

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051519\
 Data File : VD062389.D
 Acq On : 15 May 2019 15:42
 Operator : FY/SY
 Sample : K2761-04
 Misc : 5.21g/5mL/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 16 03:57:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	623255	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	964994	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.37	117	580886	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	133545	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	304117	52.51	ug/l	0.04
Spiked Amount			Recovery	=	105.02%	
35) Dibromofluoromethane	7.05	113	988	0.12	ug/l	0.15
Spiked Amount			Recovery	=	0.24%	
50) Toluene-d8	10.42	98	561121	29.07	ug/l	0.03
Spiked Amount			Recovery	=	58.14%	
62) 4-Bromofluorobenzene	13.56	95	172950	22.31	ug/l	0.02
Spiked Amount			Recovery	=	44.62%	

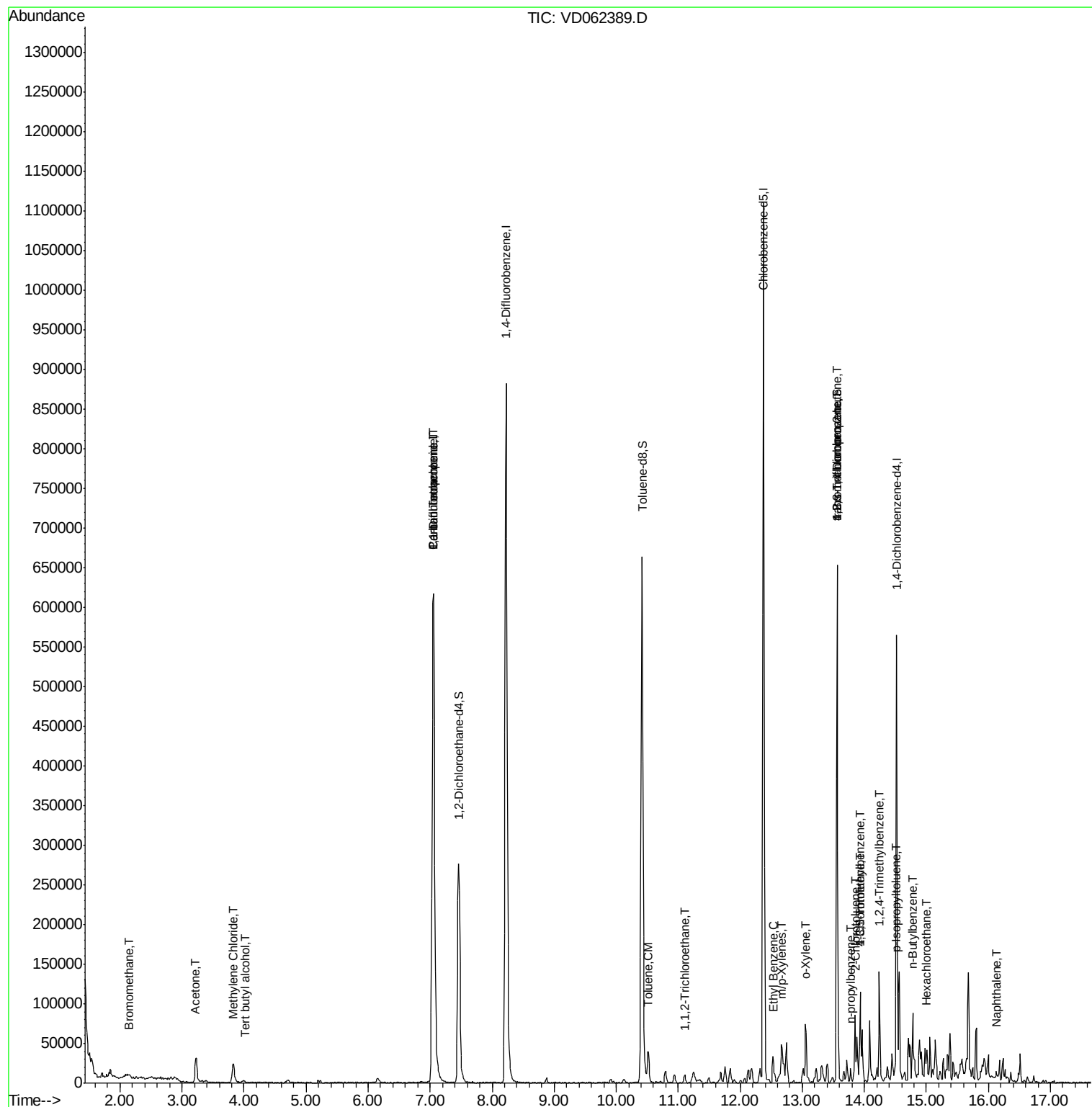
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	1288	1.299	ug/l #	12
11) Tert butyl alcohol	4.02	59	1979	6.694	ug/l #	76
16) Acetone	3.22	43	62347	51.330	ug/l #	79
18) Methyl Acetate	3.60	43	281	Below Cal	#	53
20) Methylene Chloride	3.83	84	15310	3.019	ug/l	97
36) 1,1-Dichloropropene	7.05	75	47422	5.994	ug/l #	46
38) Carbon Tetrachloride	7.05	117	62951	5.748	ug/l #	15
52) Toluene	10.51	92	21475	1.847	ug/l	92
55) 1,1,2-Trichloroethane	11.11	97	5266	1.280	ug/l #	16
67) Ethyl Benzene	12.53	91	21113	1.166	ug/l	95
68) m/p-Xylenes	12.68	106	13235	2.008	ug/l	97
69) o-Xylene	13.05	106	15855	2.588	ug/l	87
76) 1,2,3-Trichloropropane	13.56	75	72218	45.504	ug/l #	44
78) n-propylbenzene	13.78	91	11083	1.161	ug/l	97
79) 2-Chlorotoluene	13.85	91	9650	1.764	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.94	105	45860	6.803	ug/l	86
81) trans-1,4-Dichloro-2-buten	13.56	75	76016	169.663	ug/l #	16
82) 4-Chlorotoluene	13.94	91	6579	1.022	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.24	105	60605	8.959	ug/l	87
86) p-Isopropyltoluene	14.50	119	10346	1.394	ug/l	89
89) n-Butylbenzene	14.78	91	10721	1.609	ug/l #	1
90) Hexachloroethane	15.01	117	2400	1.189	ug/l #	20
95) Naphthalene	16.13	128	6145	1.794	ug/l	95

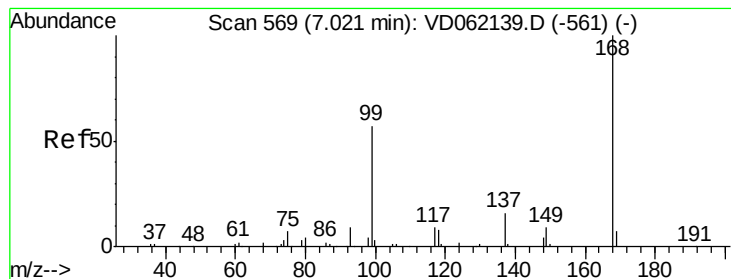
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051519\
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Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.04 min

Lab File: VD062389.D

Acq: 15 May 2019 15:42

Instrument :

MSVOA_D

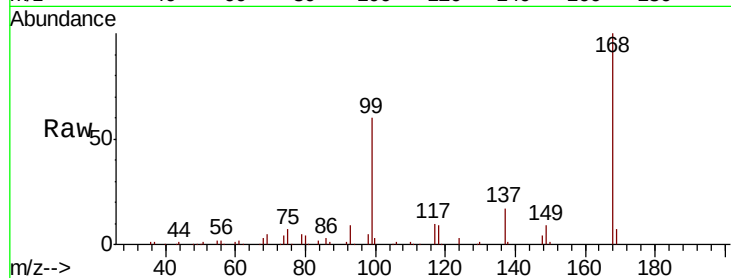
ClientSampleId :

Tot Ion:168 Resp: 623255

Ion Ratio Lower Upper

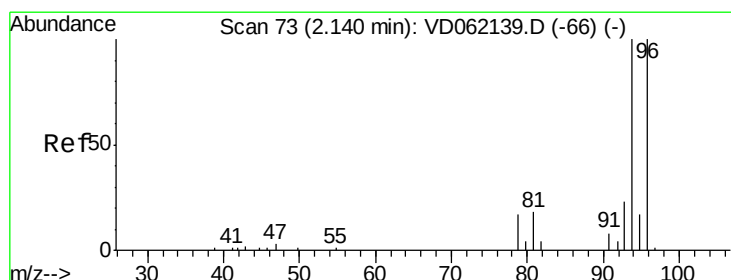
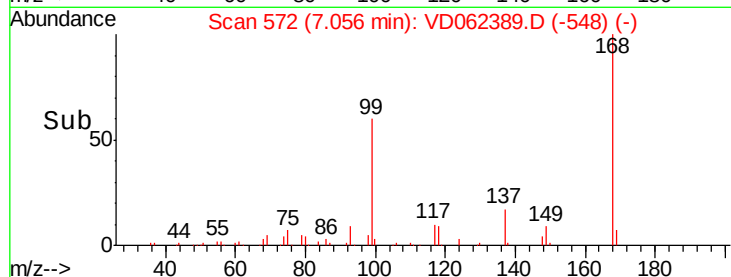
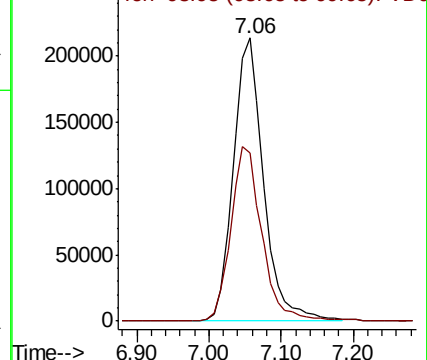
168 100

99 59.6 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.299 ug/l

RT: 2.16 min Scan# 74

Delta R.T. 0.02 min

Lab File: VD062389.D

Acq: 15 May 2019 15:42

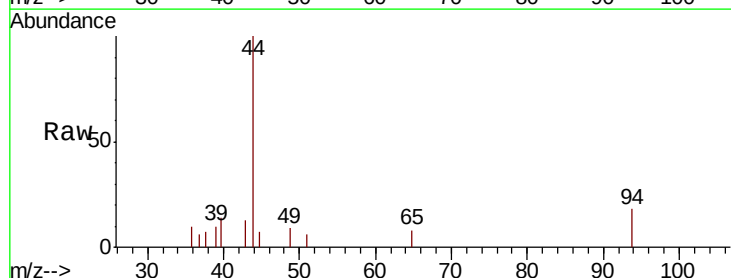
Tgt Ion: 94 Resp: 1288

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

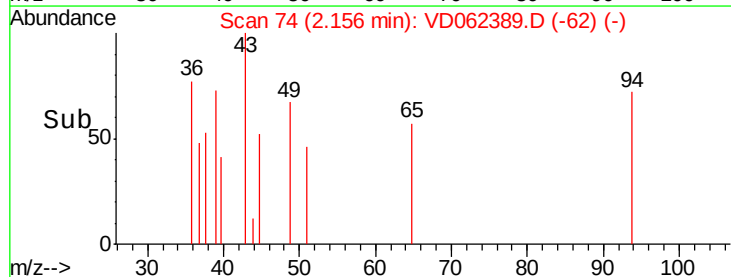
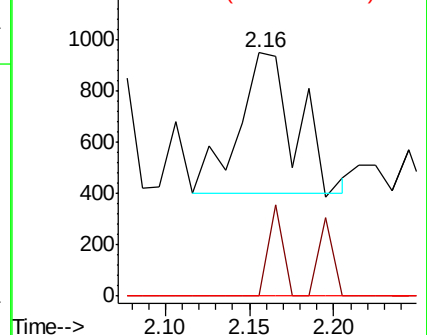
93 0.0 18.5 27.7#

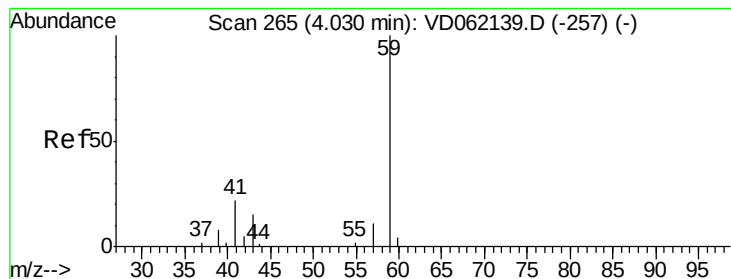


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



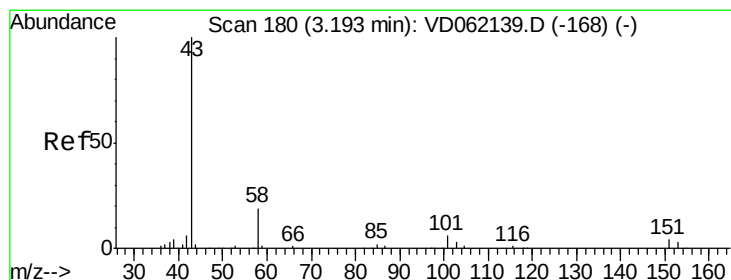
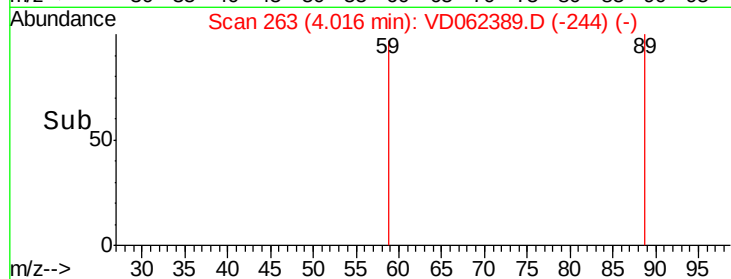
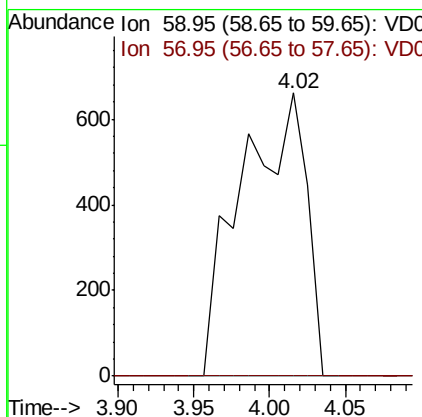
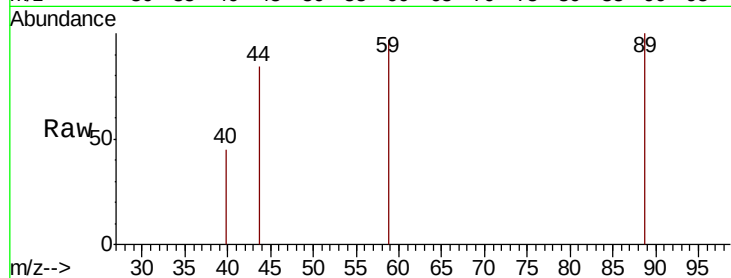


#11

Tert butyl alcohol
 Concen: 6.694 ug/l
 RT: 4.02 min Scan# 263
 Delta R.T. -0.01 min
 Lab File: VD062389.D
 Acq: 15 May 2019 15:42

Instrument :
 MSVOA_D
 ClientSampleId :

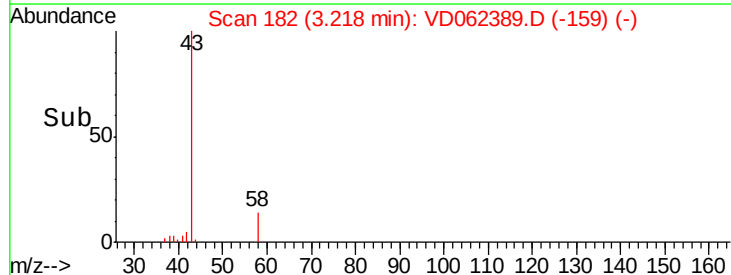
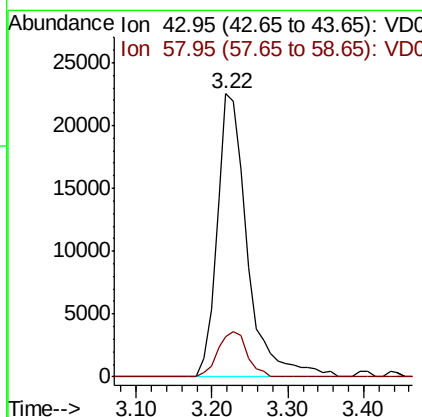
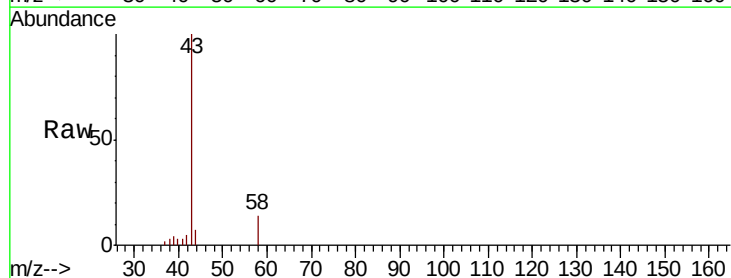
Tot Ion: 59 Resp: 1979
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#

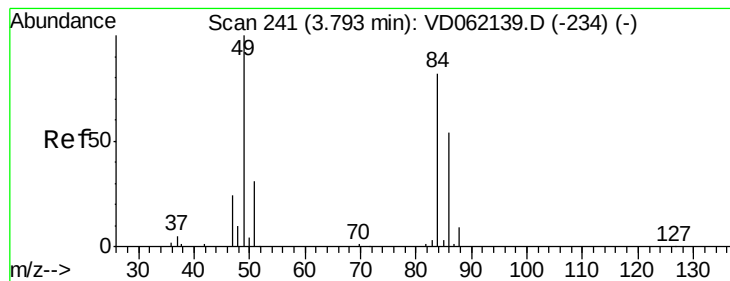


#16

Acetone
 Concen: 51.330 ug/l
 RT: 3.22 min Scan# 182
 Delta R.T. 0.03 min
 Lab File: VD062389.D
 Acq: 15 May 2019 15:42

Tgt Ion: 43 Resp: 62347
 Ion Ratio Lower Upper
 43 100
 58 14.2 19.9 29.9#





#20

Methylene Chloride

Concen: 3.019 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.04 min

Lab File: VD062389.D

Acq: 15 May 2019 15:42

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 84 Resp: 15310

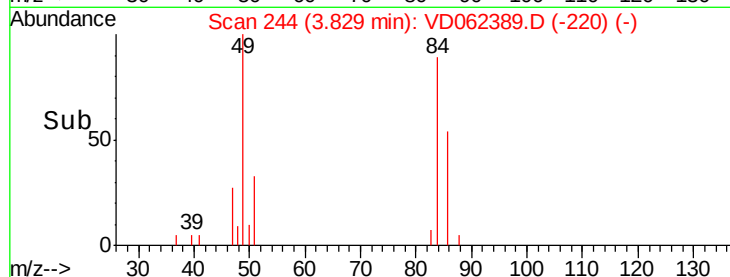
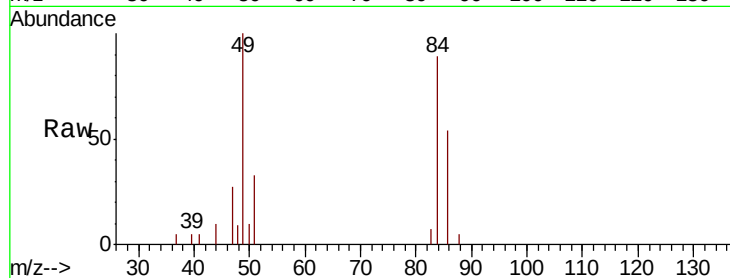
Ion Ratio Lower Upper

84 100

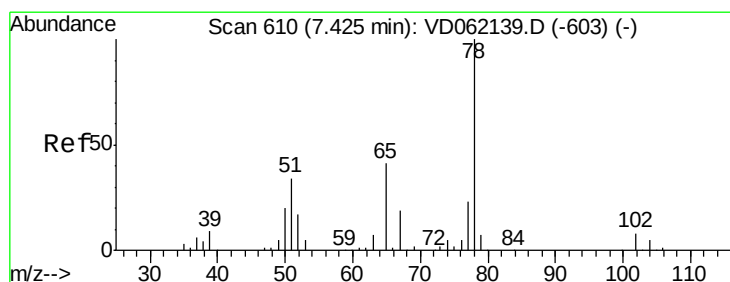
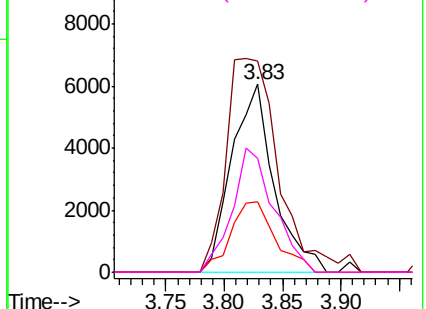
49 112.6 94.0 141.0

51 37.6 29.0 43.4

86 60.6 49.8 74.6



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



#33

1,2-Dichloroethane-d4

Concen: 52.506 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.04 min

Lab File: VD062389.D

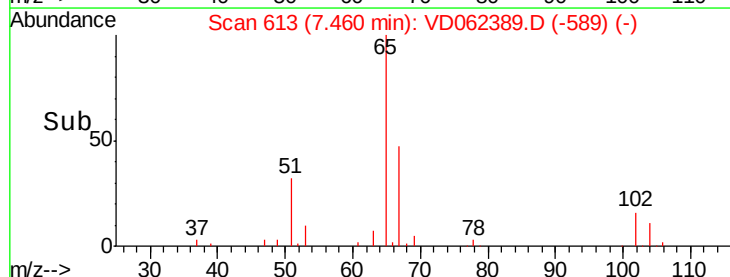
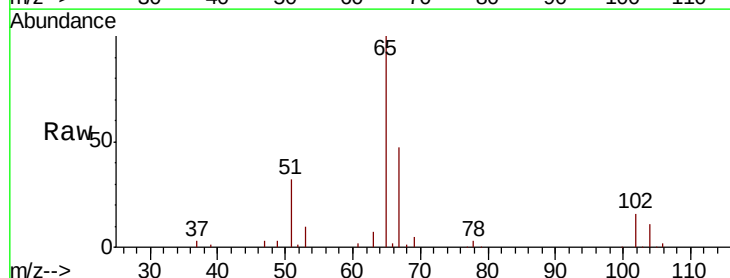
Acq: 15 May 2019 15:42

Tgt Ion: 65 Resp: 304117

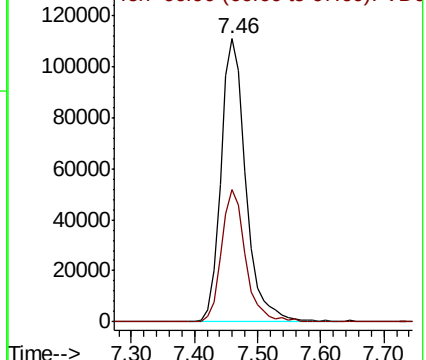
Ion Ratio Lower Upper

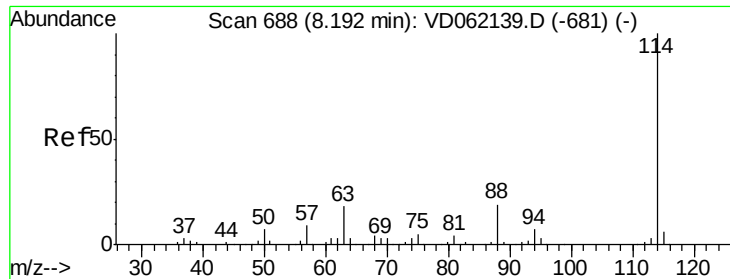
65 100

67 46.8 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

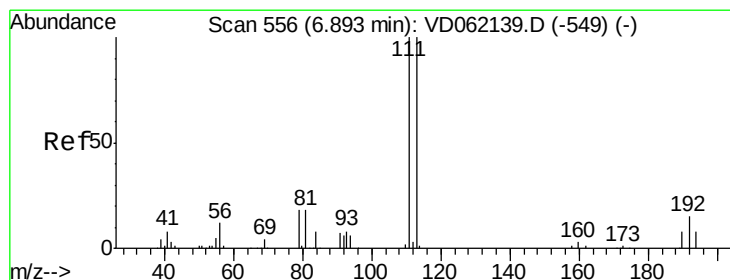
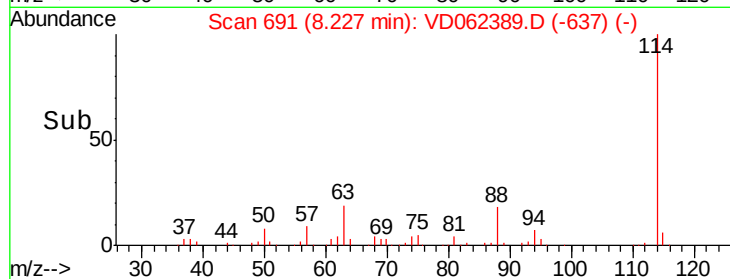
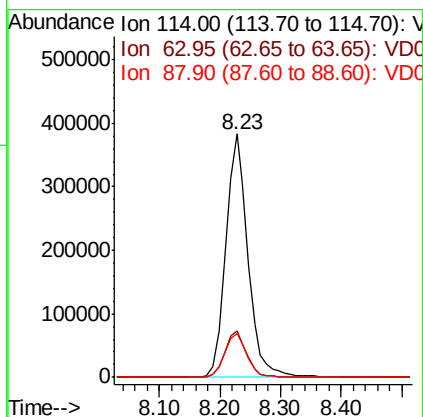
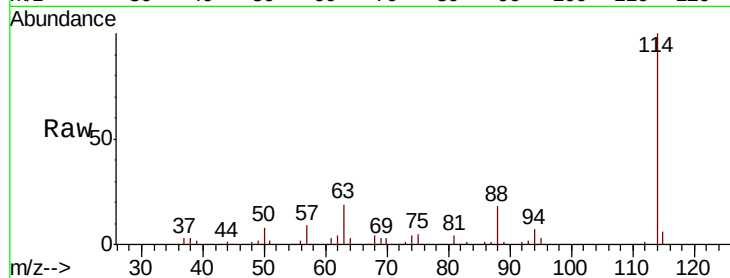




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.04 min
 Lab File: VD062389.D
 Acq: 15 May 2019 15:42

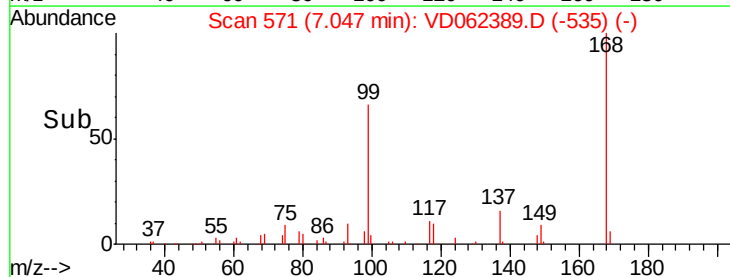
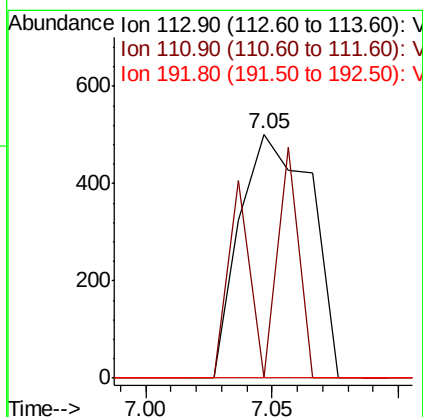
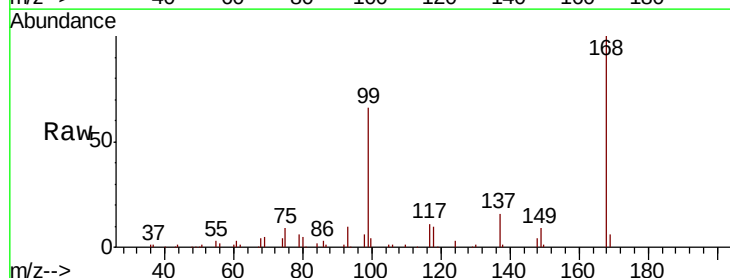
Instrument :
 MSVOA_D
 ClientSampled :

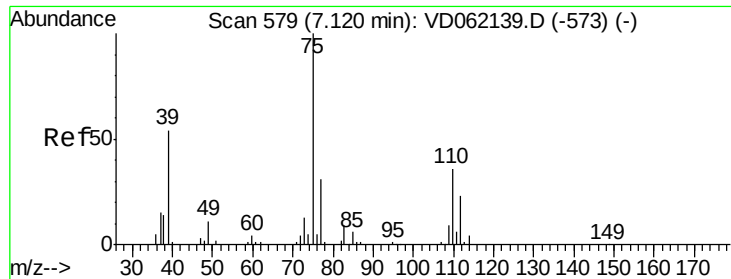
Tot Ion:114 Resp: 964994
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 32.4
 88 18.2 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 0.123 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. 0.15 min
 Lab File: VD062389.D
 Acq: 15 May 2019 15:42

Tgt Ion:113 Resp: 988
 Ion Ratio Lower Upper
 113 100
 111 0.0 78.5 117.7#
 192 0.0 13.0 19.4#

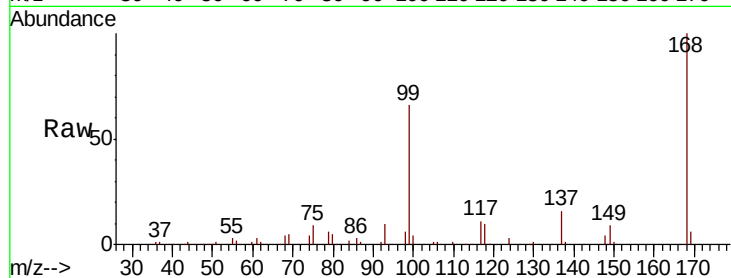




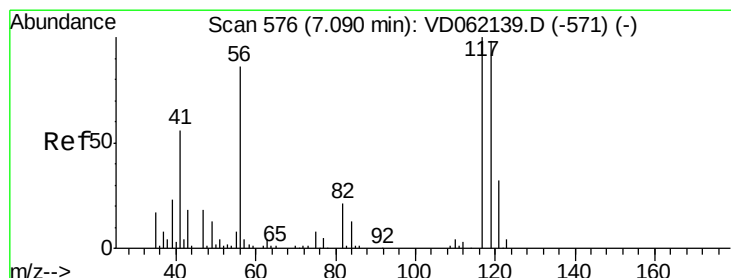
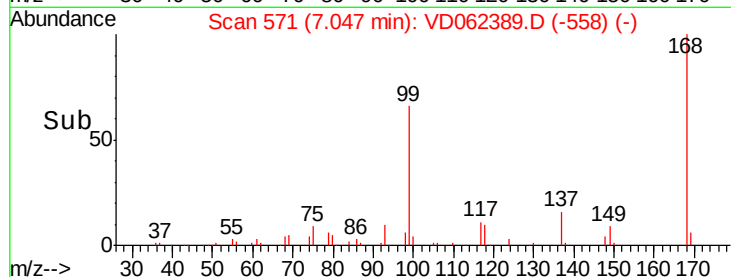
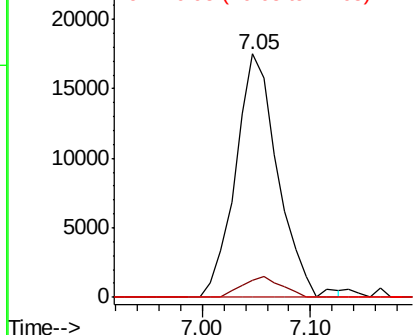
#36
 1,1-Dichloropropene
 Concen: 5.994 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD062389.D
 Acq: 15 May 2019 15:42

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.2	19.1	57.1#
77	0.0	25.6	38.4#

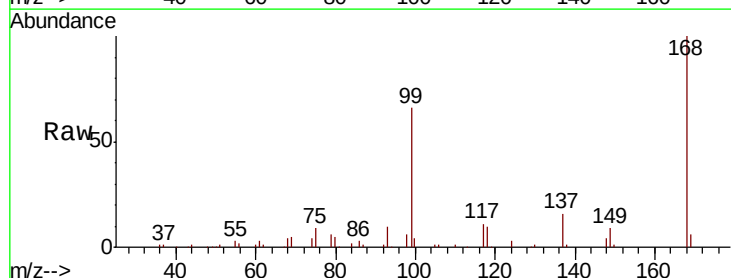


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): V

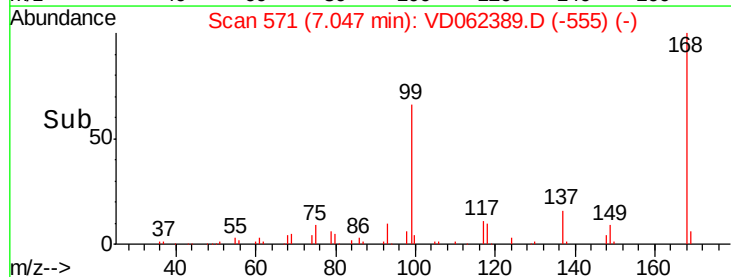
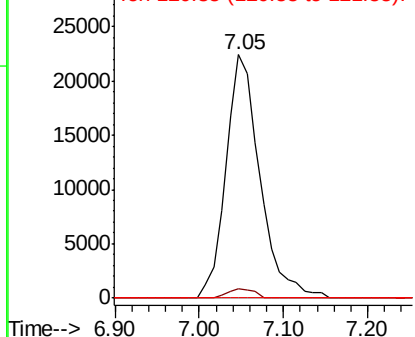


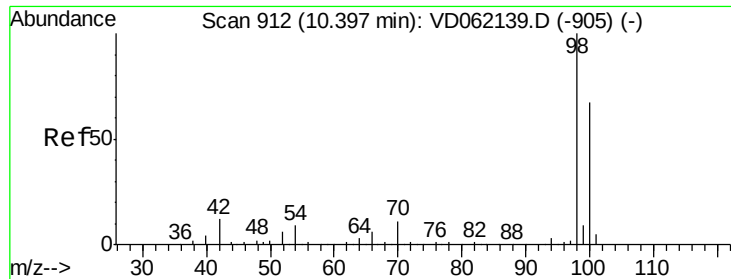
#38
 Carbon Tetrachloride
 Concen: 5.748 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.04 min
 Lab File: VD062389.D
 Acq: 15 May 2019 15:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	75.8	113.8#
121	0.0	25.9	38.9#



Abundance Ion 116.85 (116.55 to 117.55): V
 Ion 118.85 (118.55 to 119.55): V
 Ion 120.85 (120.55 to 121.55): V

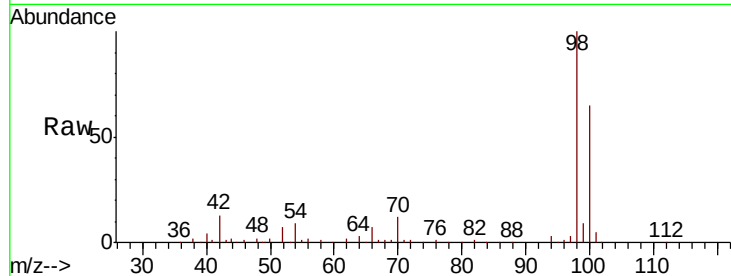




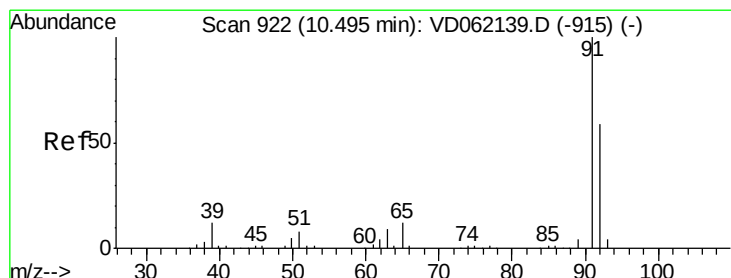
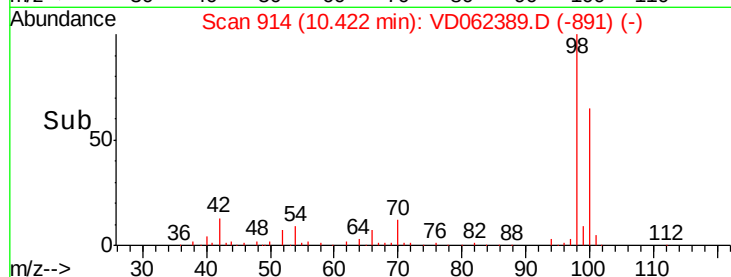
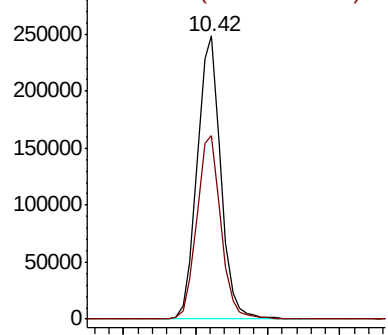
#50
Toluene-d8
Concen: 29.067 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.03 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 561121
Ion Ratio Lower Upper
98 100
100 65.1 53.8 80.8

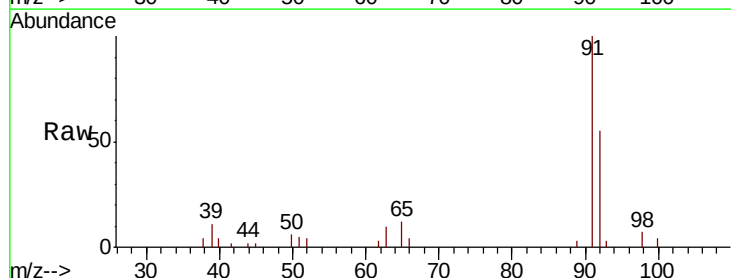


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

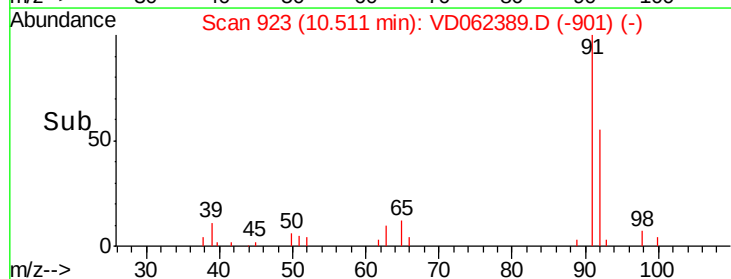
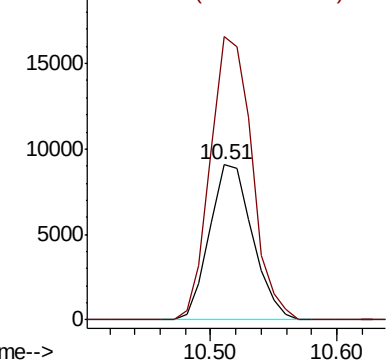


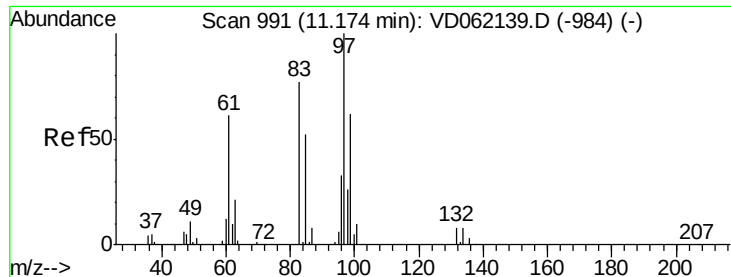
#52
Toluene
Concen: 1.847 ug/l
RT: 10.51 min Scan# 923
Delta R.T. 0.02 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Tgt Ion: 92 Resp: 21475
Ion Ratio Lower Upper
92 100
91 182.3 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

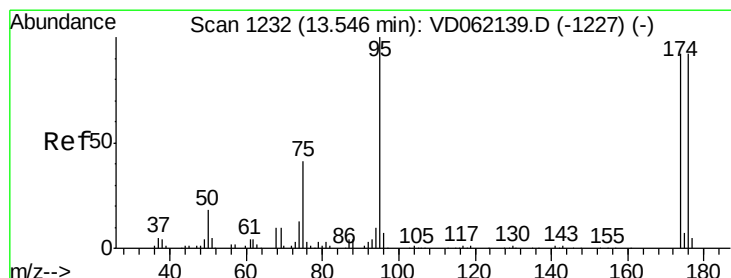
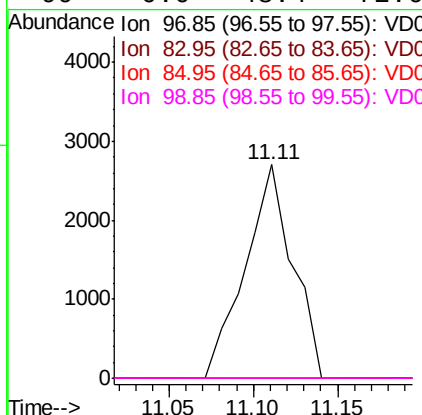
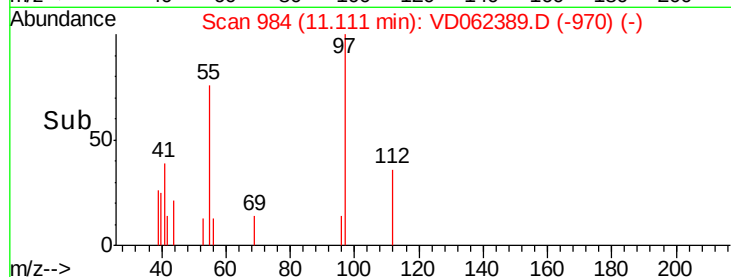
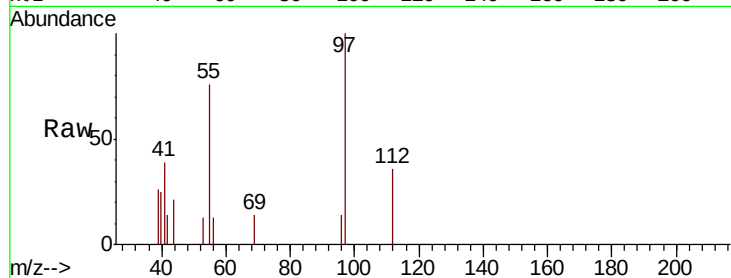




#55
 1,1,2-Trichloroethane
 Concen: 1.280 ug/l
 RT: 11.11 min Scan# 984
 Delta R.T. -0.06 min
 Lab File: VD062389.D
 Acq: 15 May 2019 15:42

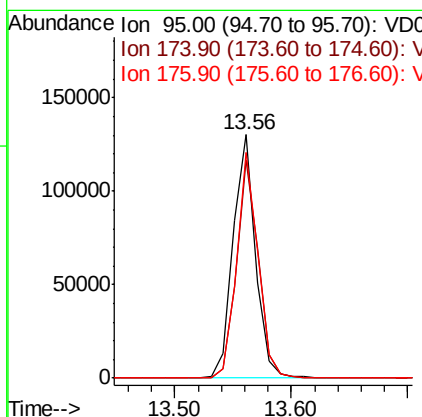
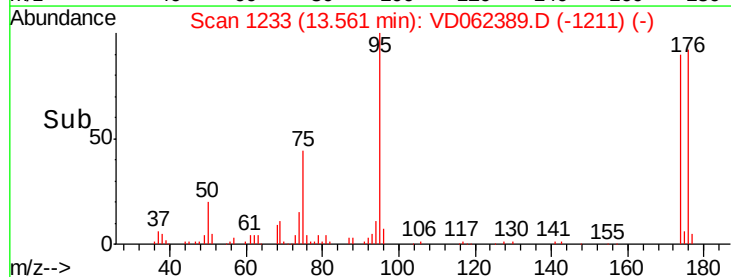
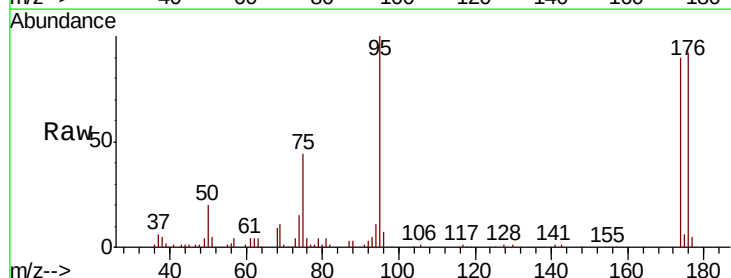
Instrument :
 MSVOA_D
 ClientSampleId :

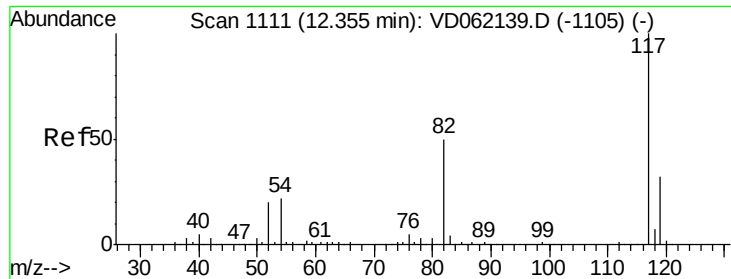
Tot Ion: 97 Resp: 5266
 Ion Ratio Lower Upper
 97 100
 83 0.0 65.7 98.5#
 85 0.0 45.6 68.4#
 99 0.0 48.4 72.6#



#62
 4-Bromofluorobenzene
 Concen: 22.310 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.02 min
 Lab File: VD062389.D
 Acq: 15 May 2019 15:42

Tgt Ion: 95 Resp: 172950
 Ion Ratio Lower Upper
 95 100
 174 89.6 0.0 181.8
 176 92.5 0.0 174.4

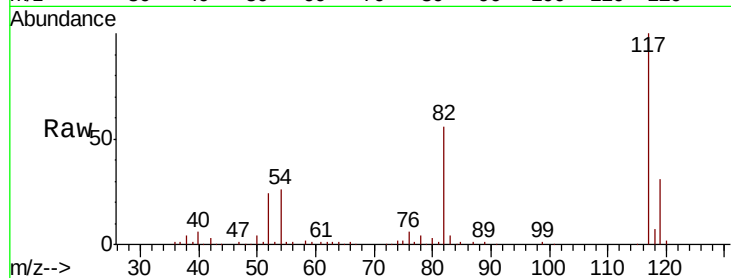




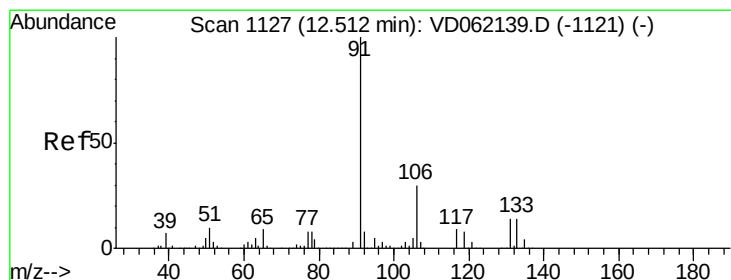
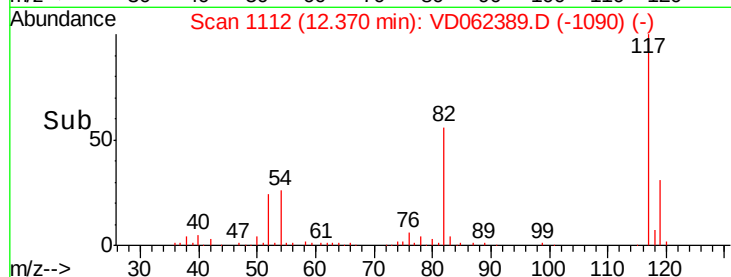
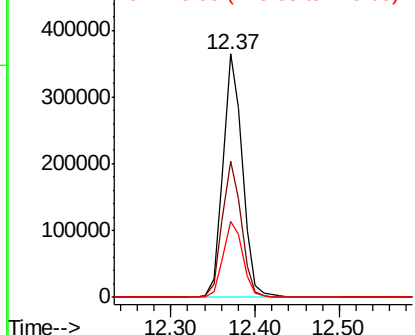
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 580886
Ion Ratio Lower Upper
117 100
82 55.7 36.2 54.2#
119 31.2 26.2 39.4

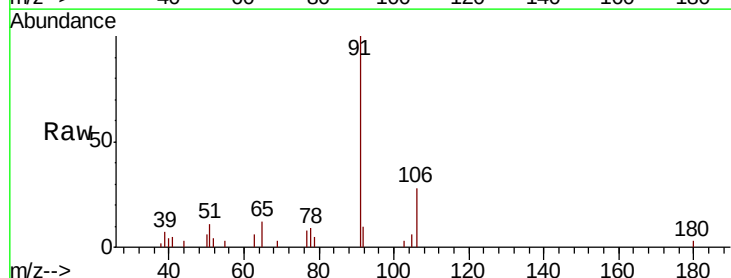


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

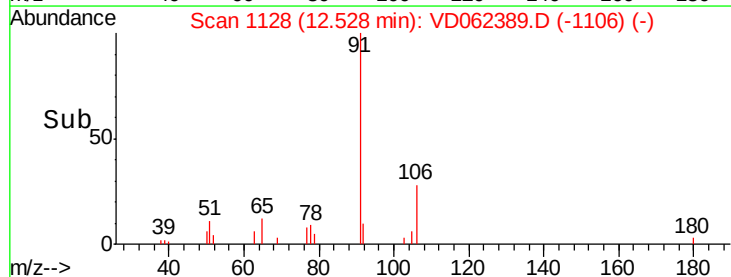
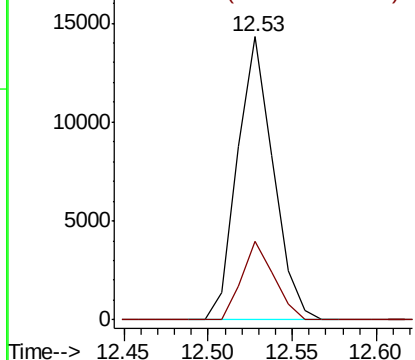


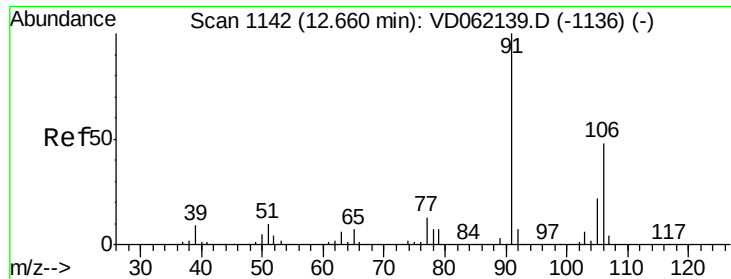
#67
Ethyl Benzene
Concen: 1.166 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Tgt Ion: 91 Resp: 21113
Ion Ratio Lower Upper
91 100
106 27.9 24.7 37.1



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

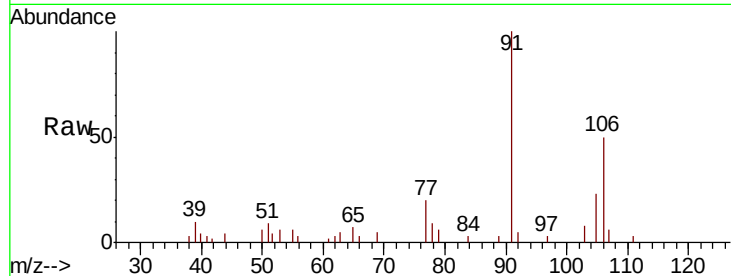




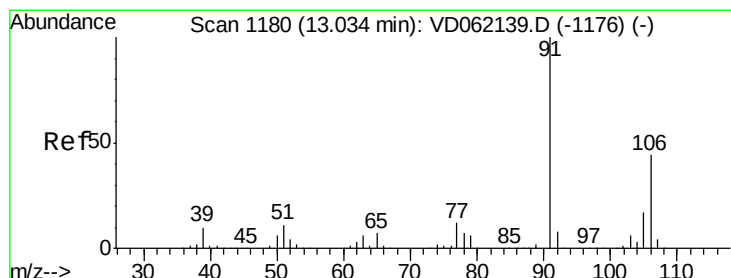
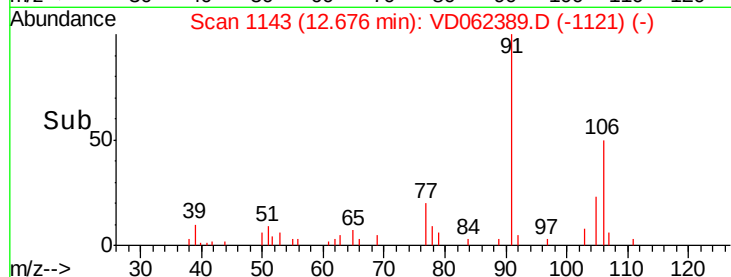
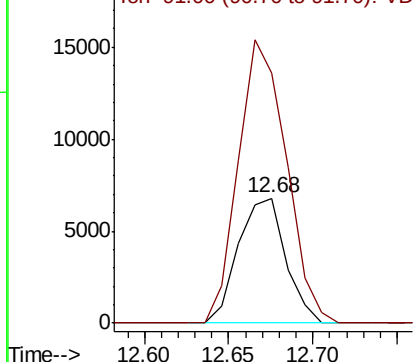
#68
m/p-Xylenes
Concen: 2.008 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.02 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 13235
Ion Ratio Lower Upper
106 100
91 199.7 164.0 246.0

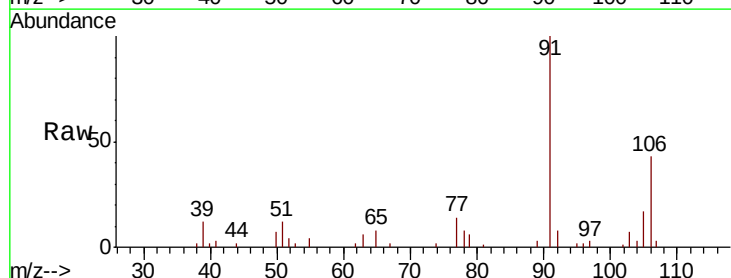


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

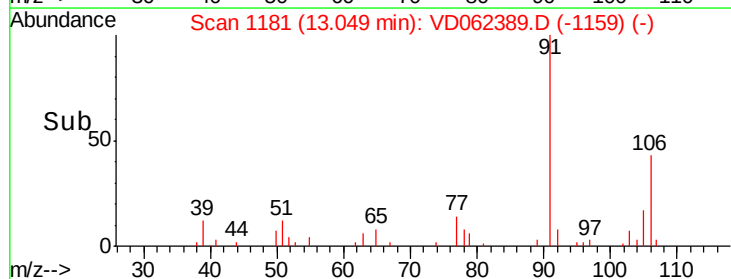
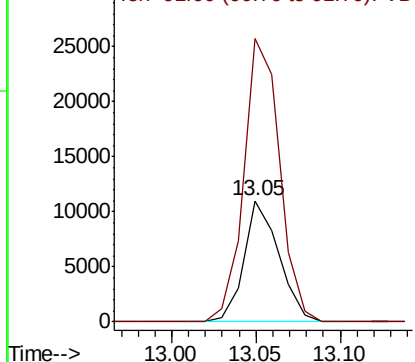


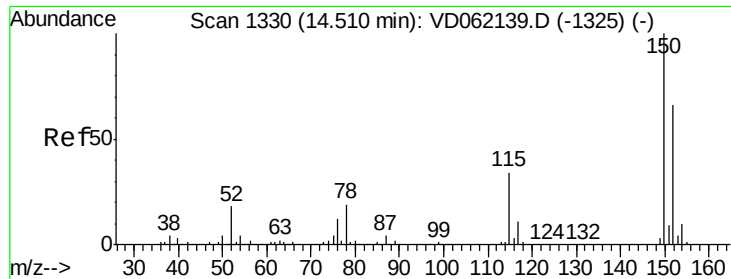
#69
o-Xylene
Concen: 2.588 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.02 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Tgt Ion:106 Resp: 15855
Ion Ratio Lower Upper
106 100
91 233.6 106.7 319.9



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



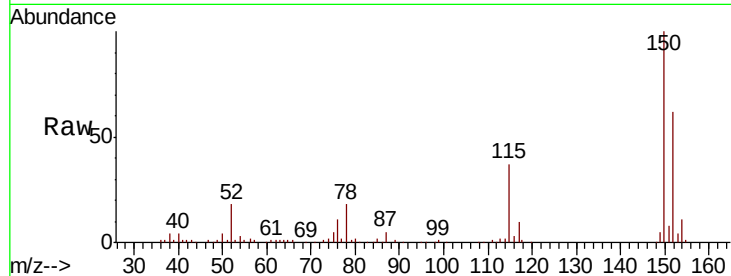


#72

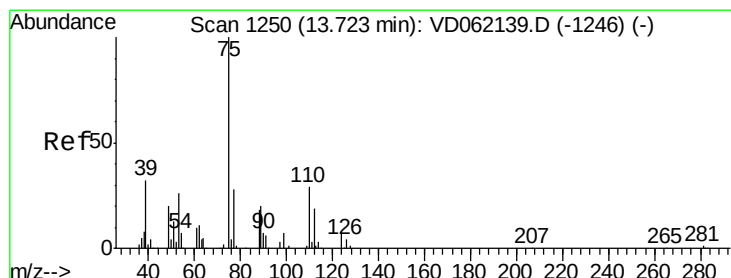
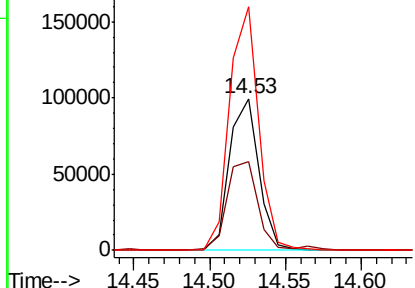
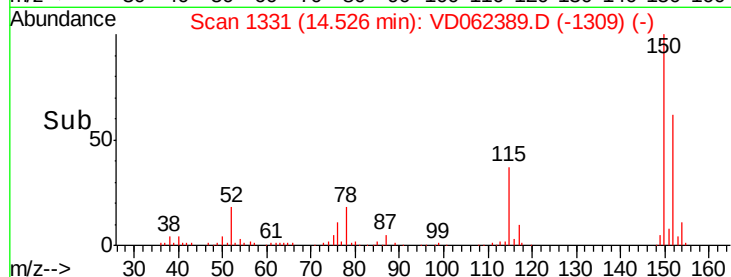
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.02 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 133545
Ion Ratio Lower Upper
152 100
115 58.6 30.9 92.7
150 160.6 0.0 314.8



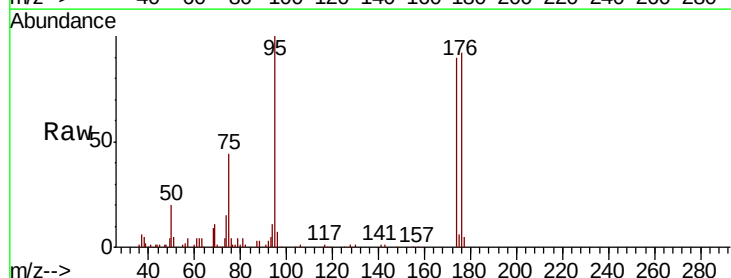
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



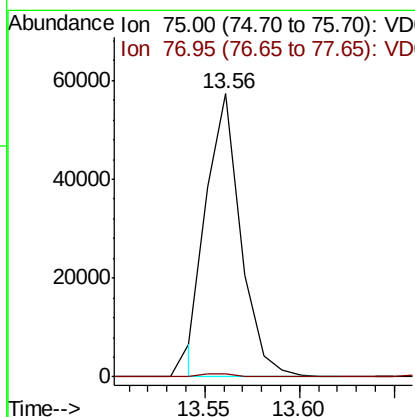
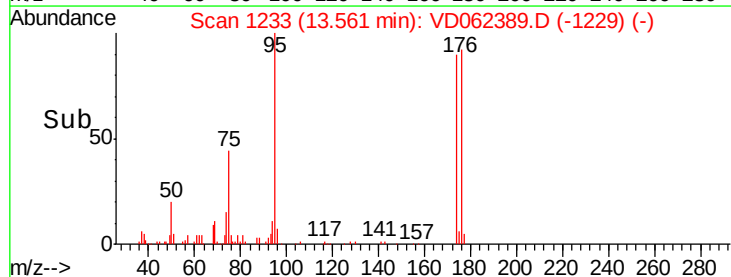
#76

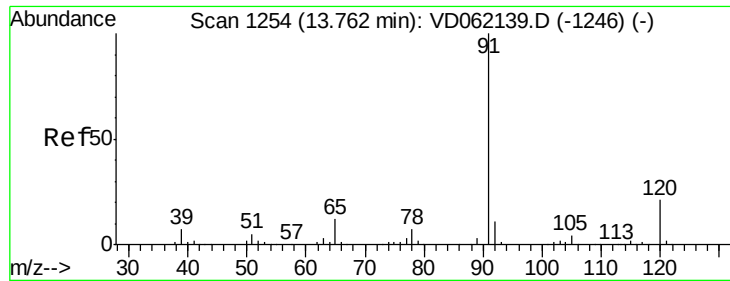
1,2,3-Trichloropropane
Concen: 45.504 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.16 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Tgt Ion: 75 Resp: 72218
Ion Ratio Lower Upper
75 100
77 1.2 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#78

n-propylbenzene

Concen: 1.161 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.02 min

Lab File: VD062389.D

Acq: 15 May 2019 15:42

Instrument :

MSVOA_D

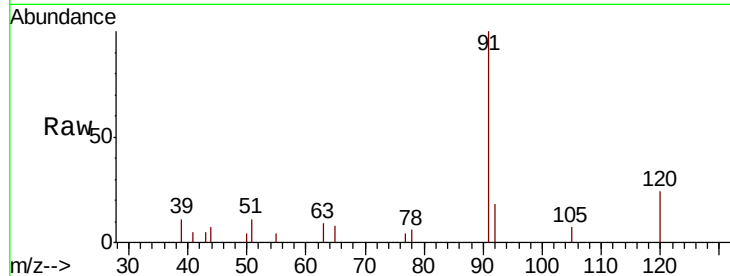
ClientSampled :

Tot Ion: 91 Resp: 11083

Ion Ratio Lower Upper

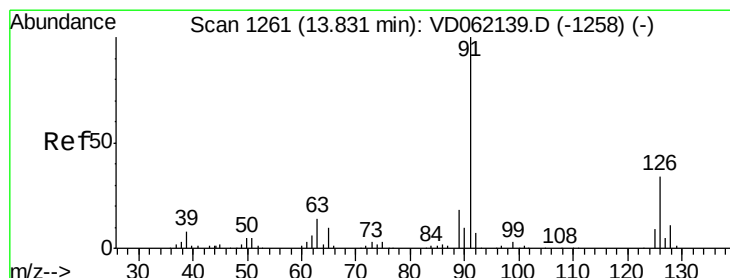
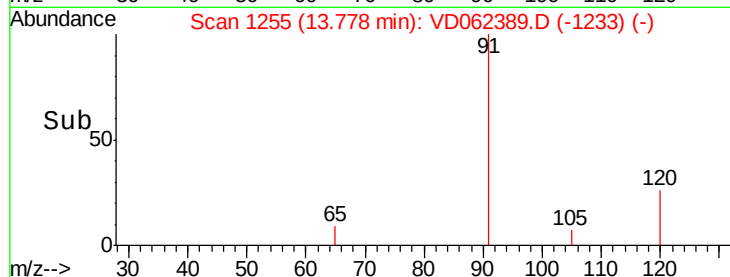
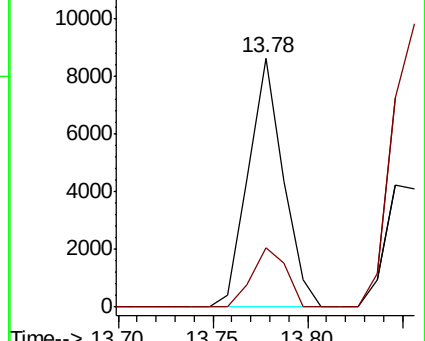
91 100

120 23.6 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 1.764 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.02 min

Lab File: VD062389.D

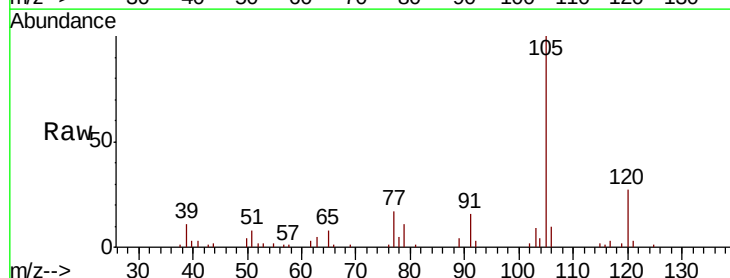
Acq: 15 May 2019 15:42

Tgt Ion: 91 Resp: 9650

Ion Ratio Lower Upper

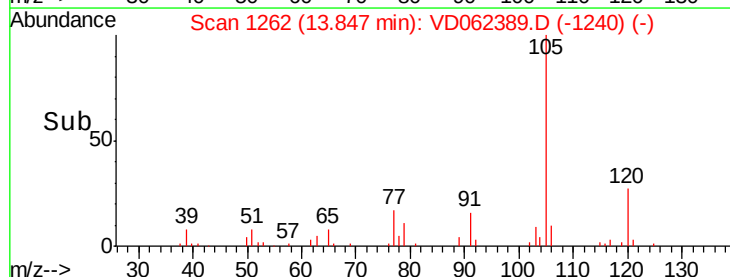
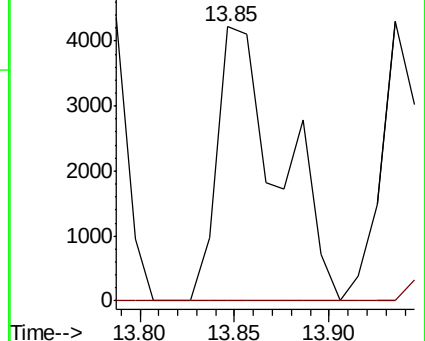
91 100

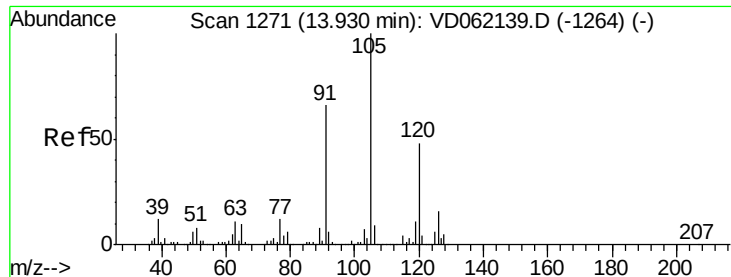
126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#80

1,3,5-Trimethylbenzene

Concen: 6.803 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD062389.D

Acq: 15 May 2019 15:42

Instrument :

MSVOA_D

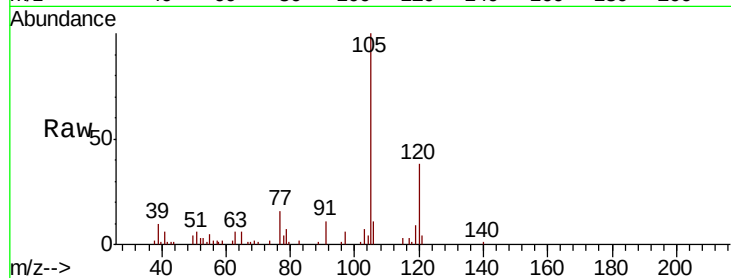
ClientSampleId :

Tot Ion:105 Resp: 45860

Ion Ratio Lower Upper

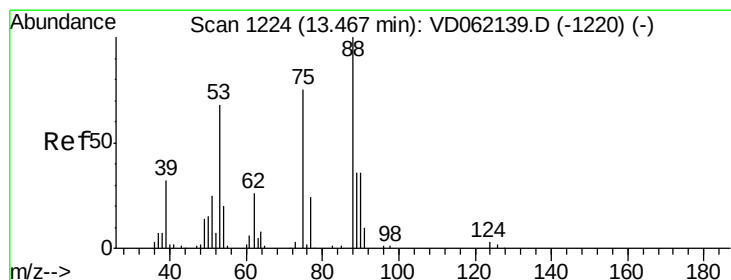
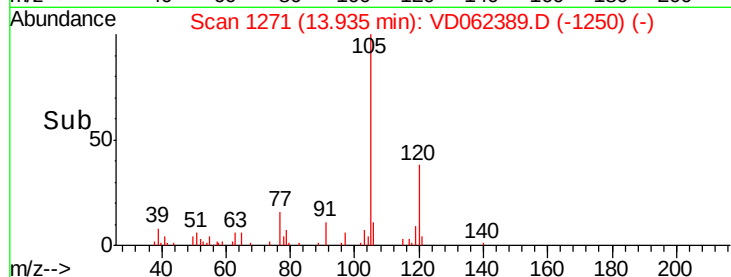
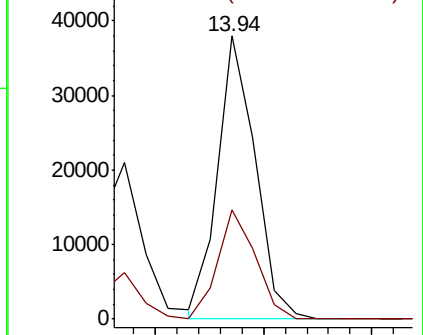
105 100

120 38.5 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 169.663 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062389.D

Acq: 15 May 2019 15:42

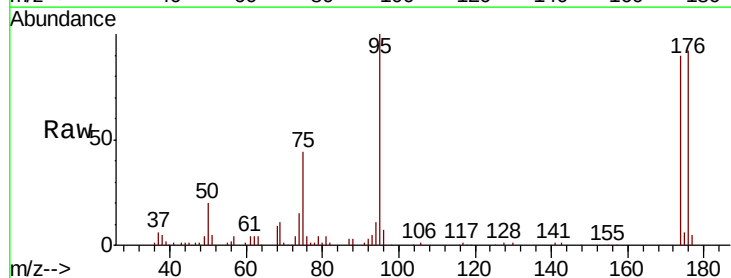
Tgt Ion: 75 Resp: 76016

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

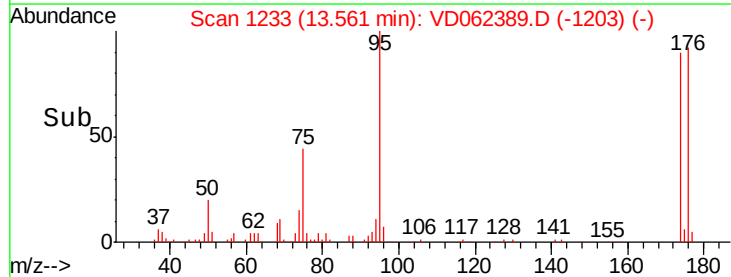
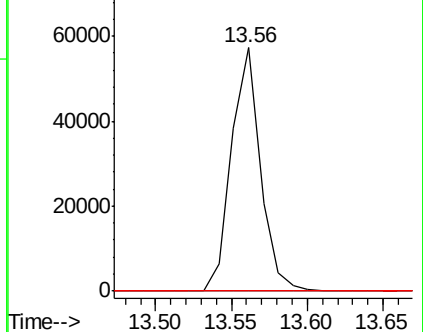
89 0.0 35.0 52.6#

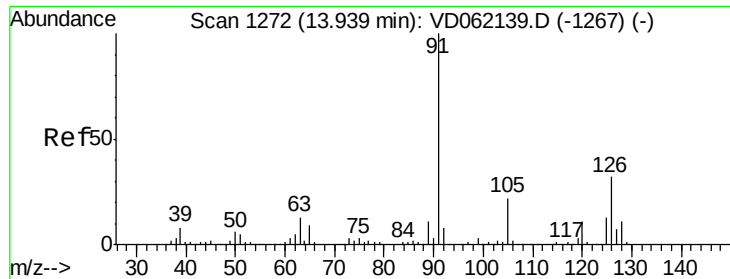


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

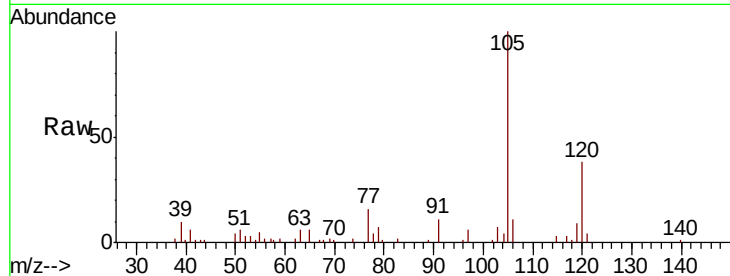




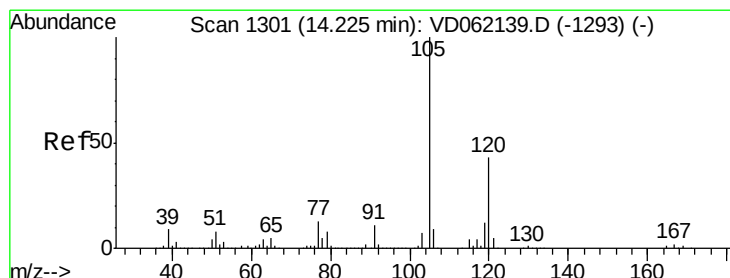
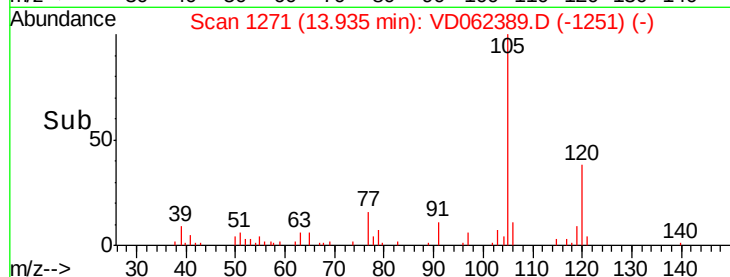
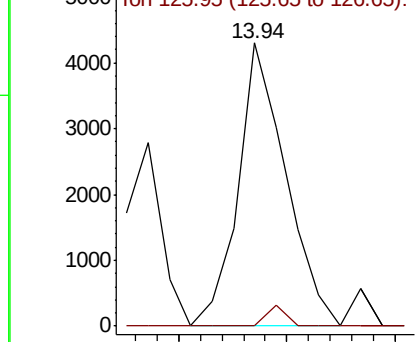
#82
4-Chlorotoluene
Concen: 1.022 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 91 Resp: 6579
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.5#

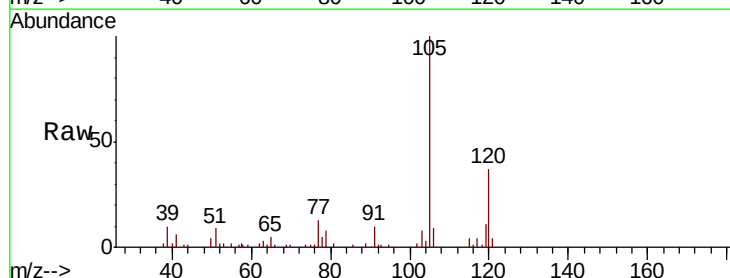


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

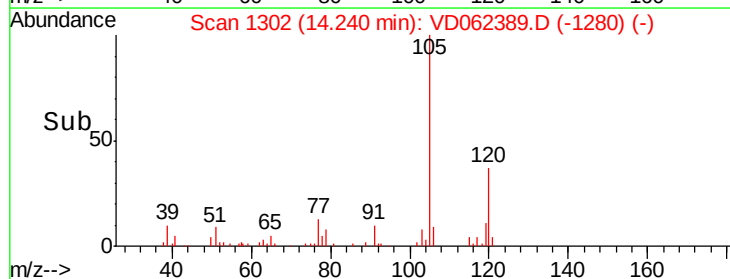
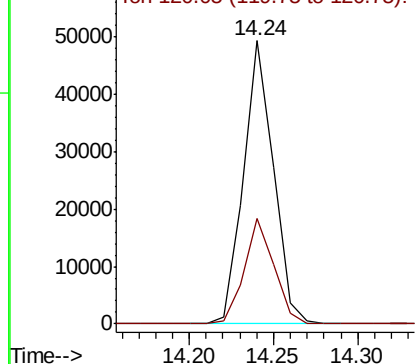


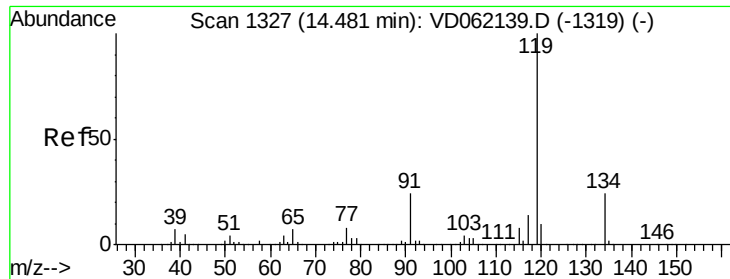
#84
1,2,4-Trimethylbenzene
Concen: 8.959 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.02 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Tgt Ion:105 Resp: 60605
Ion Ratio Lower Upper
105 100
120 37.4 23.1 69.2



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

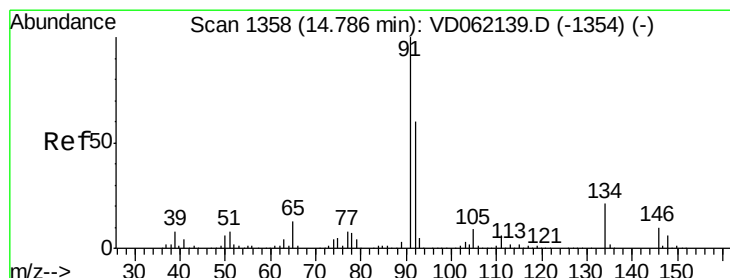
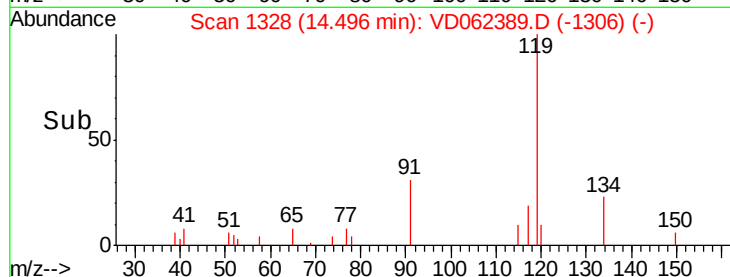
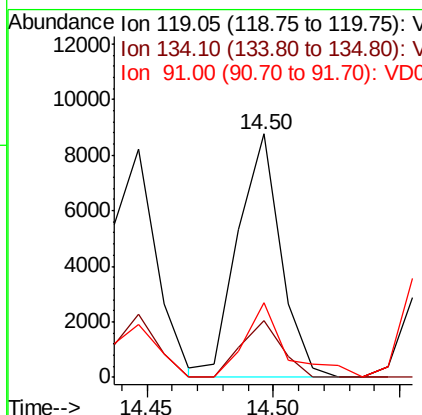
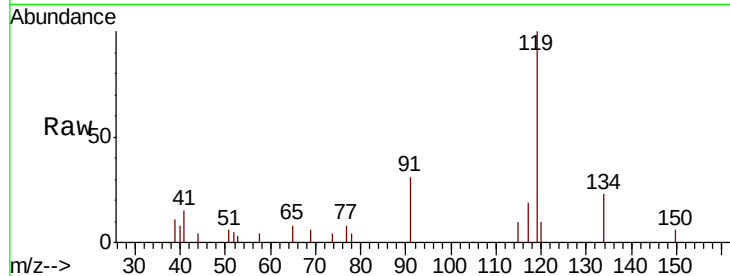




#86
p-Isopropyltoluene
Concen: 1.394 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. 0.02 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

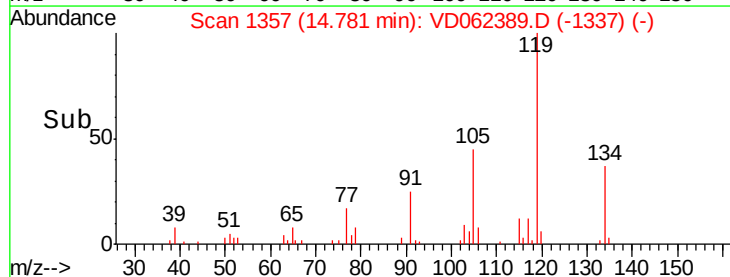
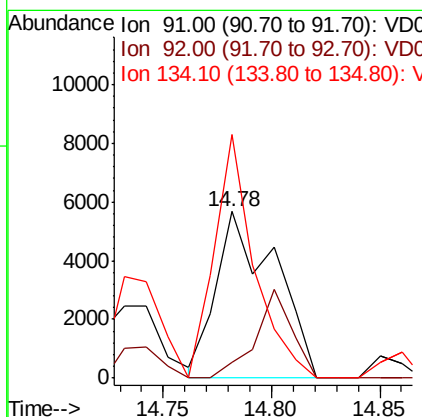
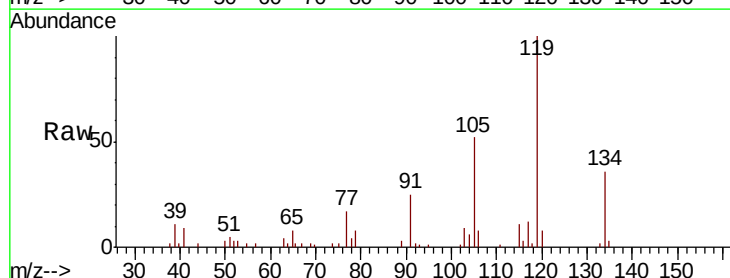
Instrument :
MSVOA_D
ClientSampled :

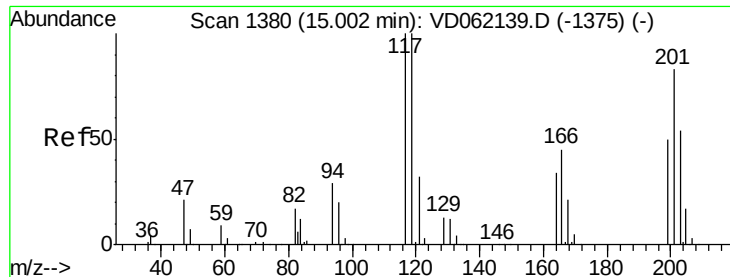
Tot Ion:119 Resp: 10346
Ion Ratio Lower Upper
119 100
134 23.4 12.8 38.3
91 30.7 10.7 32.1



#89
n-Butylbenzene
Concen: 1.609 ug/l
RT: 14.78 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VD062389.D
Acq: 15 May 2019 15:42

Tgt Ion: 91 Resp: 10721
Ion Ratio Lower Upper
91 100
92 9.2 30.3 91.0#
134 146.0 14.5 43.6#





#90

Hexachloroethane

Concen: 1.189 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.01 min

Lab File: VD062389.D

Acq: 15 May 2019 15:42

Instrument :

MSVOA_D

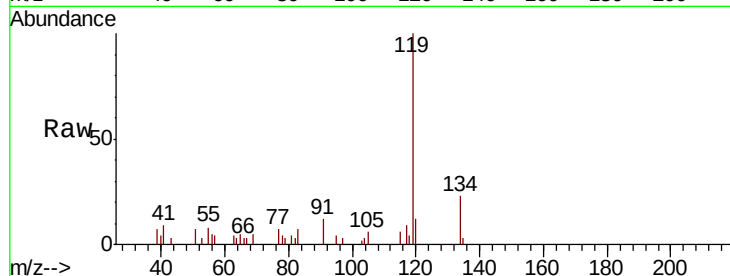
ClientSampled :

Tot Ion:117 Resp: 2400

Ion Ratio Lower Upper

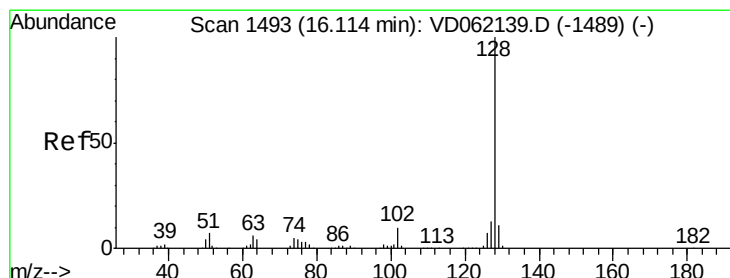
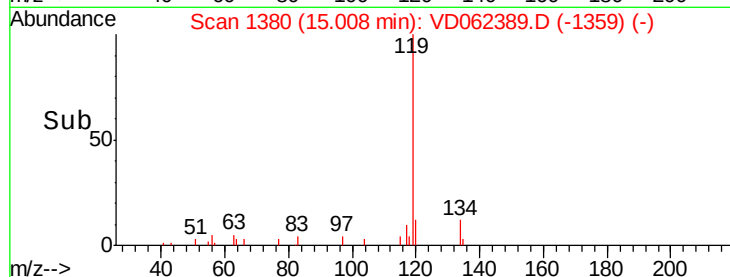
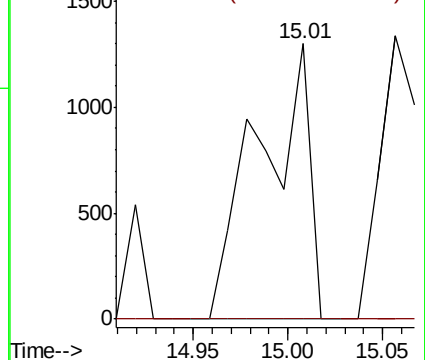
117 100

201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#95

Naphthalene

Concen: 1.794 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.02 min

Lab File: VD062389.D

Acq: 15 May 2019 15:42

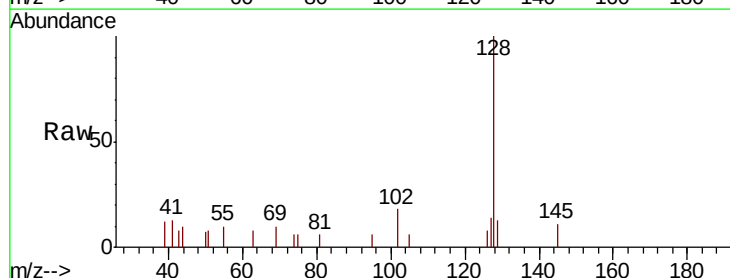
Tgt Ion:128 Resp: 6145

Ion Ratio Lower Upper

128 100

127 14.3 9.8 14.8

129 12.6 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

