

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032019\
 Data File : VD061214.D
 Acq On : 20 Mar 2019 18:03
 Operator : VA/AP
 Sample : K1984-06RE
 Misc : 5.56g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 22 02:01:59 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	7.05	168	514299	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	946125	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	693557	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	286872	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	218178	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
35) Dibromofluoromethane	6.92	113	399460	56.89	ug/l	0.00
Spiked Amount			Recovery	=	113.78%	
50) Toluene-d8	10.40	98	913609	51.81	ug/l	0.00
Spiked Amount			Recovery	=	103.62%	
62) 4-Bromofluorobenzene	13.55	95	332963	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	

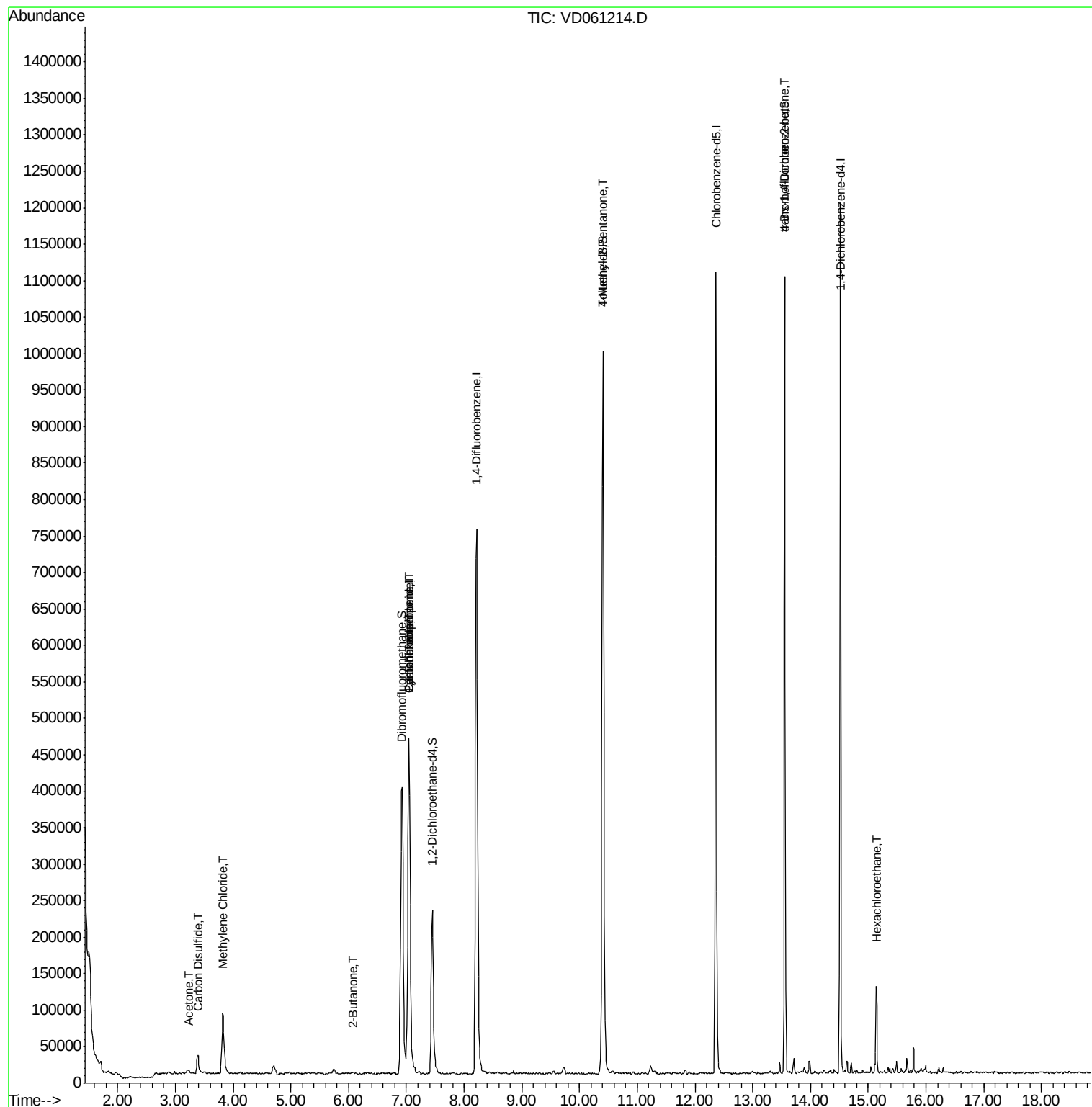
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.22	43	12899	10.537	ug/l	98
17) Carbon Disulfide	3.39	76	52146	2.994	ug/l	96
20) Methylene Chloride	3.83	84	64429	7.587	ug/l	91
25) 2-Butanone	6.08	43	3326	2.394	ug/l #	55
31) Cyclohexane	7.05	56	8530	1.126	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	36494	4.475	ug/l #	45
38) Carbon Tetrachloride	7.05	117	49608	5.522	ug/l #	14
51) 4-Methyl-2-Pentanone	10.40	43	4265	1.313	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	120988	99.433	ug/l #	17
90) Hexachloroethane	15.14	117	9089	1.878	ug/l #	13

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

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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: 7.05 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

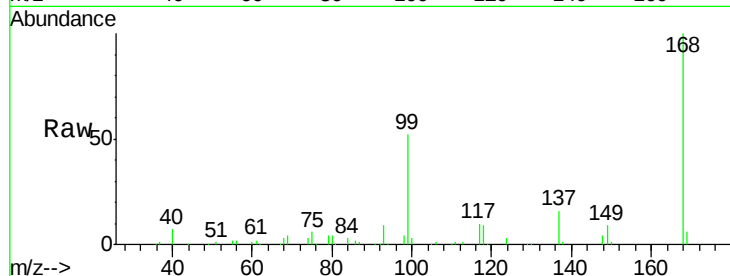
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 514299

Ion Ratio Lower Upper

168 100

99 51.6 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

150000

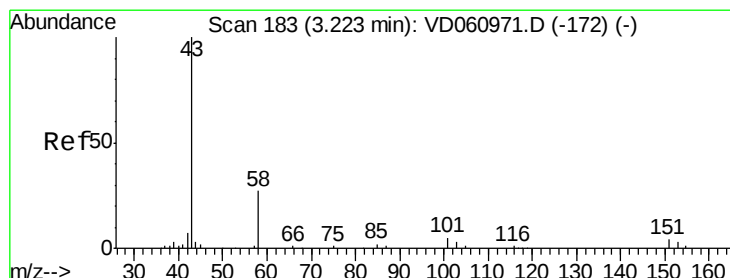
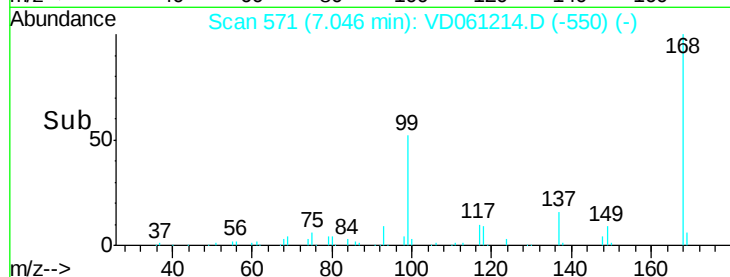
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#16

Acetone

Concen: 10.537 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD061214.D

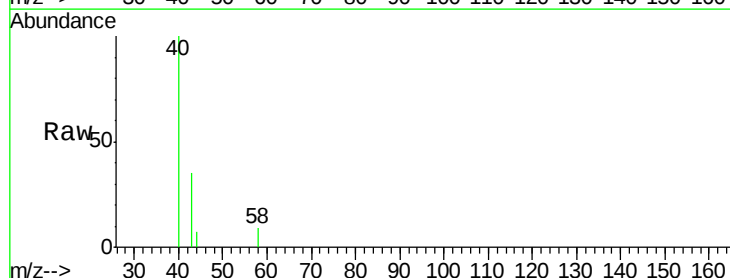
Acq: 20 Mar 2019 18:03

Tgt Ion: 43 Resp: 12899

Ion Ratio Lower Upper

43 100

58 26.2 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

4000

3000

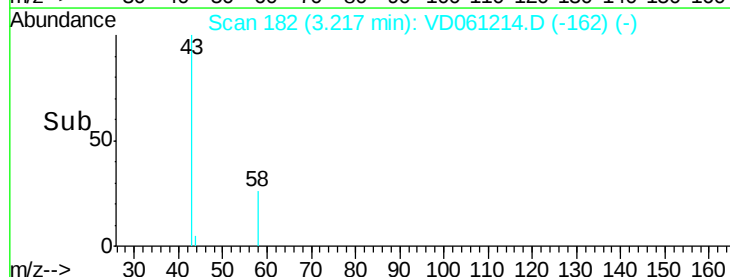
2000

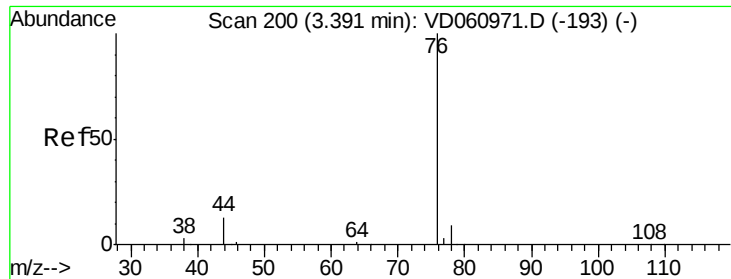
1000

0

3.10 3.20 3.30

Time-->





#17

Carbon Disulfide

Concen: 2.994 ug/l

RT: 3.39 min Scan# 200

Delta R.T. 0.00 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

Instrument :

MSVOA_D

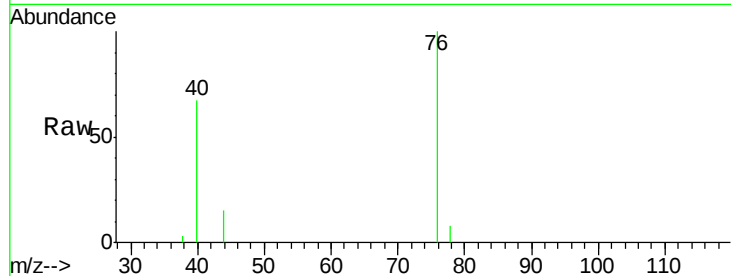
ClientSampleId :

Tot Ion: 76 Resp: 52146

Ion Ratio Lower Upper

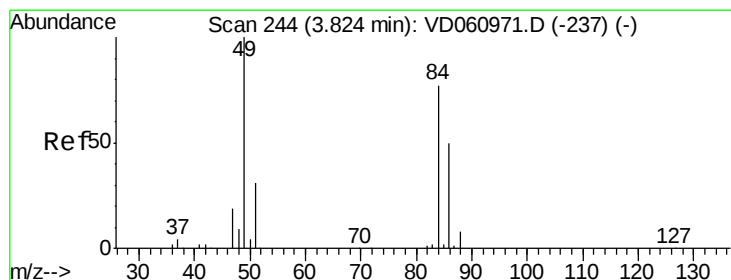
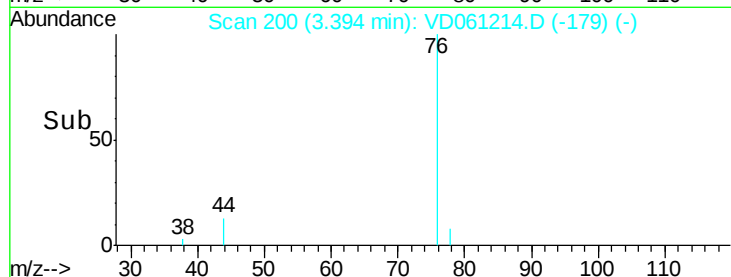
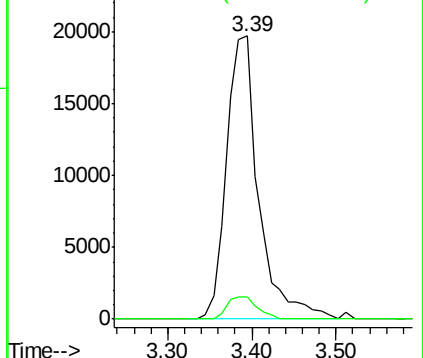
76 100

78 8.0 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: 7.587 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.00 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

Tgt Ion: 84 Resp: 64429

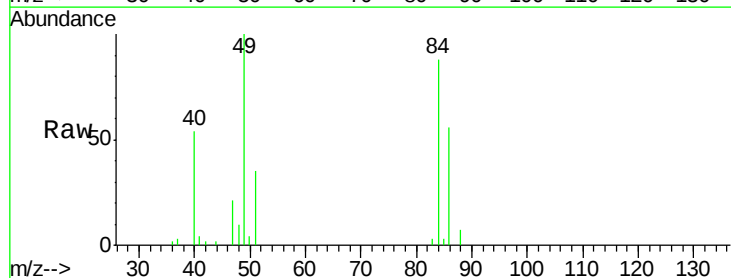
Ion Ratio Lower Upper

84 100

49 113.1 104.2 156.2

51 39.7 32.3 48.5

86 63.2 52.3 78.5

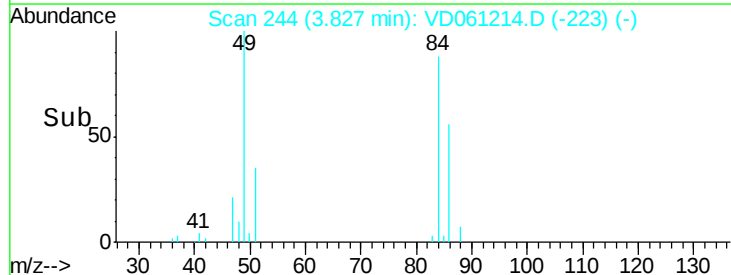
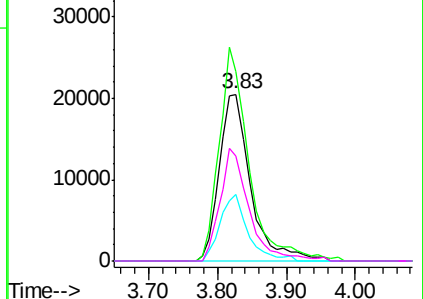


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 2.394 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

Instrument :

MSVOA_D

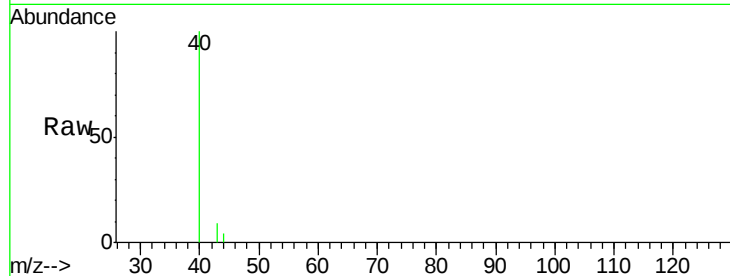
ClientSampled :

Tot Ion: 43 Resp: 3326

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

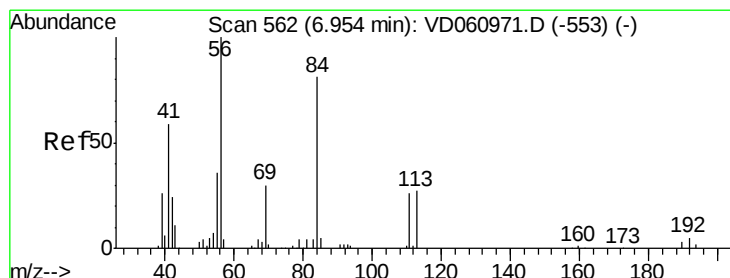
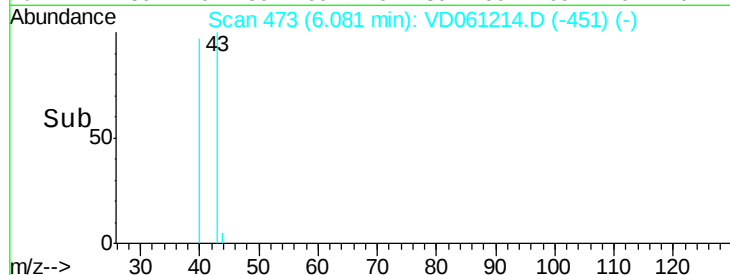
6.08

1000

500

0

Time-->



#31

Cyclohexane

Concen: 1.126 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.09 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

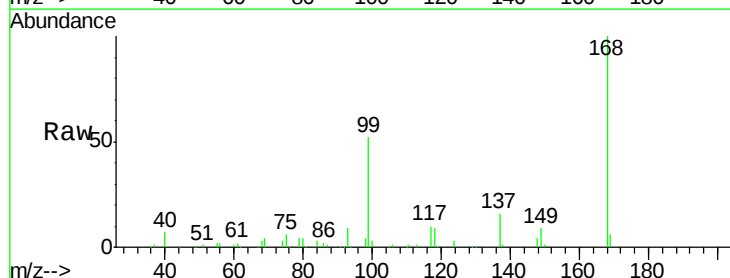
Tgt Ion: 56 Resp: 8530

Ion Ratio Lower Upper

56 100

69 231.0 24.0 36.0#

84 174.5 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

10000

8000

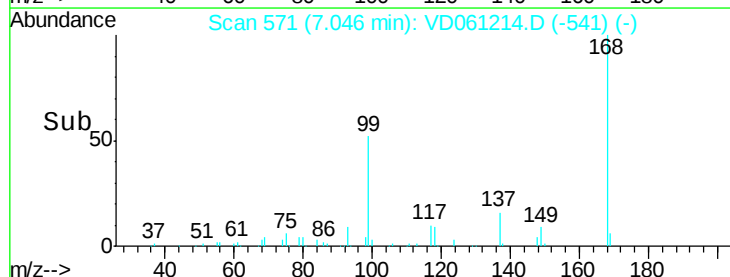
6000

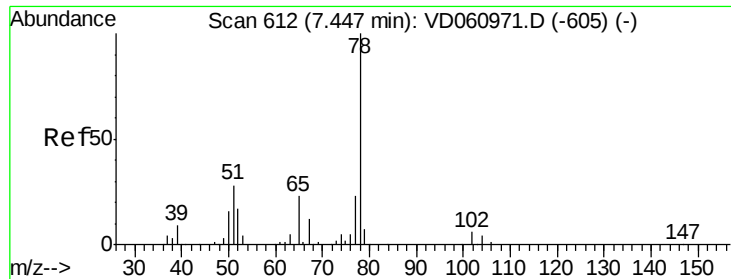
4000

2000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

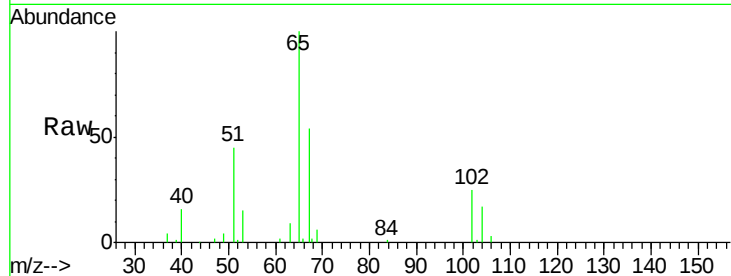
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 65 Resp: 218178

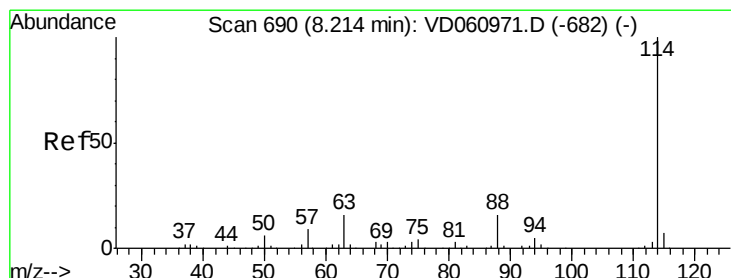
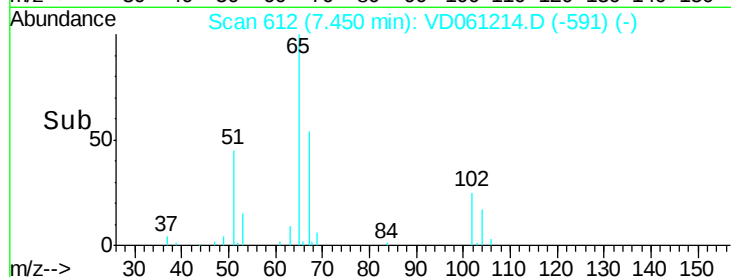
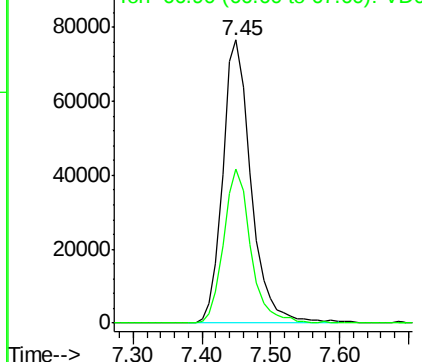
Ion Ratio Lower Upper

65 100

67 54.3 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: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

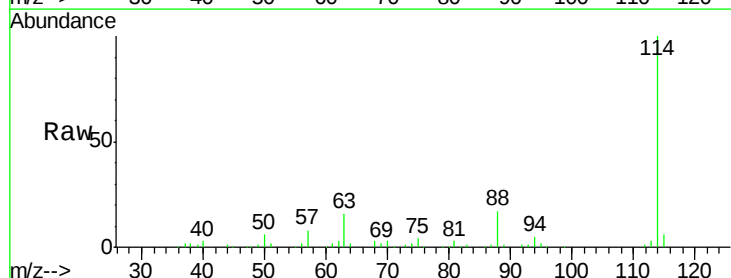
Tgt Ion: 114 Resp: 946125

Ion Ratio Lower Upper

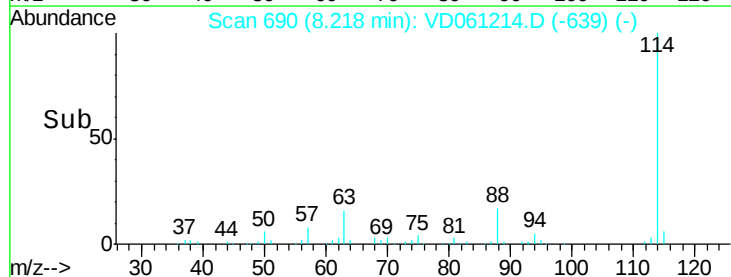
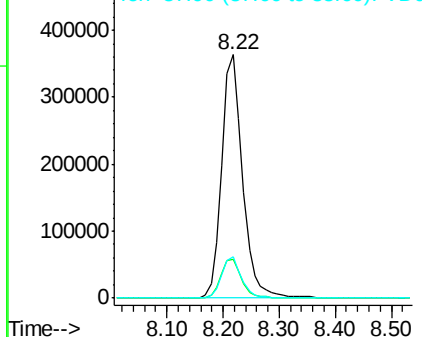
114 100

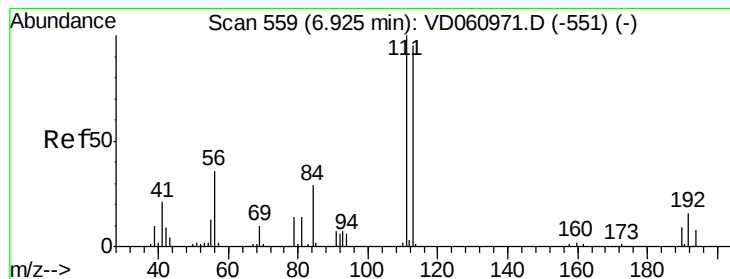
63 15.9 0.0 31.4

88 16.8 0.0 33.0



Abundance Ion 114.00 (113.70 to 114.70): VDC
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: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

Instrument :
MSVOA_D
ClientSampleId :

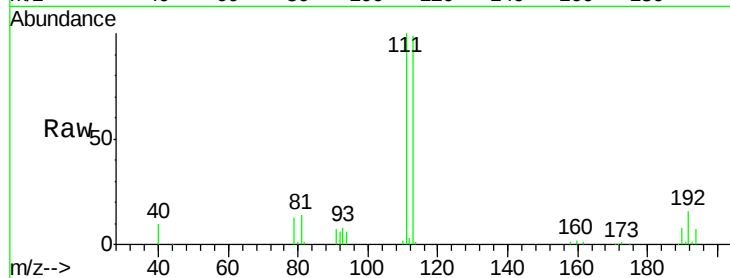
Tot Ion:113 Resp: 399460

Ion Ratio Lower Upper

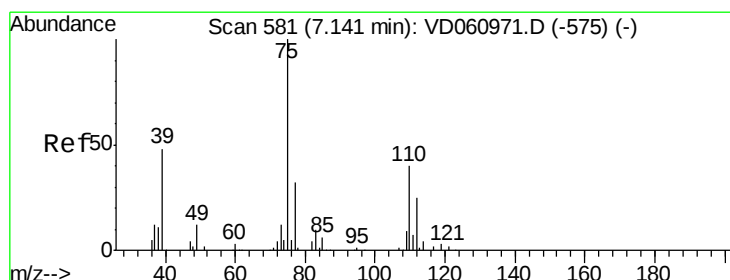
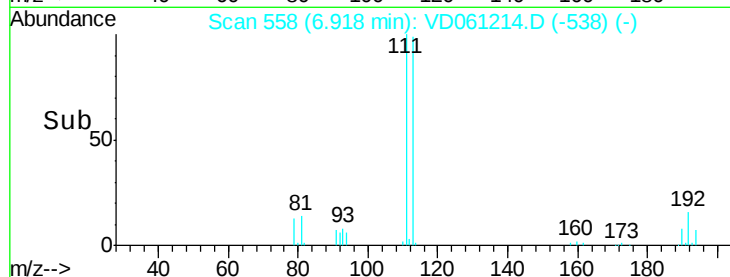
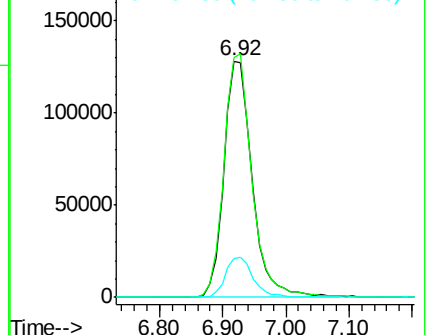
113 100

111 101.5 84.2 126.4

192 16.3 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: 4.475 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

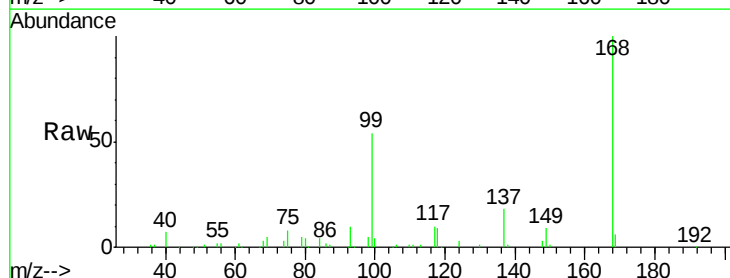
Tgt Ion: 75 Resp: 36494

Ion Ratio Lower Upper

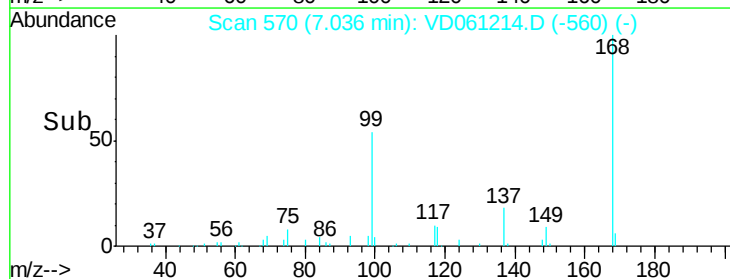
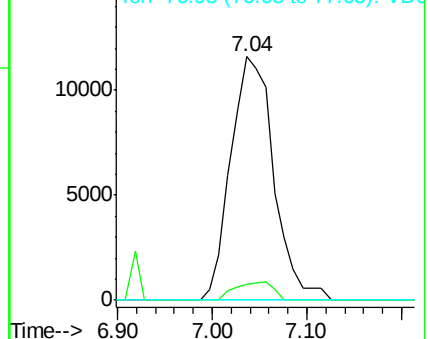
75 100

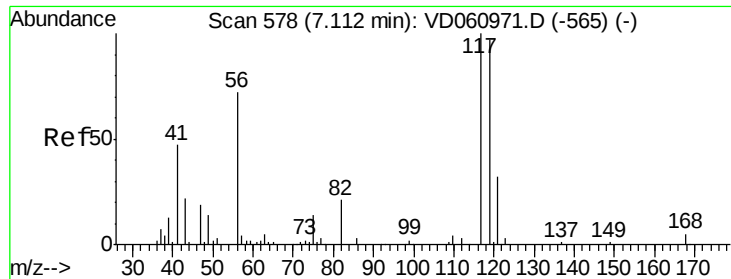
110 6.7 19.7 59.1#

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): V
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.522 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

Instrument :

MSVOA_D

ClientSampleId :

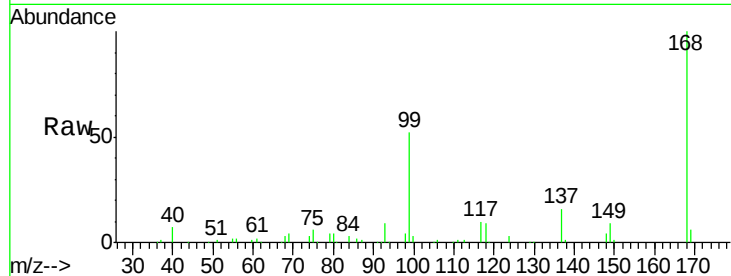
Tot Ion:117 Resp: 49608

Ion Ratio Lower Upper

117 100

119 3.4 77.8 116.8#

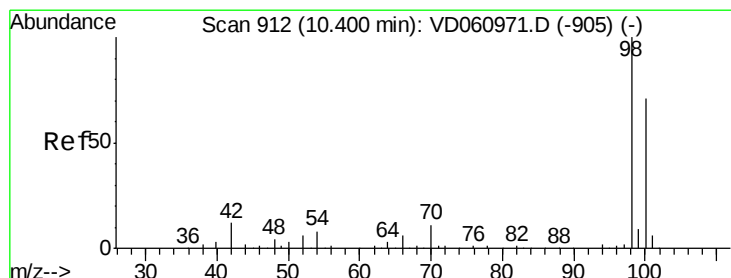
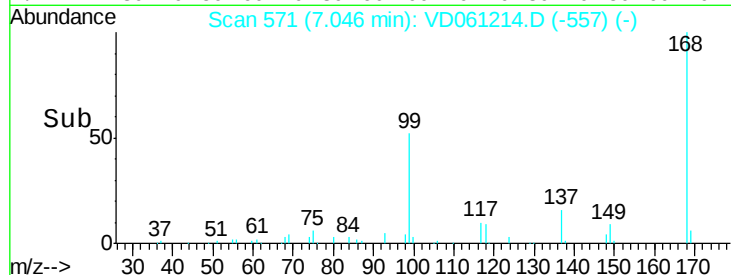
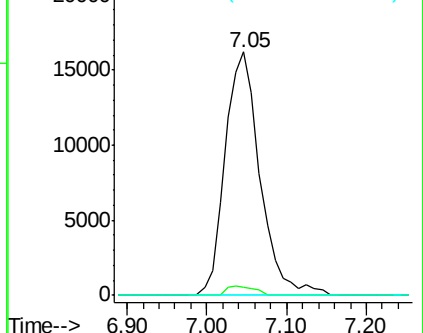
121 0.0 25.3 37.9#



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: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD061214.D

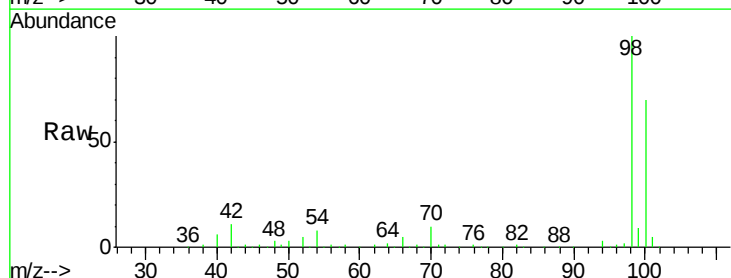
Acq: 20 Mar 2019 18:03

Tgt Ion: 98 Resp: 913609

Ion Ratio Lower Upper

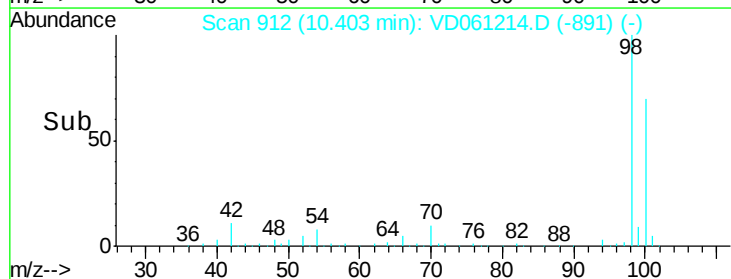
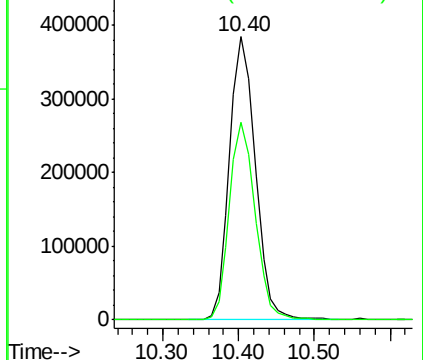
98 100

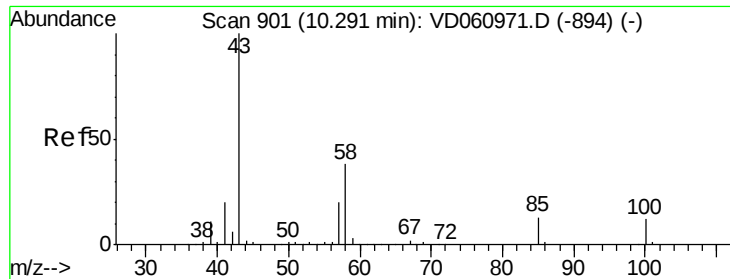
100 70.0 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.313 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.11 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

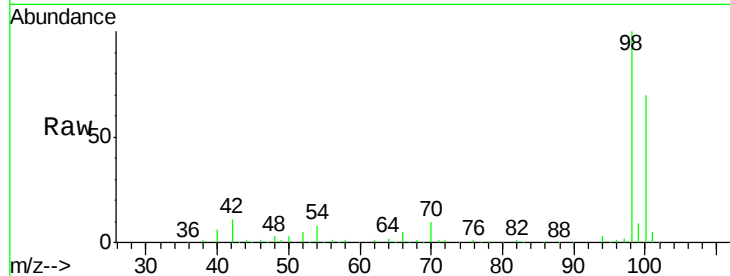
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 4265

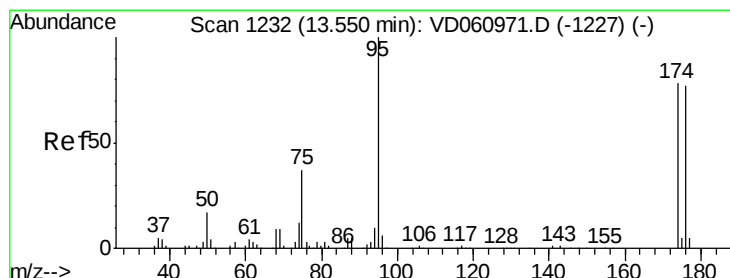
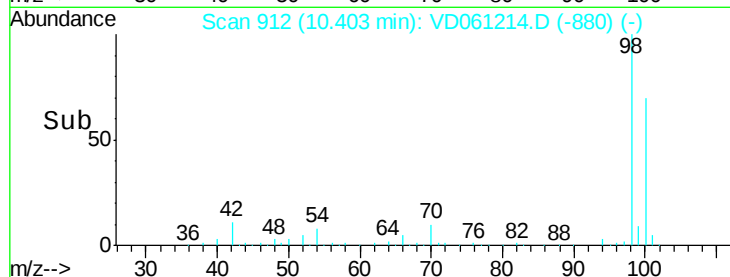
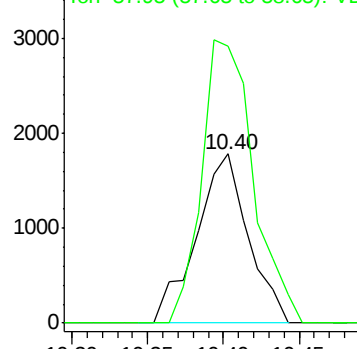
Ion Ratio Lower Upper

43 100

58 163.5 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

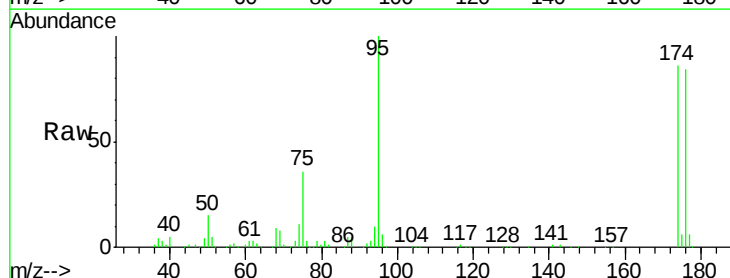
Tgt Ion: 95 Resp: 332963

Ion Ratio Lower Upper

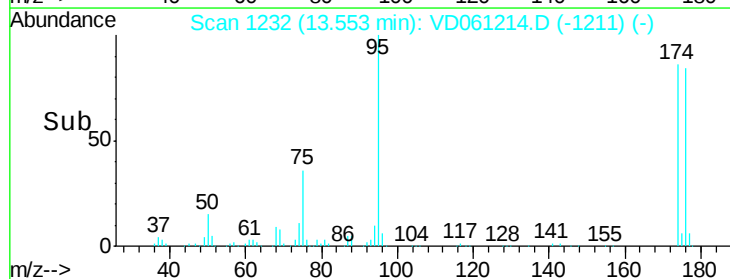
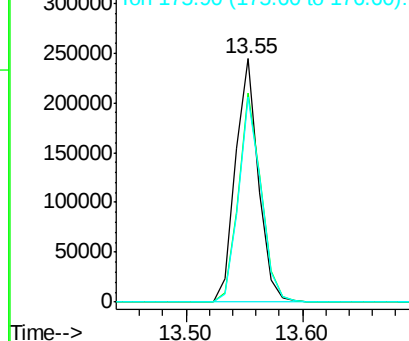
95 100

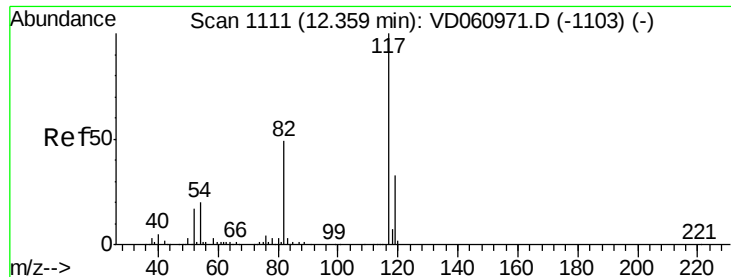
174 85.9 0.0 155.6

176 84.3 0.0 153.8



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

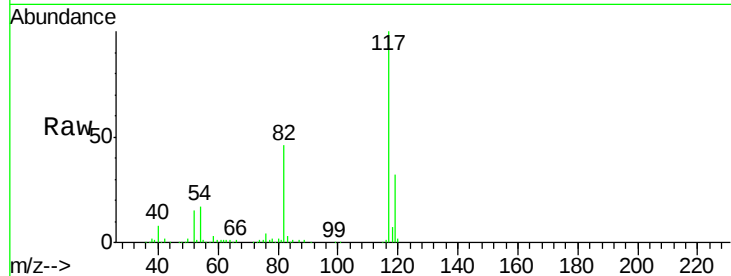




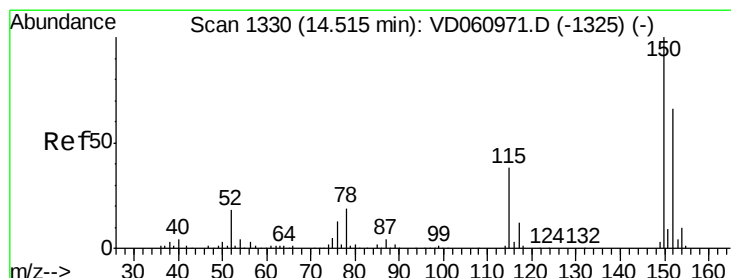
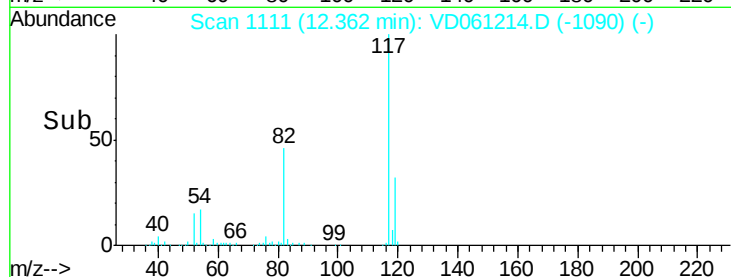
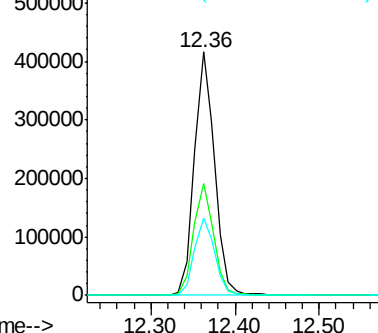
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD061214.D
Acq: 20 Mar 2019 18:03

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 693557
Ion Ratio Lower Upper
117 100
82 46.0 38.9 58.3
119 31.8 26.6 39.8

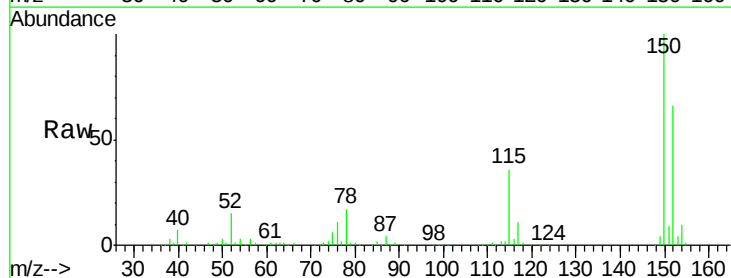


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

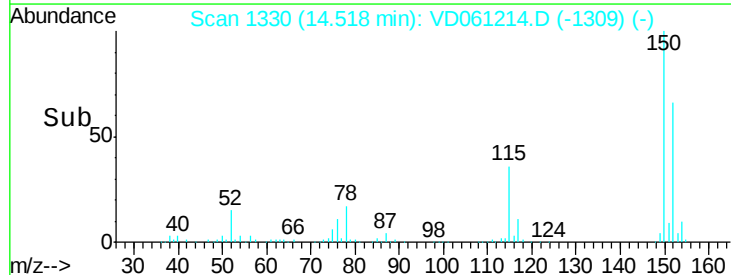
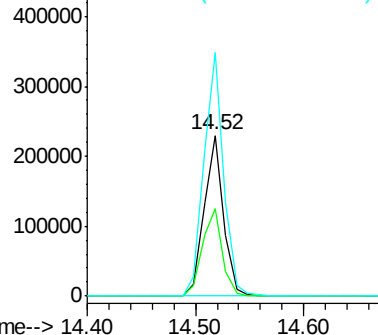


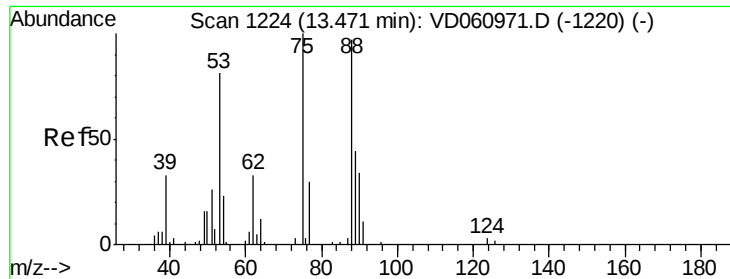
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061214.D
Acq: 20 Mar 2019 18:03

Tgt Ion:152 Resp: 286872
Ion Ratio Lower Upper
152 100
115 54.8 28.6 85.9
150 151.6 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





#81

trans-1,4-Dichloro-2-butene

Concen: 99.433 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061214.D

Acq: 20 Mar 2019 18:03

Instrument :

MSVOA_D

ClientSampleId :

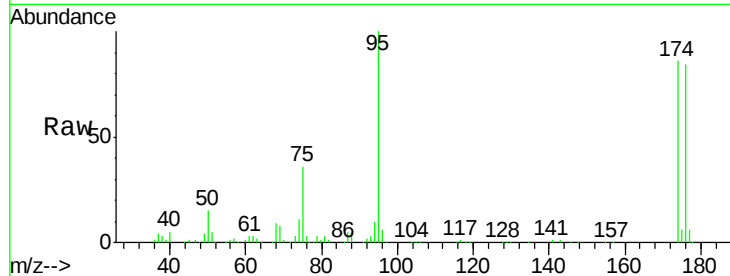
Tot Ion: 75 Resp: 120988

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

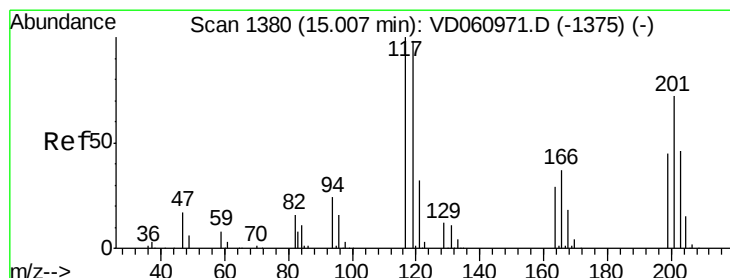
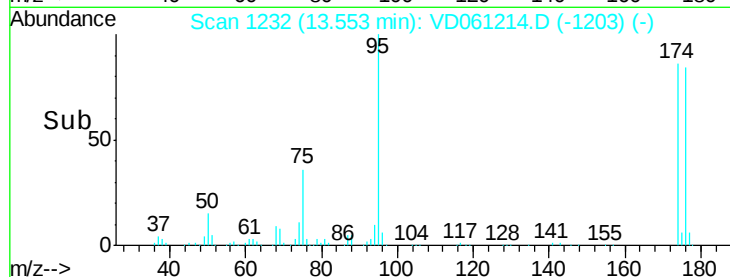
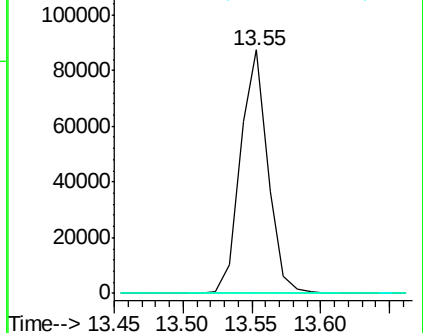
89 0.0 34.8 52.2#



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



#90

Hexachloroethane

Concen: 1.878 ug/l

RT: 15.14 min Scan# 1393

Delta R.T. 0.13 min

Lab File: VD061214.D

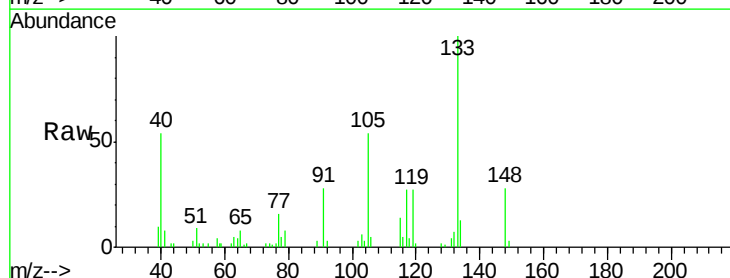
Acq: 20 Mar 2019 18:03

Tgt Ion: 117 Resp: 9089

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

