

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060056.D
 Acq On : 20 Sep 2018 19:04
 Operator : VA/AP
 Sample : J5017-04
 Misc : 5.06g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058

Quant Time: Sep 21 01:00:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	18964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.42	114	31775	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	26999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	13042	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.76	65	9482	64.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.24%	
35) Dibromofluoromethane	6.30	113	9974	40.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.36%	
50) Toluene-d8	9.44	98	24395	35.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.92%	
62) 4-Bromofluorobenzene	12.42	95	9319	35.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.90%	

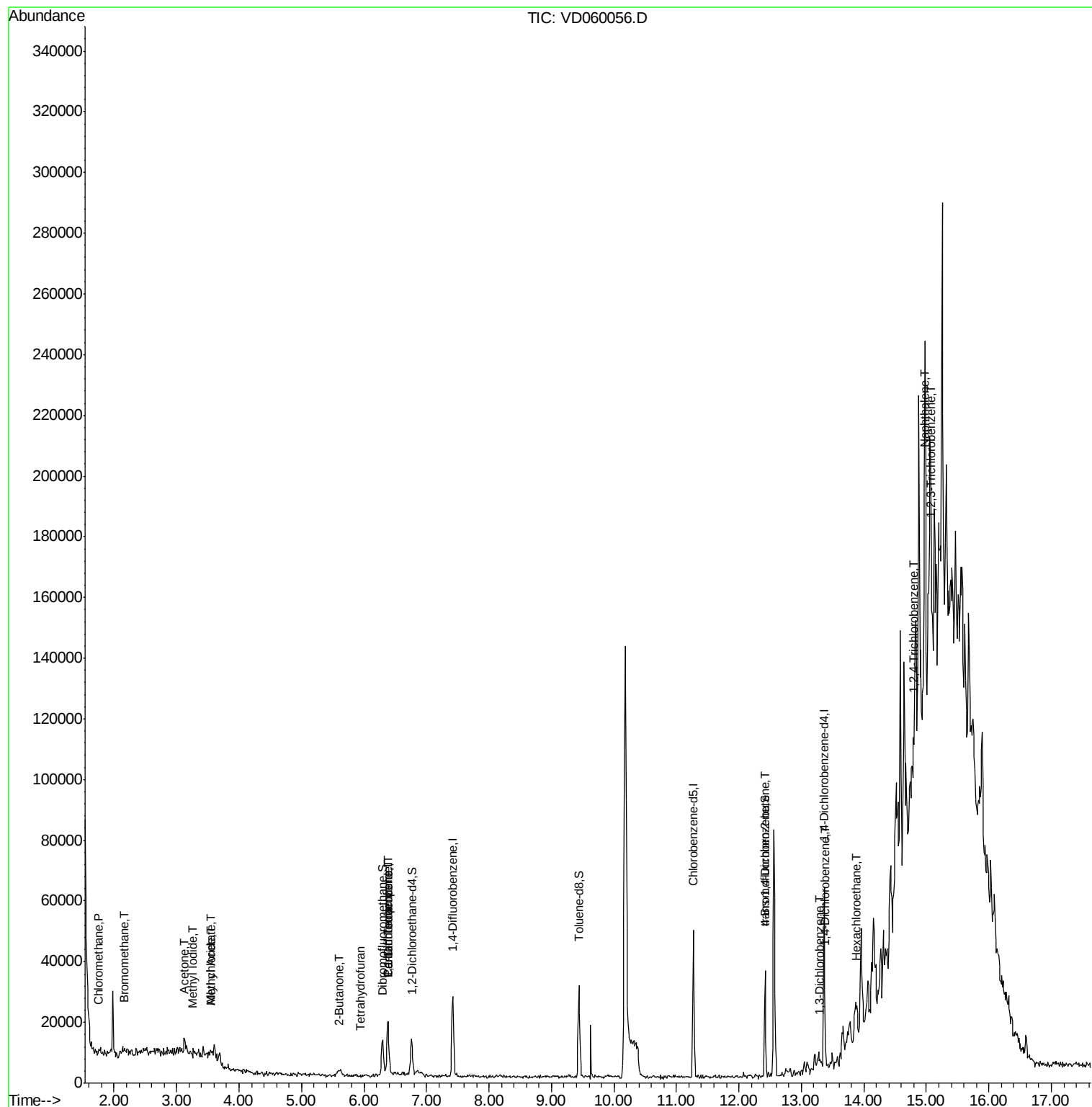
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.74	50	1112	6.29	ug/l #	43
5) Bromomethane	2.16	94	3950	234.76	ug/l #	62
10) Methyl Iodide	3.25	142	205	1.96	ug/l #	31
14) Allyl chloride	3.53	41	1853	11.26	ug/l #	60
16) Acetone	3.13	43	8861	310.34	ug/l #	88
18) Methyl Acetate	3.54	43	993	17.10	ug/l #	64
20) Methylene Chloride	3.69	84	1365	Below Cal	#	88
25) 2-Butanone	5.59	43	4037	52.40	ug/l #	61
29) Tetrahydrofuran	5.94	42	183	4.43	ug/l #	41
36) 1,1-Dichloropropene	6.38	75	1030	3.26	ug/l #	40
38) Carbon Tetrachloride	6.39	117	655	2.22	ug/l #	12
59) 2-Hexanone	10.47	43	217	Below Cal	#	30
81) trans-1,4-Dichloro-2-buten	12.42	75	4300	71.51	ug/l #	15
87) 1,3-Dichlorobenzene	13.31	146	473	1.10	ug/l #	51
88) 1,4-Dichlorobenzene	13.38	146	803	1.85	ug/l #	38
89) n-Butylbenzene	13.64	91	1187	Below Cal	#	80
90) Hexachloroethane	13.90	117	196	1.09	ug/l #	7
91) 1,2-Dichlorobenzene	13.66	146	413	Below Cal	#	24
93) 1,2,4-Trichlorobenzene	14.78	180	1141	3.74	ug/l #	36
95) Naphthalene	14.96	128	3545	7.52	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.09	180	2115	7.86	ug/l #	1

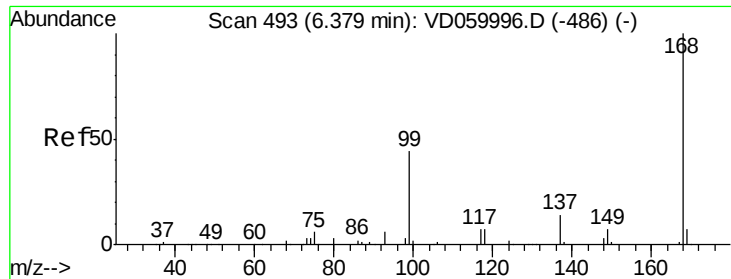
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092018\
Data File : VD060056.D
Acq On : 20 Sep 2018 19:04
Operator : VA/AP
Sample : J5017-04
Misc : 5.06g/5ml/MSVOA D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-SW-058

Quant Time: Sep 21 01:00:55 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.38 min Scan# 493

Delta R.T. -0.00 min

Lab File: VD060056.D

Acq: 20 Sep 2018 19:04

Instrument :

MSVOA_D

ClientSampleId :

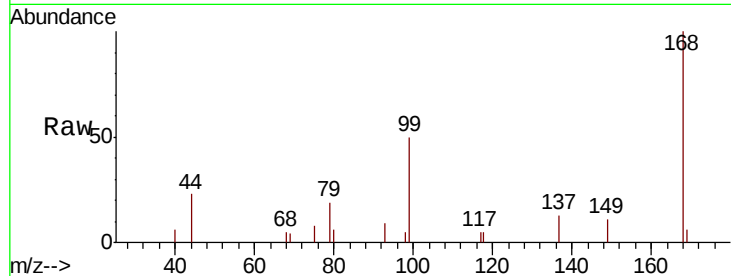
RA-091918-S-SW-058

Tot Ion:168 Resp: 18964

Ion Ratio Lower Upper

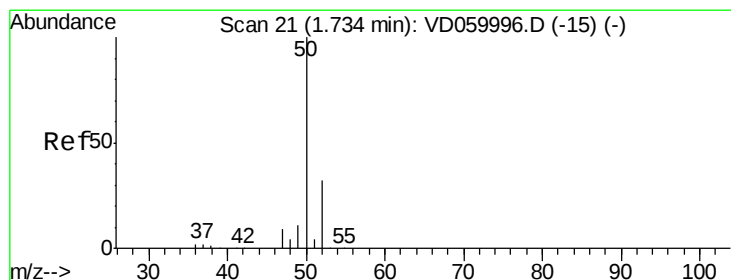
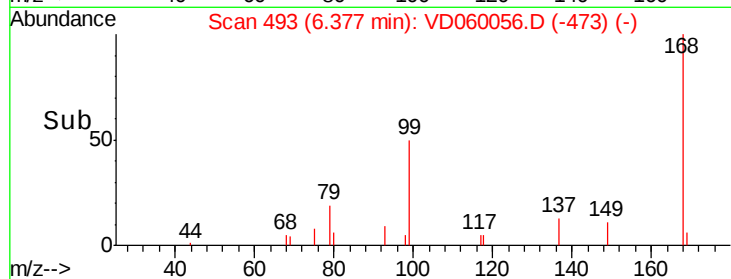
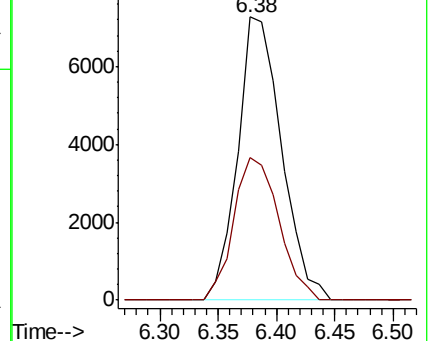
168 100

99 50.5 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 6.29 ug/l

RT: 1.74 min Scan# 22

Delta R.T. 0.01 min

Lab File: VD060056.D

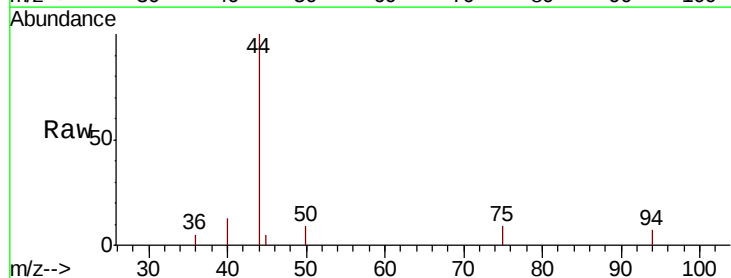
Acq: 20 Sep 2018 19:04

Tgt Ion: 50 Resp: 1112

Ion Ratio Lower Upper

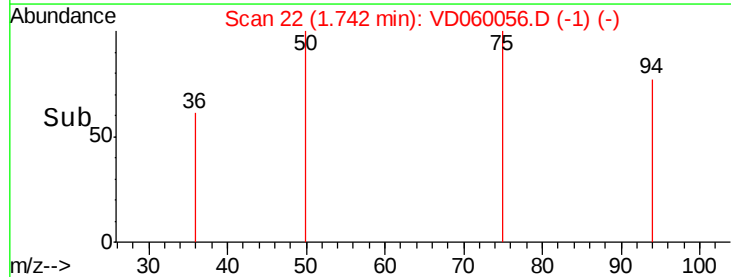
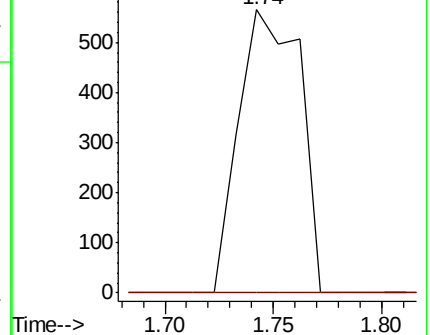
50 100

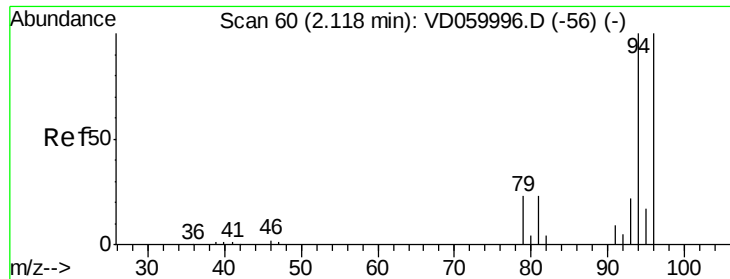
52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 234.76 ug/l

RT: 2.16 min Scan# 64

Delta R.T. 0.04 min

Lab File: VD060056.D

Acq: 20 Sep 2018 19:04

Instrument :

MSVOA_D

ClientSampleId :

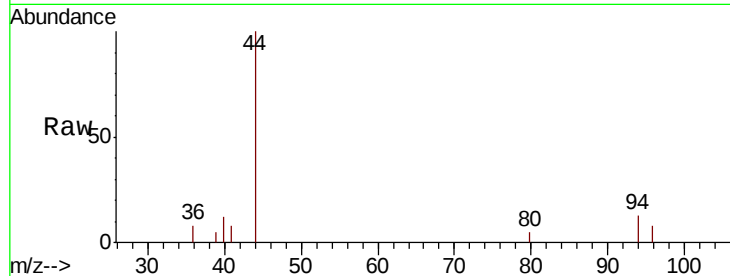
RA-091918-S-SW-058

Tot Ion: 94 Resp: 3950

Ion Ratio Lower Upper

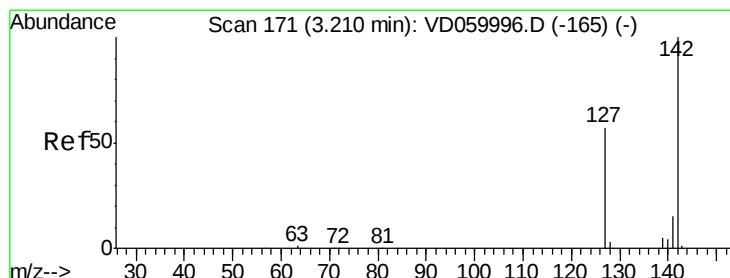
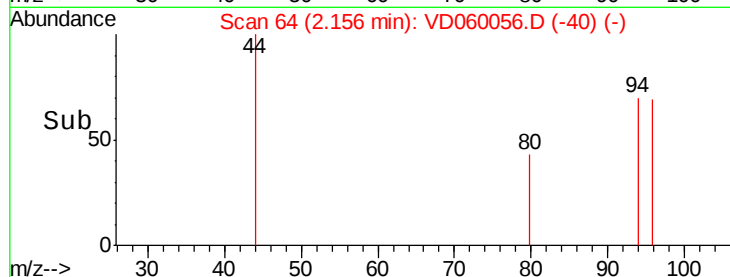
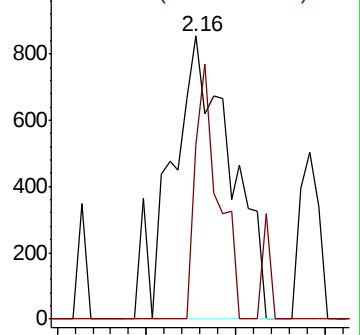
94 100

96 61.8 79.8 119.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 1.96 ug/l

RT: 3.25 min Scan# 175

Delta R.T. 0.04 min

Lab File: VD060056.D

Acq: 20 Sep 2018 19:04

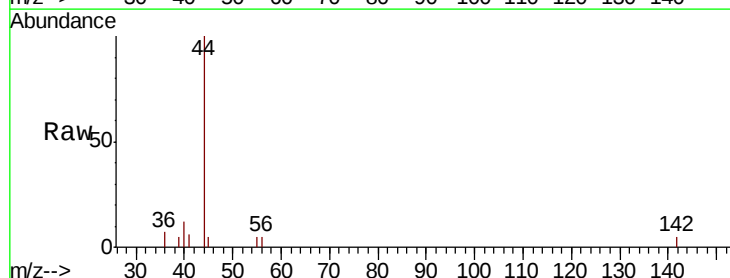
Tgt Ion: 142 Resp: 205

Ion Ratio Lower Upper

142 100

127 0.0 45.8 68.8#

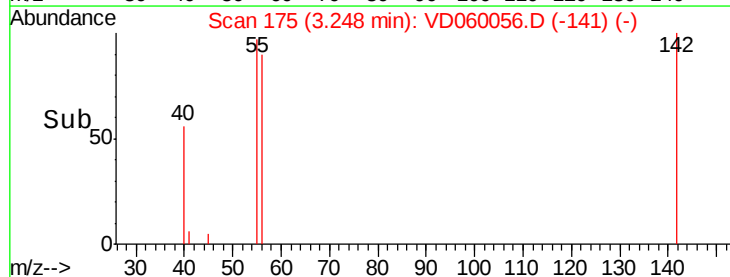
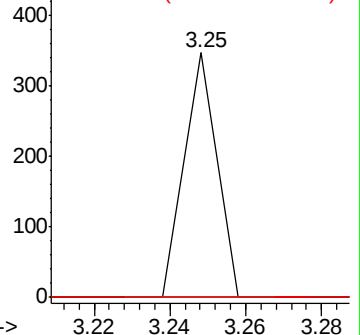
141 0.0 12.2 18.4#

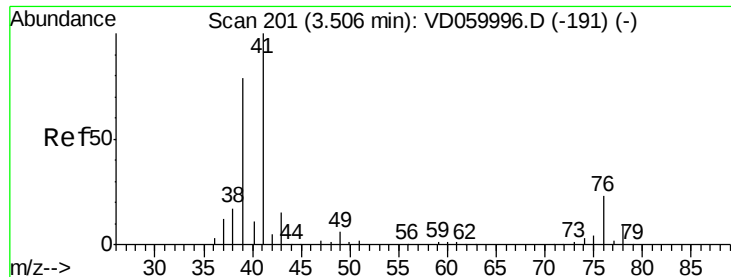


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

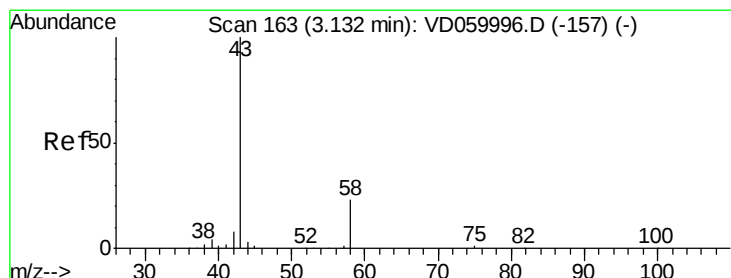
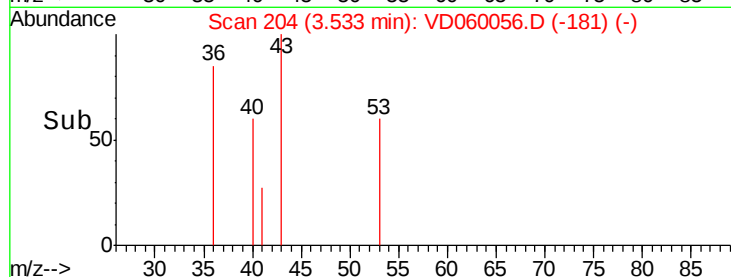
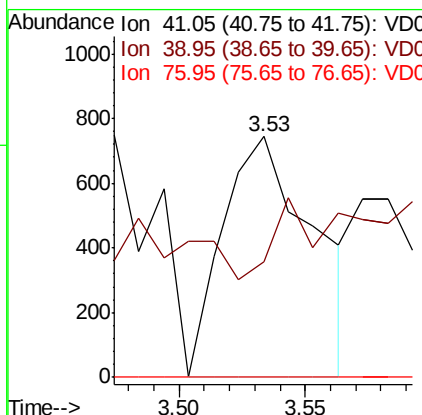
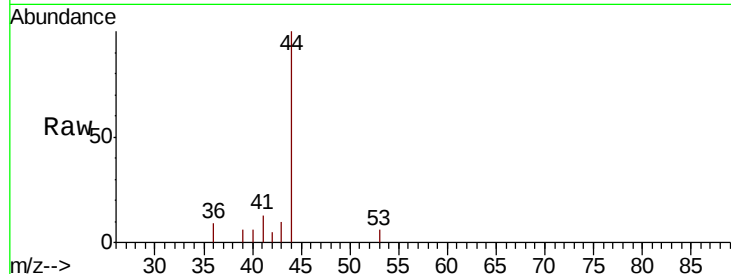




#14
Allvl chloride
Concen: 11.26 ug/l
RT: 3.53 min Scan# 204
Delta R.T. 0.03 min
Lab File: VD060056.D
Acq: 20 Sep 2018 19:04

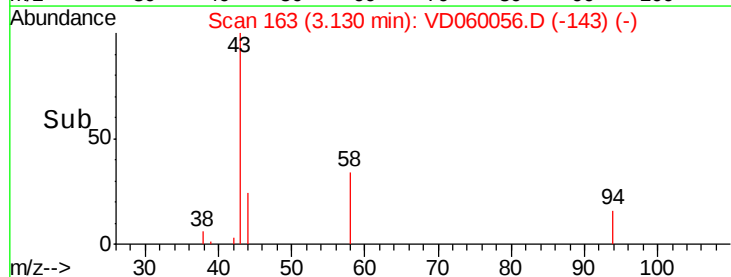
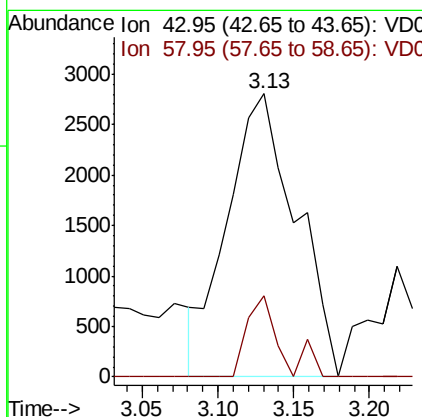
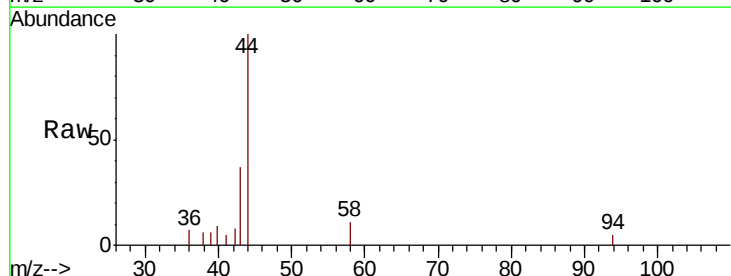
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-SW-058

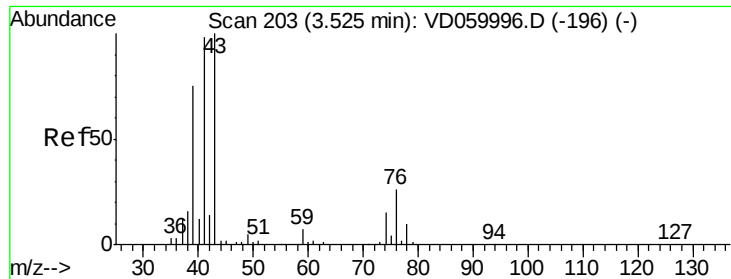
Tot Ion: 41 Resp: 1853
Ion Ratio Lower Upper
41 100
39 47.8 63.6 95.4#
76 0.0 21.1 31.7#



#16
Acetone
Concen: 310.34 ug/l
RT: 3.13 min Scan# 163
Delta R.T. -0.00 min
Lab File: VD060056.D
Acq: 20 Sep 2018 19:04

Tgt Ion: 43 Resp: 8861
Ion Ratio Lower Upper
43 100
58 28.5 18.1 27.1#

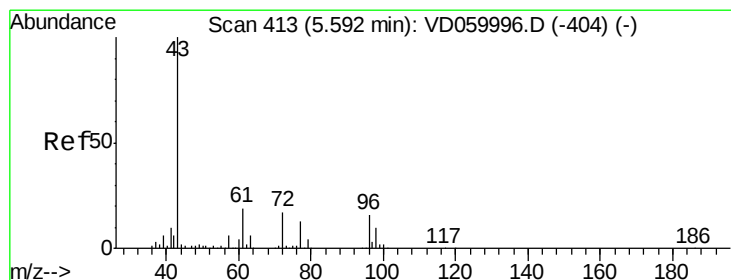
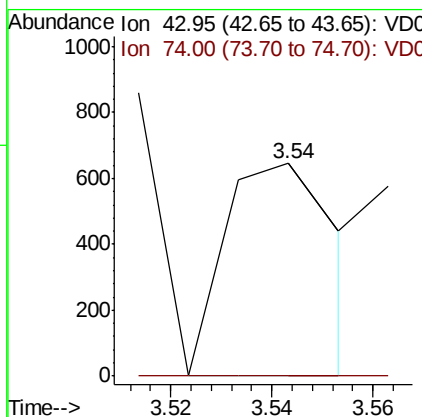
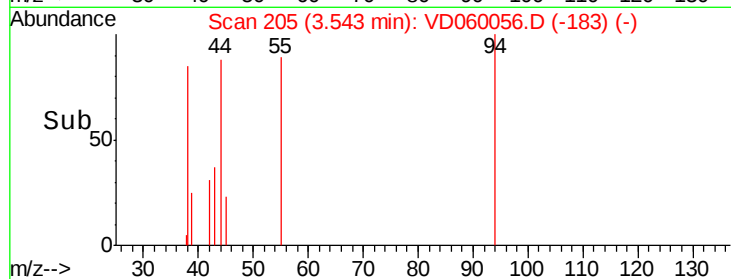
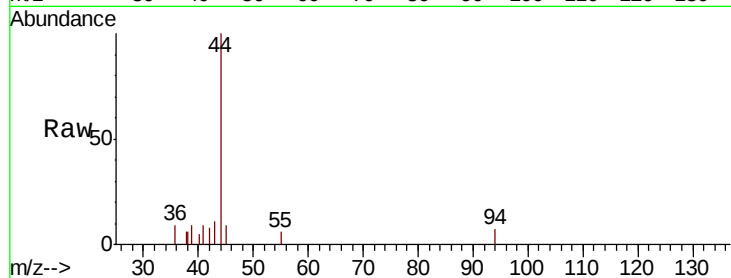




#18
Methyl Acetate
Concen: 17.10 ug/l
RT: 3.54 min Scan# 205
Delta R.T. 0.02 min
Lab File: VD060056.D
Acq: 20 Sep 2018 19:04

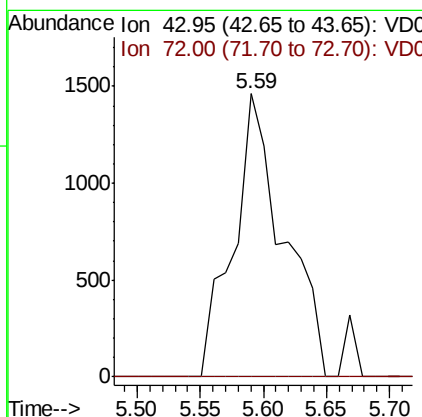
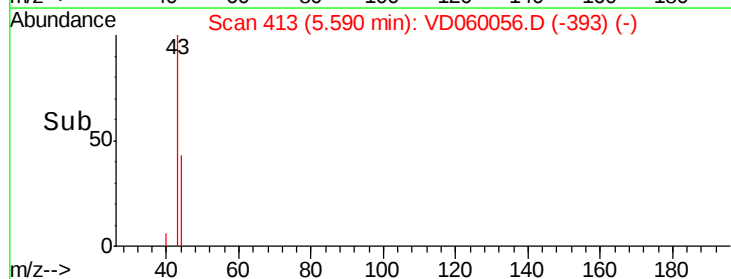
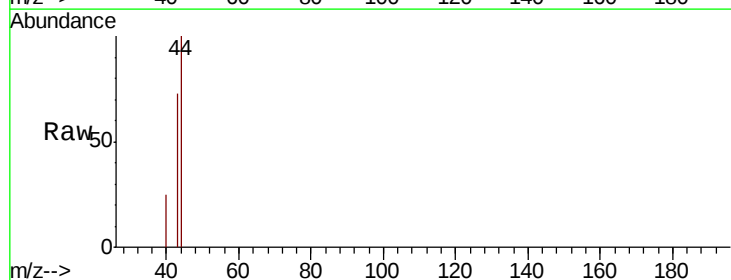
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-SW-058

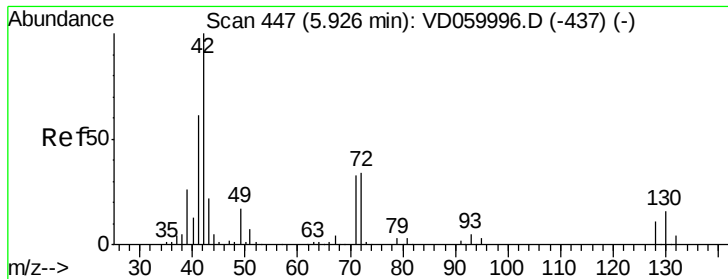
Tot Ion: 43 Resp: 993
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#25
2-Butanone
Concen: 52.40 ug/l
RT: 5.59 min Scan# 413
Delta R.T. -0.00 min
Lab File: VD060056.D
Acq: 20 Sep 2018 19:04

Tgt Ion: 43 Resp: 4037
Ion Ratio Lower Upper
43 100
72 0.0 13.6 20.4#





#29

Tetrahydrofuran

Concen: 4.43 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.02 min

Lab File: VD060056.D

Acq: 20 Sep 2018 19:04

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058

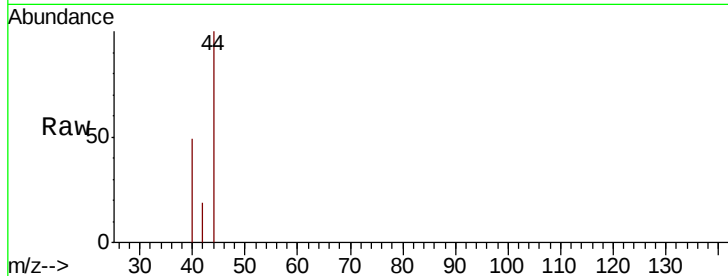
Tot Ion: 42 Resp: 183

Ion Ratio Lower Upper

42 100

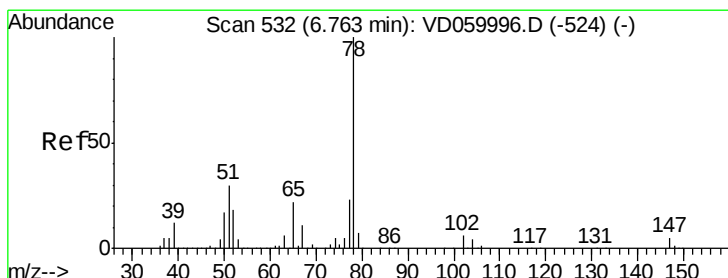
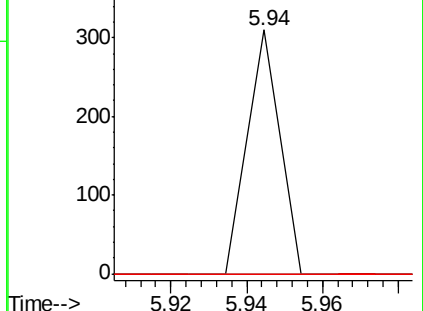
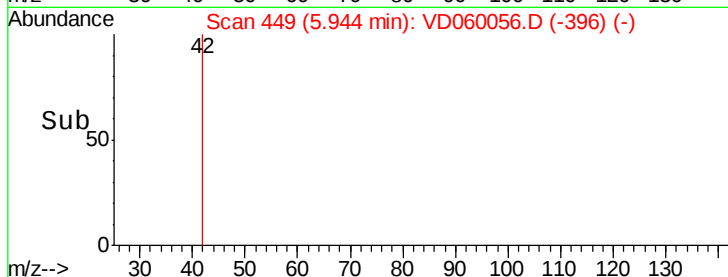
72 0.0 26.9 40.3#

71 0.0 26.2 39.4#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

5.94



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.76 min Scan# 532

Delta R.T. -0.00 min

Lab File: VD060056.D

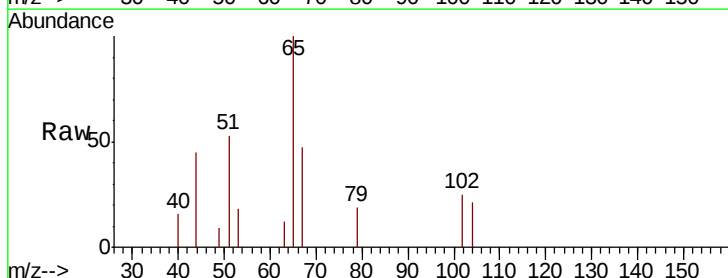
Acq: 20 Sep 2018 19:04

Tgt Ion: 65 Resp: 9482

Ion Ratio Lower Upper

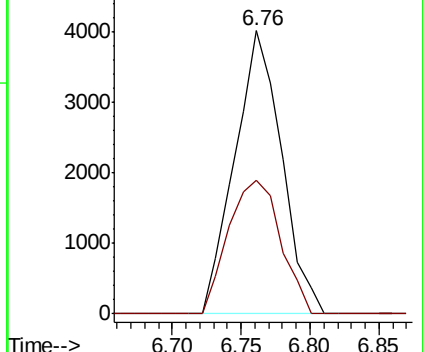
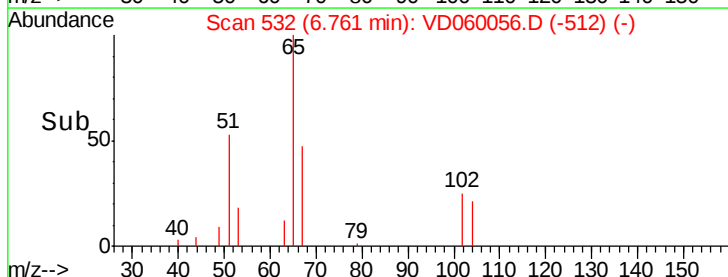
65 100

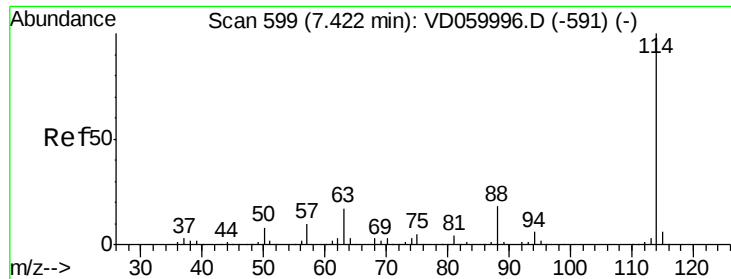
67 47.4 0.0 104.8



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

6.76

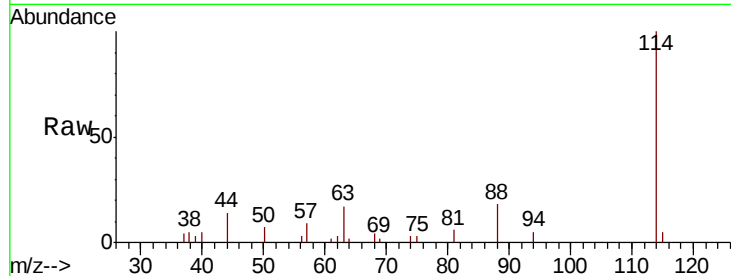




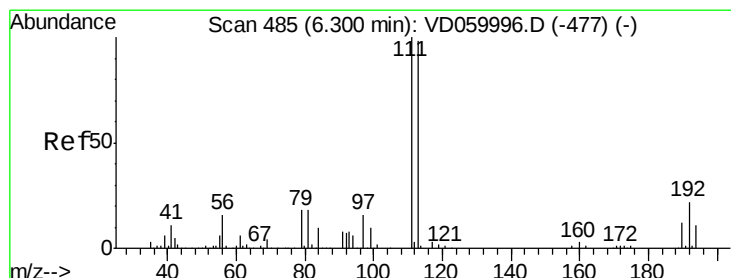
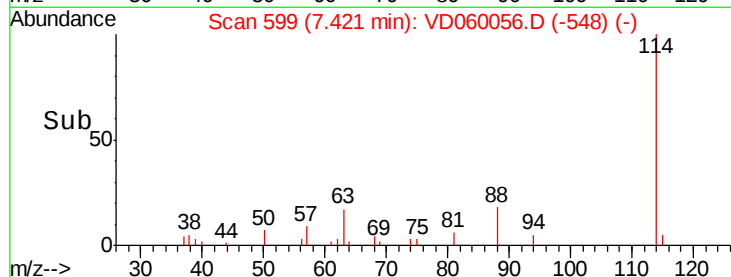
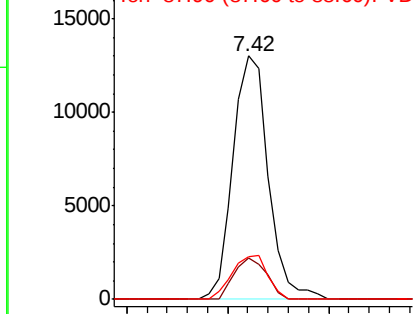
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 599
 Delta R.T. -0.00 min
 Lab File: VD060056.D
 Acq: 20 Sep 2018 19:04

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058

Tot Ion:114 Resp: 31775
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 34.4
 88 17.7 0.0 35.8

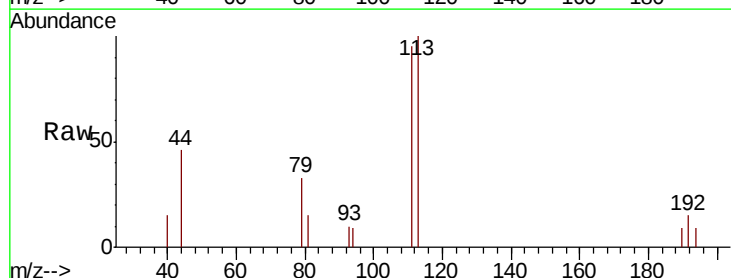


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

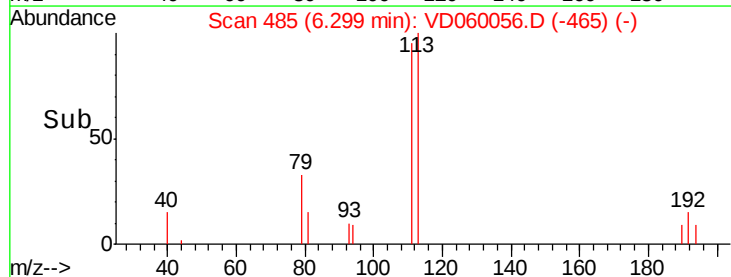
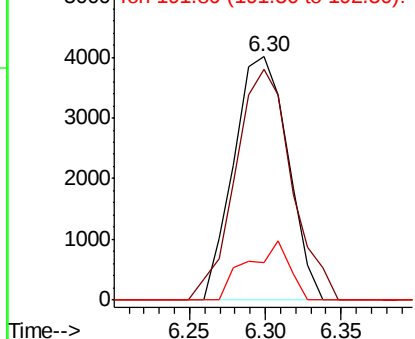


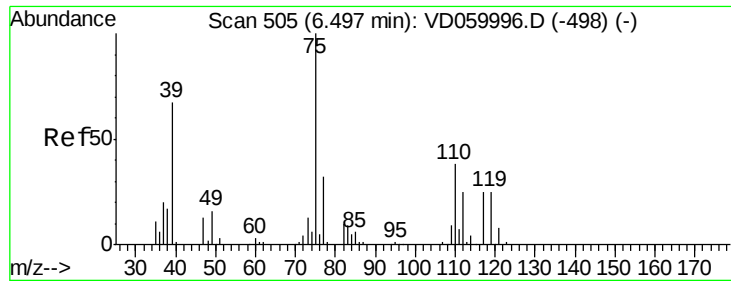
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.30 min Scan# 485
 Delta R.T. -0.00 min
 Lab File: VD060056.D
 Acq: 20 Sep 2018 19:04

Tgt Ion:113 Resp: 9974
 Ion Ratio Lower Upper
 113 100
 111 94.9 81.3 121.9
 192 15.2 18.1 27.1#



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

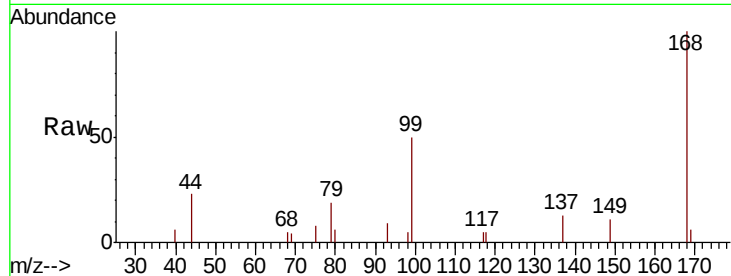




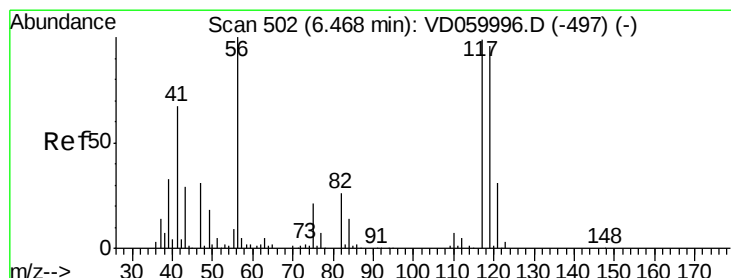
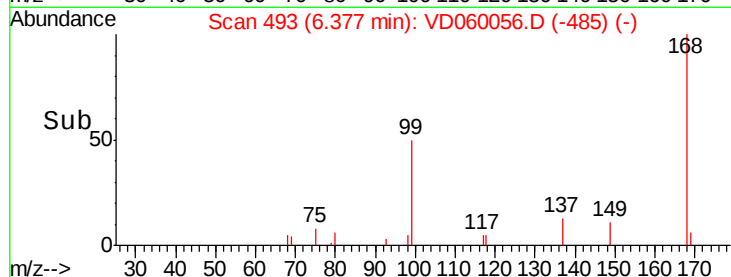
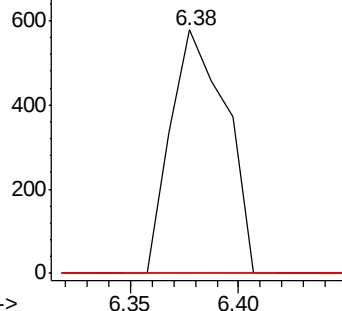
#36
 1,1-Dichloropropene
 Concen: 3.26 ug/l
 RT: 6.38 min Scan# 493
 Delta R.T. -0.12 min
 Lab File: VD060056.D
 Acq: 20 Sep 2018 19:04

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058

Tot Ion: 75 Resp: 1030
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.9 56.9#
 77 0.0 25.3 37.9#

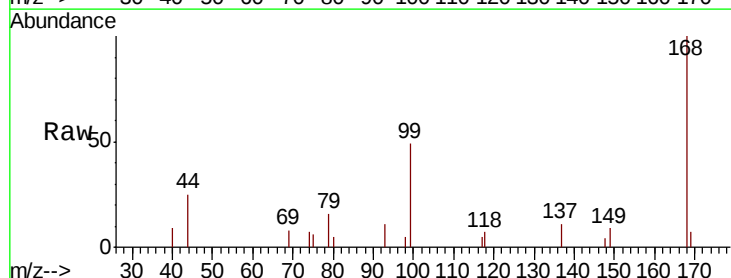


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): V

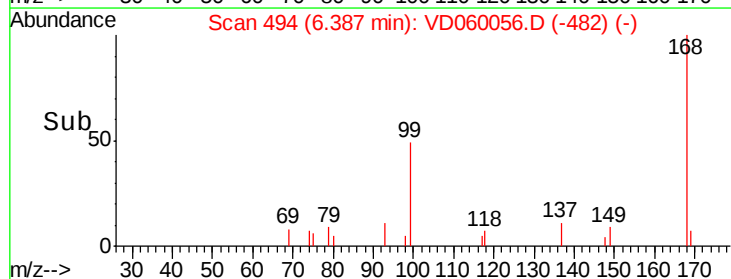
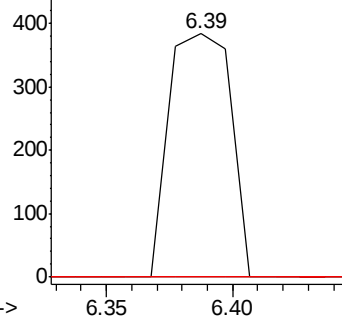


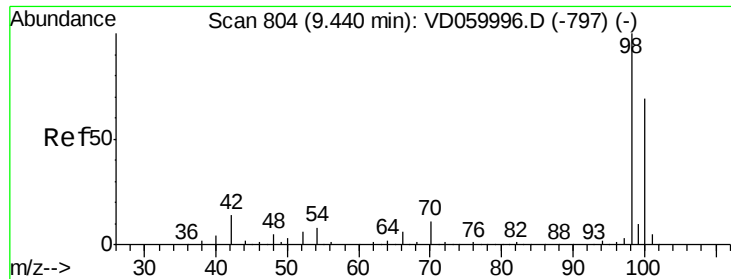
#38
 Carbon Tetrachloride
 Concen: 2.22 ug/l
 RT: 6.39 min Scan# 494
 Delta R.T. -0.08 min
 Lab File: VD060056.D
 Acq: 20 Sep 2018 19:04

Tgt Ion: 117 Resp: 655
 Ion Ratio Lower Upper
 117 100
 119 0.0 76.7 115.1#
 121 0.0 24.9 37.3#



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

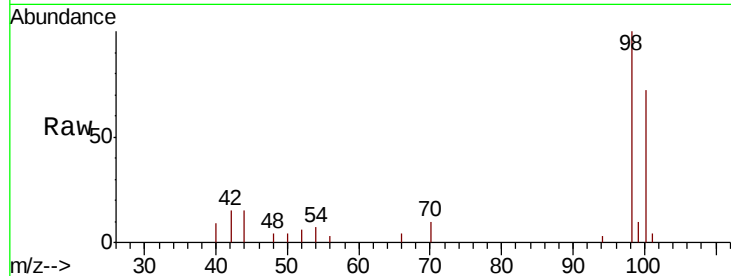




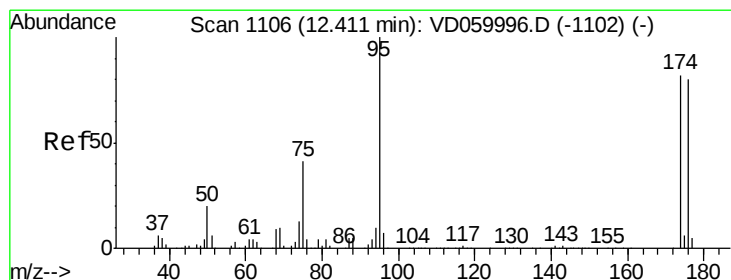
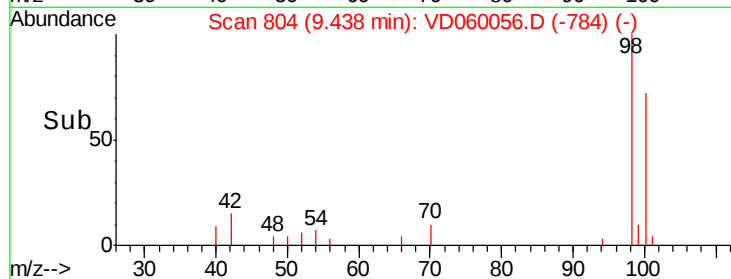
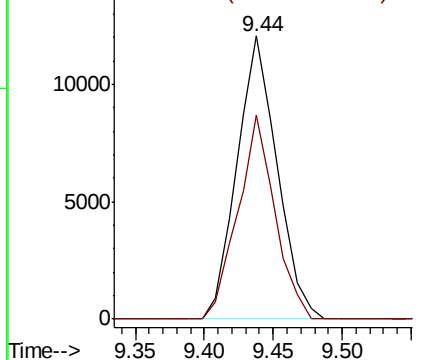
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.44 min Scan# 804
Delta R.T. -0.00 min
Lab File: VD060056.D
Acq: 20 Sep 2018 19:04

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-SW-058

Tot Ion: 98 Resp: 24395
Ion Ratio Lower Upper
98 100
100 72.1 55.8 83.6

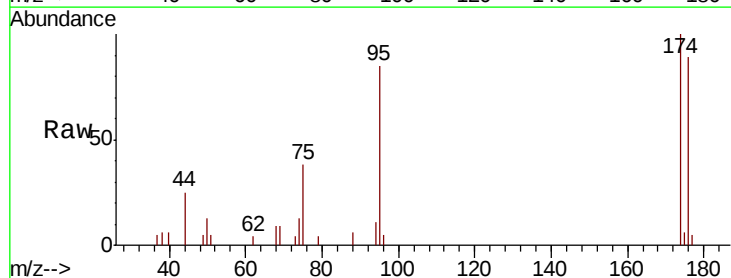


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

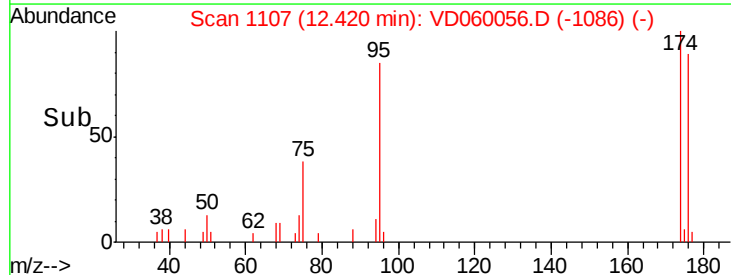
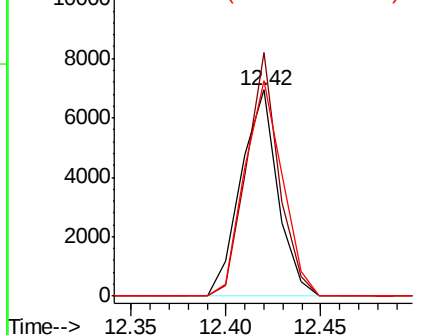


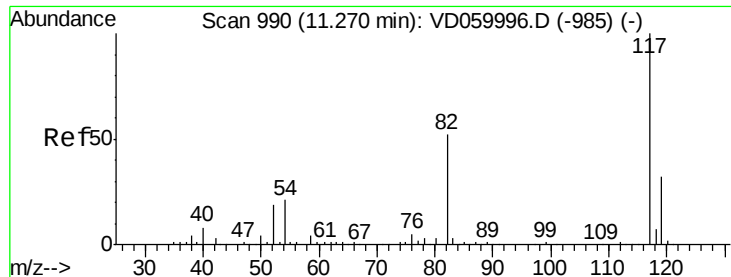
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD060056.D
Acq: 20 Sep 2018 19:04

Tgt Ion: 95 Resp: 9319
Ion Ratio Lower Upper
95 100
174 118.2 0.0 165.0
176 104.8 0.0 160.2



Abundance Ion 95.00 (94.70 to 95.70): VD0
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VD060056.D

Acq: 20 Sep 2018 19:04

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058

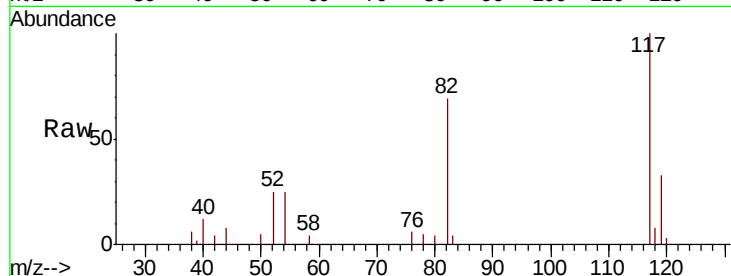
Tot Ion:117 Resp: 26999

Ion Ratio Lower Upper

117 100

82 69.4 41.7 62.5#

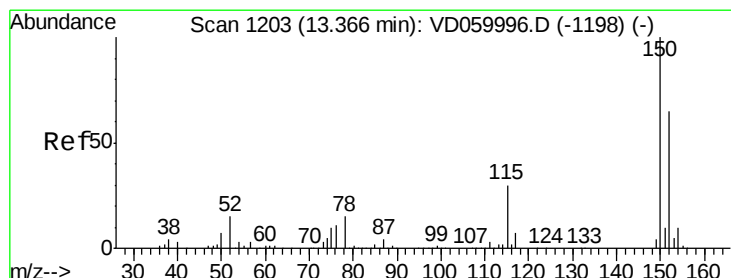
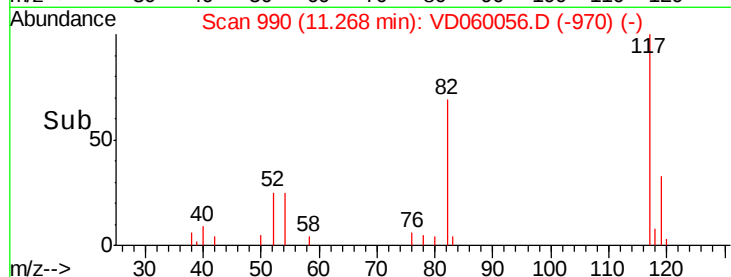
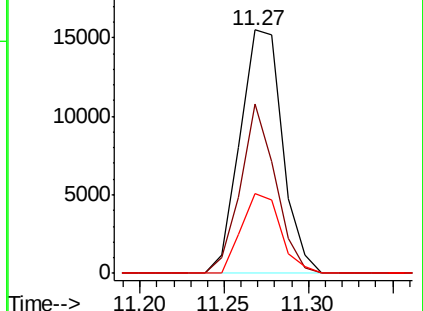
119 32.9 26.0 39.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD060056.D

Acq: 20 Sep 2018 19:04

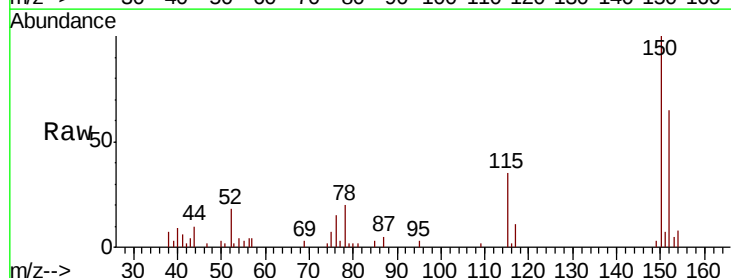
Tgt Ion:152 Resp: 13042

Ion Ratio Lower Upper

152 100

115 54.1 24.6 73.8

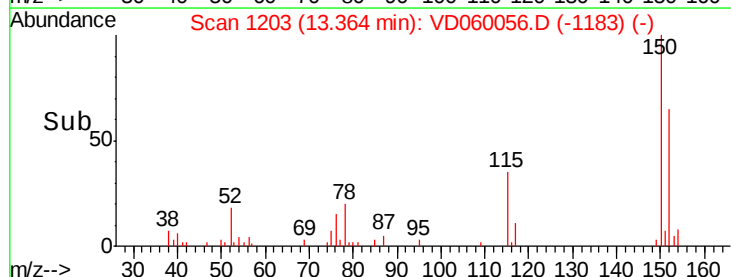
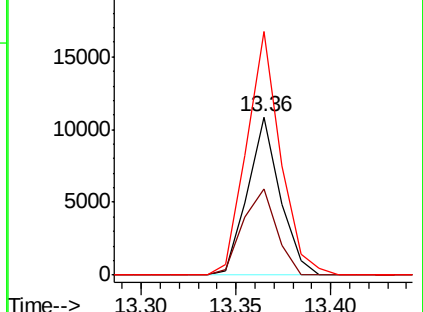
150 153.6 0.0 313.4

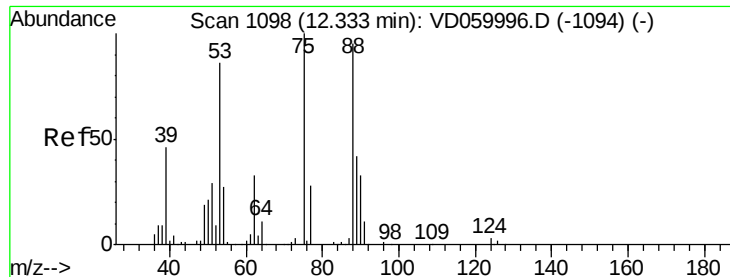


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 71.51 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.09 min

Lab File: VD060056.D

Acq: 20 Sep 2018 19:04

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058

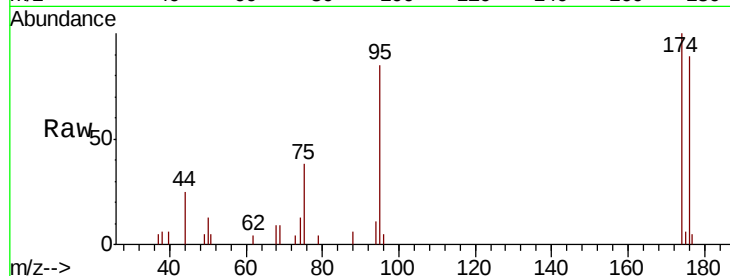
Tot Ion: 75 Resp: 4300

Ion Ratio Lower Upper

75 100

53 0.0 68.4 102.6#

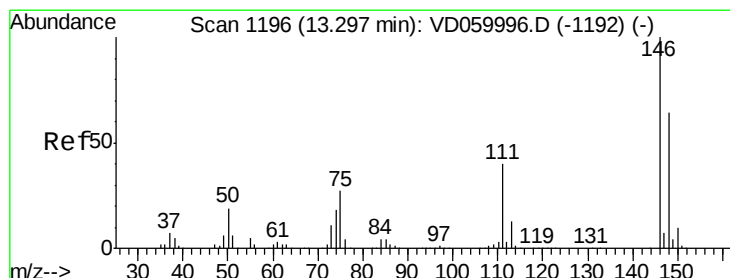
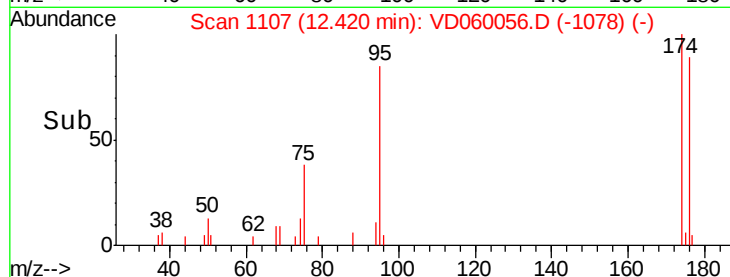
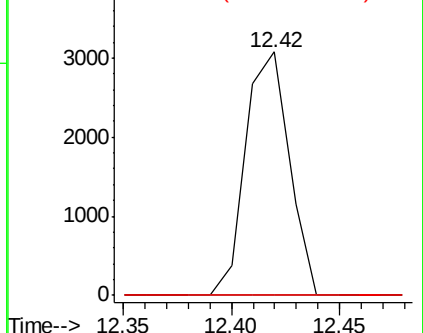
89 0.0 33.8 50.6#



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



#87

1,3-Dichlorobenzene

Concen: 1.10 ug/l

RT: 13.31 min Scan# 1197

Delta R.T. 0.01 min

Lab File: VD060056.D

Acq: 20 Sep 2018 19:04

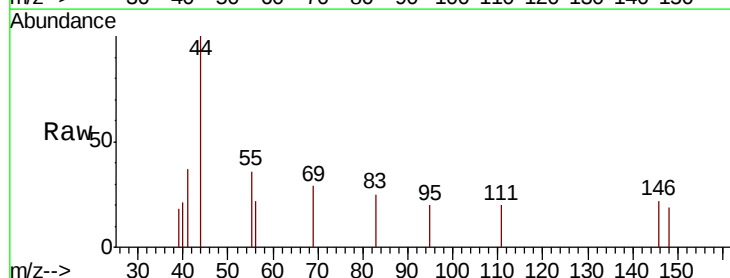
Tgt Ion: 146 Resp: 473

Ion Ratio Lower Upper

146 100

111 89.9 20.2 60.5#

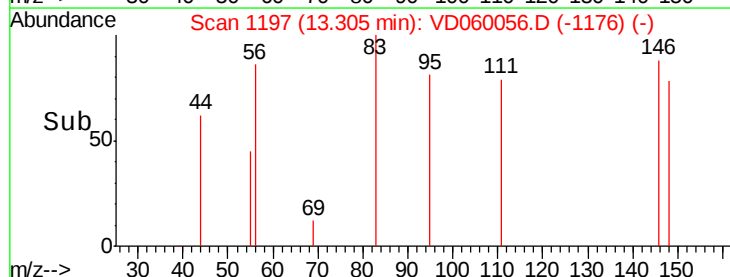
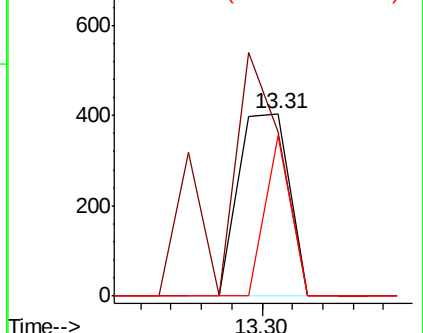
148 87.9 32.0 96.2

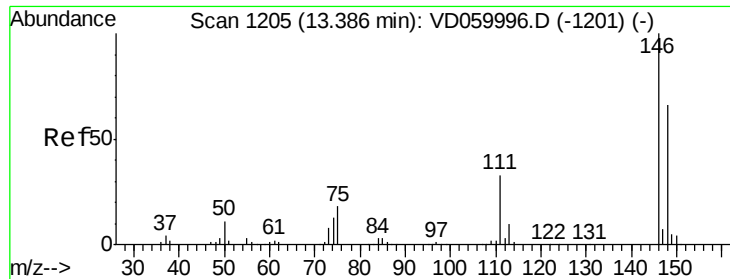


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

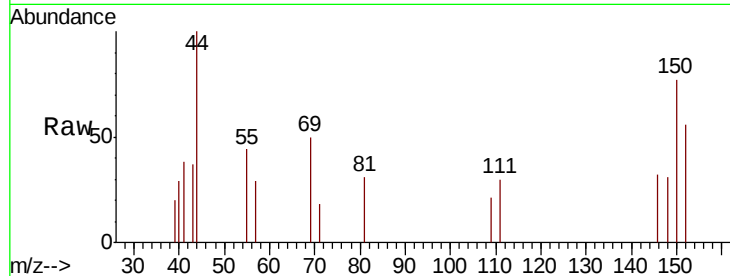




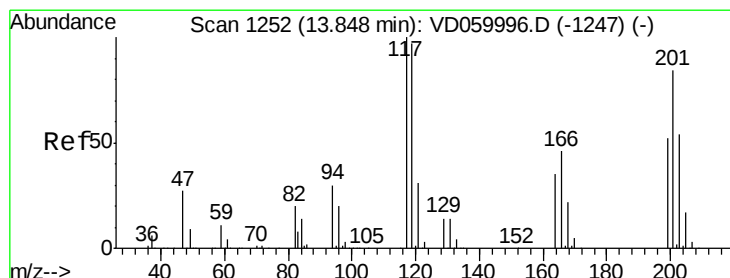
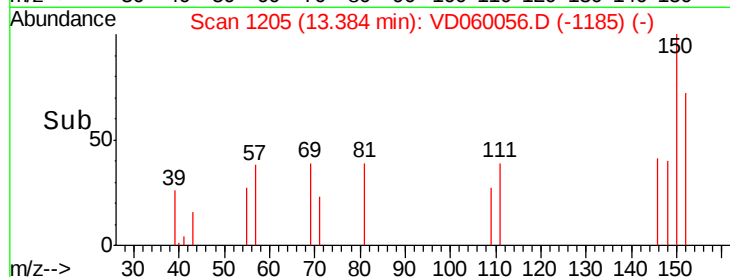
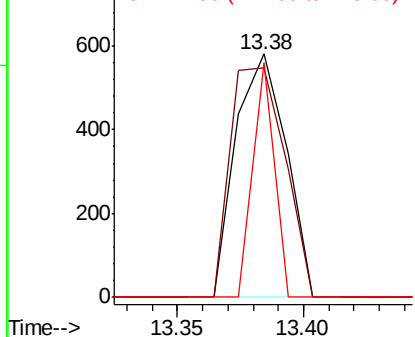
#88
 1,4-Dichlorobenzene
 Concen: 1.85 ug/l
 RT: 13.38 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VD060056.D
 Acq: 20 Sep 2018 19:04

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058

Tot Ion:146 Resp: 803
 Ion Ratio Lower Upper
 146 100
 111 94.3 16.7 50.0#
 148 96.4 32.9 98.6

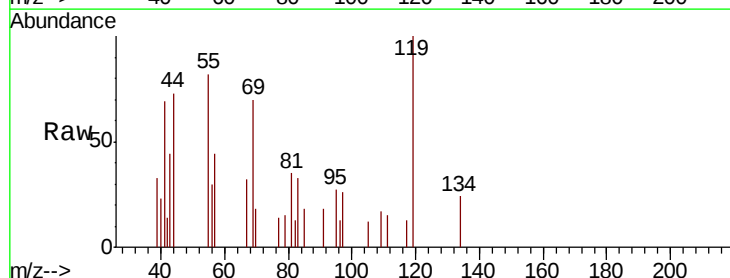


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

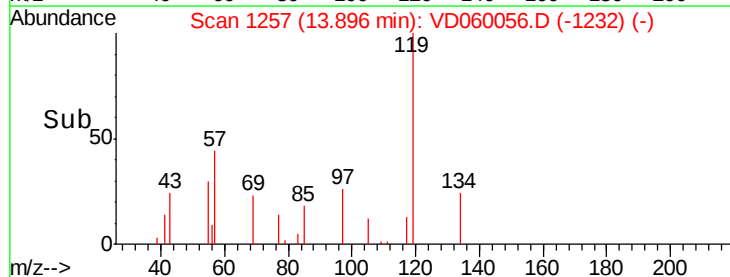
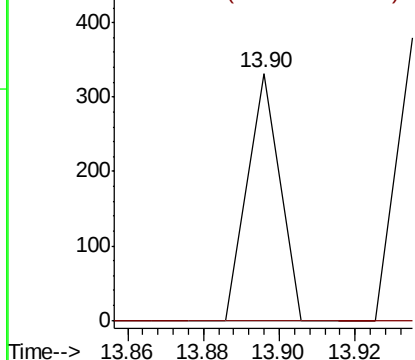


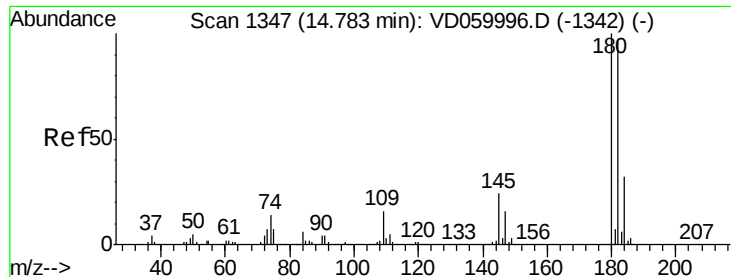
#90
 Hexachloroethane
 Concen: 1.09 ug/l
 RT: 13.90 min Scan# 1257
 Delta R.T. 0.05 min
 Lab File: VD060056.D
 Acq: 20 Sep 2018 19:04

Tgt Ion:117 Resp: 196
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.1 126.4#



Abundance Ion 116.85 (116.55 to 117.55): V
 Ion 200.75 (200.45 to 201.45): V

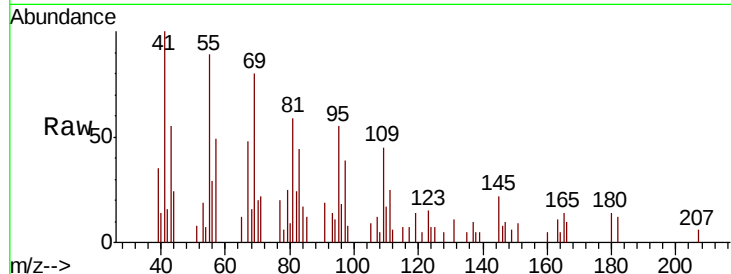




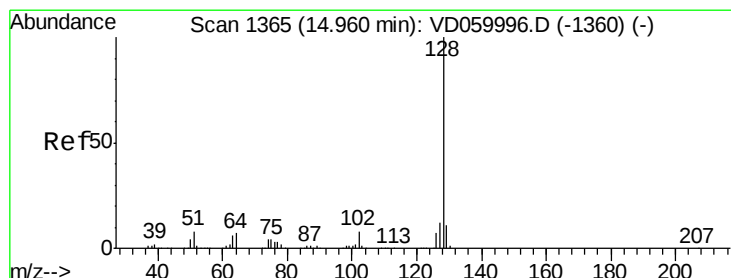
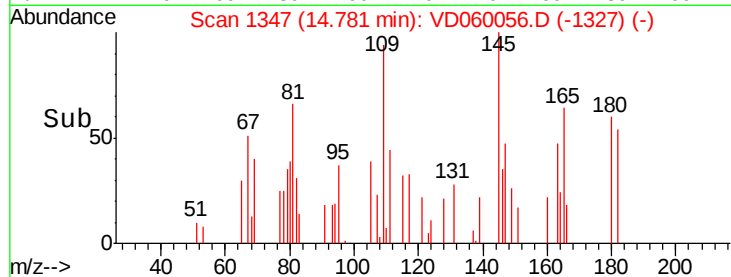
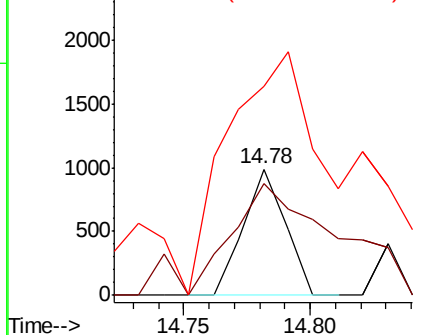
#93
 1,2,4-Trichlorobenzene
 Concen: 3.74 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. -0.00 min
 Lab File: VD060056.D
 Acq: 20 Sep 2018 19:04

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058

Tot Ion:180 Resp: 1141
 Ion Ratio Lower Upper
 180 100
 182 88.9 48.5 145.6
 145 165.7 11.9 35.7#

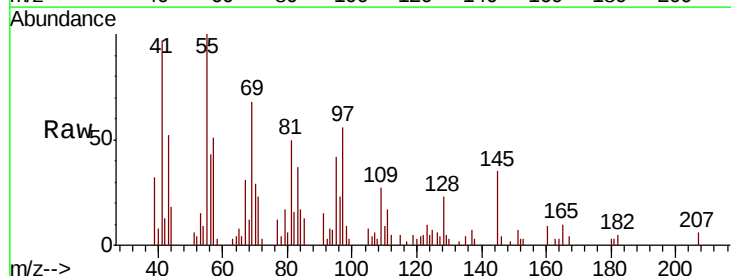


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

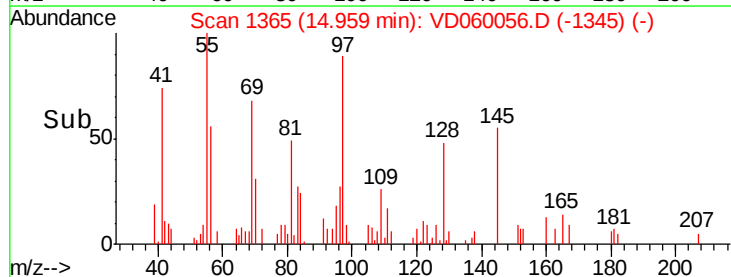
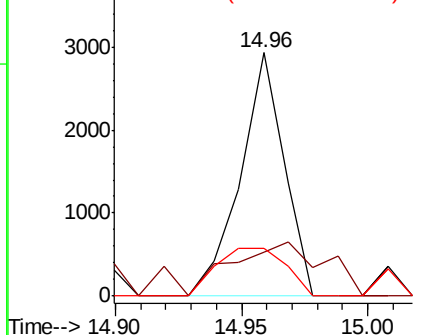


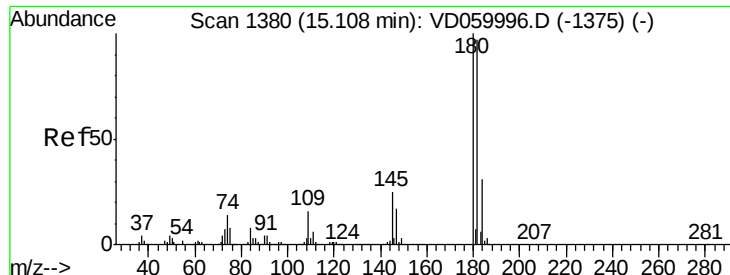
#95
 Naphthalene
 Concen: 7.52 ug/l
 RT: 14.96 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VD060056.D
 Acq: 20 Sep 2018 19:04

Tgt Ion:128 Resp: 3545
 Ion Ratio Lower Upper
 128 100
 127 18.1 9.7 14.5#
 129 19.8 8.9 13.3#



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





#96
 1,2,3-Trichlorobenzene
 Concen: 7.86 ug/l
 RT: 15.09 min Scan# 1378
 Delta R.T. -0.02 min
 Lab File: VD060056.D
 Acq: 20 Sep 2018 19:04

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.6	145.9#
145	196.4	12.7	38.1#

