

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032219\
 Data File : VD061273.D
 Acq On : 22 Mar 2019 20:56
 Operator : VA/AP
 Sample : K2050-01
 Misc : 4.36g/5ml/MSVOA D/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CS-5

Quant Time: Mar 22 23:30:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.10	168	34887	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.26	114	57742	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.39	117	31677	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.54	152	6497	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.50	65	28511	98.18	ug/l	0.05
Spiked Amount			Recovery	=	196.36%	
35) Dibromofluoromethane	6.98	113	32785	76.51	ug/l	0.05
Spiked Amount			Recovery	=	153.02%	
50) Toluene-d8	10.44	98	53627	49.83	ug/l	0.04
Spiked Amount			Recovery	=	99.66%	
62) 4-Bromofluorobenzene	13.57	95	9421	22.56	ug/l	0.02
Spiked Amount			Recovery	=	45.12%	

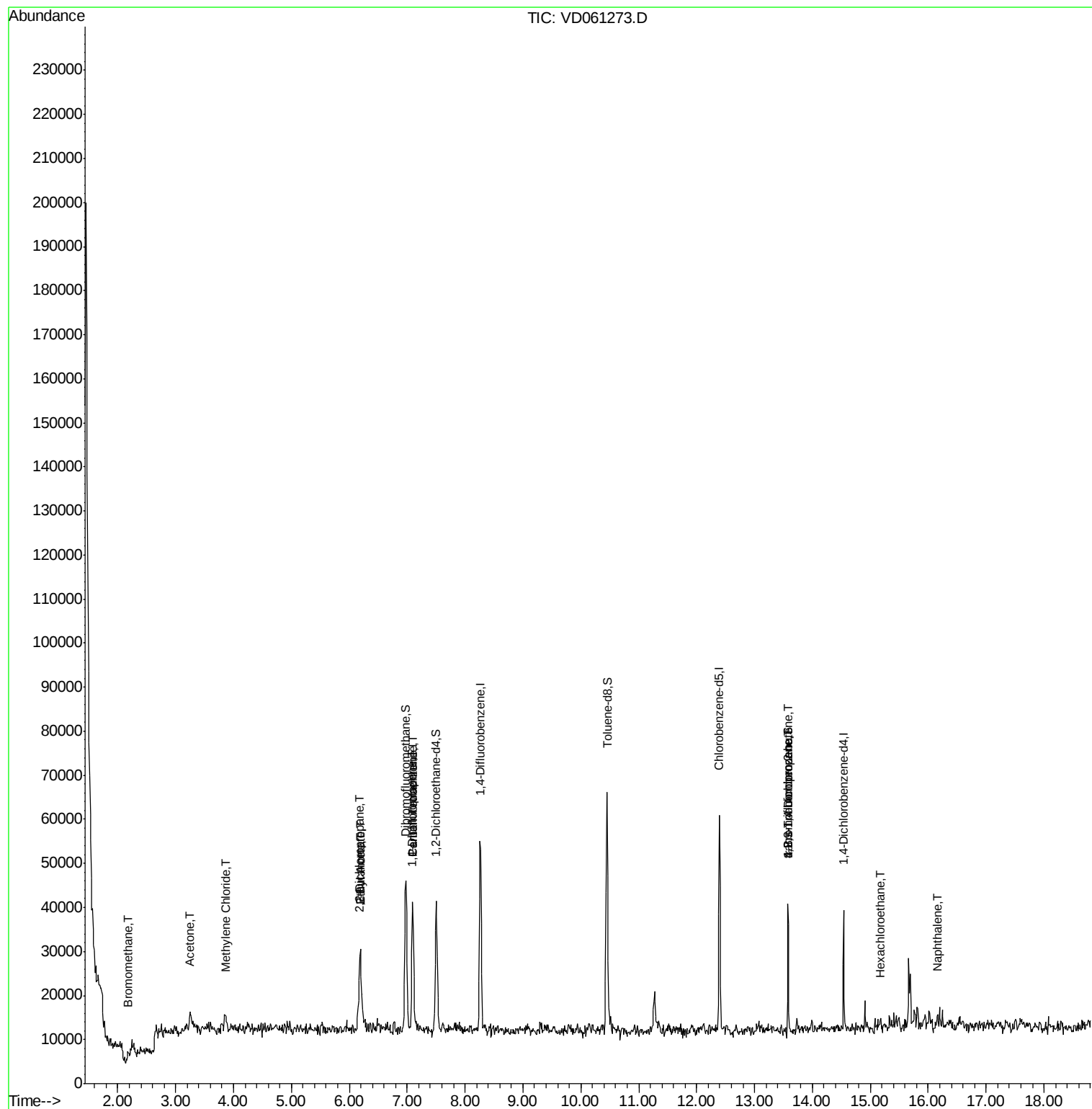
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	217	3.245	ug/l #	1
16) Acetone	3.26	43	8254	99.397	ug/l	94
20) Methylene Chloride	3.88	84	2549	2.281	ug/l #	80
25) 2-Butanone	6.19	43	470	4.988	ug/l #	55
26) 2,2-Dichloropropane	6.17	77	522	1.049	ug/l #	50
36) 1,1-Dichloropropene	7.08	75	2145	4.310	ug/l #	39
37) Ethyl Acetate	6.19	43	470	2.012	ug/l #	66
38) Carbon Tetrachloride	7.10	117	2444	4.458	ug/l #	11
76) 1,2,3-Trichloropropane	13.57	75	3477	37.199	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.57	75	3477	126.174	ug/l #	17
90) Hexachloroethane	15.16	117	198	1.806	ug/l #	13
95) Naphthalene	16.14	128	653	5.206	ug/l #	70

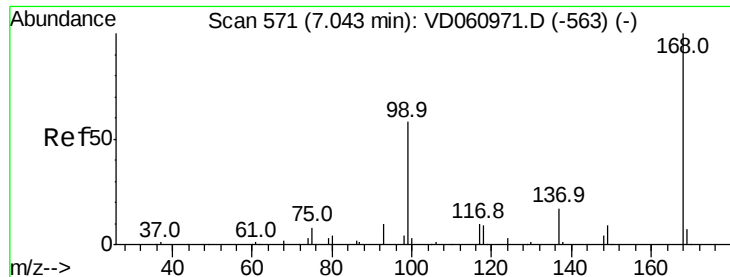
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD032219\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.10 min Scan# 576

Delta R.T. 0.05 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

Instrument :

MSVOA_D

ClientSampled :

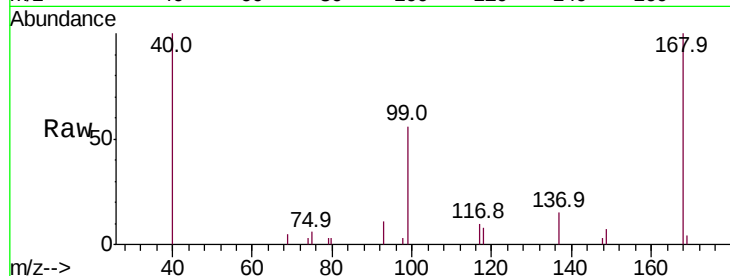
CS-5

Tot Ion:168 Resp: 34887

Ion Ratio Lower Upper

168 100

99 56.5 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.10

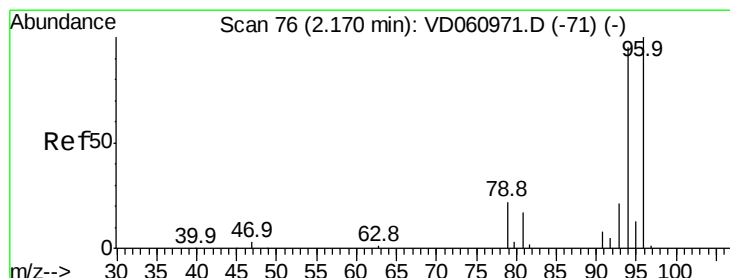
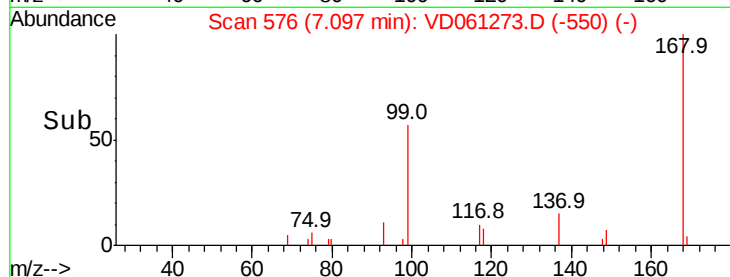
10000

5000

0

Time-->

7.00 7.10 7.20



#5

Bromomethane

Concen: 3.245 ug/l

RT: 2.18 min Scan# 77

Delta R.T. 0.02 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

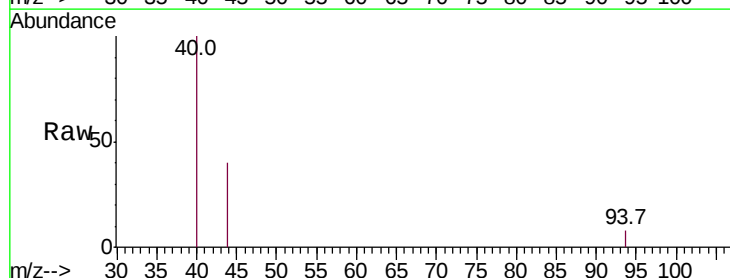
Tgt Ion: 94 Resp: 217

Ion Ratio Lower Upper

94 100

96 0.0 84.0 126.0#

93 100.0 17.3 25.9#



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

2.18

500

400

300

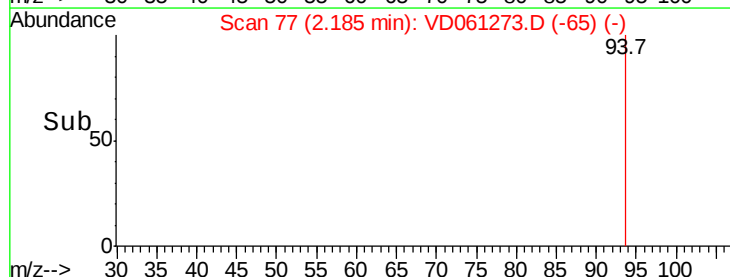
200

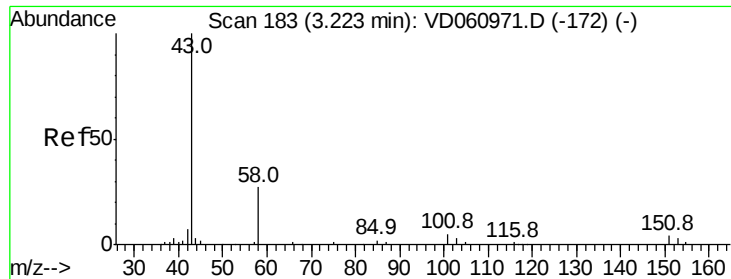
100

0

Time-->

2.16 2.18 2.20





#16

Acetone

Concen: 99.397 ug/l

RT: 3.26 min Scan# 186

Delta R.T. 0.03 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

Instrument :

MSVOA_D

ClientSampleId :

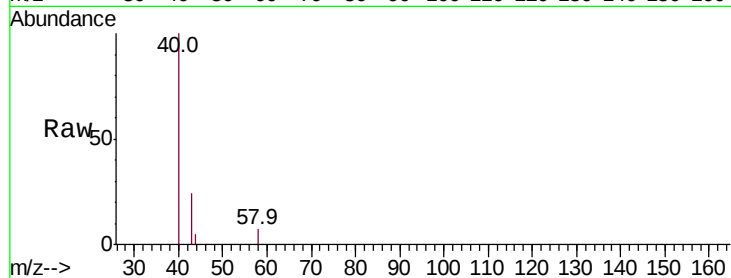
CS-5

Tot Ion: 43 Resp: 8254

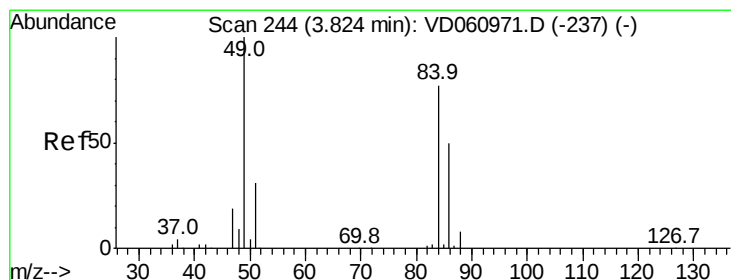
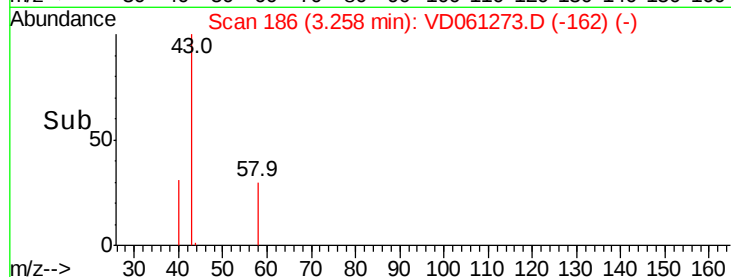
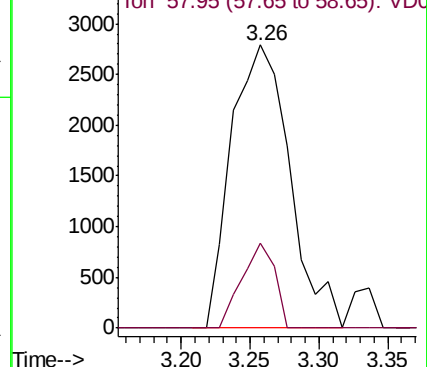
Ion Ratio Lower Upper

43 100

58 29.9 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC



#20

Methylene Chloride

Concen: 2.281 ug/l

RT: 3.88 min Scan# 249

Delta R.T. 0.05 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

Tgt Ion: 84 Resp: 2549

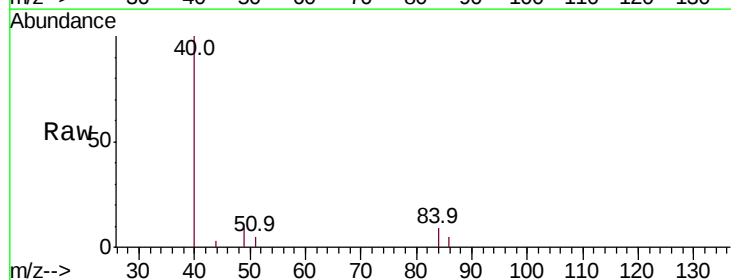
Ion Ratio Lower Upper

84 100

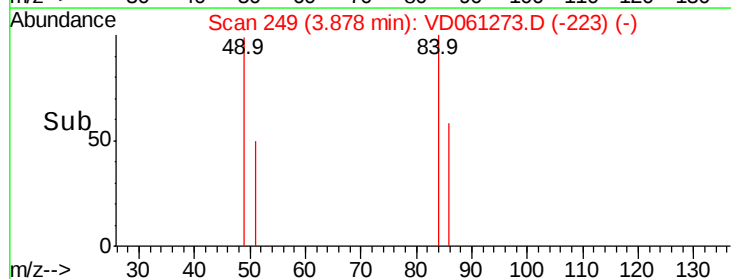
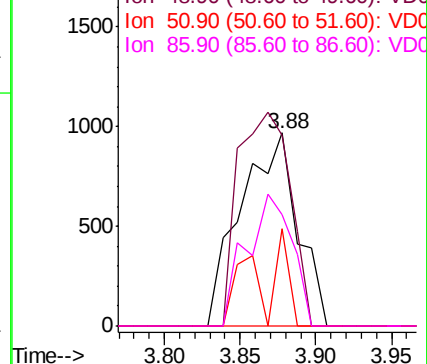
49 98.8 104.2 156.2#

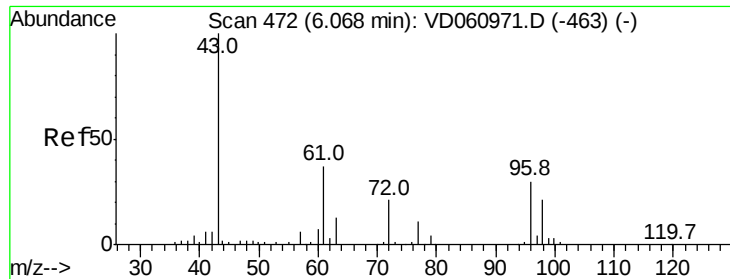
51 50.5 32.3 48.5#

86 57.8 52.3 78.5



Abundance Ion 83.95 (83.65 to 84.65): VDC





#25

2-Butanone

Concen: 4.988 ug/l

RT: 6.19 min Scan# 484

Delta R.T. 0.12 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

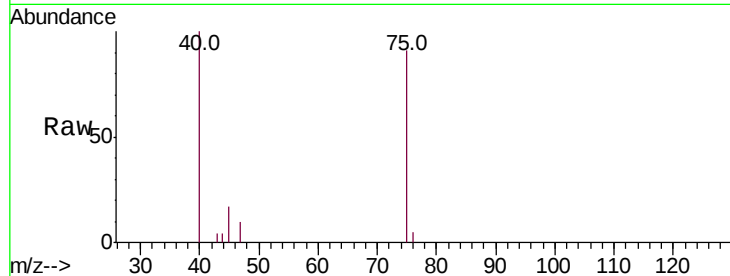
Instrument :
MSVOA_D
ClientSampled :
CS-5

Tot Ion: 43 Resp: 470

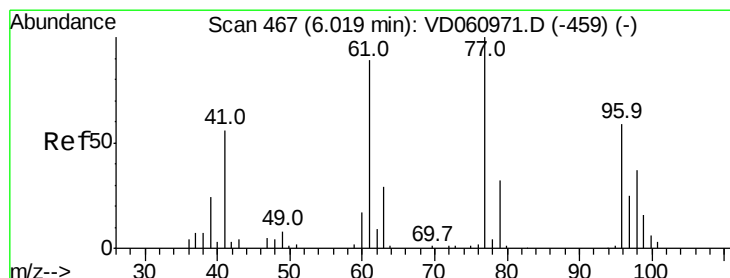
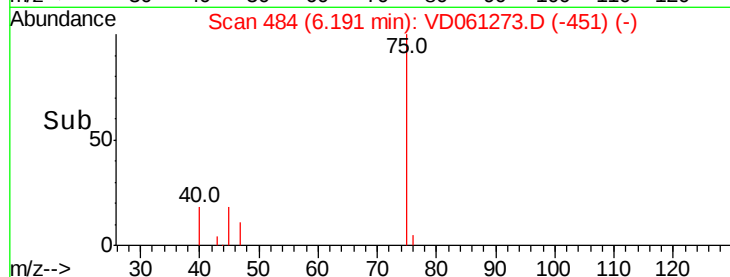
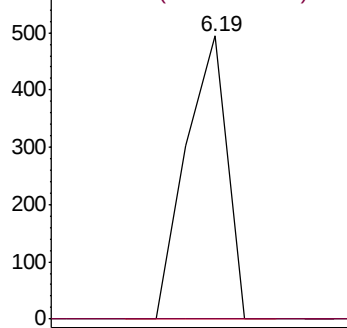
Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.049 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.15 min

Lab File: VD061273.D

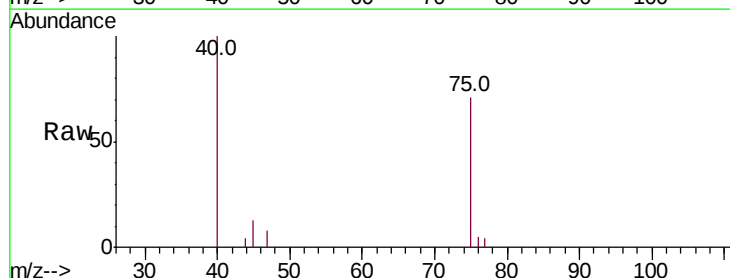
Acq: 22 Mar 2019 20:56

Tgt Ion: 77 Resp: 522

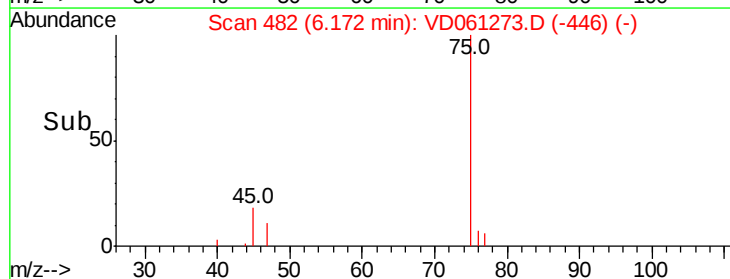
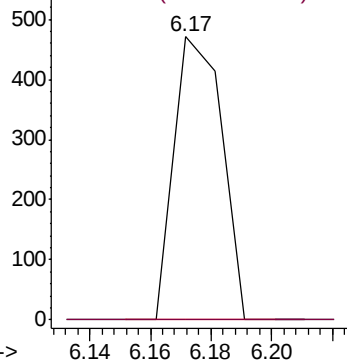
Ion Ratio Lower Upper

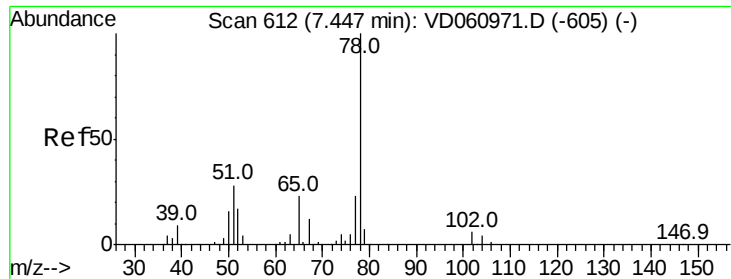
77 100

97 0.0 12.6 37.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC
Ion 96.85 (96.55 to 97.55): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.50 min Scan# 617

Delta R.T. 0.05 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

Instrument :

MSVOA_D

ClientSampleId :

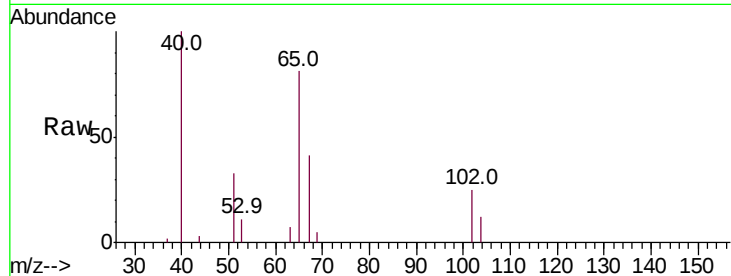
CS-5

Tot Ion: 65 Resp: 28511

Ion Ratio Lower Upper

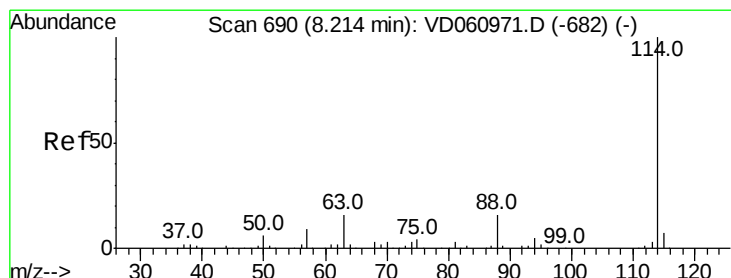
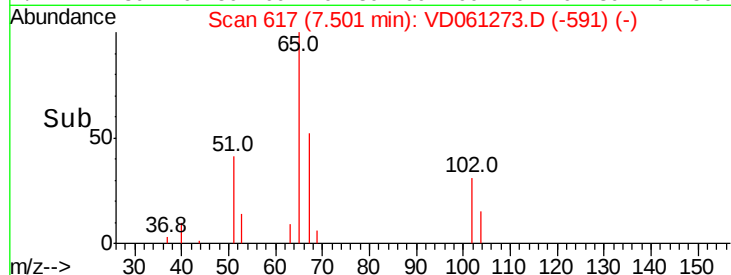
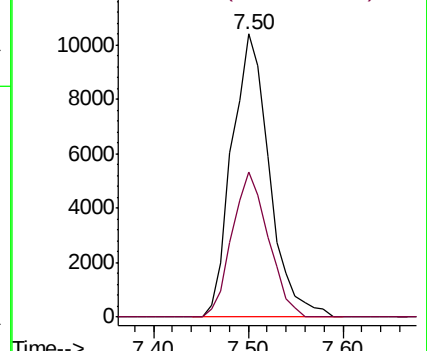
65 100

67 51.5 0.0 105.2



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: 8.26 min Scan# 694

Delta R.T. 0.04 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

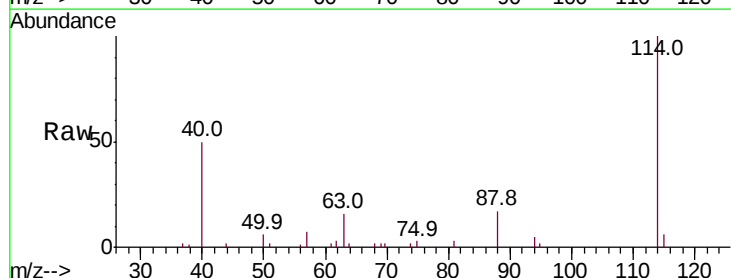
Tgt Ion:114 Resp: 57742

Ion Ratio Lower Upper

114 100

63 15.8 0.0 31.4

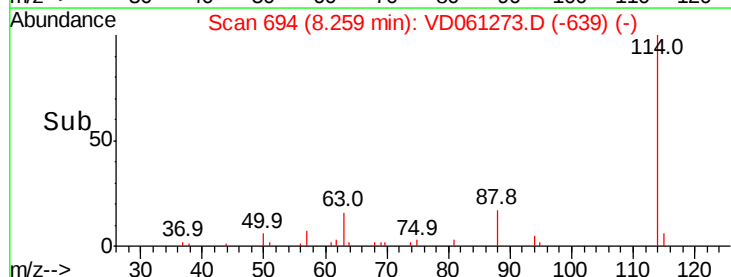
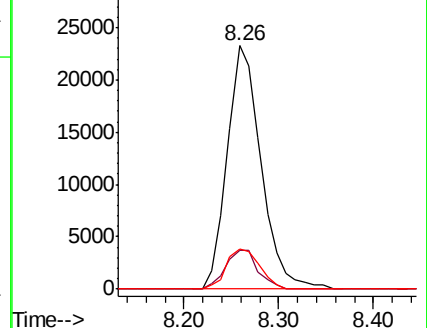
88 16.5 0.0 33.0

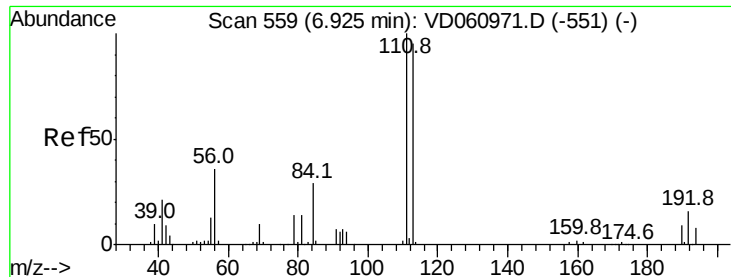


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.98 min Scan# 564

Delta R.T. 0.05 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

Instrument :

MSVOA_D

ClientSampleId :

CS-5

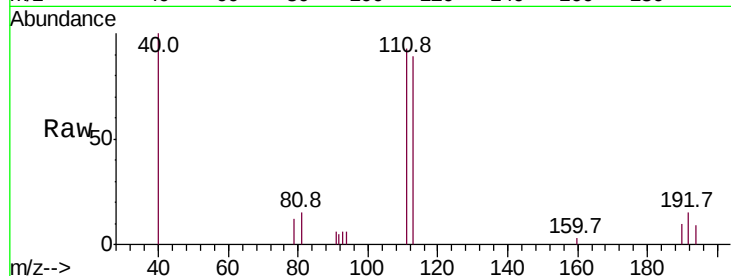
Tot Ion:113 Resp: 32785

Ion Ratio Lower Upper

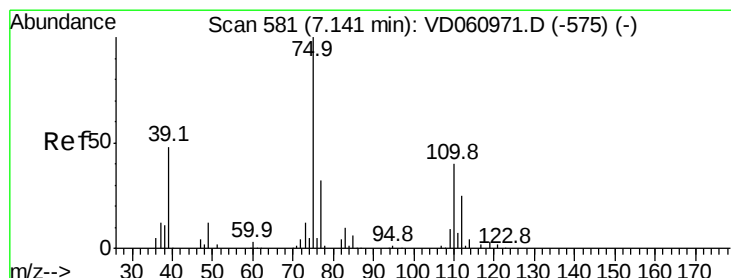
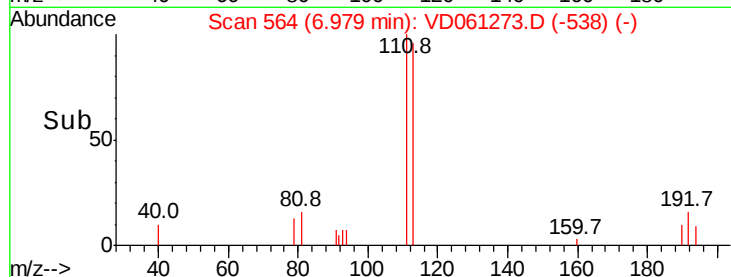
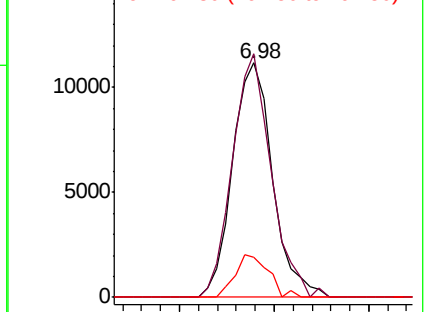
113 100

111 103.8 84.2 126.4

192 16.9 13.1 19.7



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: 4.310 ug/l

RT: 7.08 min Scan# 574

Delta R.T. -0.06 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

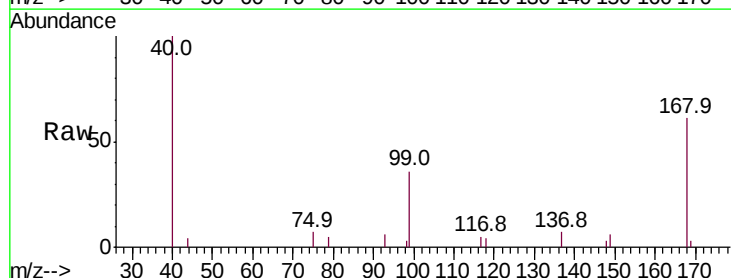
Tgt Ion: 75 Resp: 2145

Ion Ratio Lower Upper

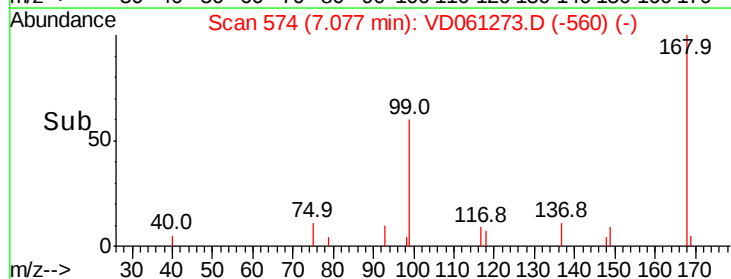
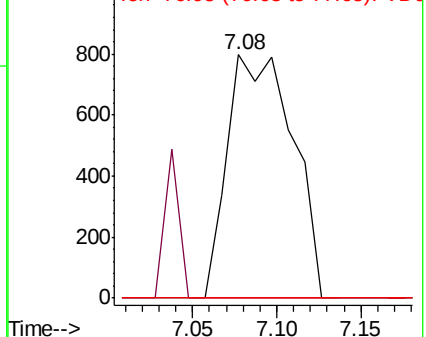
75 100

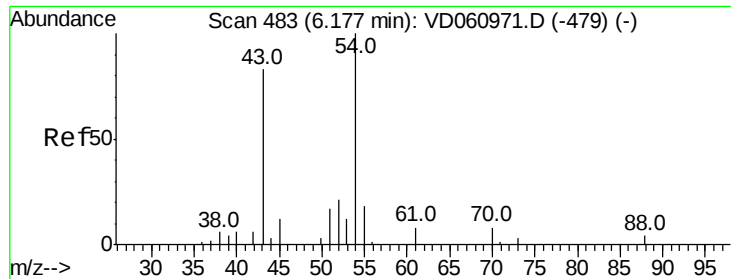
110 0.0 19.7 59.1#

77 0.0 24.7 37.1#



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

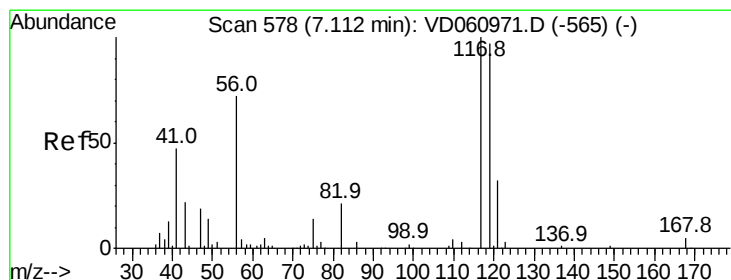
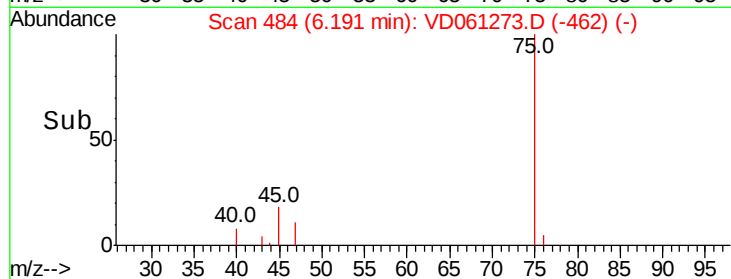
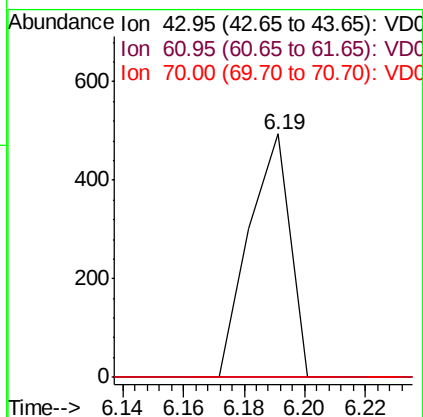
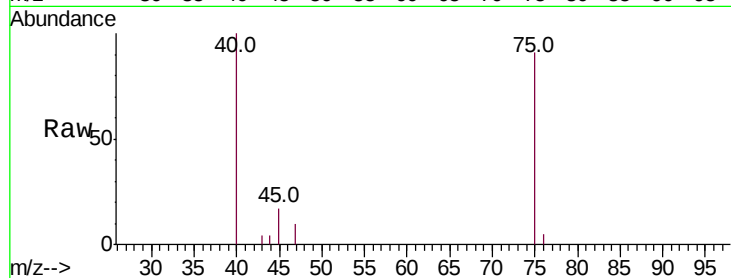




#37
Ethyl Acetate
Concen: 2.012 ug/l
RT: 6.19 min Scan# 484
Delta R.T. 0.01 min
Lab File: VD061273.D
Acq: 22 Mar 2019 20:56

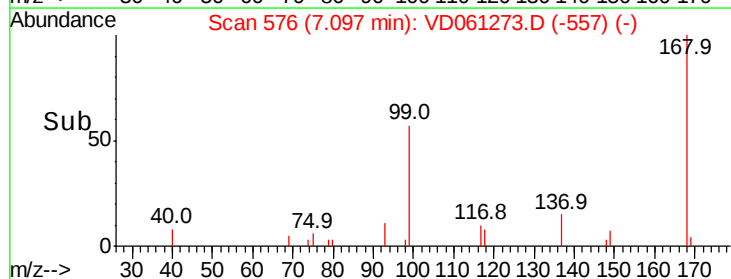
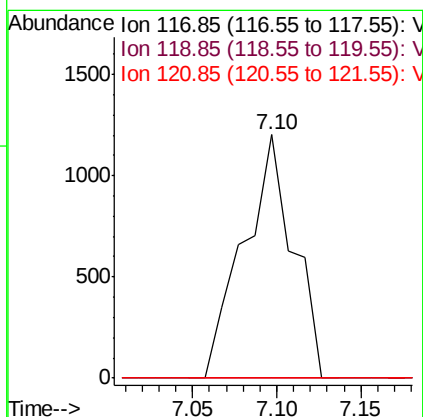
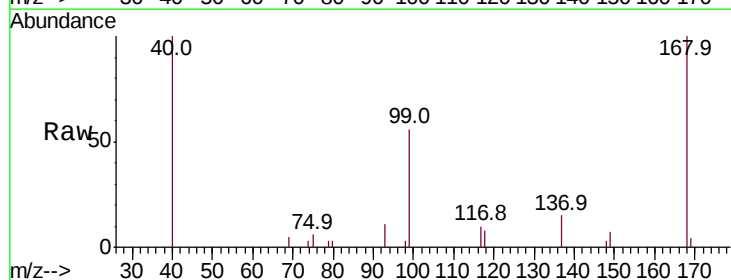
Instrument :
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ClientSampleId :
CS-5

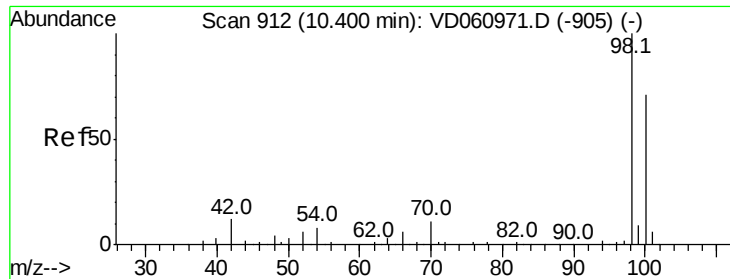
Tot Ion: 43 Resp: 470
Ion Ratio Lower Upper
43 100
61 0.0 13.7 20.5#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.458 ug/l
RT: 7.10 min Scan# 576
Delta R.T. -0.01 min
Lab File: VD061273.D
Acq: 22 Mar 2019 20:56

Tgt Ion: 117 Resp: 2444
Ion Ratio Lower Upper
117 100
119 0.0 77.8 116.8#
121 0.0 25.3 37.9#

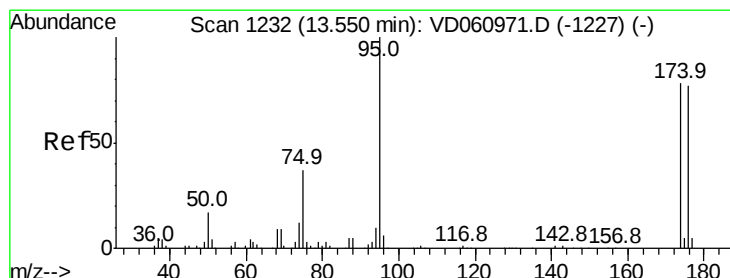
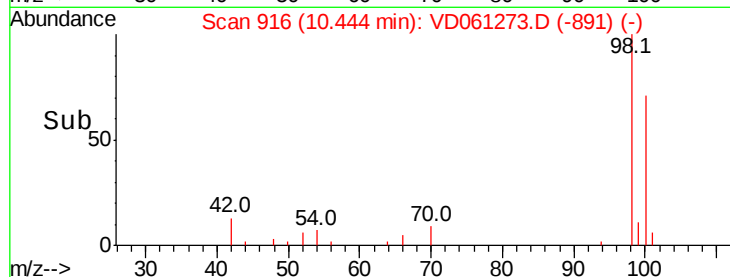
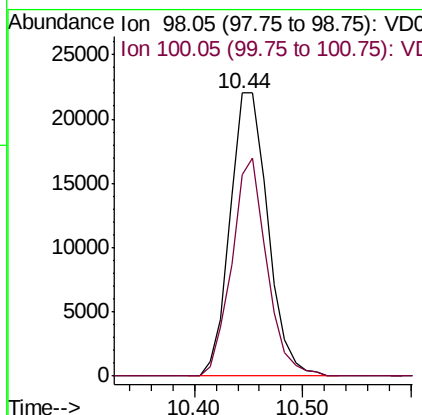
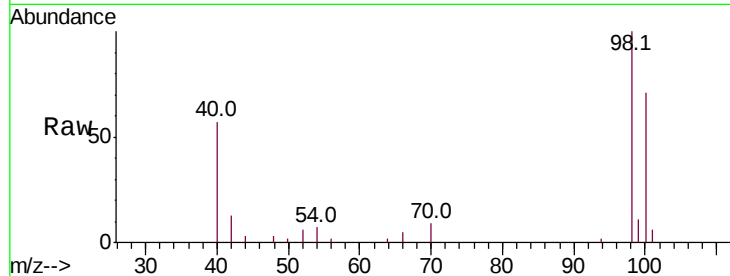




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.44 min Scan# 916
Delta R.T. 0.04 min
Lab File: VD061273.D
Acq: 22 Mar 2019 20:56

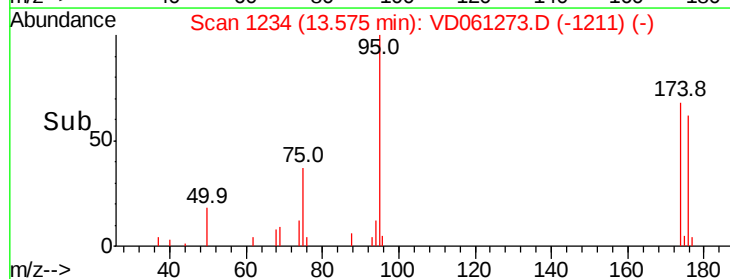
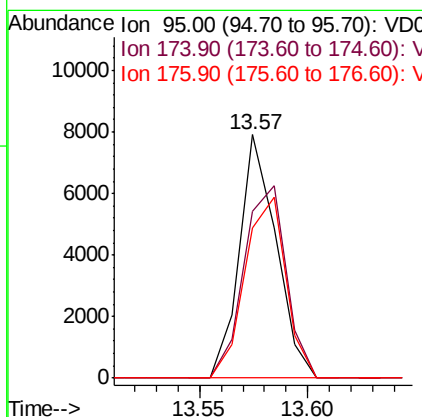
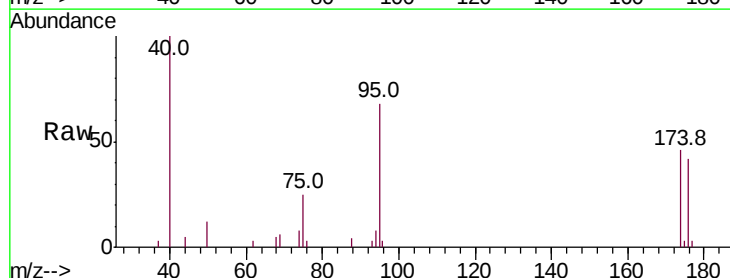
Instrument :
MSVOA_D
ClientSampleId :
CS-5

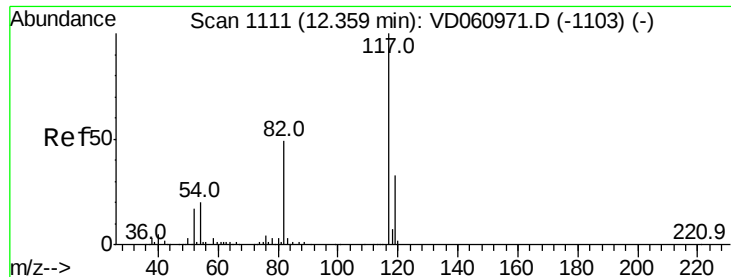
Tot Ion: 98 Resp: 53627
Ion Ratio Lower Upper
98 100
100 71.0 57.4 86.2



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.02 min
Lab File: VD061273.D
Acq: 22 Mar 2019 20:56

Tgt Ion: 95 Resp: 9421
Ion Ratio Lower Upper
95 100
174 68.5 0.0 155.6
176 61.8 0.0 153.8

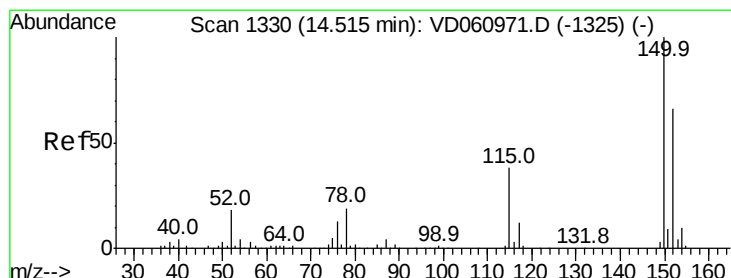
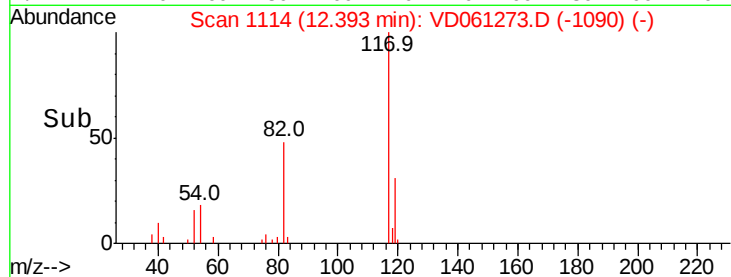
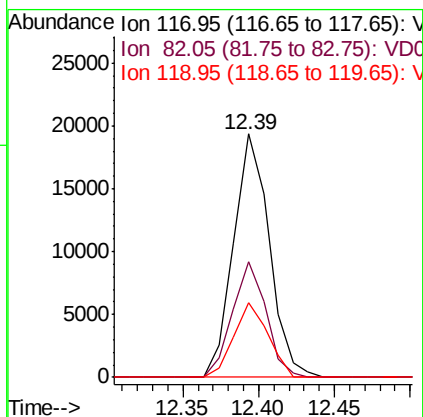
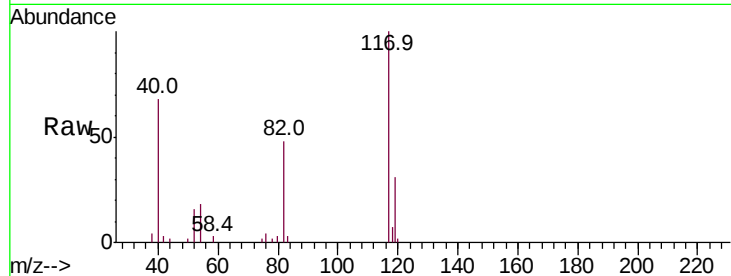




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.03 min
Lab File: VD061273.D
Acq: 22 Mar 2019 20:56

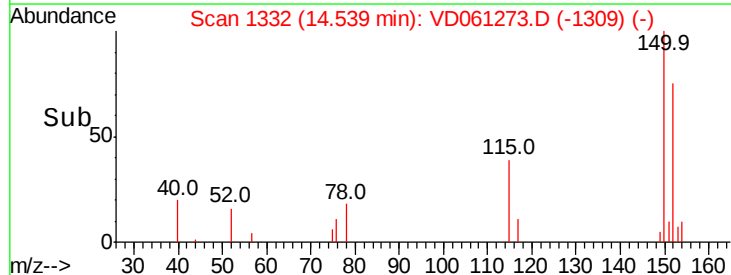
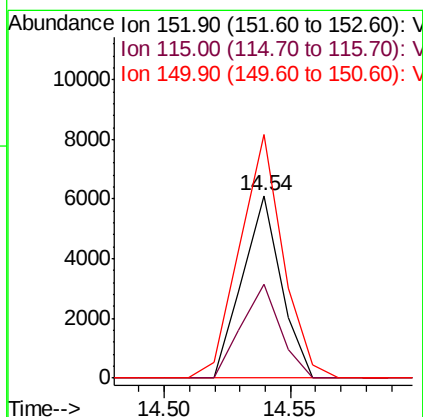
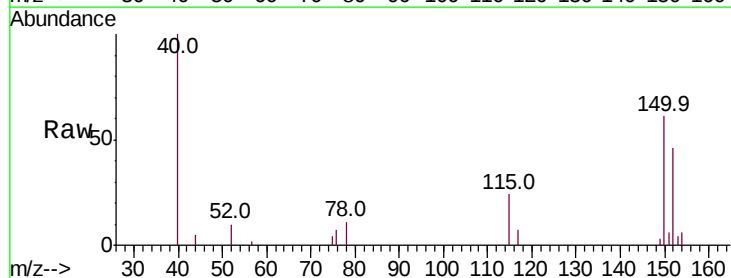
Instrument :
MSVOA_D
ClientSampleId :
CS-5

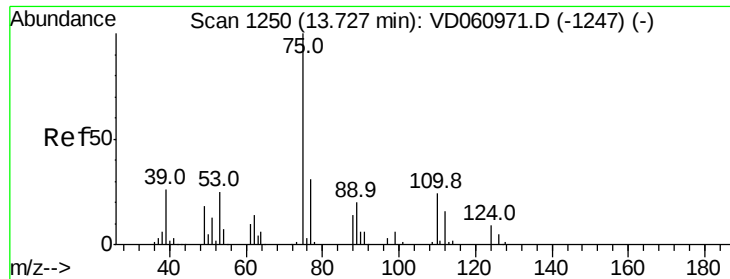
Tot Ion:117 Resp: 31677
Ion Ratio Lower Upper
117 100
82 47.6 38.9 58.3
119 30.6 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.54 min Scan# 1332
Delta R.T. 0.02 min
Lab File: VD061273.D
Acq: 22 Mar 2019 20:56

Tgt Ion:152 Resp: 6497
Ion Ratio Lower Upper
152 100
115 51.5 28.6 85.9
150 133.5 0.0 310.6

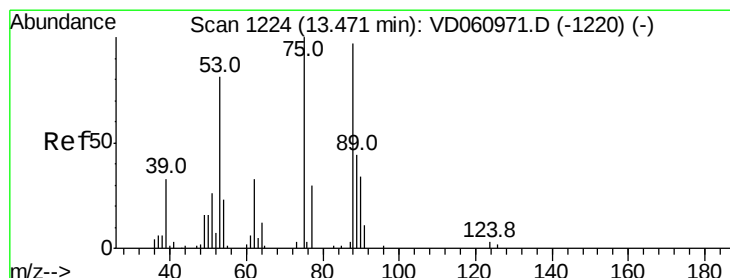
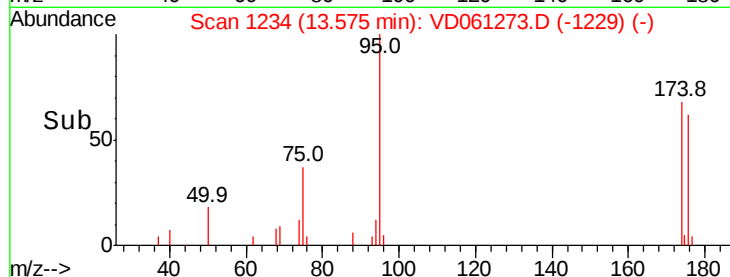
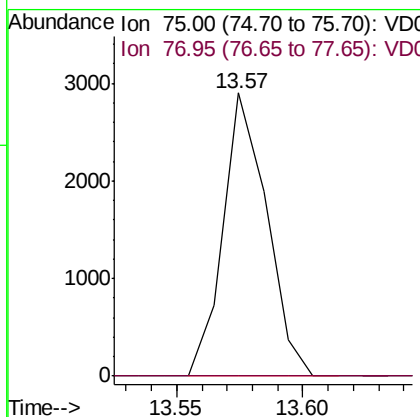
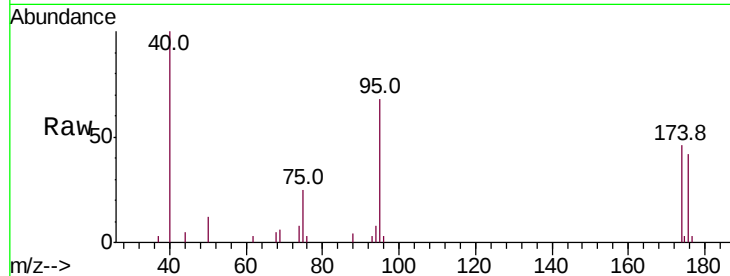




#76
 1,2,3-Trichloropropane
 Concen: 37.199 ug/l
 RT: 13.57 min Scan# 1234
 Delta R.T. -0.15 min
 Lab File: VD061273.D
 Acq: 22 Mar 2019 20:56

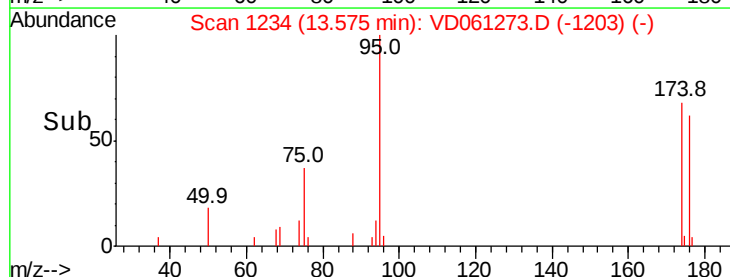
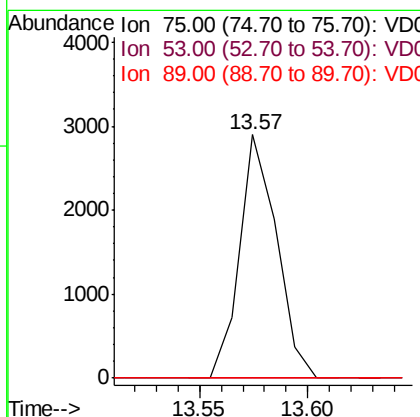
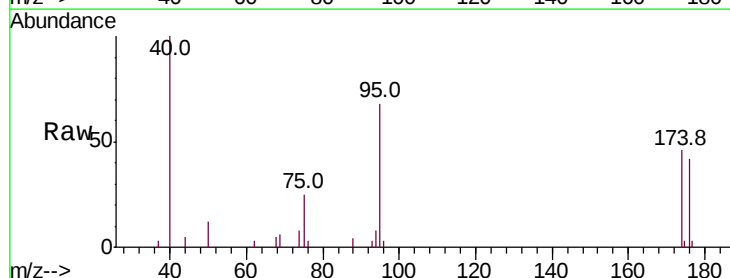
Instrument :
 MSVOA_D
 ClientSampled :
 CS-5

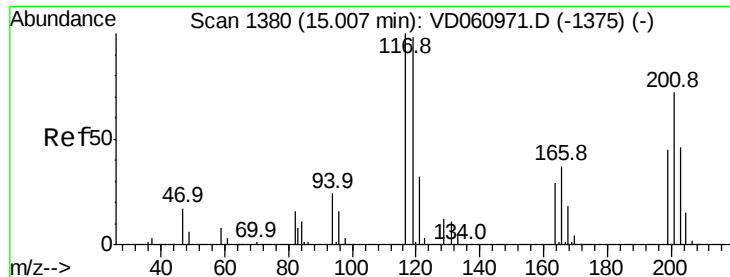
Tot Ion: 75 Resp: 3477
 Ion Ratio Lower Upper
 75 100
 77 0.0 16.6 49.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 126.174 ug/l
 RT: 13.57 min Scan# 1234
 Delta R.T. 0.10 min
 Lab File: VD061273.D
 Acq: 22 Mar 2019 20:56

Tgt Ion: 75 Resp: 3477
 Ion Ratio Lower Upper
 75 100
 53 0.0 64.4 96.6#
 89 0.0 34.8 52.2#





#90

Hexachloroethane

Concen: 1.806 ug/l

RT: 15.16 min Scan# 1395

Delta R.T. 0.15 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

Instrument :

MSVOA_D

ClientSampleId :

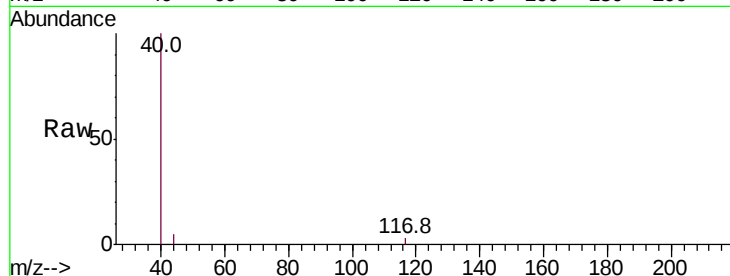
CS-5

Tot Ion:117 Resp: 198

Ion Ratio Lower Upper

117 100

201 0.0 36.2 108.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

15.16

400

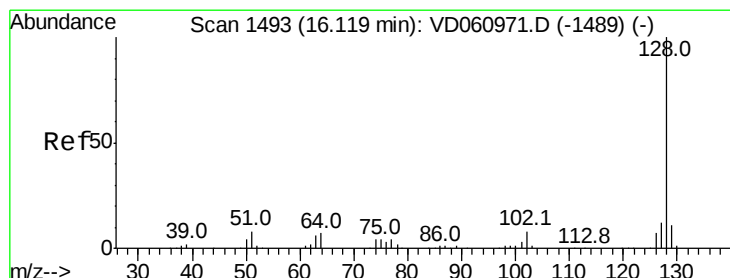
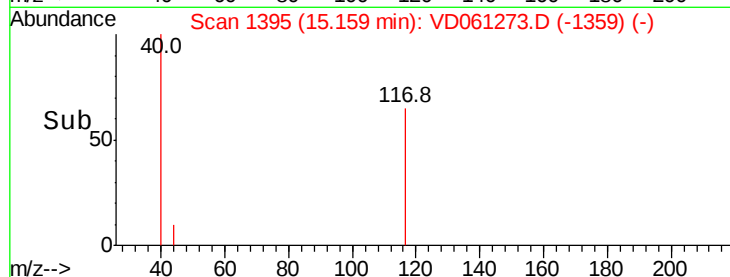
300

200

100

0

Time-->



#95

Naphthalene

Concen: 5.206 ug/l

RT: 16.14 min Scan# 1495

Delta R.T. 0.02 min

Lab File: VD061273.D

Acq: 22 Mar 2019 20:56

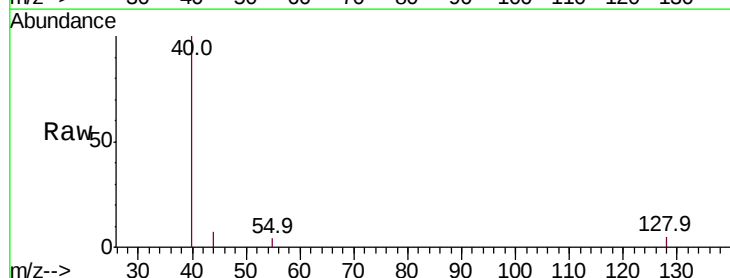
Tgt Ion:128 Resp: 653

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.5 12.7#



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

800

600

400

200

0

Time-->

