

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061319\
 Data File : VD062698.D
 Acq On : 13 Jun 2019 17:22
 Operator : VA/AP
 Sample : K3361-01
 Misc : 5.63g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 14 06:47:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	9515	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	12782	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.38	117	9545	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	3497	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	5974	43.51	ug/l	0.02
Spiked Amount			Recovery	=	87.02%	
35) Dibromofluoromethane	6.93	113	4369	32.41	ug/l	0.01
Spiked Amount			Recovery	=	64.82%	
50) Toluene-d8	10.41	98	7139	25.17	ug/l	0.00
Spiked Amount			Recovery	=	50.34%	
62) 4-Bromofluorobenzene	13.56	95	1953	14.76	ug/l	0.01
Spiked Amount			Recovery	=	29.52%	

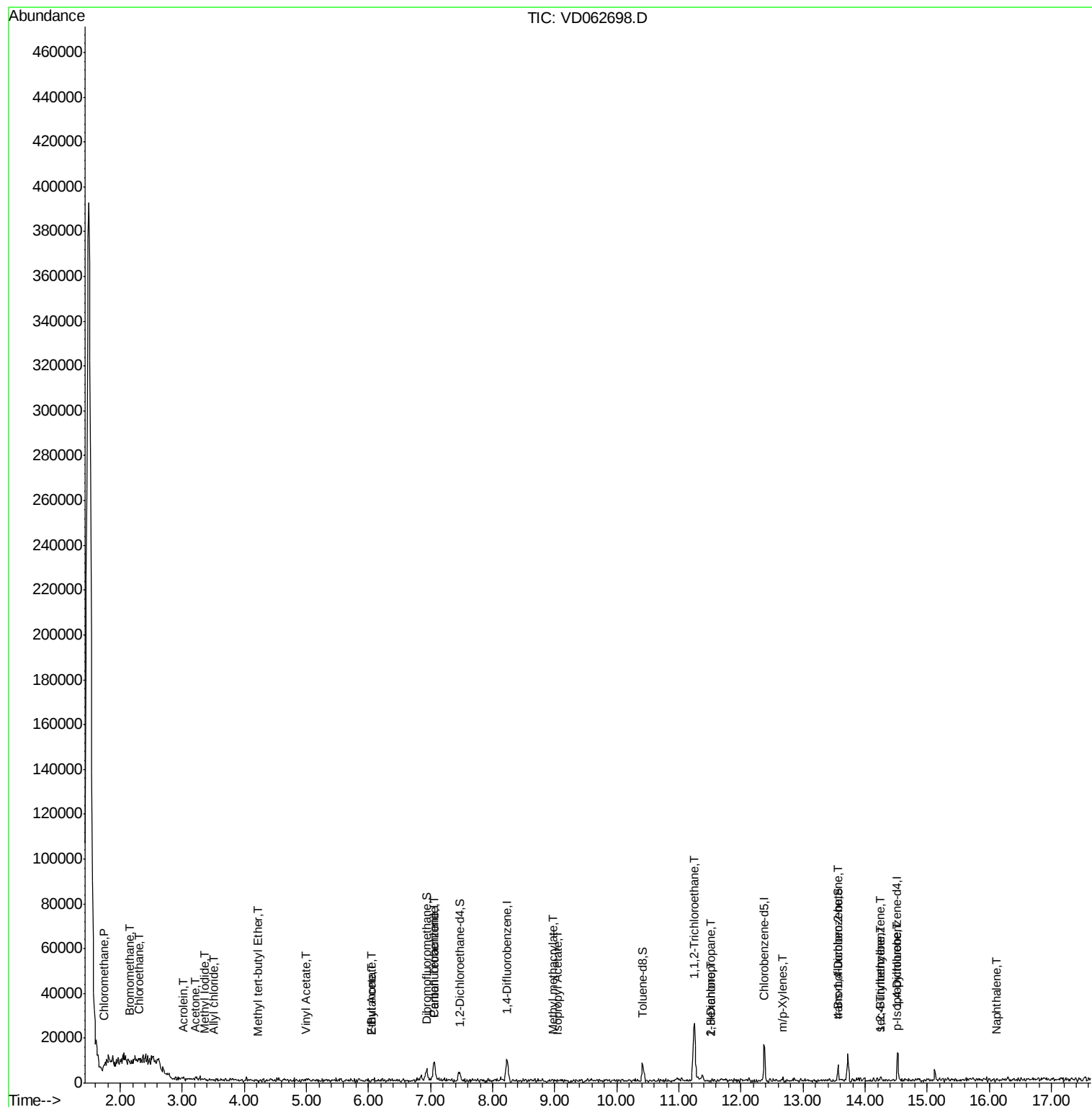
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.74	50	332	3.526	ug/l #	42
5) Bromomethane	2.15	94	224	4.571	ug/l #	11
6) Chloroethane	2.31	64	198	4.131	ug/l #	1
10) Methyl Iodide	3.35	142	553	6.999	ug/l #	24
13) Acrolein	3.02	56	187	103.006	ug/l #	12
14) Allyl chloride	3.50	41	260	2.011	ug/l #	1
16) Acetone	3.22	43	981	39.018	ug/l #	66
19) Methyl tert-butyl Ether	4.22	73	209	1.019	ug/l #	61
23) Vinyl Acetate	5.01	43	208	1.249	ug/l #	81
25) 2-Butanone	6.05	43	190	7.746	ug/l #	61
37) Ethyl Acetate	6.05	43	190	4.174	ug/l #	74
38) Carbon Tetrachloride	7.05	117	869	3.758	ug/l #	14
43) Isopropyl Acetate	9.05	43	193	2.500	ug/l #	52
48) Methyl methacrylate	8.97	41	193	3.461	ug/l #	19
55) 1,1,2-Trichloroethane	11.26	97	217	3.295	ug/l #	17
57) 1,3-Dichloropropane	11.51	76	200	1.959	ug/l #	44
59) 2-Hexanone	11.51	43	211	5.252	ug/l #	32
68) m/p-Xylenes	12.68	106	450	3.419	ug/l #	52
81) trans-1,4-Dichloro-2-buten	13.56	75	1409	96.292	ug/l #	1
84) 1,2,4-Trimethylbenzene	14.24	105	734	3.403	ug/l #	35
85) sec-Butylbenzene	14.24	105	734	2.913	ug/l #	60
86) p-Isopropyltoluene	14.50	119	260	1.060	ug/l #	50
95) Naphthalene	16.12	128	258	5.342	ug/l #	71

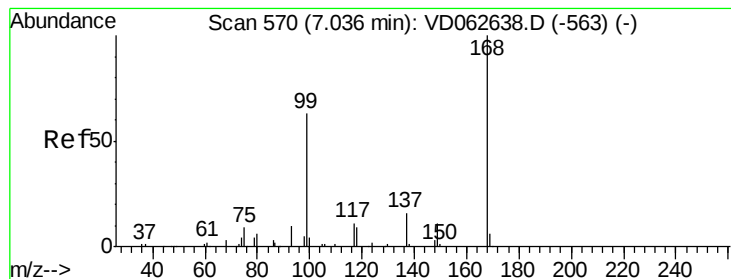
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061319\
Data File : VD062698.D
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Quant Time: Jun 14 06:47:50 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062698.D

Acq: 13 Jun 2019 17:22

Instrument :

MSVOA_D

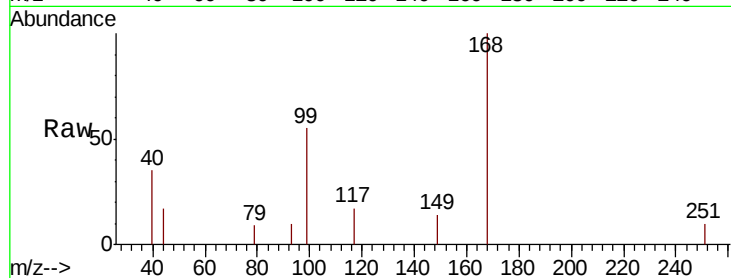
ClientSampleId :

Tot Ion:168 Resp: 9515

Ion Ratio Lower Upper

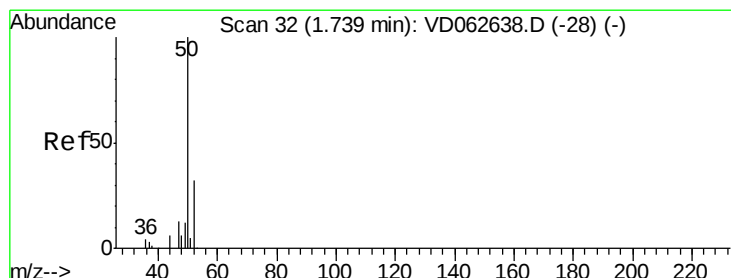
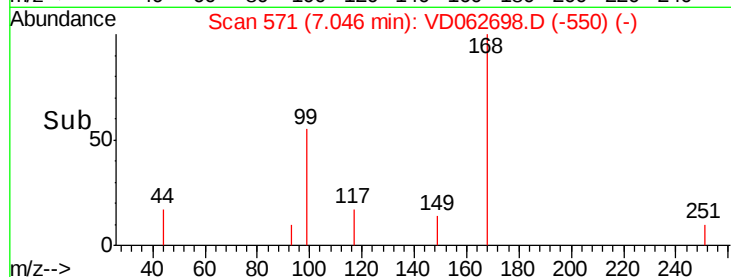
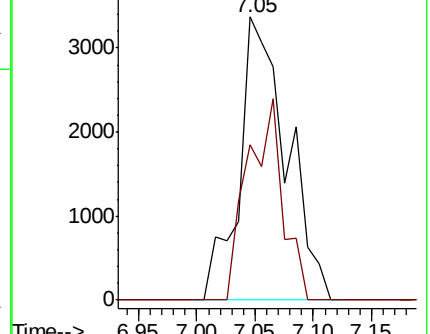
168 100

99 54.8 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 3.526 ug/l

RT: 1.74 min Scan# 32

Delta R.T. 0.00 min

Lab File: VD062698.D

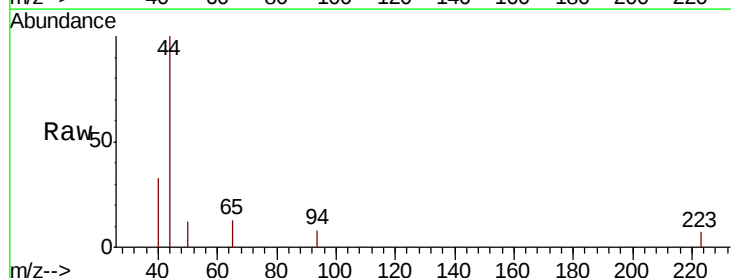
Acq: 13 Jun 2019 17:22

Tgt Ion: 50 Resp: 332

Ion Ratio Lower Upper

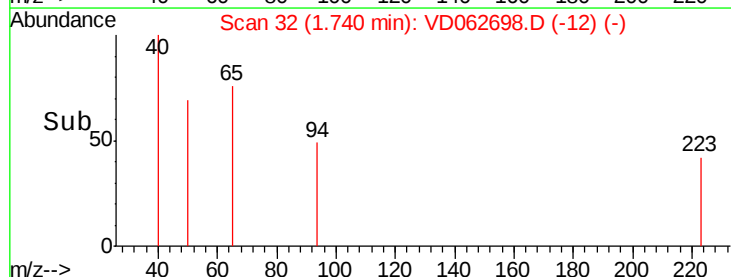
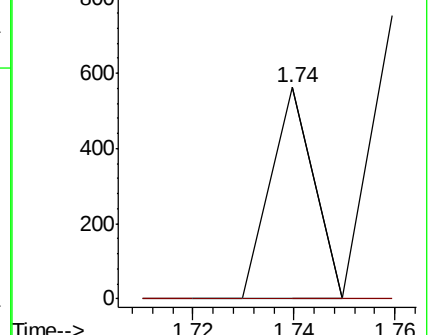
50 100

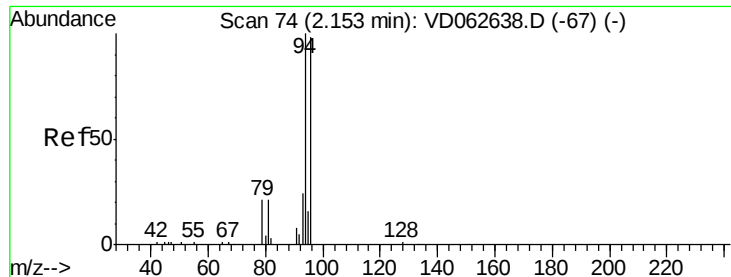
52 0.0 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 4.571 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD062698.D

Acq: 13 Jun 2019 17:22

Instrument :

MSVOA_D

ClientSampleId :

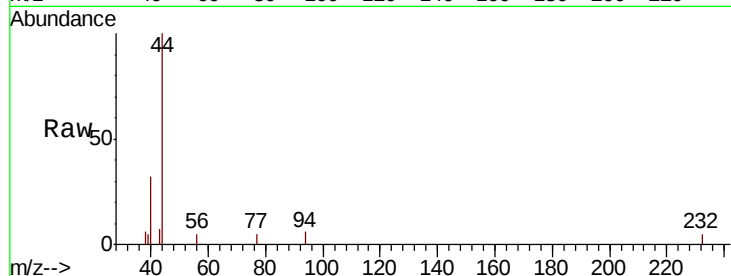
Tot Ion: 94 Resp: 224

Ion Ratio Lower Upper

94 100

96 0.0 78.1 117.1#

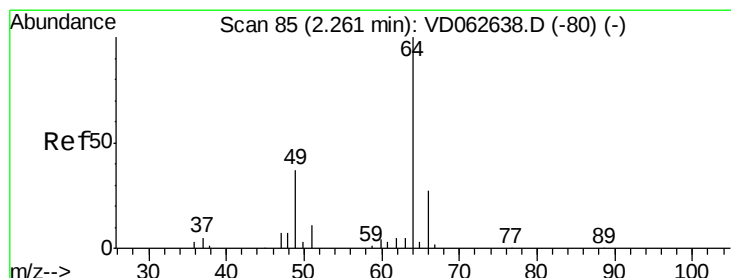
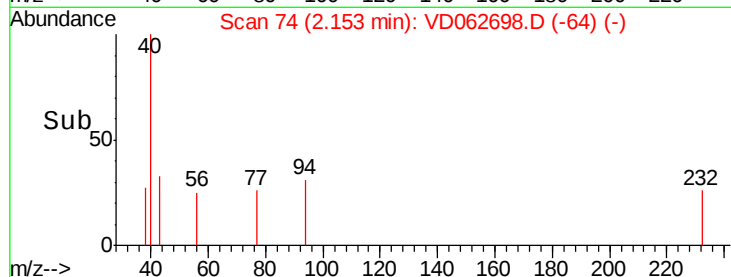
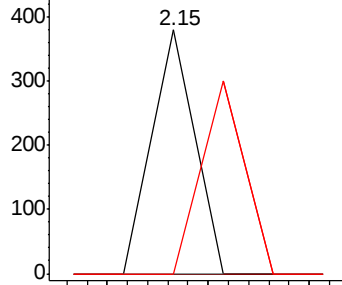
93 0.0 19.6 29.4#



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



#6

Chloroethane

Concen: 4.131 ug/l

RT: 2.31 min Scan# 90

Delta R.T. 0.05 min

Lab File: VD062698.D

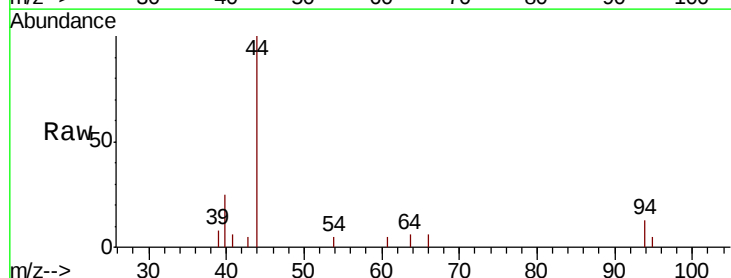
Acq: 13 Jun 2019 17:22

Tgt Ion: 64 Resp: 198

Ion Ratio Lower Upper

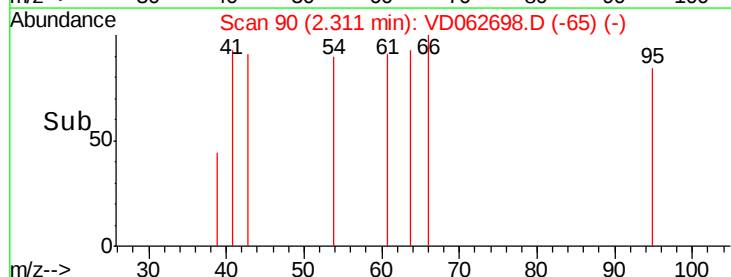
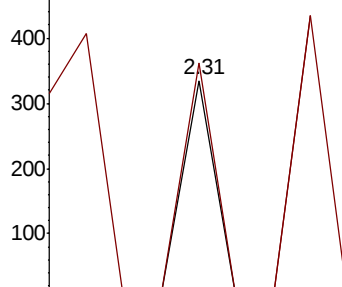
64 100

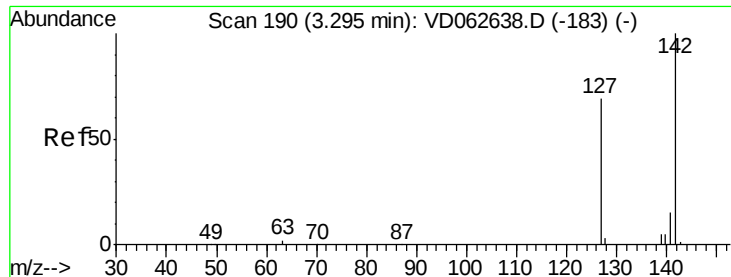
66 108.1 21.9 32.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

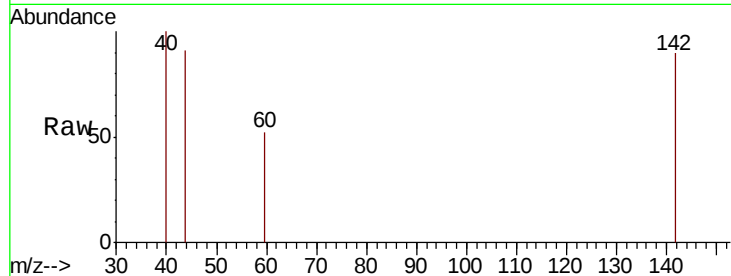




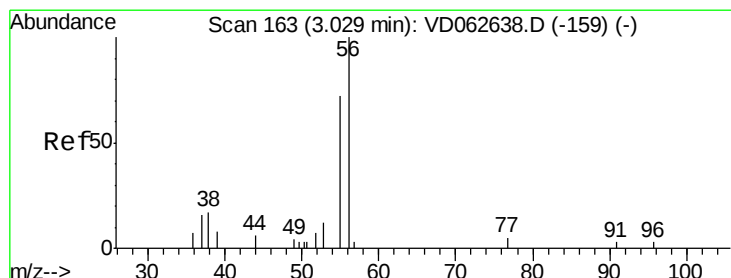
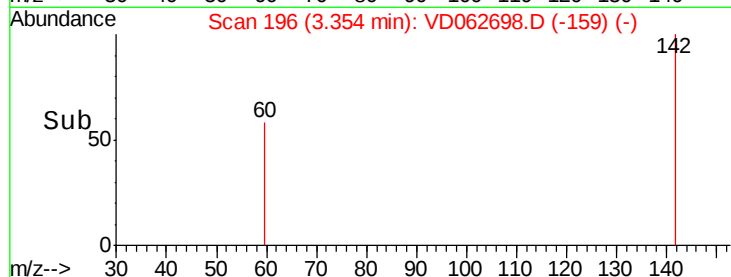
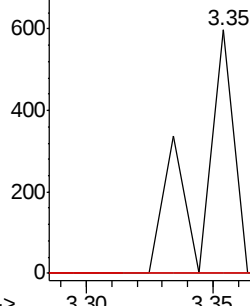
#10
Methyl Iodide
Concen: 6.999 ug/l
RT: 3.35 min Scan# 196
Delta R.T. 0.06 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:142 Resp: 553
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#

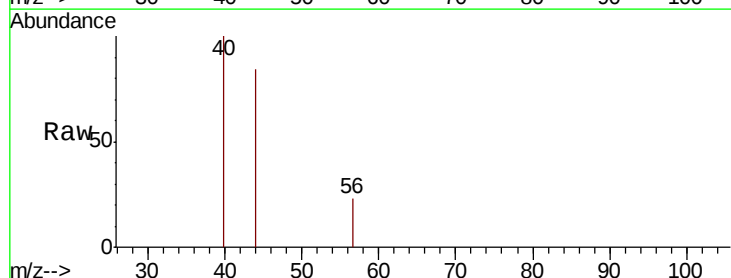


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

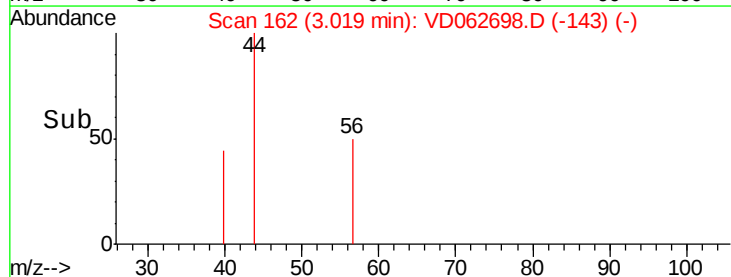
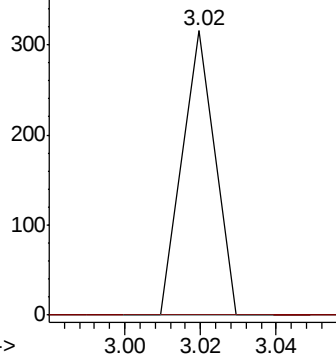


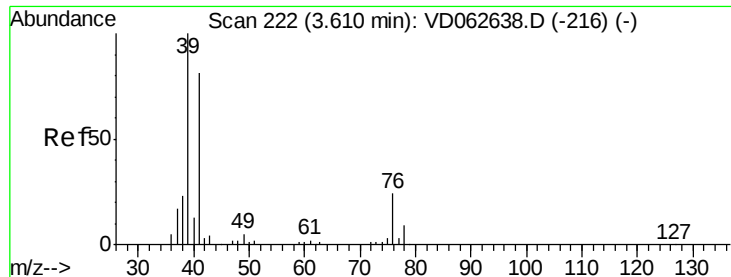
#13
Acrolein
Concen: 103.006 ug/l
RT: 3.02 min Scan# 162
Delta R.T. -0.01 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

Tgt Ion: 56 Resp: 187
Ion Ratio Lower Upper
56 100
55 0.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): V
Ion 55.00 (54.70 to 55.70): V





#14

Allvl chloride

Concen: 2.011 ug/l

RT: 3.50 min Scan# 211

Delta R.T. -0.11 min

Lab File: VD062698.D

Acq: 13 Jun 2019 17:22

Instrument :

MSVOA_D

ClientSampleId :

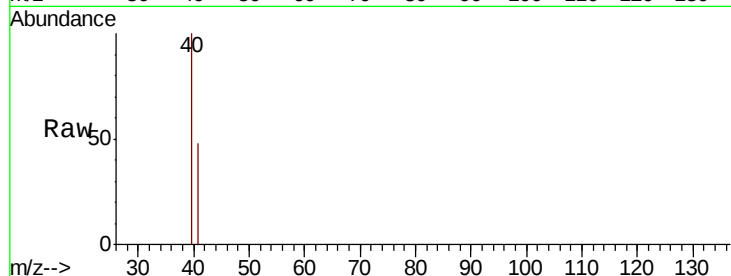
Tot Ion: 41 Resp: 260

Ion Ratio Lower Upper

41 100

39 0.0 99.1 148.7#

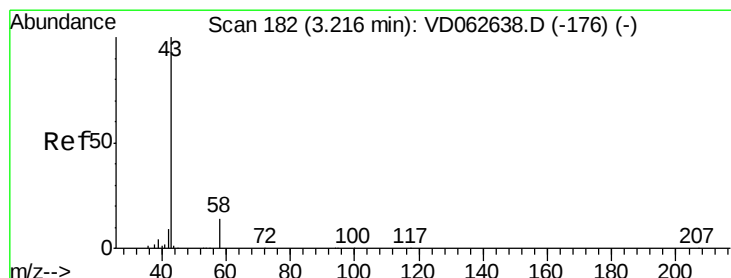
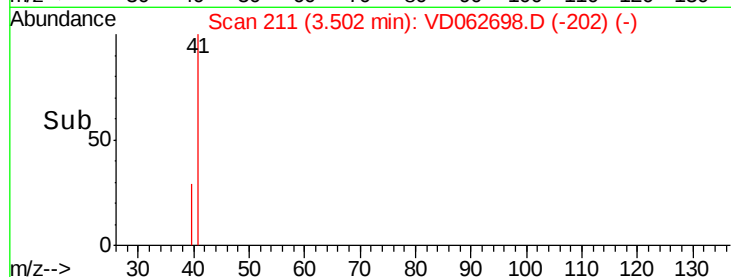
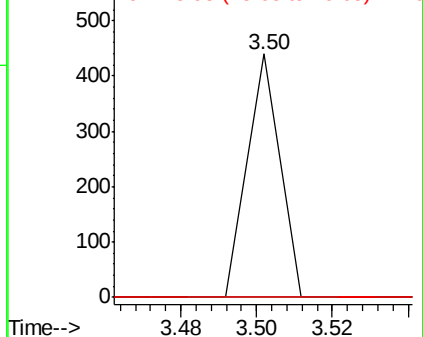
76 0.0 25.0 37.6#



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC



#16

Acetone

Concen: 39.018 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD062698.D

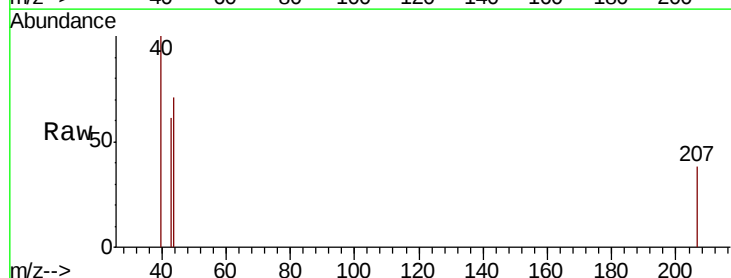
Acq: 13 Jun 2019 17:22

Tgt Ion: 43 Resp: 981

Ion Ratio Lower Upper

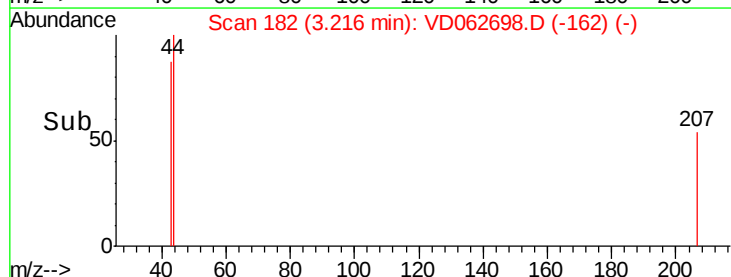
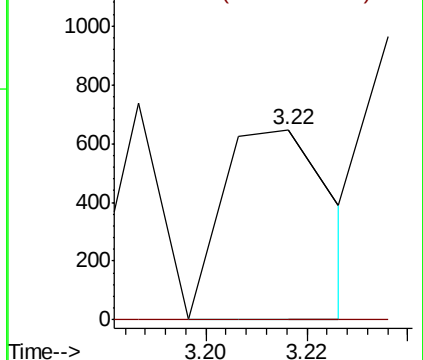
43 100

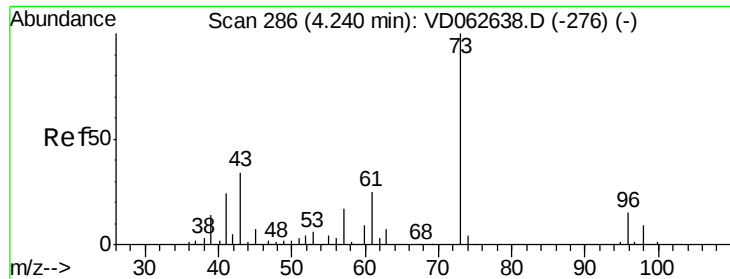
58 0.0 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

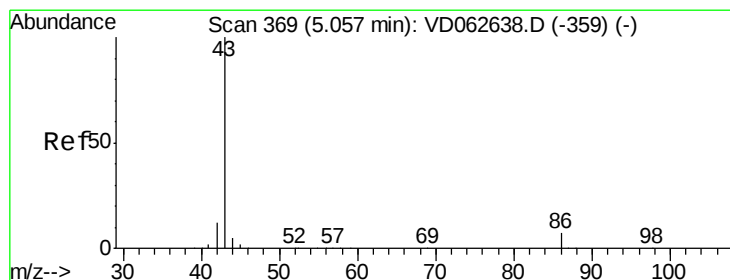
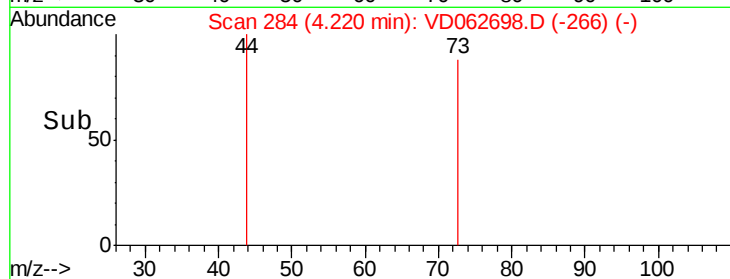
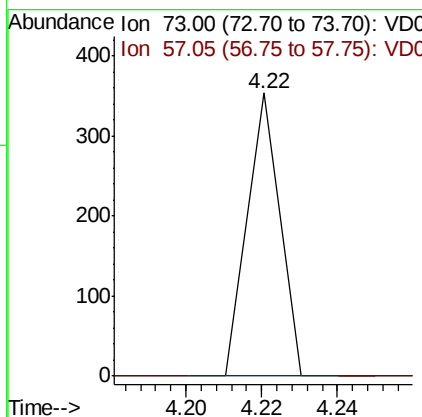
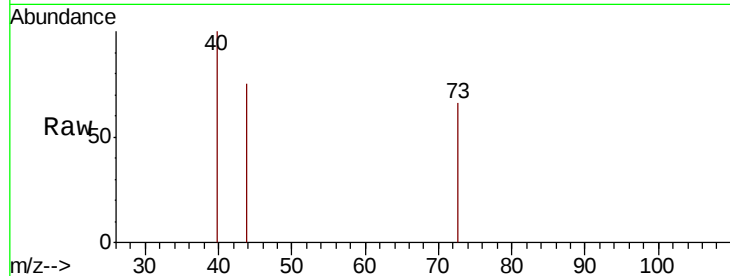




#19
Methvl tert-butvl Ether
Concen: 1.019 ug/l
RT: 4.22 min Scan# 284
Delta R.T. -0.02 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

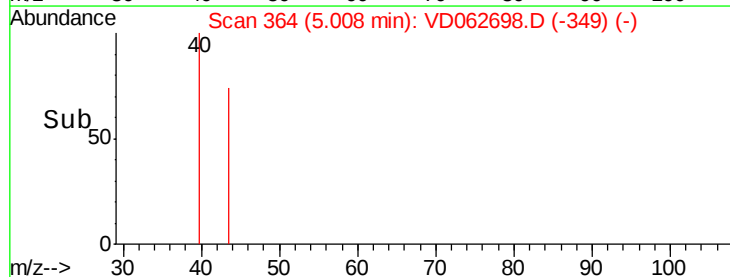
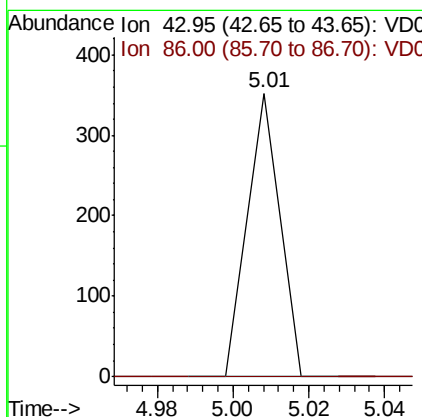
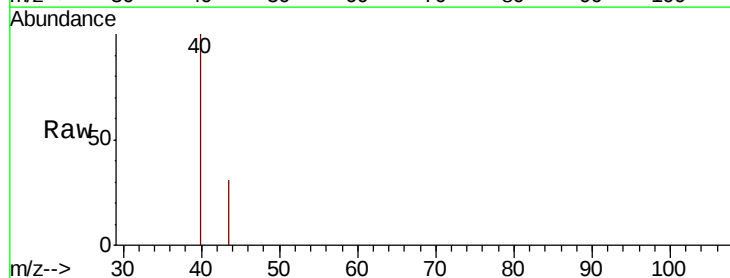
Instrument :
MSVOA_D
ClientSampled :

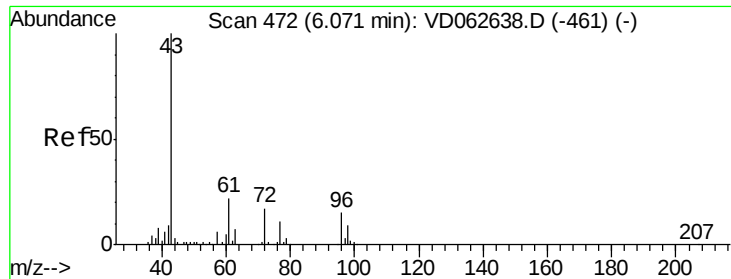
Tot Ion: 73 Resp: 209
Ion Ratio Lower Upper
73 100
57 0.0 13.5 20.3#



#23
Vinyl Acetate
Concen: 1.249 ug/l
RT: 5.01 min Scan# 364
Delta R.T. -0.05 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

Tgt Ion: 43 Resp: 208
Ion Ratio Lower Upper
43 100
86 0.0 5.3 7.9#





#25

2-Butanone

Concen: 7.746 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.02 min

Lab File: VD062698.D

Acq: 13 Jun 2019 17:22

Instrument :

MSVOA_D

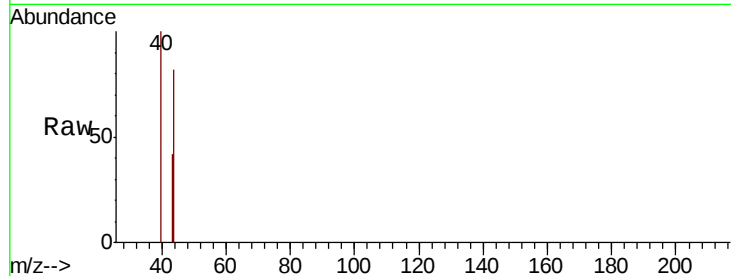
ClientSampleId :

Tot Ion: 43 Resp: 190

Ion Ratio Lower Upper

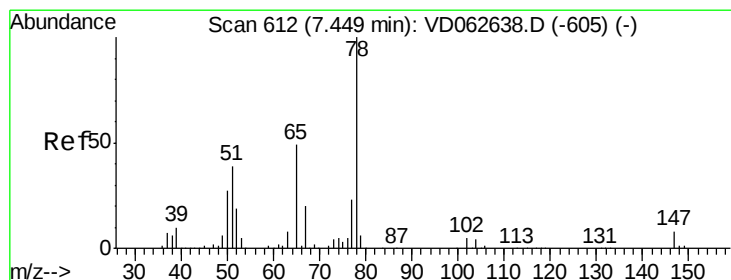
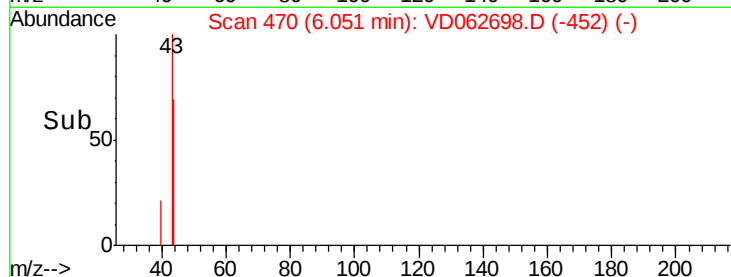
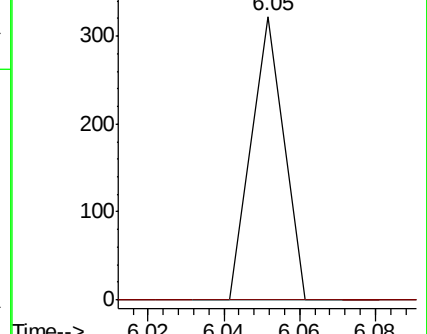
43 100

72 0.0 13.5 20.3#



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: 43.510 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD062698.D

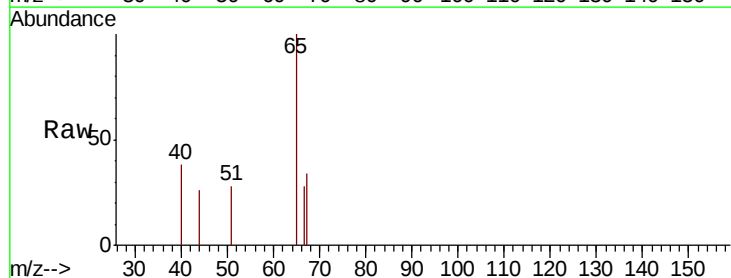
Acq: 13 Jun 2019 17:22

Tgt Ion: 65 Resp: 5974

Ion Ratio Lower Upper

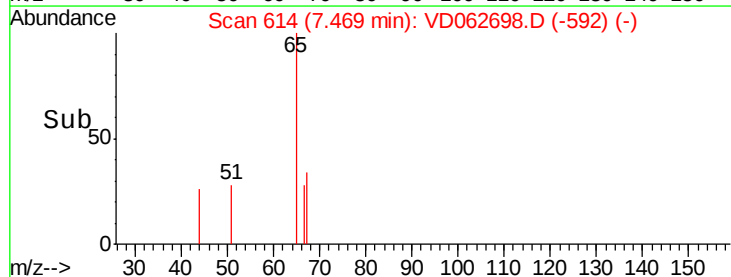
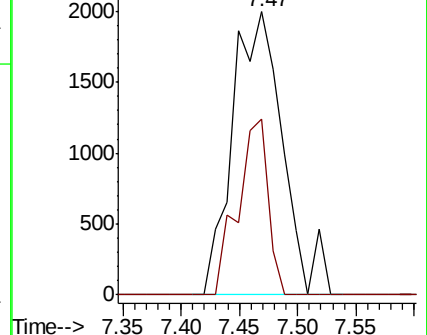
65 100

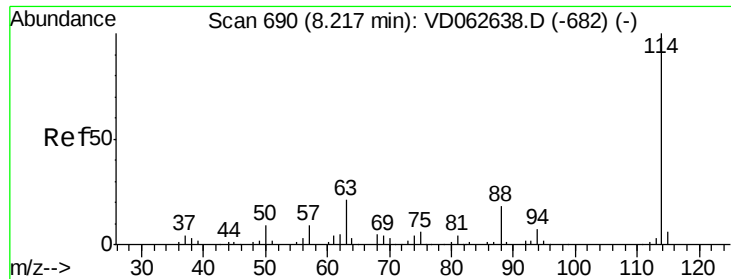
67 62.2 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

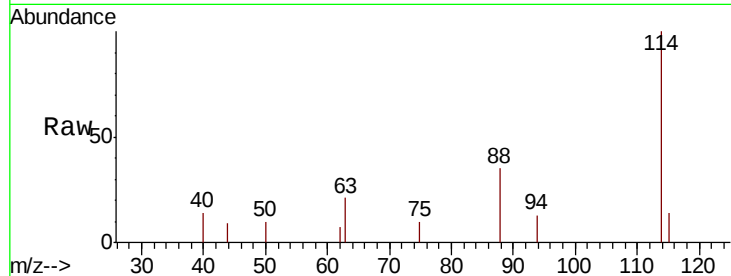




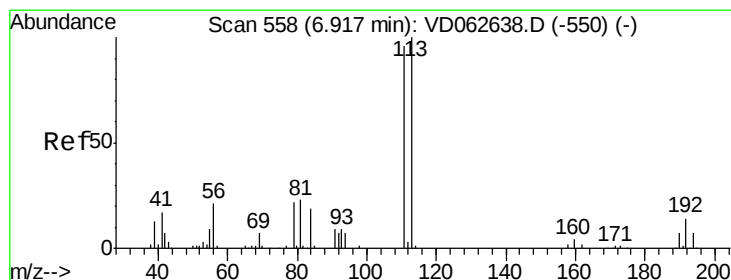
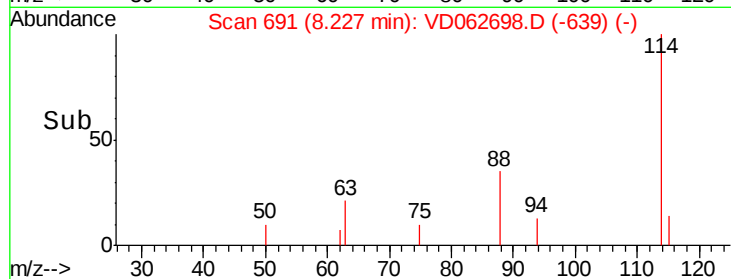
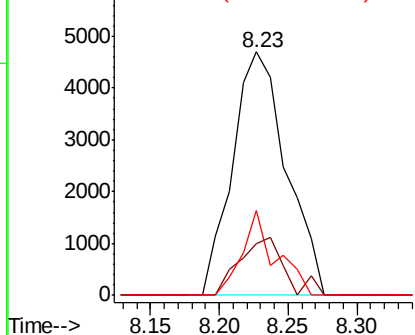
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD062698.D
 Acq: 13 Jun 2019 17:22

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 12782
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 42.4
 88 35.0 0.0 36.8

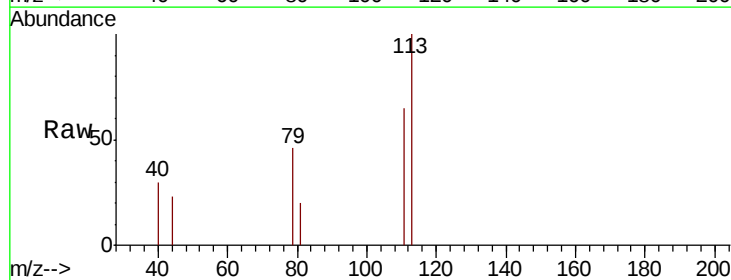


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

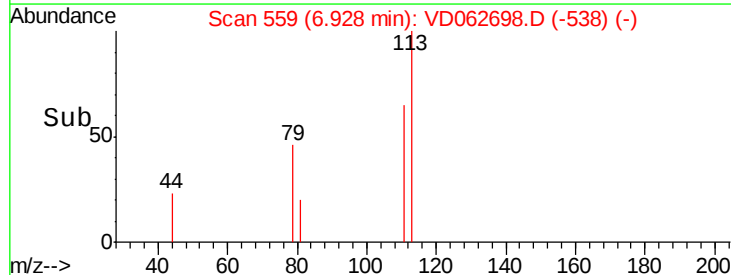
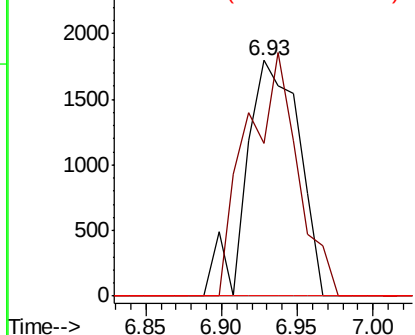


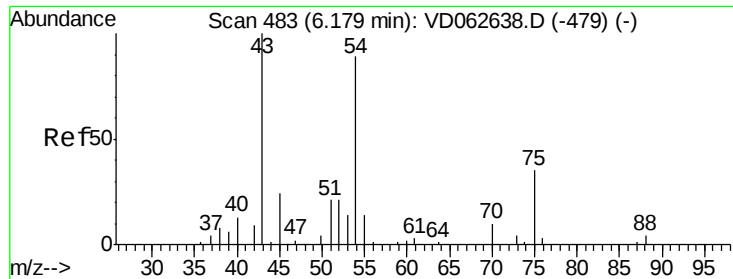
#35
 Dibromofluoromethane
 Concen: 32.410 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD062698.D
 Acq: 13 Jun 2019 17:22

Tgt Ion:113 Resp: 4369
 Ion Ratio Lower Upper
 113 100
 111 64.9 76.4 114.6#
 192 0.0 11.4 17.0#



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

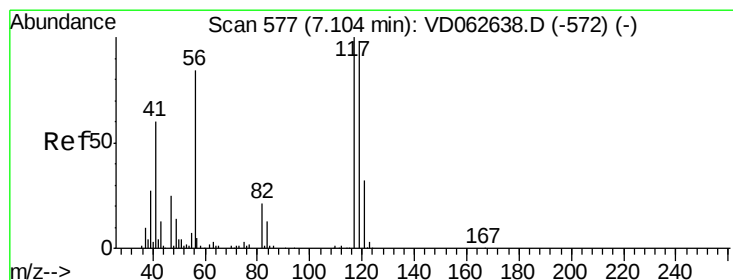
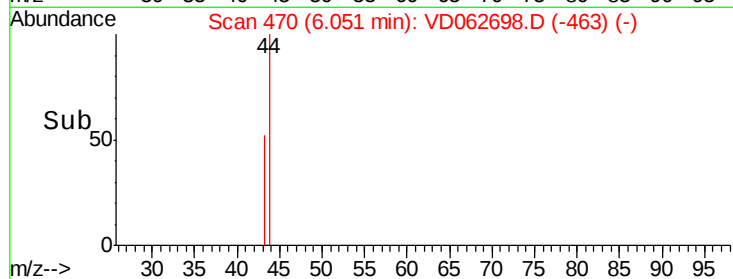
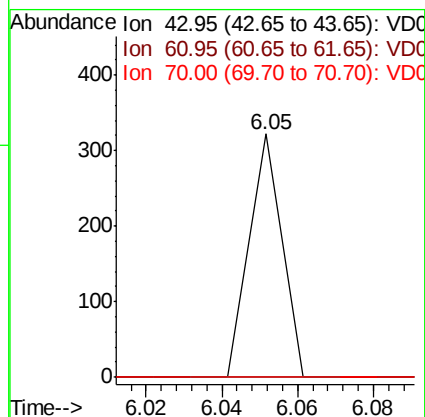
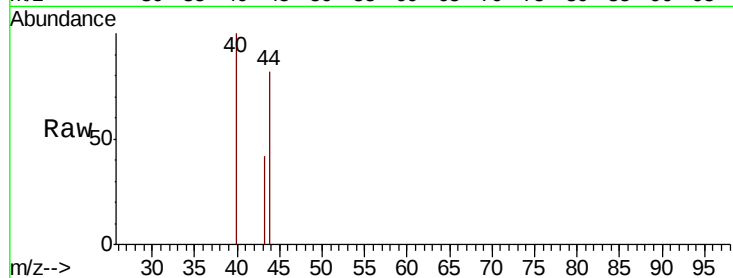




#37
Ethyl Acetate
Concen: 4.174 ug/l
RT: 6.05 min Scan# 470
Delta R.T. -0.13 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

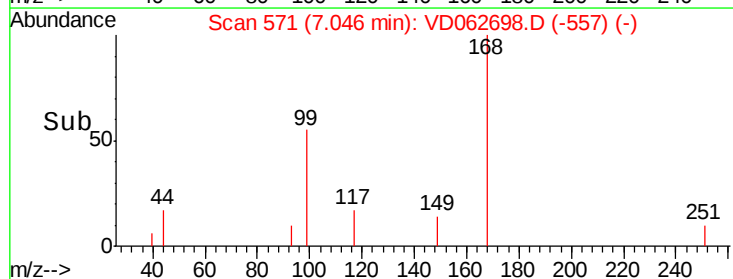
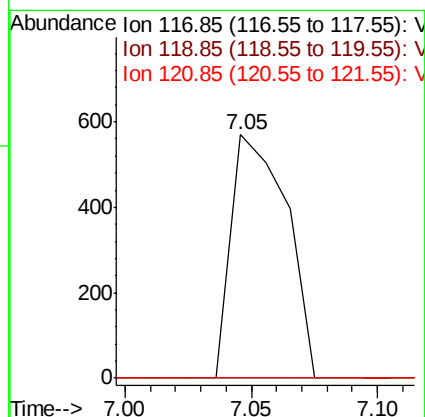
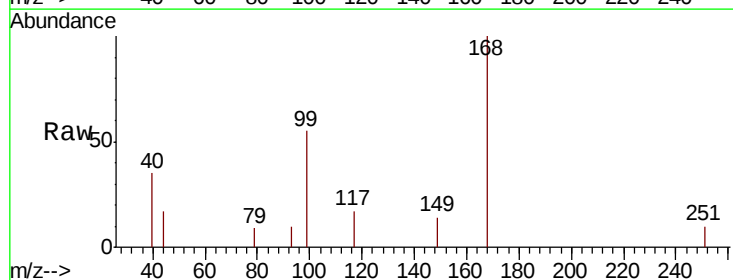
Instrument :
MSVOA_D
ClientSampleId :

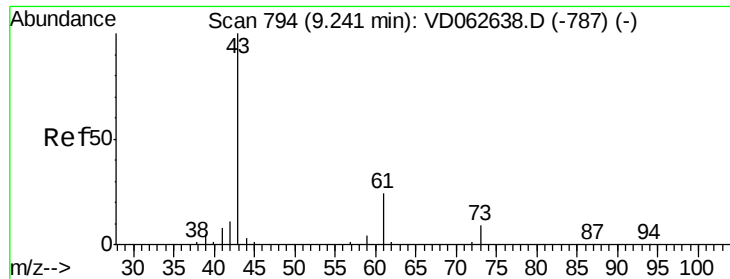
Tot Ion: 43 Resp: 190
Ion Ratio Lower Upper
43 100
61 0.0 8.7 13.1#
70 0.0 6.5 9.7#



#38
Carbon Tetrachloride
Concen: 3.758 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.06 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

Tgt Ion: 117 Resp: 869
Ion Ratio Lower Upper
117 100
119 0.0 73.5 110.3#
121 0.0 24.2 36.4#



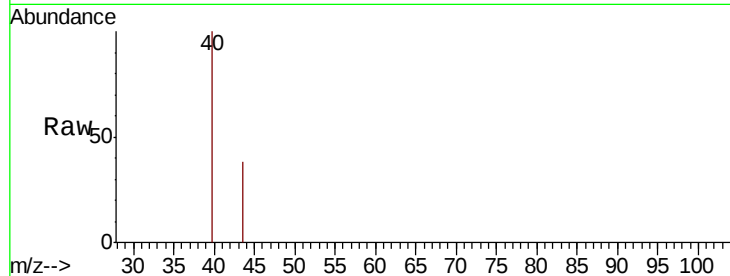


#43

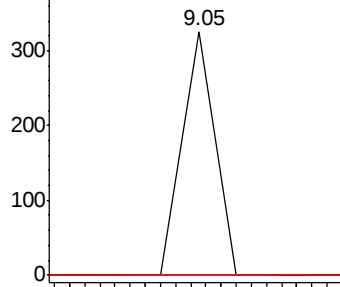
Isopropyl Acetate
 Concen: 2.500 ug/l
 RT: 9.05 min Scan# 775
 Delta R.T. -0.19 min
 Lab File: VD062698.D
 Acq: 13 Jun 2019 17:22

Instrument :
 MSVOA_D
 ClientSampleId :

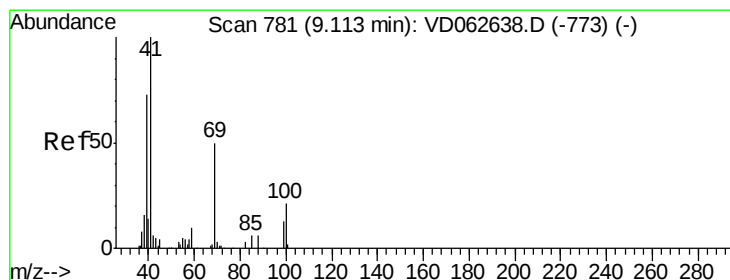
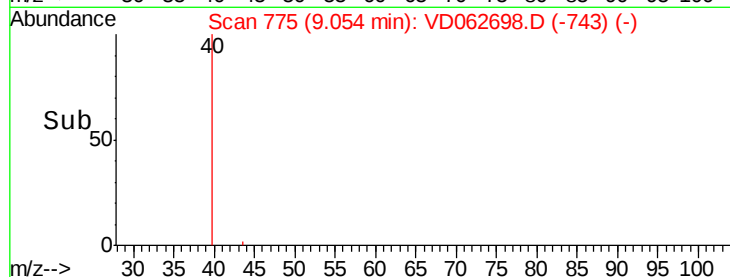
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.0	28.6#
87	0.0	0.3	0.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



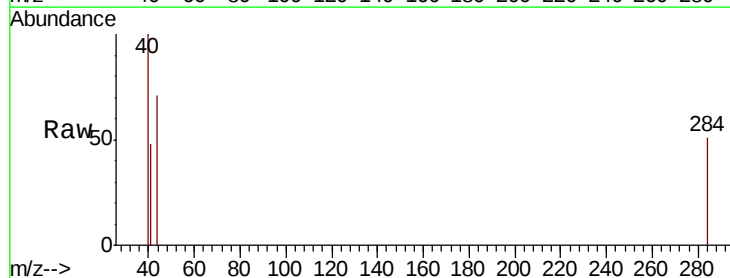
Time-->



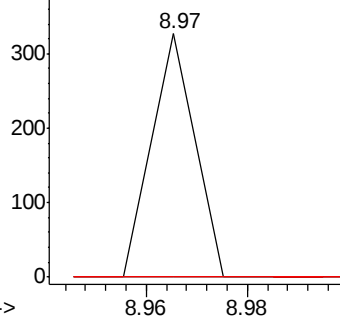
#48

Methyl methacrylate
 Concen: 3.461 ug/l
 RT: 8.97 min Scan# 766
 Delta R.T. -0.15 min
 Lab File: VD062698.D
 Acq: 13 Jun 2019 17:22

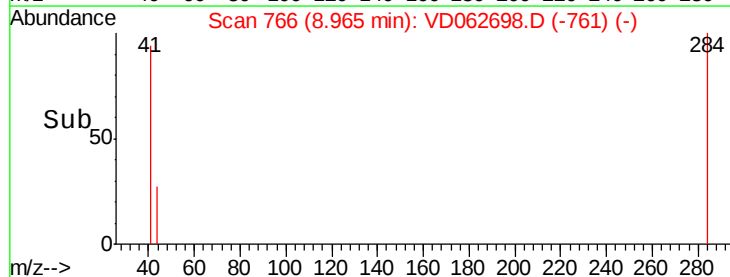
Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	39.8	59.6#
39	0.0	59.1	88.7#

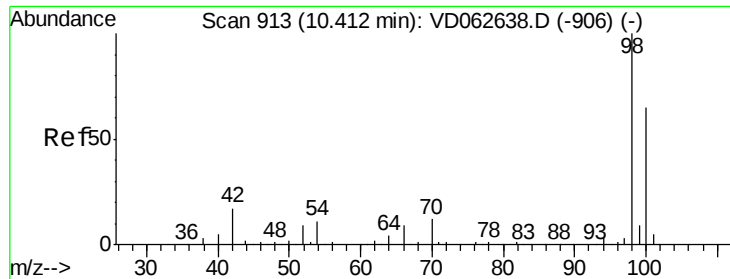


Abundance Ion 40.95 (40.65 to 41.65): VDC
 Ion 69.00 (68.70 to 69.70): VDC
 Ion 38.95 (38.65 to 39.65): VDC



Time-->





#50

Toluene-d8

Concen: 25.175 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD062698.D

Acq: 13 Jun 2019 17:22

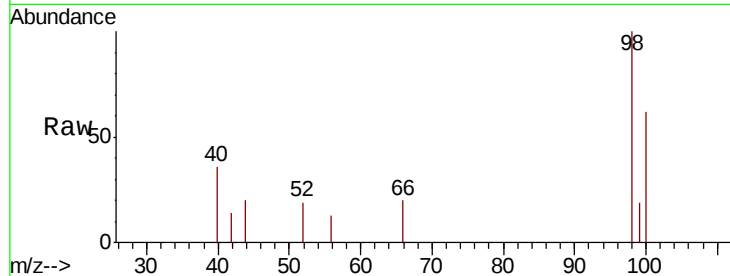
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 7139

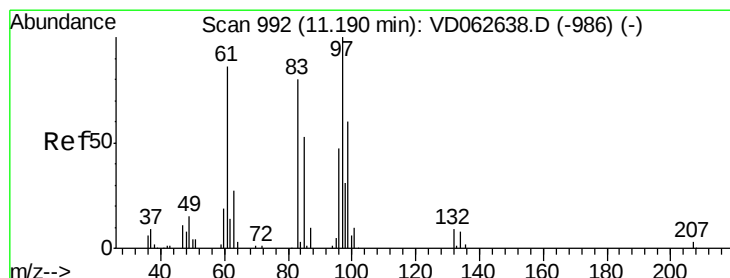
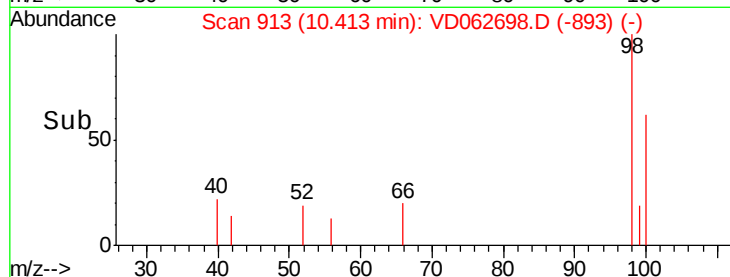
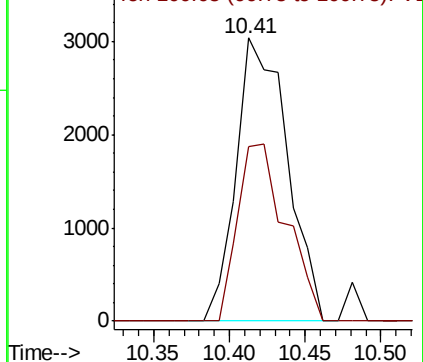
Ion Ratio Lower Upper

98 100

100 61.6 52.1 78.1



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



#55

1,1,2-Trichloroethane

Concen: 3.295 ug/l

RT: 11.26 min Scan# 999

Delta R.T. 0.07 min

Lab File: VD062698.D

Acq: 13 Jun 2019 17:22

Tgt Ion: 97 Resp: 217

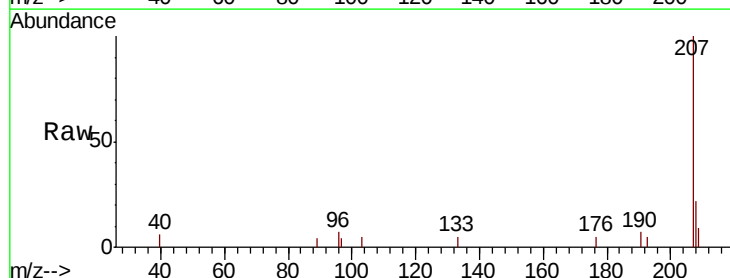
Ion Ratio Lower Upper

97 100

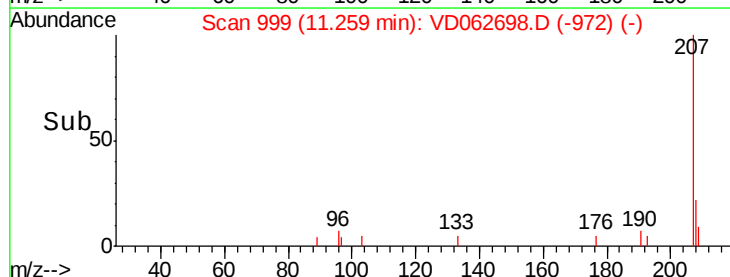
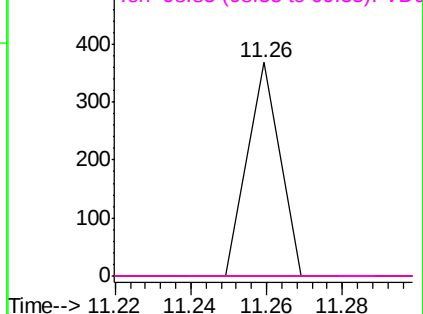
83 0.0 63.8 95.8#

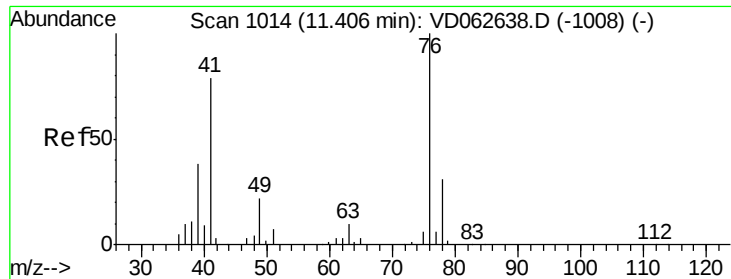
85 0.0 42.3 63.5#

99 0.0 48.0 72.0#



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

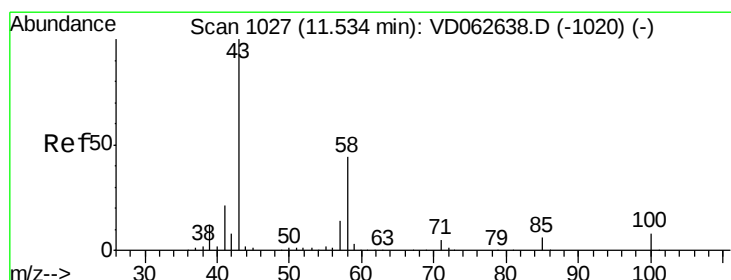
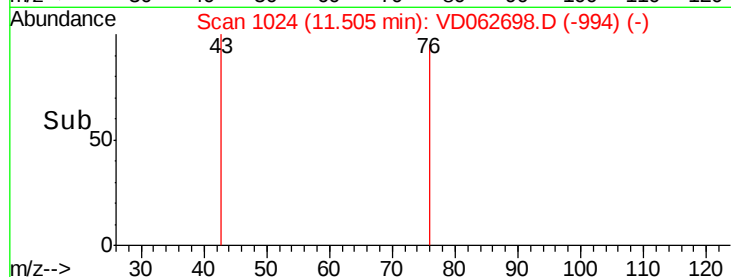
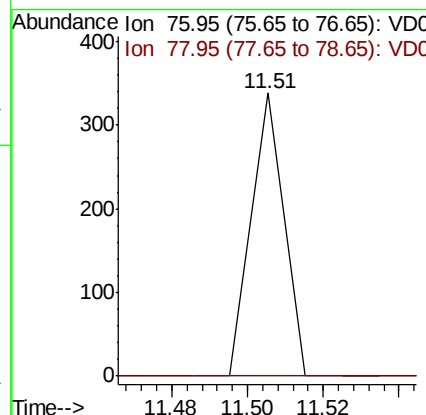
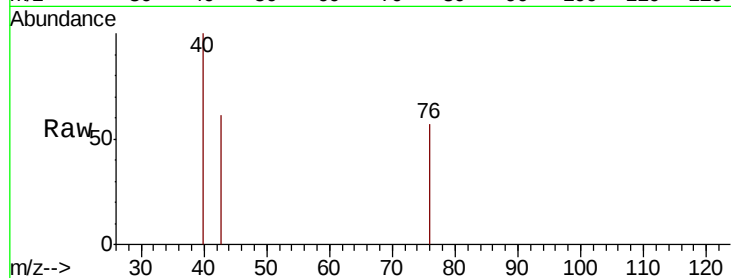




#57
 1,3-Dichloropropane
 Concen: 1.959 ug/l
 RT: 11.51 min Scan# 1024
 Delta R.T. 0.10 min
 Lab File: VD062698.D
 Acq: 13 Jun 2019 17:22

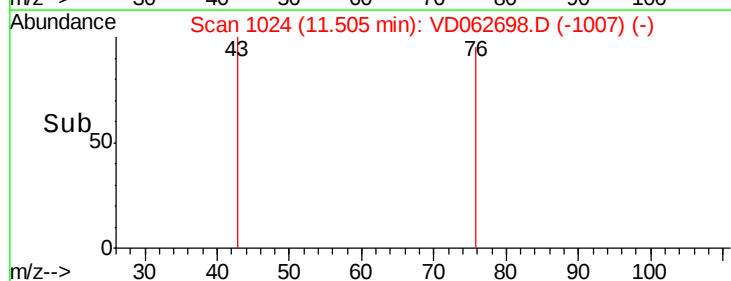
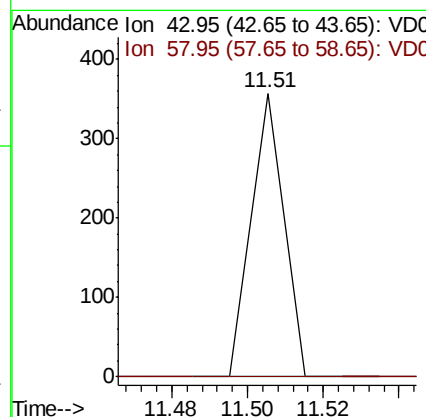
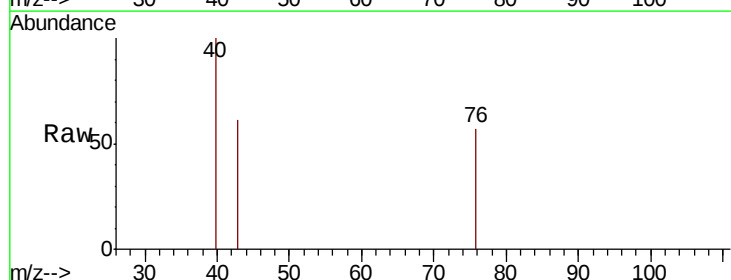
Instrument :
 MSVOA_D
 ClientSampleId :

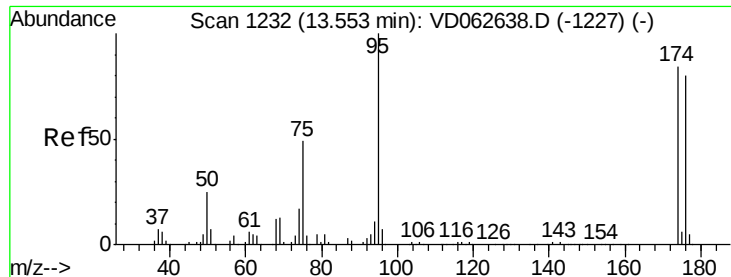
Tot Ion: 76 Resp: 200
 Ion Ratio Lower Upper
 76 100
 78 0.0 24.9 37.3#



#59
 2-Hexanone
 Concen: 5.252 ug/l
 RT: 11.51 min Scan# 1024
 Delta R.T. -0.03 min
 Lab File: VD062698.D
 Acq: 13 Jun 2019 17:22

Tgt Ion: 43 Resp: 211
 Ion Ratio Lower Upper
 43 100
 58 0.0 21.8 65.4#

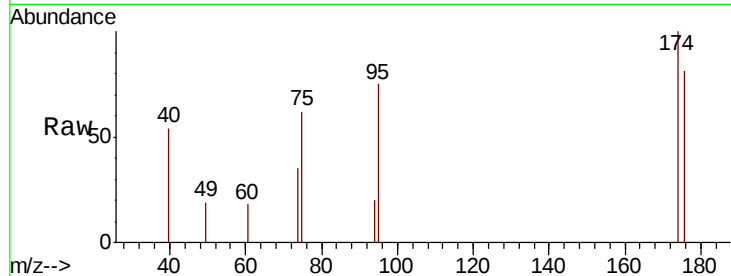




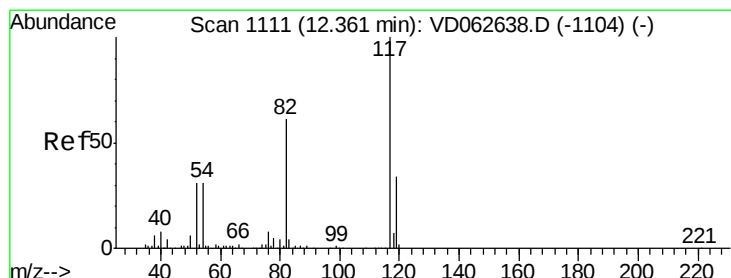
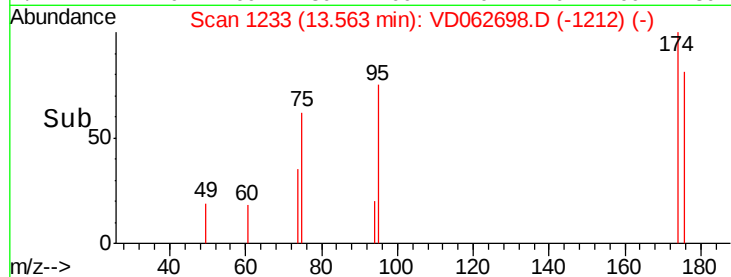
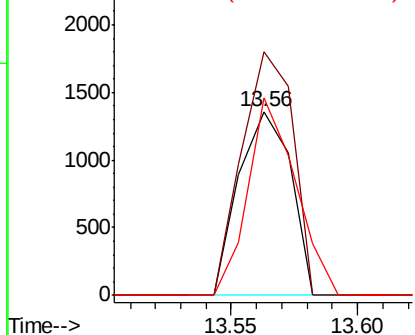
#62
4-Bromofluorobenzene
Concen: 14.762 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 95 Resp: 1953
Ion Ratio Lower Upper
95 100
174 132.6 0.0 167.0
176 108.0 0.0 159.2

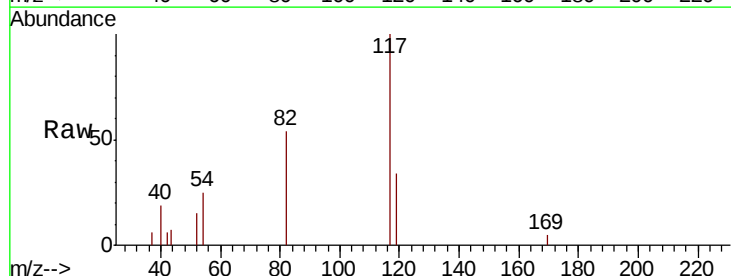


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

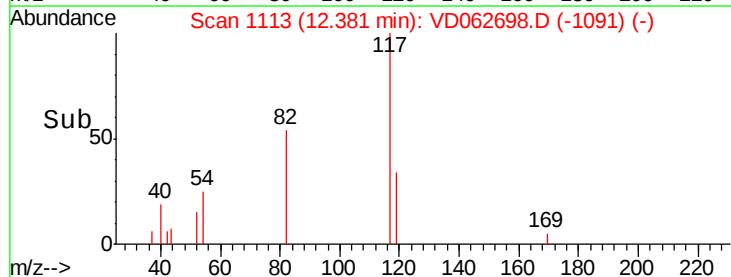
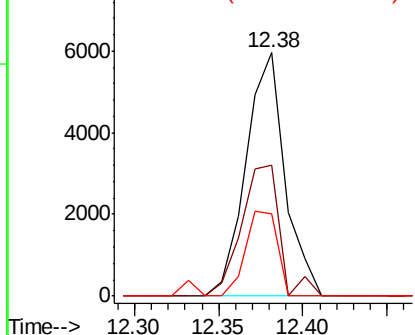


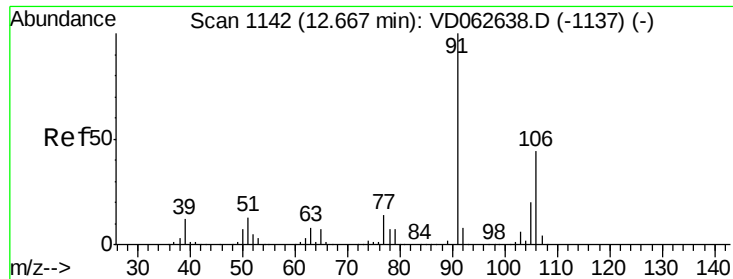
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

Tgt Ion: 117 Resp: 9545
Ion Ratio Lower Upper
117 100
82 53.6 48.7 73.1
119 33.9 27.0 40.6



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

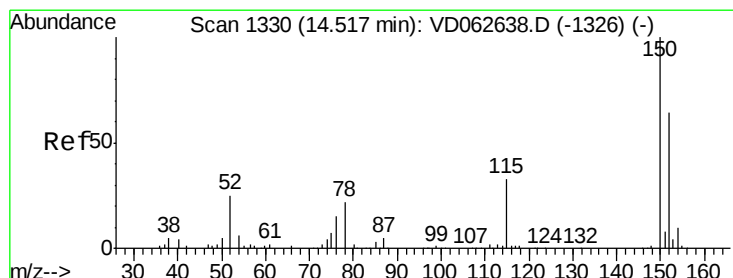
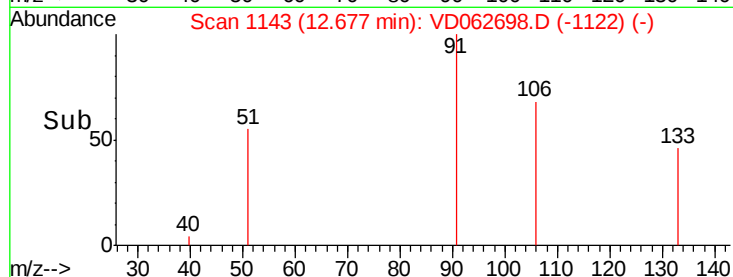
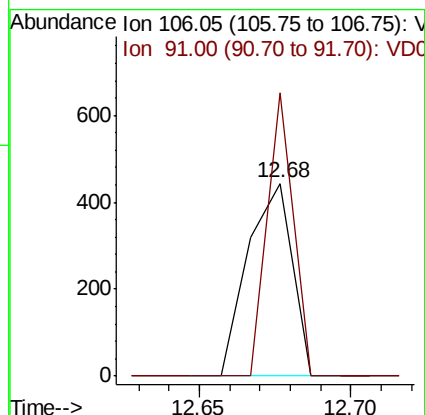
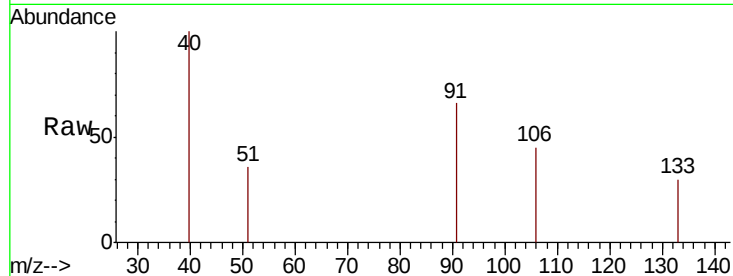




#68
m/p-Xvlenes
Concen: 3.419 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

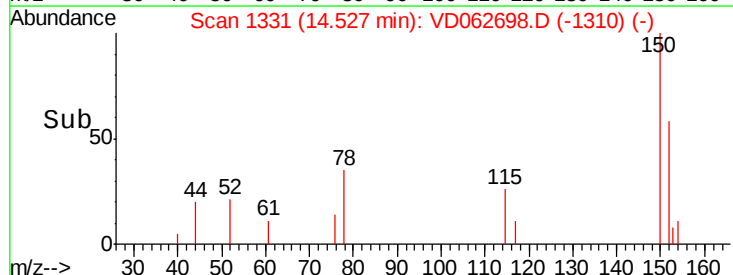
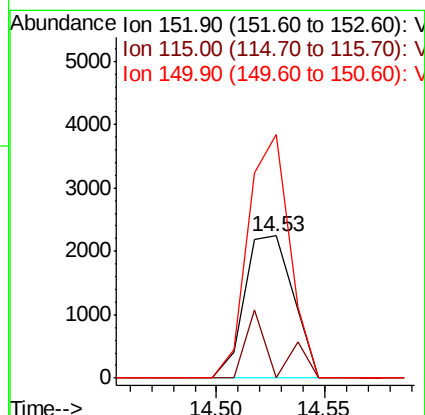
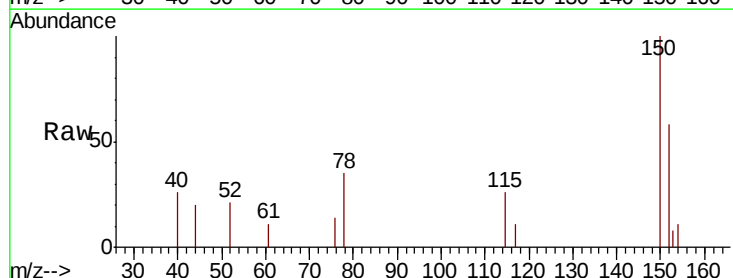
Instrument :
MSVOA_D
ClientSampled :

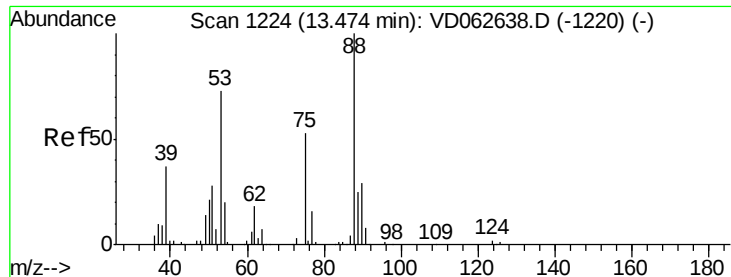
Tot Ion:106 Resp: 450
Ion Ratio Lower Upper
106 100
91 147.2 180.2 270.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD062698.D
Acq: 13 Jun 2019 17:22

Tgt Ion:152 Resp: 3497
Ion Ratio Lower Upper
152 100
115 0.0 30.1 90.5#
150 171.1 0.0 314.0





#81

trans-1,4-Dichloro-2-butene

Concen: 96.292 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062698.D

Acq: 13 Jun 2019 17:22

Instrument :

MSVOA_D

ClientSampleId :

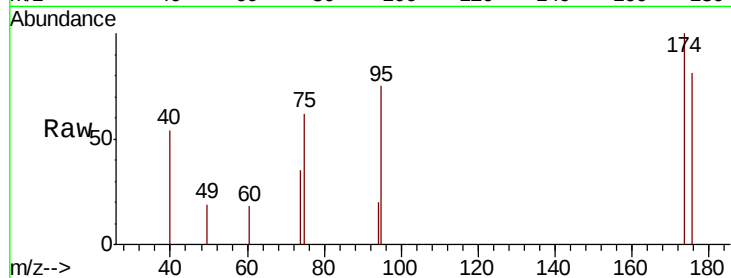
Tot Ion: 75 Resp: 1409

Ion Ratio Lower Upper

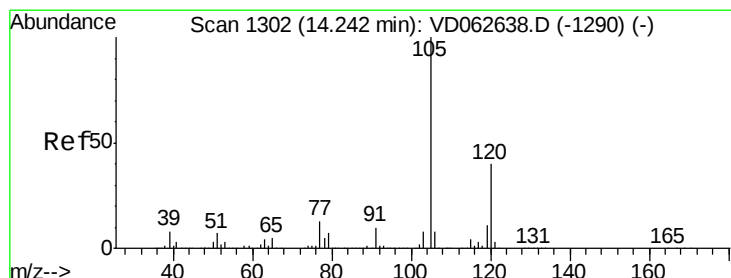
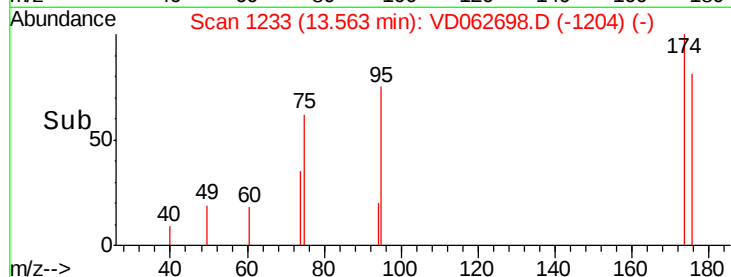
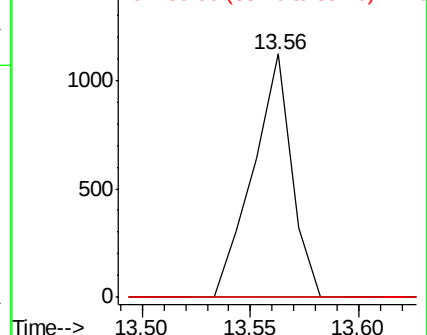
75 100

53 0.0 109.4 164.2#

89 0.0 37.0 55.6#



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



#84

1,2,4-Trimethylbenzene

Concen: 3.403 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VD062698.D

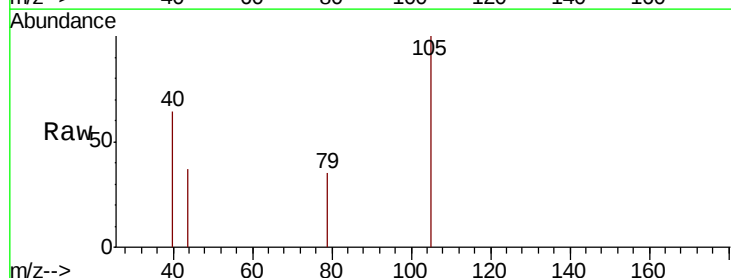
Acq: 13 Jun 2019 17:22

Tgt Ion:105 Resp: 734

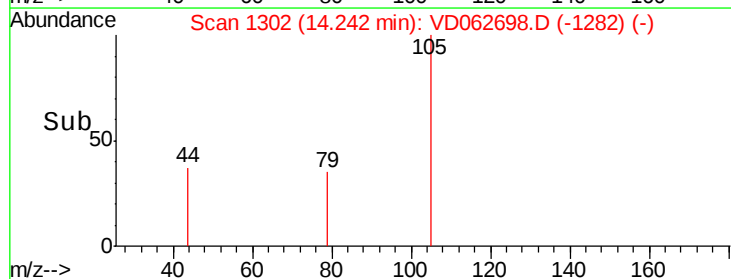
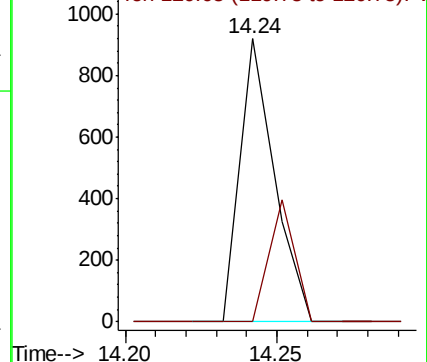
Ion Ratio Lower Upper

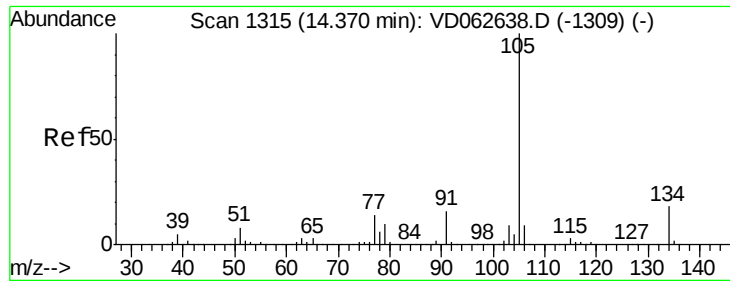
105 100

120 0.0 20.3 60.8#



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

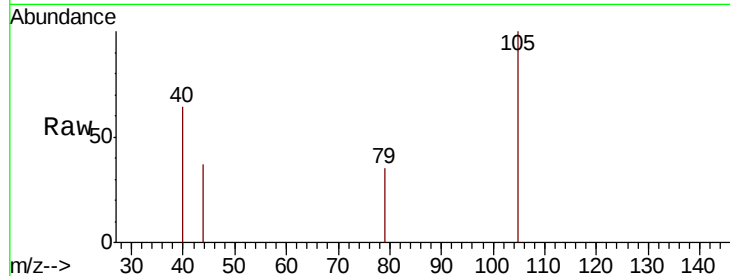




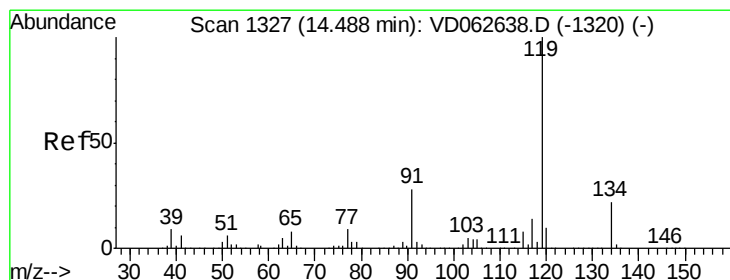
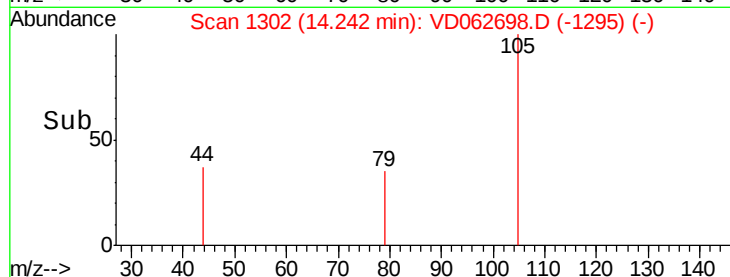
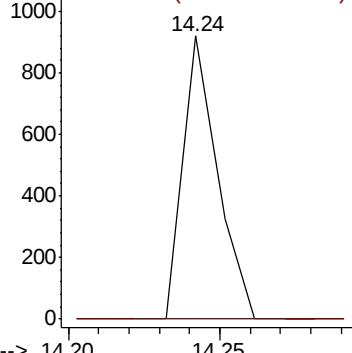
#85
 sec-Butylbenzene
 Concen: 2.913 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.13 min
 Lab File: VD062698.D
 Acq: 13 Jun 2019 17:22

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:105 Resp: 734
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.8 26.2#

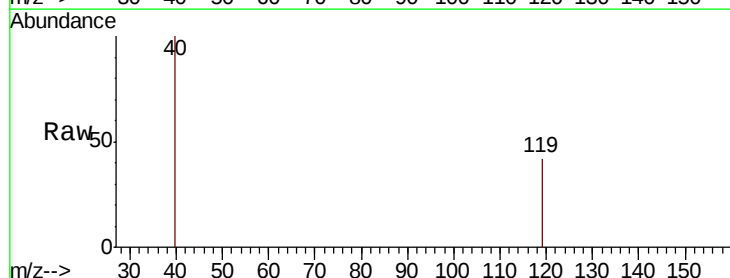


Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 134.10 (133.80 to 134.80): V

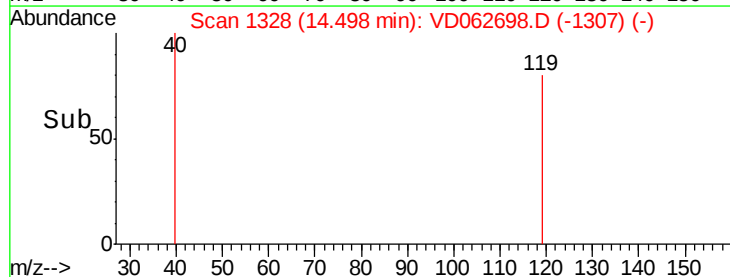
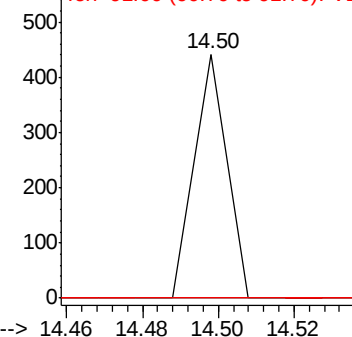


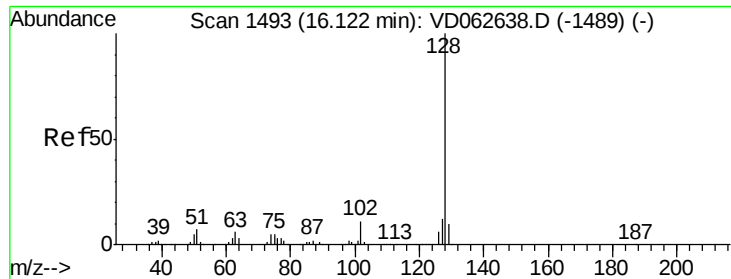
#86
 p-Isopropyltoluene
 Concen: 1.060 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD062698.D
 Acq: 13 Jun 2019 17:22

Tgt Ion:119 Resp: 260
 Ion Ratio Lower Upper
 119 100
 134 0.0 10.9 32.6#
 91 0.0 13.9 41.6#



Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 134.10 (133.80 to 134.80): V
 Ion 91.00 (90.70 to 91.70): V





#95

Naphthalene

Concen: 5.342 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

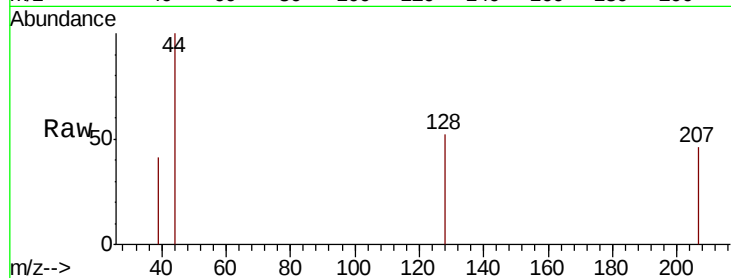
Lab File: VD062698.D

Acq: 13 Jun 2019 17:22

Instrument :

MSVOA_D

ClientSampleId :



Tot Ion:	128	Resp:	258
Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.7	14.5#
129	0.0	8.1	12.1#

