apr 2019 19:29

Tgt Ion:105 Resp: 93036

Ion Ratio Lower Upper

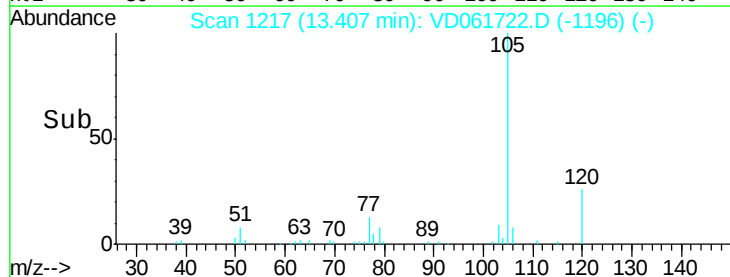
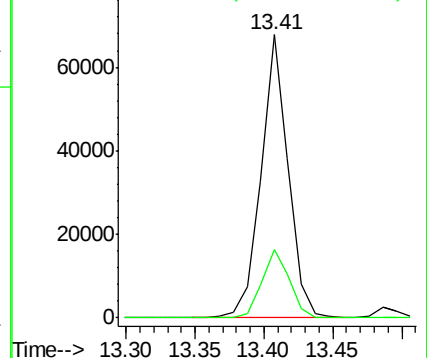
105 100

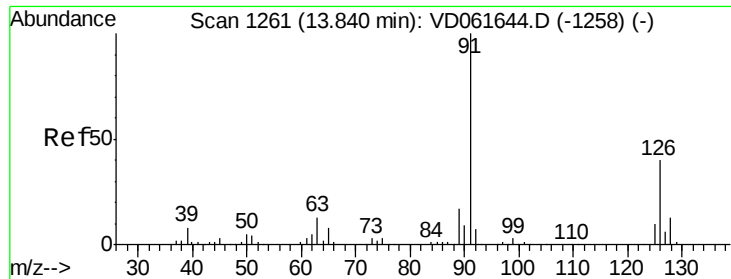
120 24.2 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

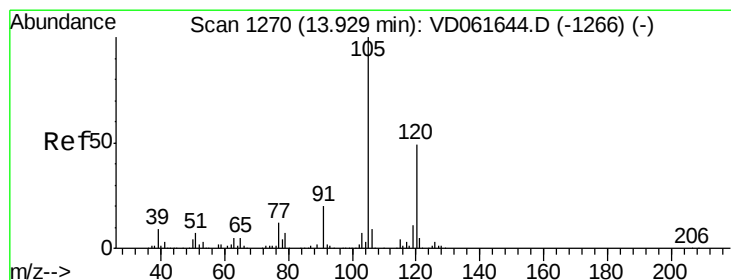
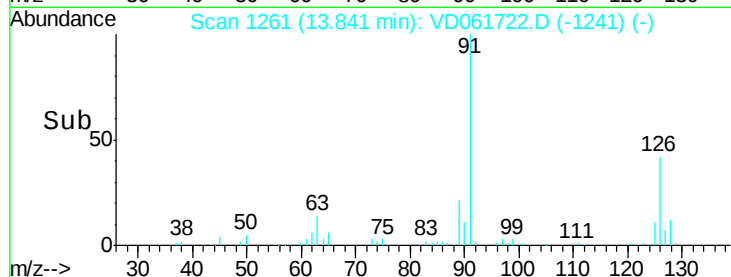
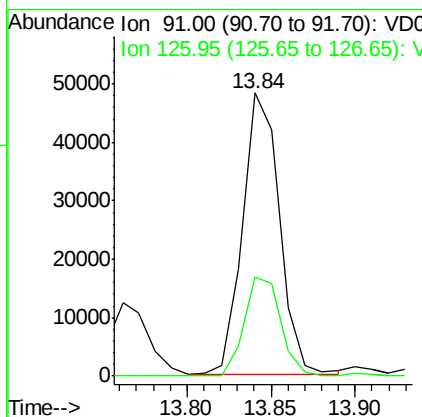
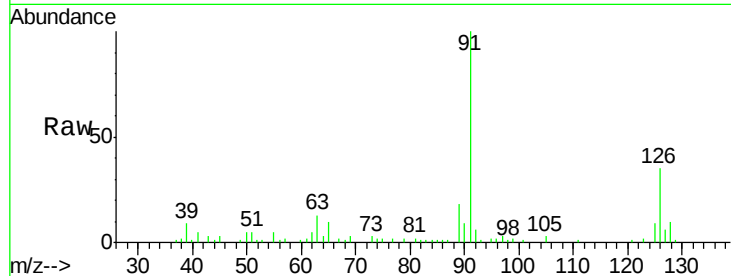




#79
 2-Chlorotoluene
 Concen: 8.612 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VD061722.D
 Acq: 10 Apr 2019 19:29

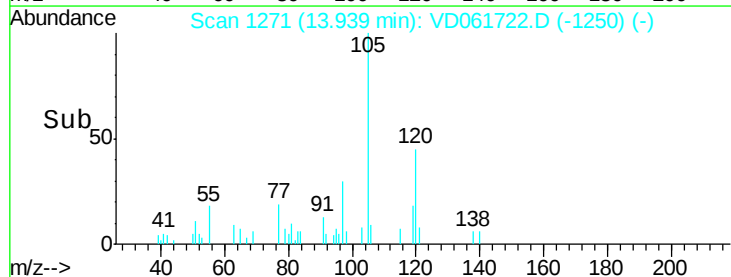
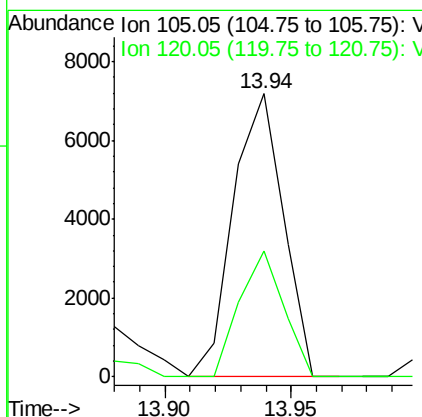
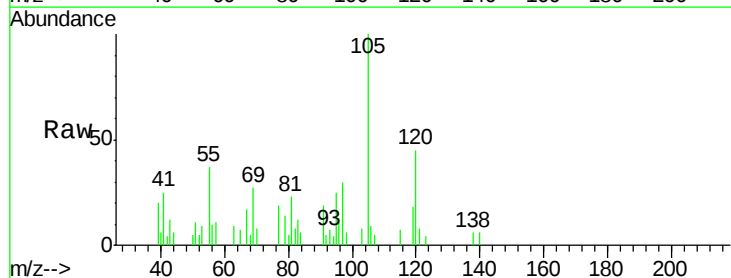
Instrument :
 MSVOA_D
 ClientSampleId :
 20190178-AMND-COMP-CS-5RE

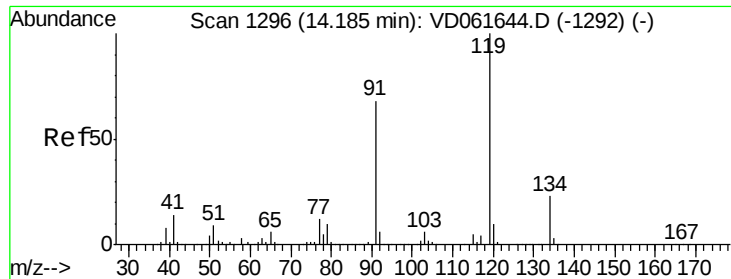
Tgt Ion: 91 Resp: 72762
 Ion Ratio Lower Upper
 91 100
 126 34.9 20.0 59.9



#80
 1,3,5-Trimethylbenzene
 Concen: 1.014 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD061722.D
 Acq: 10 Apr 2019 19:29

Tgt Ion: 105 Resp: 9938
 Ion Ratio Lower Upper
 105 100
 120 44.6 24.4 73.2

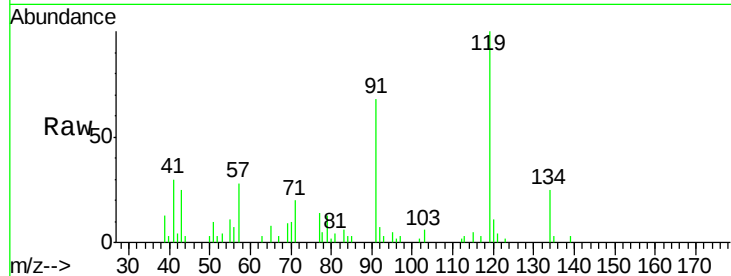




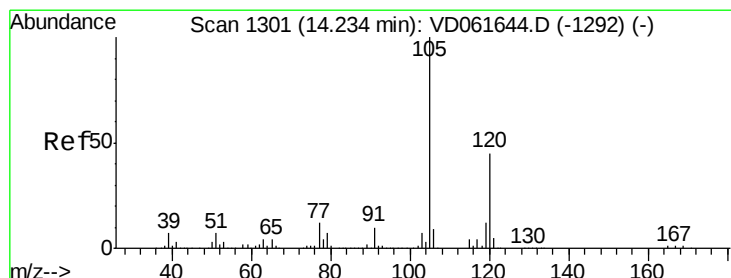
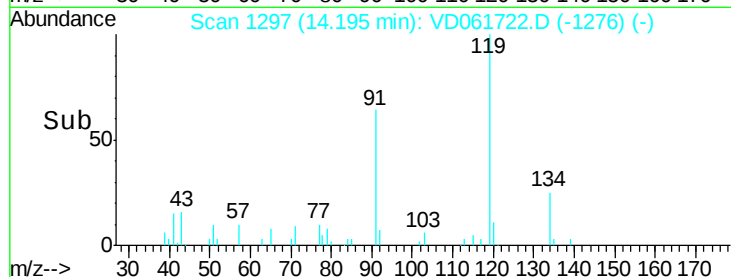
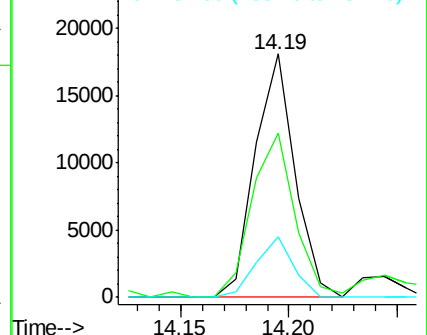
#83
 tert-Butylbenzene
 Concen: 1.971 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. 0.01 min
 Lab File: VD061722.D
 Acq: 10 Apr 2019 19:29

Instrument :
 MSVOA_D
 ClientSampleId :
 20190178-AMND-COMP-CS-5RE

Tgt Ion:119 Resp: 23301
 Ion Ratio Lower Upper
 119 100
 91 67.7 33.9 101.6
 134 25.1 11.6 34.8

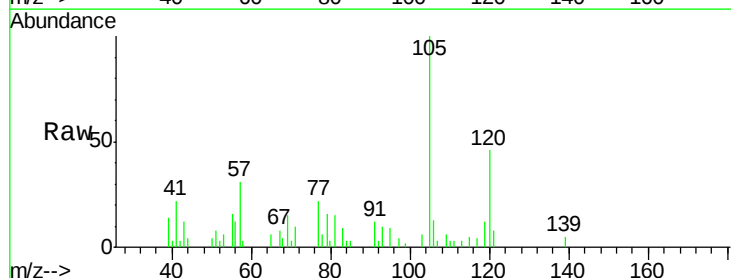


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

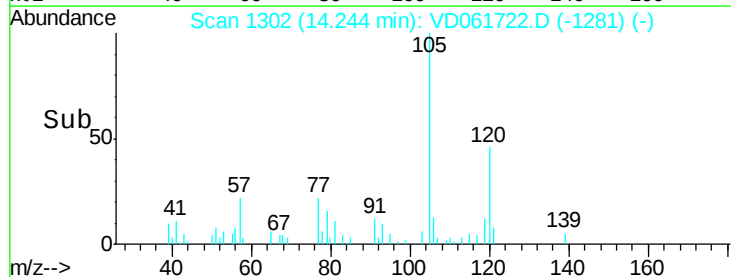
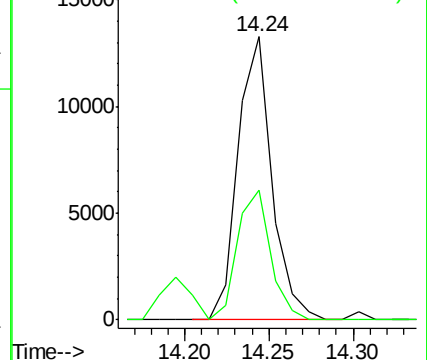


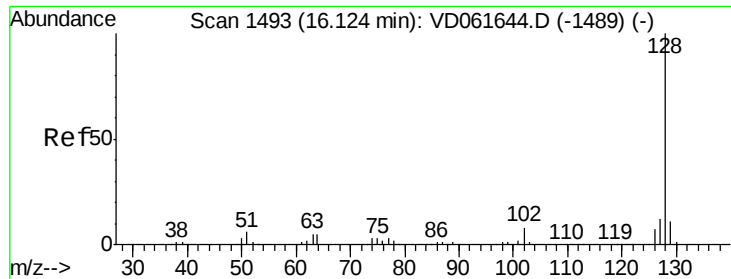
#84
 1,2,4-Trimethylbenzene
 Concen: 1.868 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD061722.D
 Acq: 10 Apr 2019 19:29

Tgt Ion:105 Resp: 18481
 Ion Ratio Lower Upper
 105 100
 120 45.9 22.6 67.8



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V

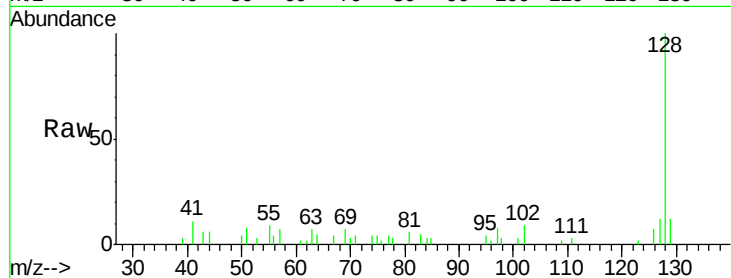




#95
Naphthalene
Concen: 3.895 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD061722.D
Acq: 10 Apr 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :
20190178-AMND-COMP-CS-5RE

Tgt Ion:128 Resp: 15968
Ion Ratio Lower Upper
128 100
127 11.7 9.4 14.2
129 11.6 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

