

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032119\
 Data File : VD061244.D
 Acq On : 21 Mar 2019 14:59
 Operator : VA/AP
 Sample : K2004-10
 Misc : 4.35u/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 22 04:31:22 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	7.06	168	504170	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.24	114	856571	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	616976	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	163681	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	222718	53.07	ug/l	0.02
Spiked Amount 50.000			Recovery	=	106.14%	
35) Dibromofluoromethane	6.95	113	345095	54.29	ug/l	0.02
Spiked Amount 50.000			Recovery	=	108.58%	
50) Toluene-d8	10.42	98	711728	44.58	ug/l	0.02
Spiked Amount 50.000			Recovery	=	89.16%	
62) 4-Bromofluorobenzene	13.56	95	211302	34.11	ug/l	0.01
Spiked Amount 50.000			Recovery	=	68.22%	

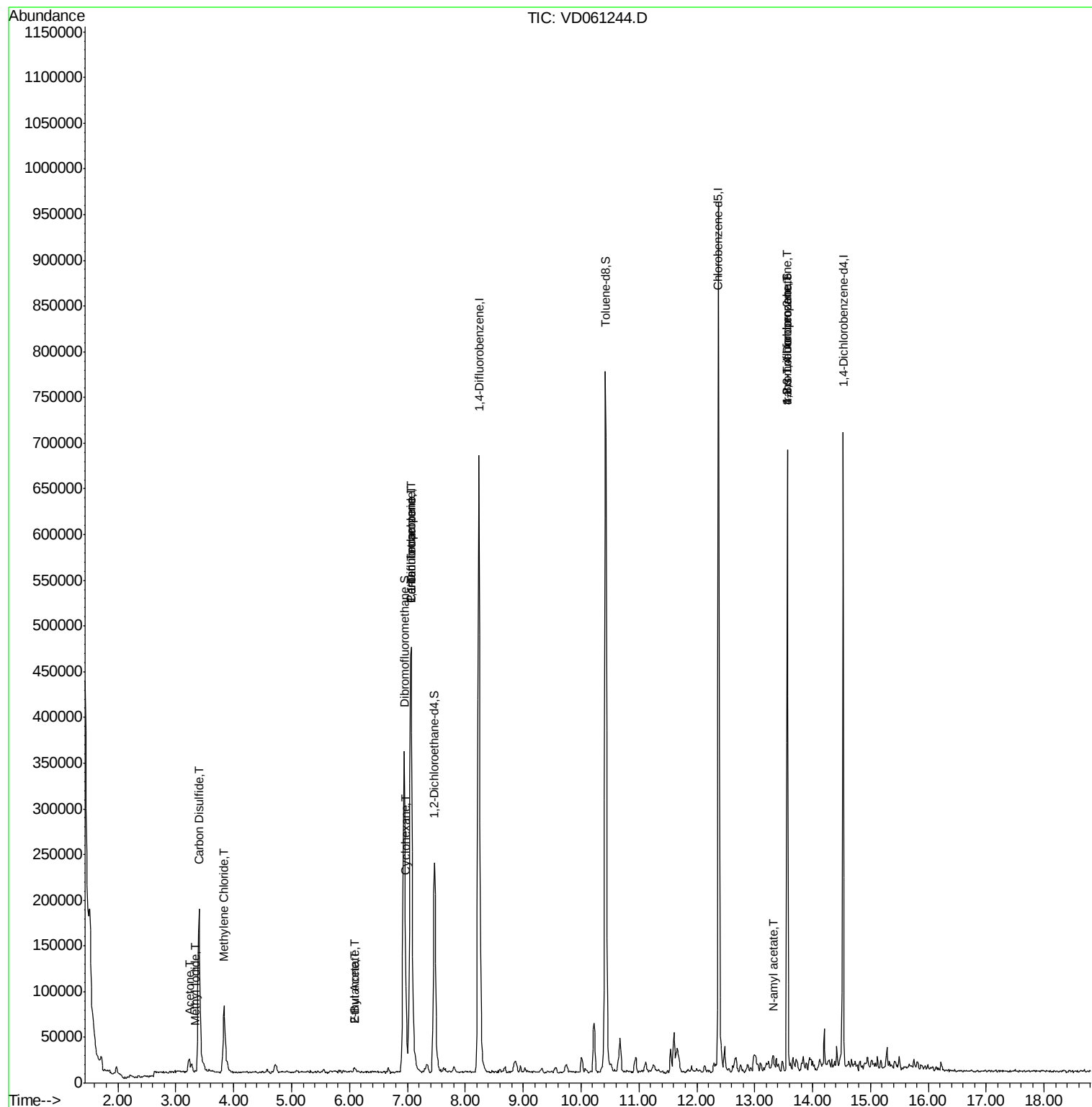
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.21	94	245	Below Cal	#	8
10) Methyl Iodide	3.34	142	239	2.960	ug/l #	39
16) Acetone	3.23	43	31348	26.122	ug/l	94
17) Carbon Disulfide	3.40	76	355877	20.846	ug/l	99
20) Methylene Chloride	3.84	84	53528	5.645	ug/l	98
25) 2-Butanone	6.09	43	11166	8.200	ug/l	97
31) Cyclohexane	6.98	56	9506	1.280	ug/l	93
36) 1,1-Dichloropropene	7.05	75	35382	4.792	ug/l #	45
37) Ethyl Acetate	6.09	43	11166	3.223	ug/l #	66
38) Carbon Tetrachloride	7.06	117	48533	5.967	ug/l #	14
74) N-amyl acetate	13.31	43	5896	1.775	ug/l #	42
76) 1,2,3-Trichloropropane	13.56	75	53549	22.740	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	76388	110.028	ug/l #	17

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.02 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

Instrument :

MSVOA_D

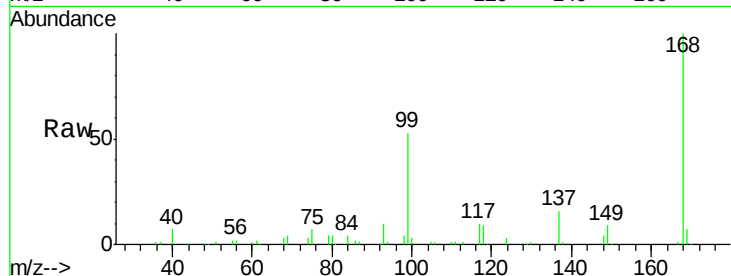
ClientSampleId :

Tot Ion:168 Resp: 504170

Ion Ratio Lower Upper

168 100

99 53.5 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.06

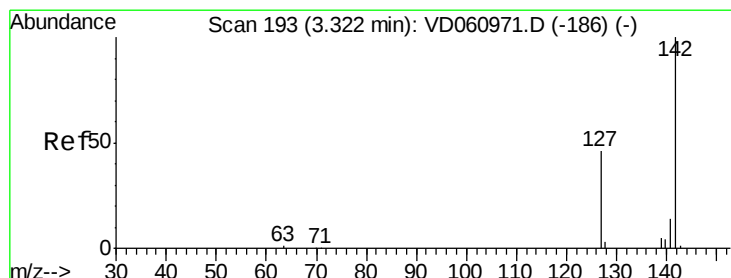
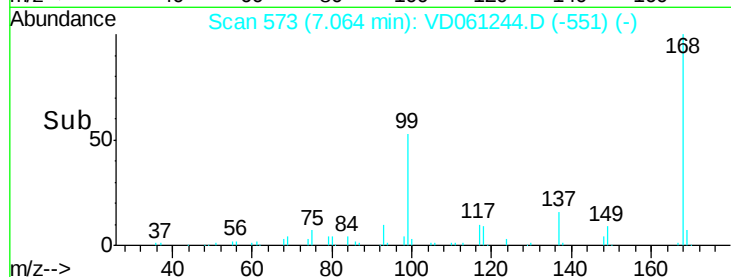
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#10

Methyl Iodide

Concen: 2.960 ug/l

RT: 3.34 min Scan# 195

Delta R.T. 0.02 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

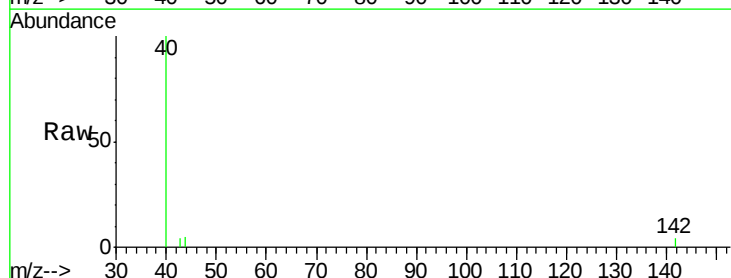
Tgt Ion:142 Resp: 239

Ion Ratio Lower Upper

142 100

127 0.0 36.8 55.2#

141 0.0 11.2 16.8#



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

3.34

500

400

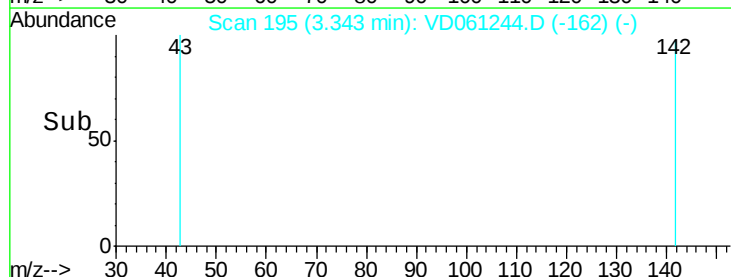
300

200

100

0

Time--> 3.32 3.34 3.36





#16

Acetone

Concen: 26.122 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

Instrument :

MSVOA_D

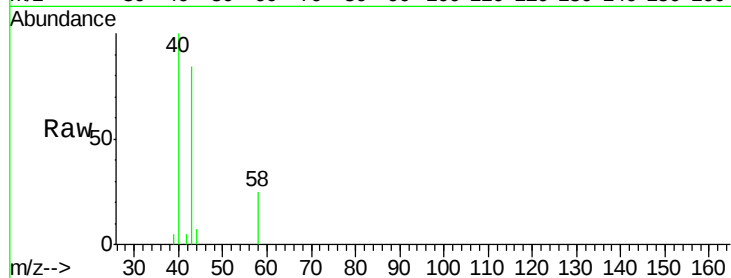
ClientSampled :

Tot Ion: 43 Resp: 31348

Ion Ratio Lower Upper

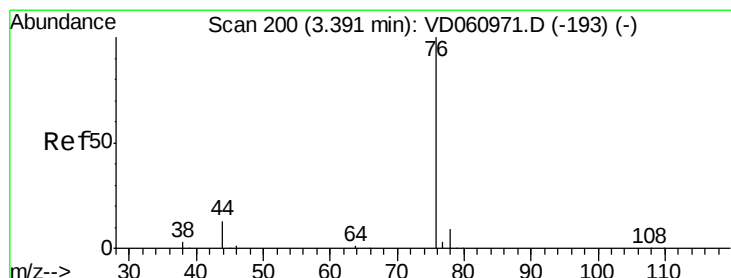
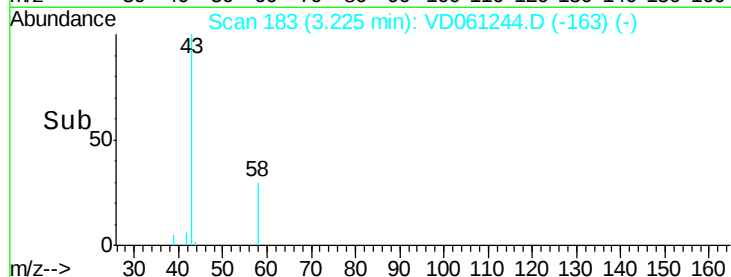
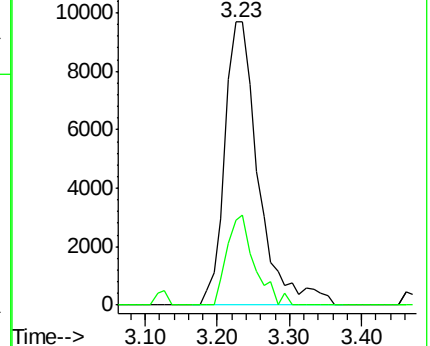
43 100

58 29.9 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 20.846 ug/l

RT: 3.40 min Scan# 201

Delta R.T. 0.01 min

Lab File: VD061244.D

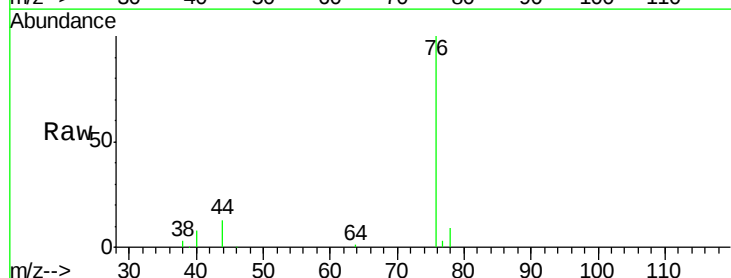
Acq: 21 Mar 2019 14:59

Tgt Ion: 76 Resp: 355877

Ion Ratio Lower Upper

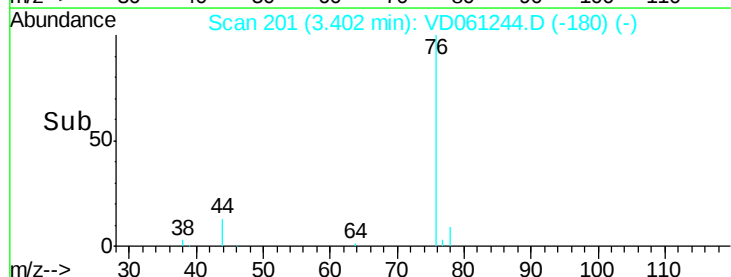
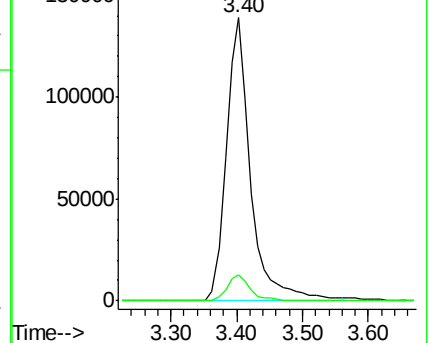
76 100

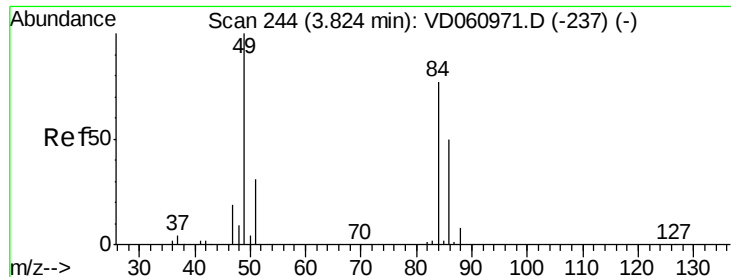
78 9.1 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

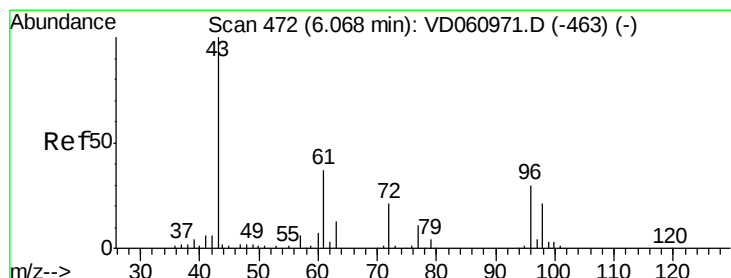
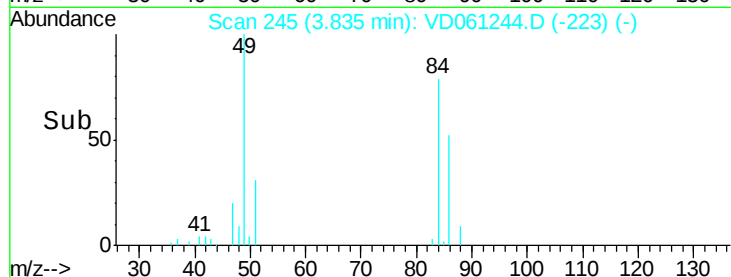
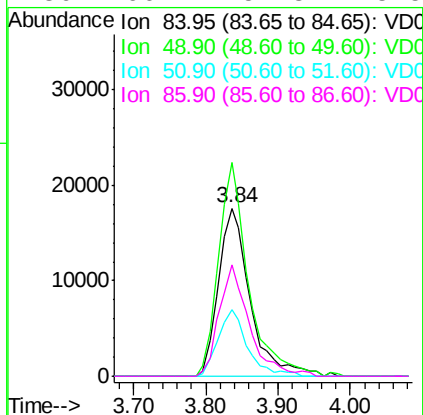
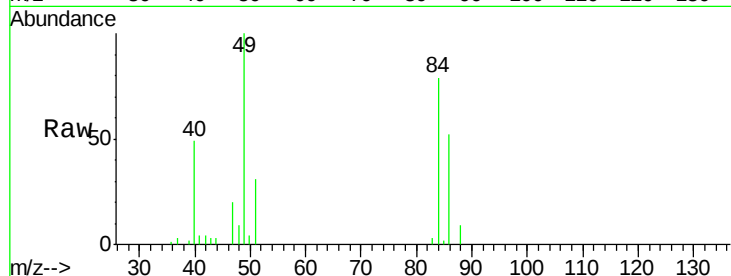




#20
Methvlene Chloride
Concen: 5.645 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.01 min
Lab File: VD061244.D
Acq: 21 Mar 2019 14:59

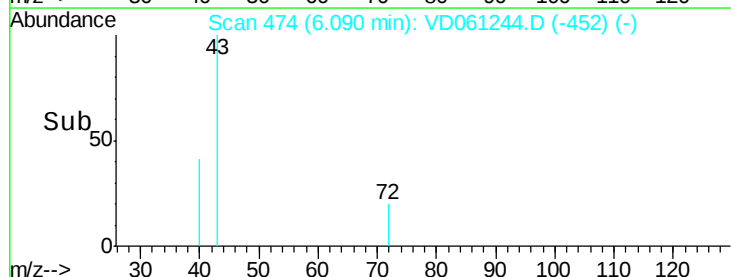
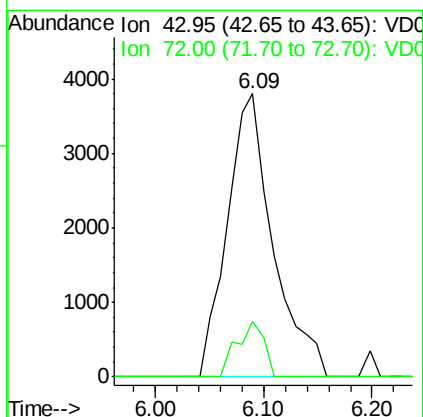
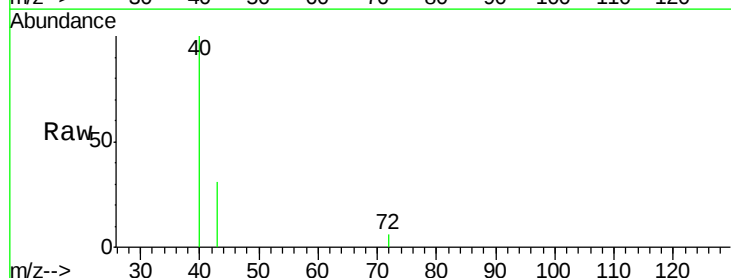
Instrument :
MSVOA_D
ClientSampleId :

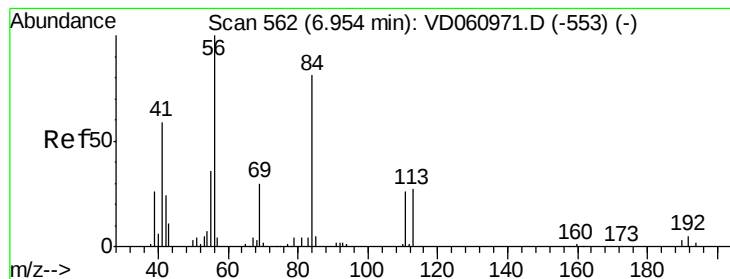
Tot Ion: 84 Resp: 53528
Ion Ratio Lower Upper
84 100
49 127.0 104.2 156.2
51 39.3 32.3 48.5
86 66.2 52.3 78.5



#25
2-Butanone
Concen: 8.200 ug/l
RT: 6.09 min Scan# 474
Delta R.T. 0.02 min
Lab File: VD061244.D
Acq: 21 Mar 2019 14:59

Tgt Ion: 43 Resp: 11166
Ion Ratio Lower Upper
43 100
72 19.5 16.7 25.1





#31

Cyclohexane

Concen: 1.280 ug/l

RT: 6.98 min Scan# 564

Delta R.T. 0.02 min

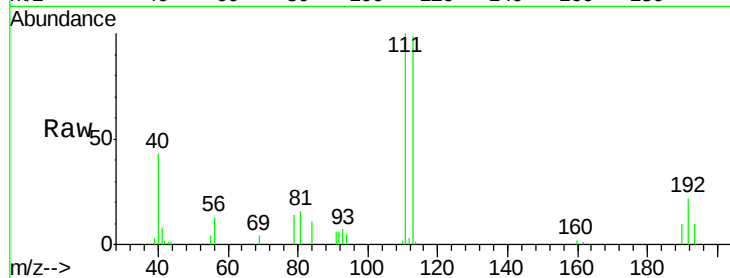
Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

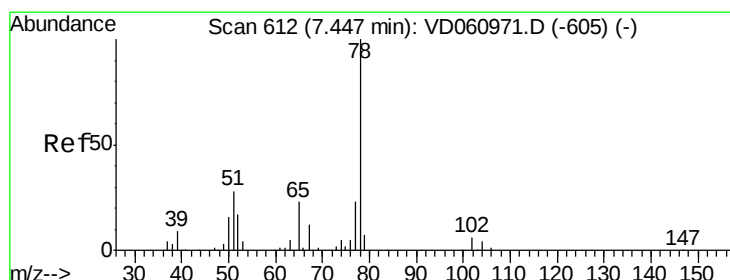
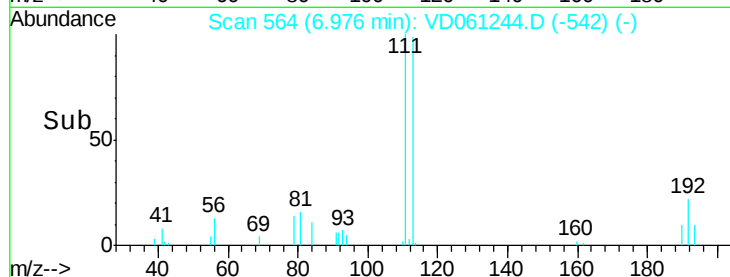
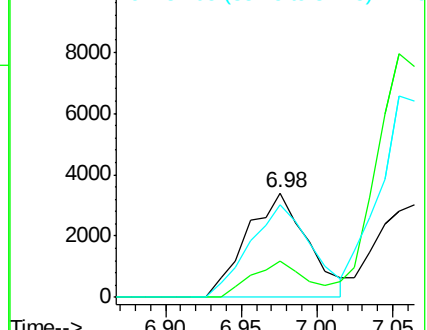
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 9506

Ion	Ratio	Lower	Upper
56	100		
69	34.2	24.0	36.0
84	88.4	65.8	98.6



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.47 min Scan# 614

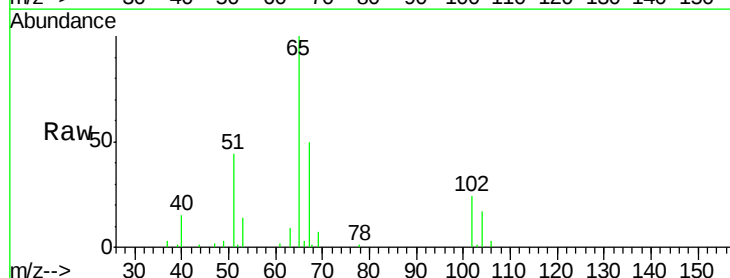
Delta R.T. 0.02 min

Lab File: VD061244.D

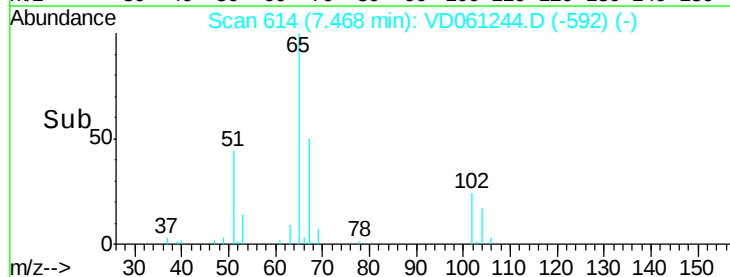
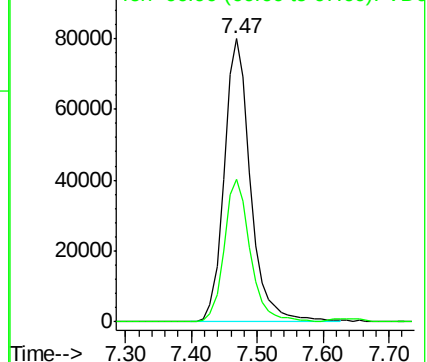
Acq: 21 Mar 2019 14:59

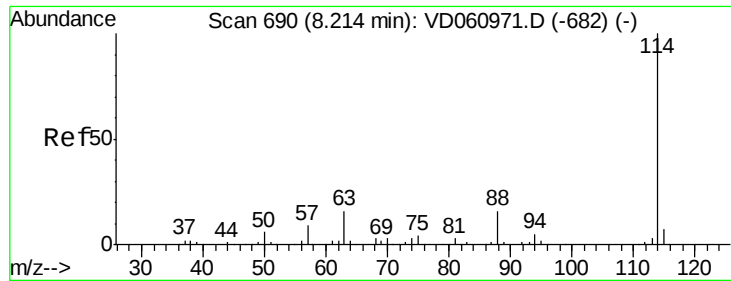
Tgt Ion: 65 Resp: 222718

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	105.2



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

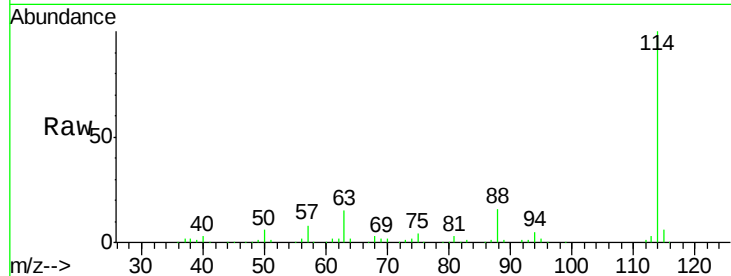




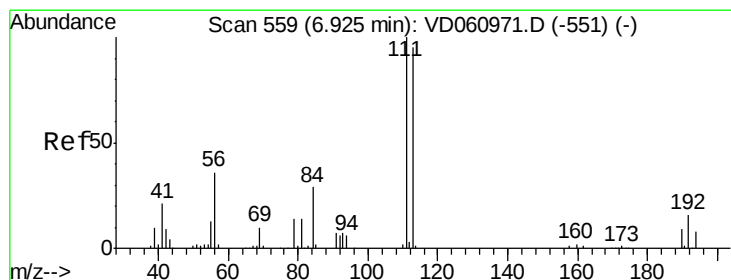
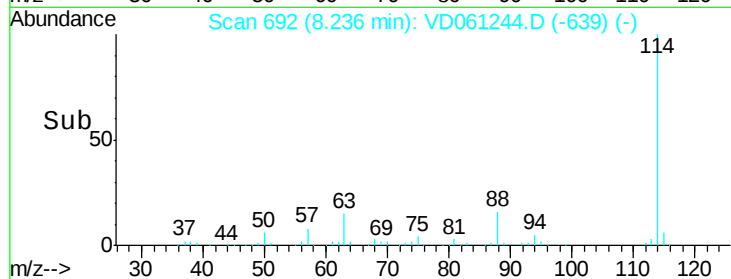
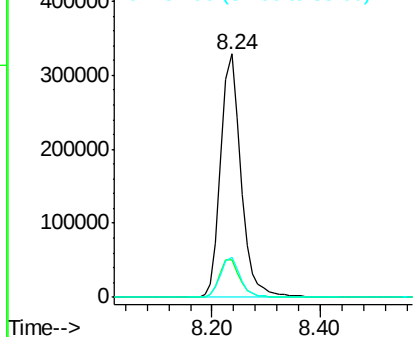
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.02 min
 Lab File: VD061244.D
 Acq: 21 Mar 2019 14:59

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 856571
 Ion Ratio Lower Upper
 114 100
 63 15.4 0.0 31.4
 88 16.2 0.0 33.0

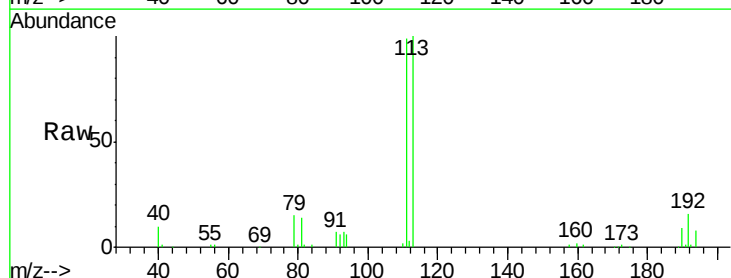


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC

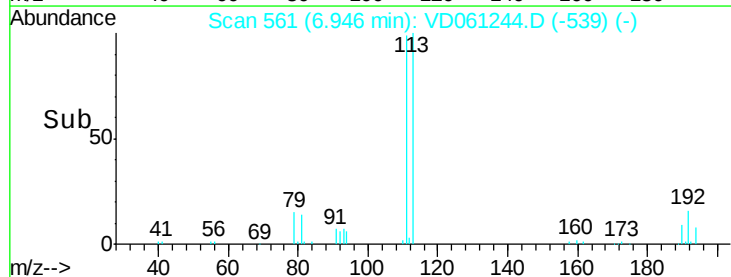
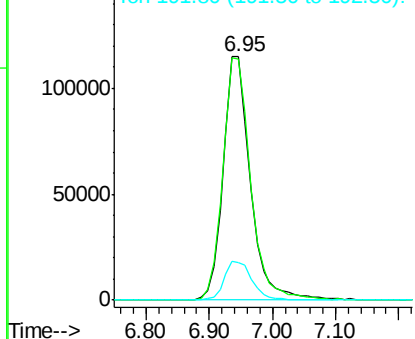


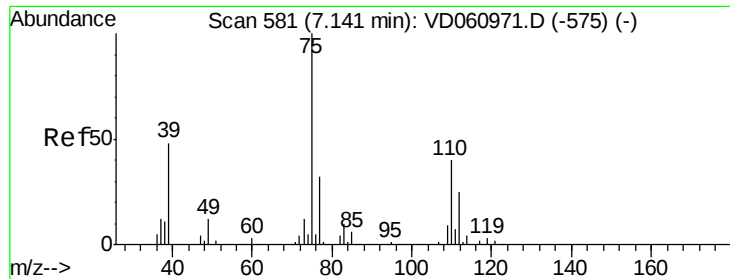
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.95 min Scan# 561
 Delta R.T. 0.02 min
 Lab File: VD061244.D
 Acq: 21 Mar 2019 14:59

Tgt Ion:113 Resp: 345095
 Ion Ratio Lower Upper
 113 100
 111 99.1 84.2 126.4
 192 15.6 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: 4.792 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

Instrument :

MSVOA_D

ClientSampleId :

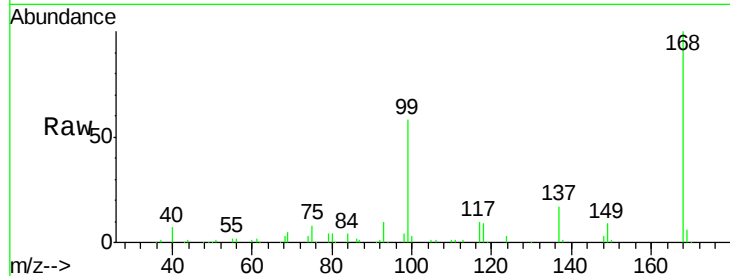
Tot Ion: 75 Resp: 35382

Ion Ratio Lower Upper

75 100

110 6.7 19.7 59.1#

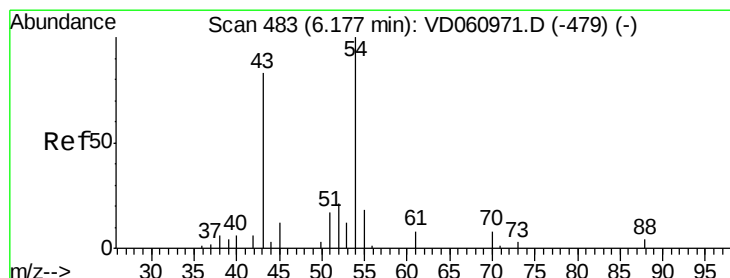
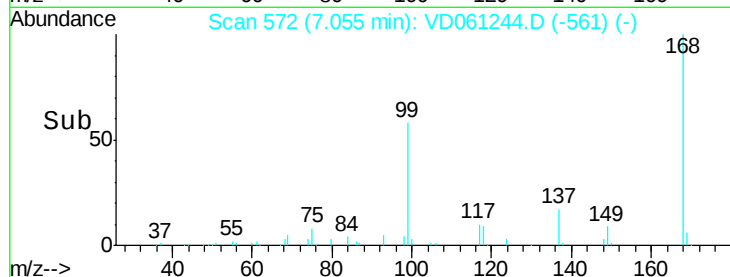
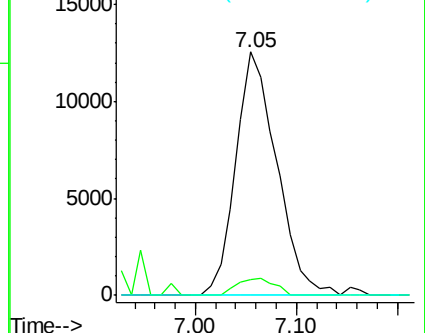
77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 3.223 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.09 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

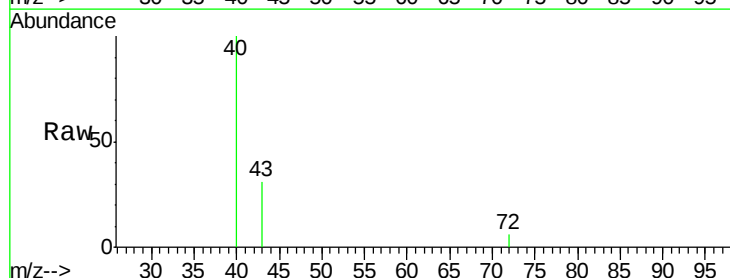
Tgt Ion: 43 Resp: 11166

Ion Ratio Lower Upper

43 100

61 0.0 13.7 20.5#

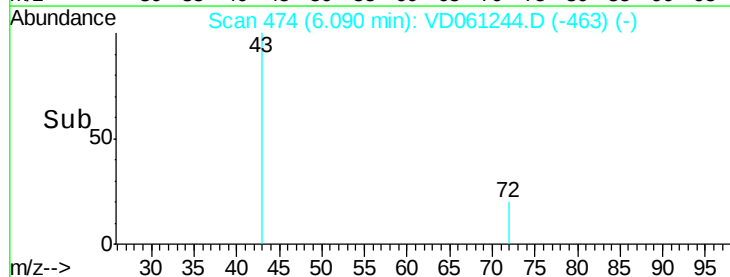
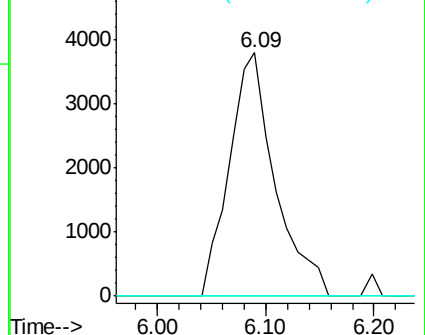
70 0.0 7.1 10.7#

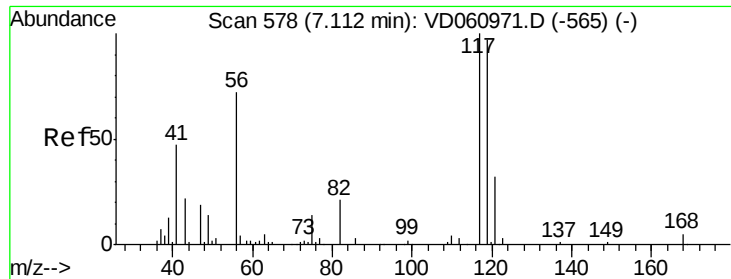


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

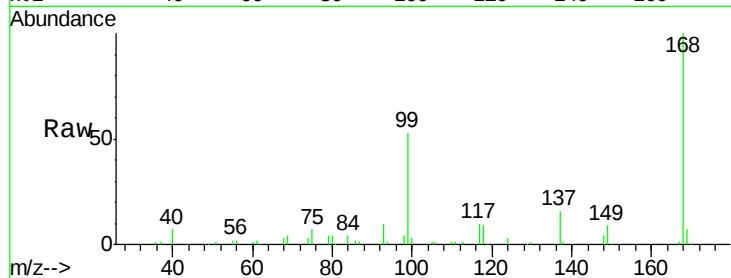




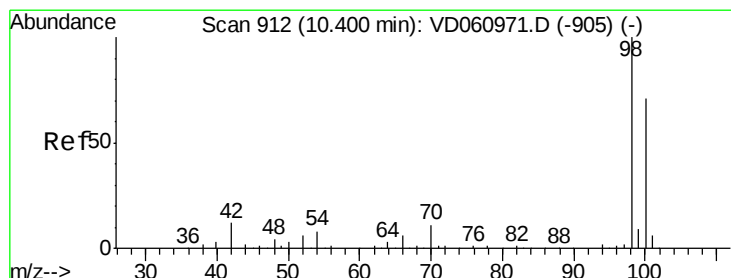
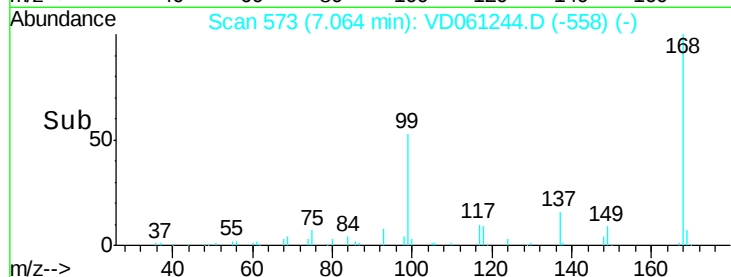
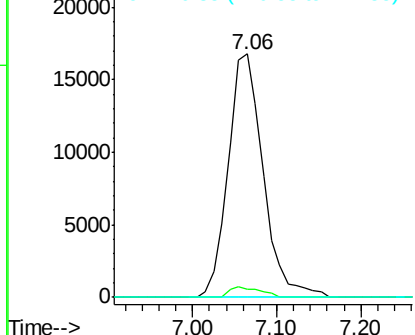
#38
Carbon Tetrachloride
Concen: 5.967 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.05 min
Lab File: VD061244.D
Acq: 21 Mar 2019 14:59

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 48533
Ion Ratio Lower Upper
117 100
119 3.5 77.8 116.8#
121 0.0 25.3 37.9#

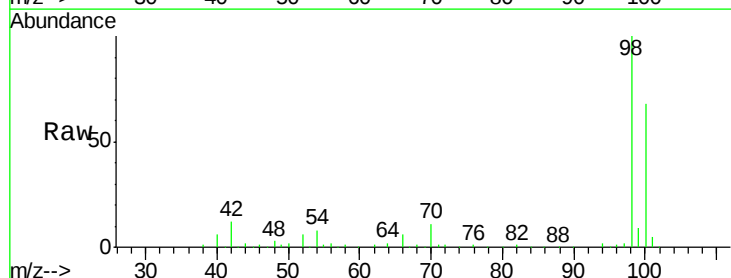


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

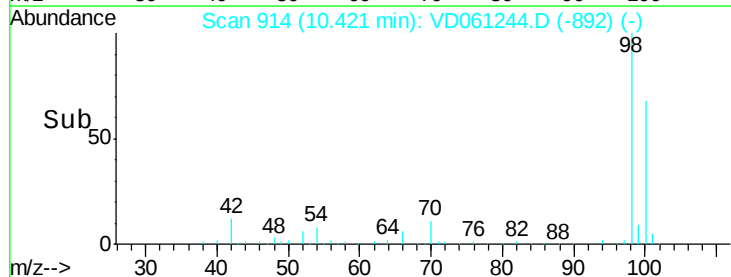
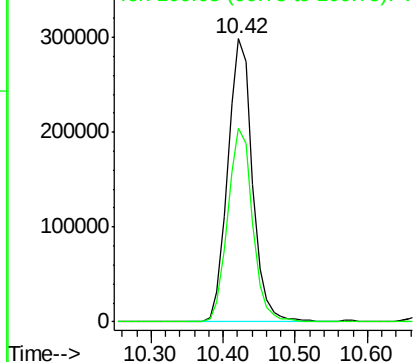


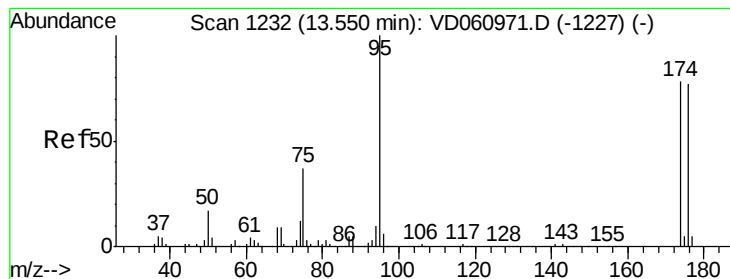
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD061244.D
Acq: 21 Mar 2019 14:59

Tgt Ion: 98 Resp: 711728
Ion Ratio Lower Upper
98 100
100 68.4 57.4 86.2



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

Instrument :

MSVOA_D

ClientSampleId :

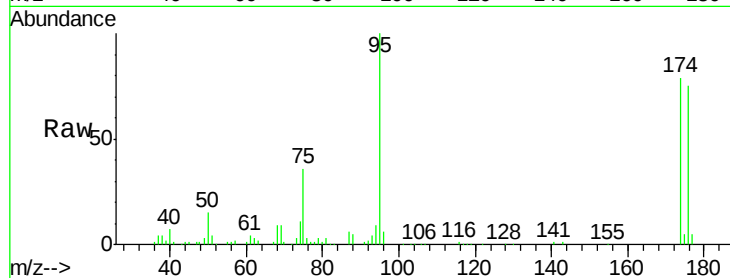
Tot Ion: 95 Resp: 211302

Ion Ratio Lower Upper

95 100

174 79.3 0.0 155.6

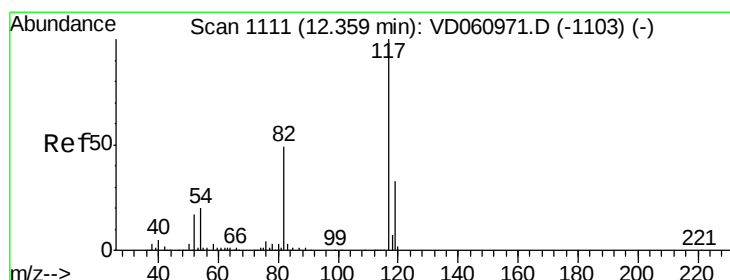
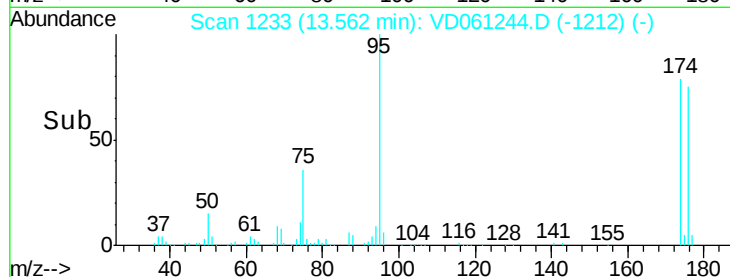
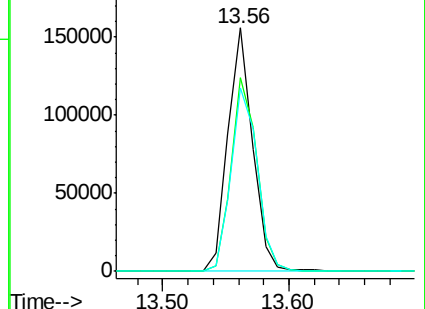
176 75.2 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

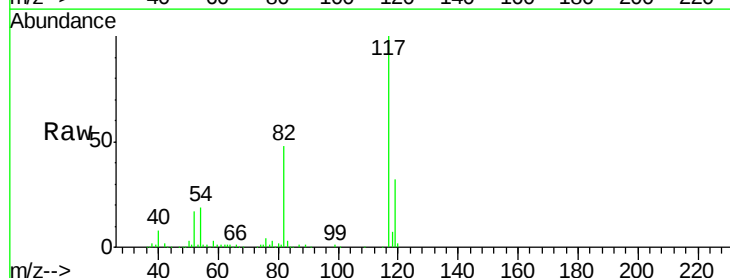
Tgt Ion: 117 Resp: 616976

Ion Ratio Lower Upper

117 100

82 47.6 38.9 58.3

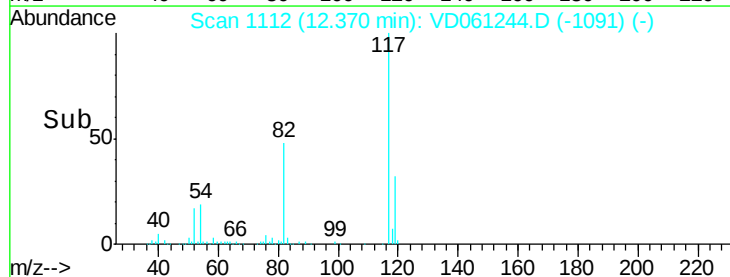
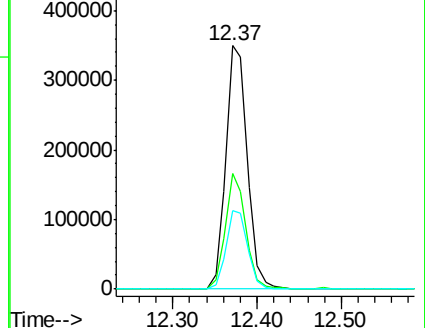
119 32.2 26.6 39.8

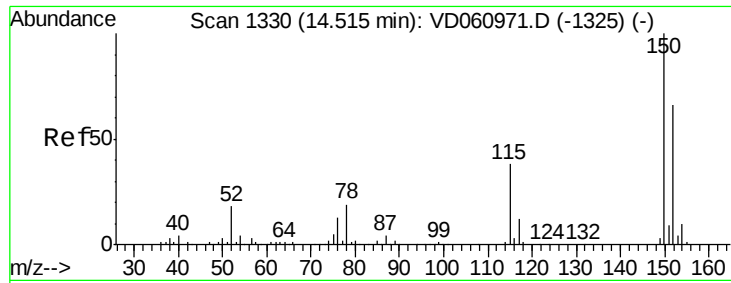


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

Instrument :

MSVOA_D

ClientSampleId :

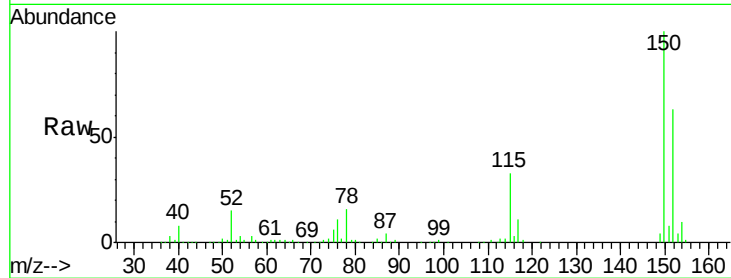
Tot Ion:152 Resp: 163681

Ion Ratio Lower Upper

152 100

115 52.9 28.6 85.9

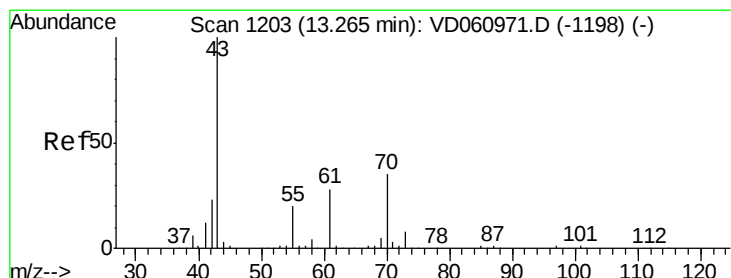
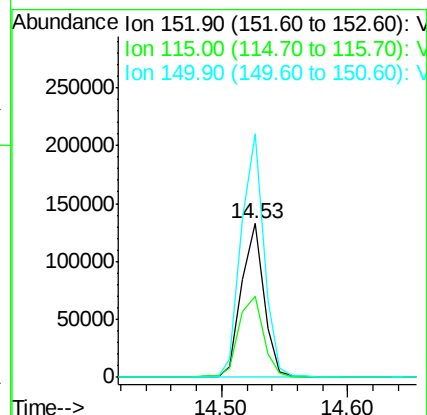
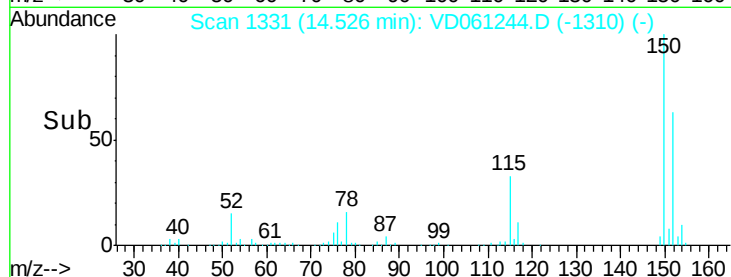
150 158.6 0.0 310.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.775 ug/l

RT: 13.31 min Scan# 1207

Delta R.T. 0.04 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

Tgt Ion: 43 Resp: 5896

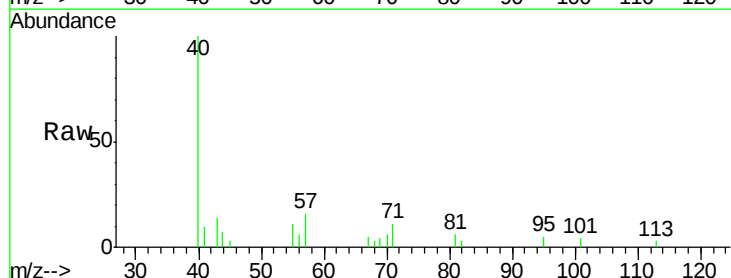
Ion Ratio Lower Upper

43 100

70 45.5 27.7 41.5#

55 80.8 16.2 24.2#

61 0.0 22.3 33.5#

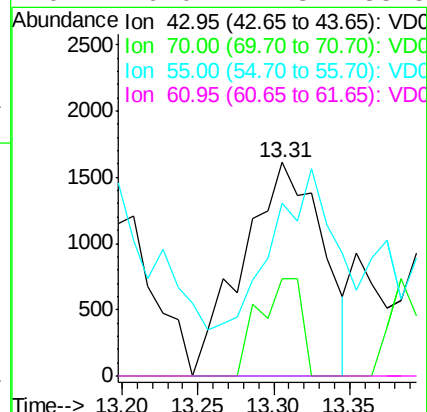
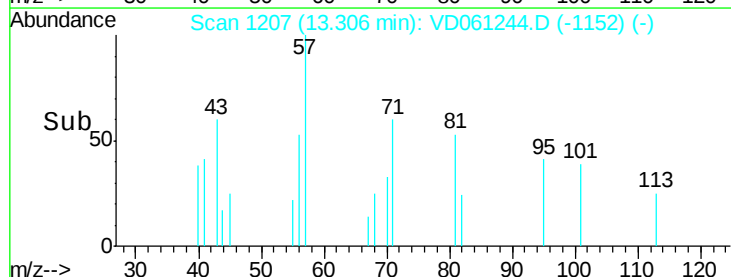


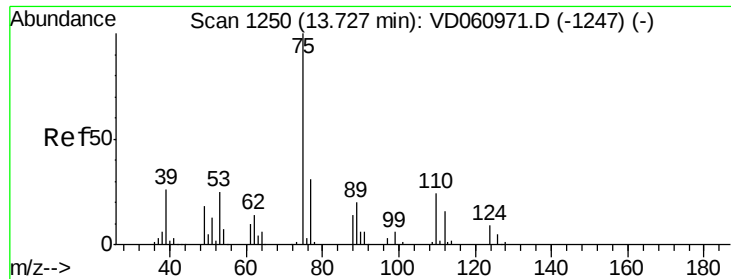
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#76

1,2,3-Trichloropropane

Concen: 22.740 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

Instrument :

MSVOA_D

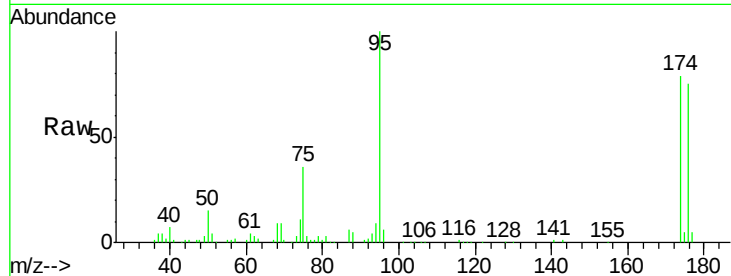
ClientSampled :

Tot Ion: 75 Resp: 53549

Ion Ratio Lower Upper

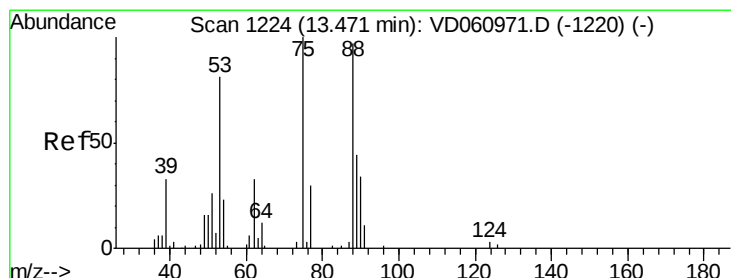
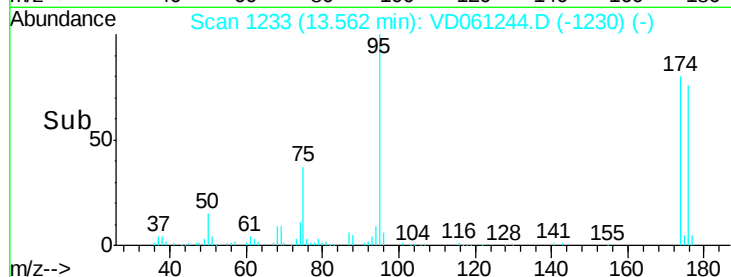
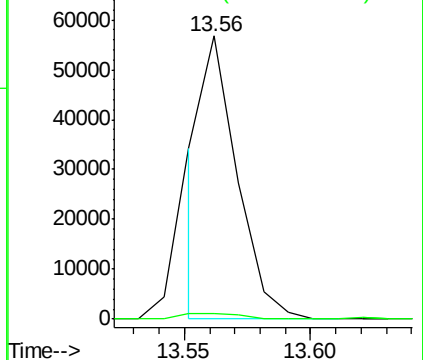
75 100

77 1.9 16.6 49.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 110.028 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061244.D

Acq: 21 Mar 2019 14:59

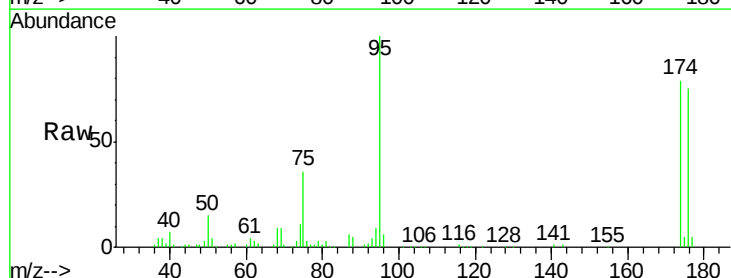
Tgt Ion: 75 Resp: 76388

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



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

