

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051019\
 Data File : VD062212.D
 Acq On : 10 May 2019 13:40
 Operator : FY/SY
 Sample : K2718-03RE
 Misc : 3.28g/5mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS005-0002-01RE

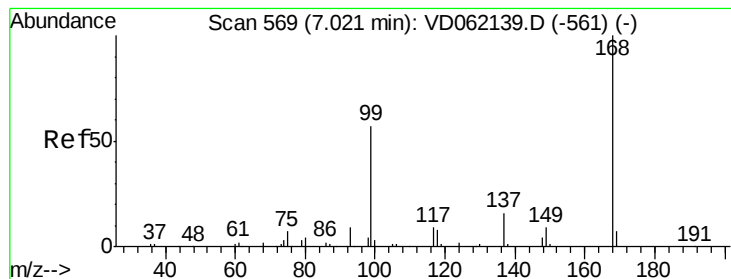
Quant Time: May 10 23:31:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	864141	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	1219500	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.36	117	803817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	273270	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	419628	52.25	ug/l	0.03
Spiked Amount			Recovery	=	104.50%	
35) Dibromofluoromethane	6.92	113	528601	52.24	ug/l	0.03
Spiked Amount			Recovery	=	104.48%	
50) Toluene-d8	10.42	98	1194371	48.96	ug/l	0.02
Spiked Amount			Recovery	=	97.92%	
62) 4-Bromofluorobenzene	13.55	95	363623	37.12	ug/l	0.00
Spiked Amount			Recovery	=	74.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.88	74	9476	4.306	ug/l	79
16) Acetone	3.22	43	8855	5.258	ug/l #	79
20) Methylene Chloride	3.82	84	62966	8.955	ug/l	95
31) Cyclohexane	7.04	56	17155	2.036	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	63900	6.391	ug/l #	47
38) Carbon Tetrachloride	7.04	117	85463	6.175	ug/l #	16
51) 4-Methyl-2-Pentanone	10.42	43	5142	1.330	ug/l #	1
76) 1,2,3-Trichloropropane	13.55	75	111520	34.339	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	152212	166.023	ug/l #	16

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD062212.D

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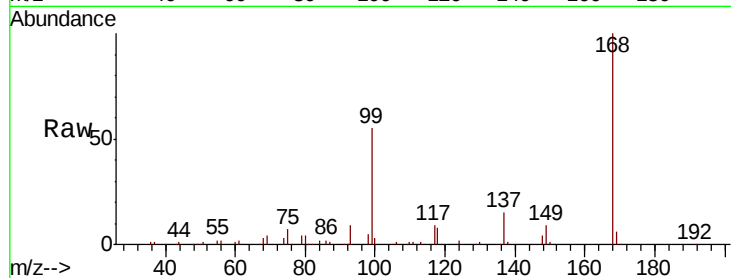
P026-SS005-0002-01RE

Tot Ion:168 Resp: 864141

Ion Ratio Lower Upper

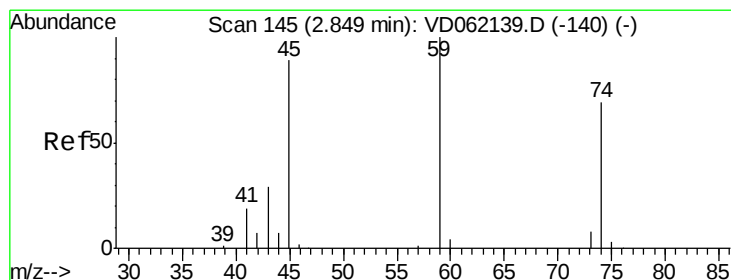
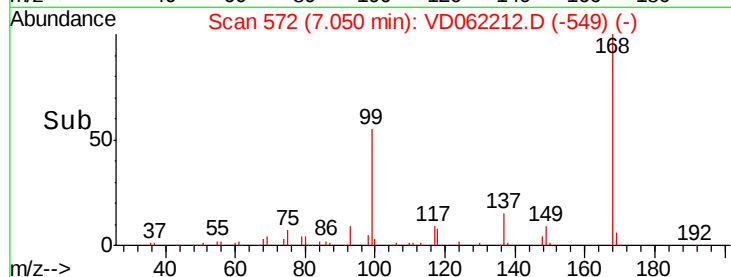
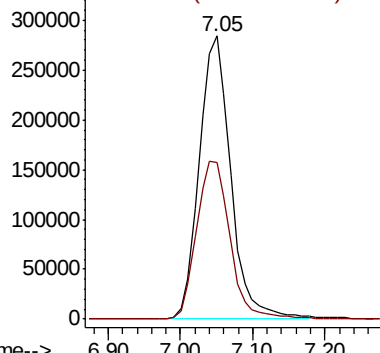
168 100

99 55.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 4.306 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.03 min

Lab File: VD062212.D

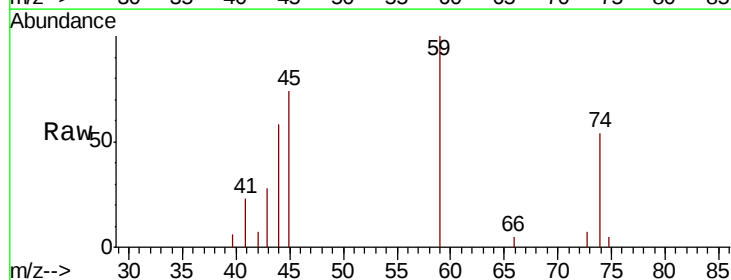
Acq: 10 May 2019 13:40

Tgt Ion: 74 Resp: 9476

Ion Ratio Lower Upper

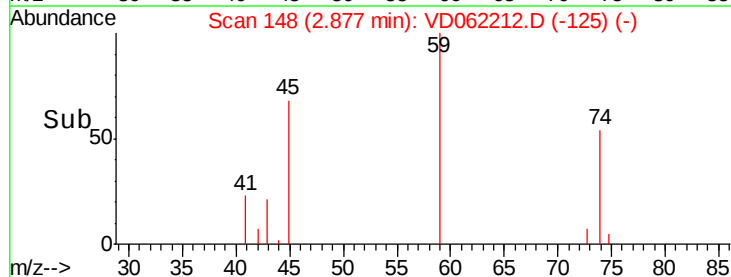
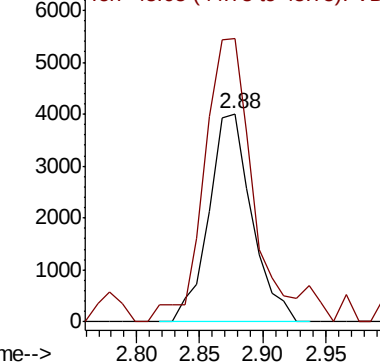
74 100

45 136.0 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

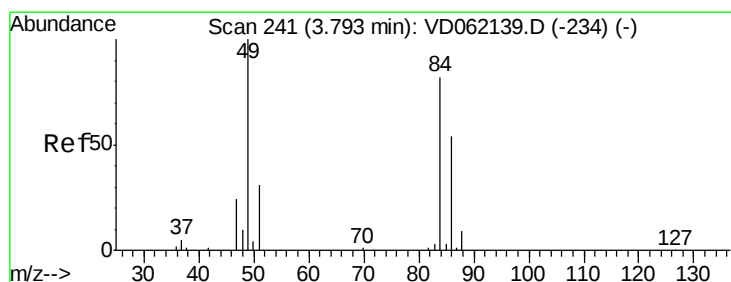
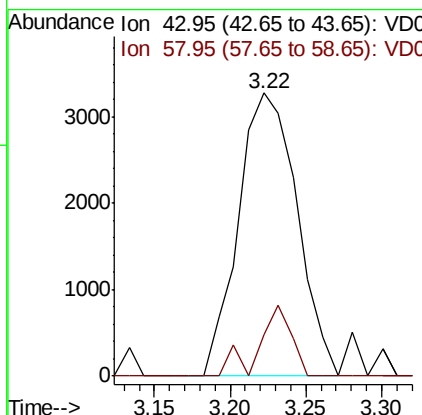
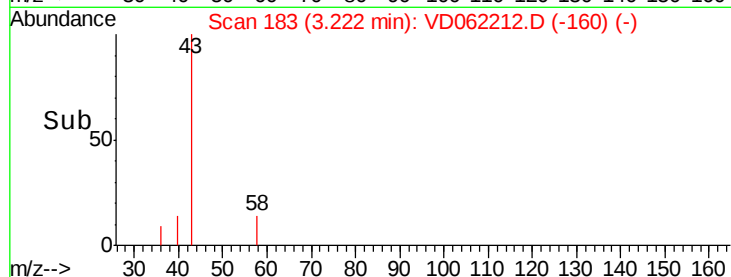
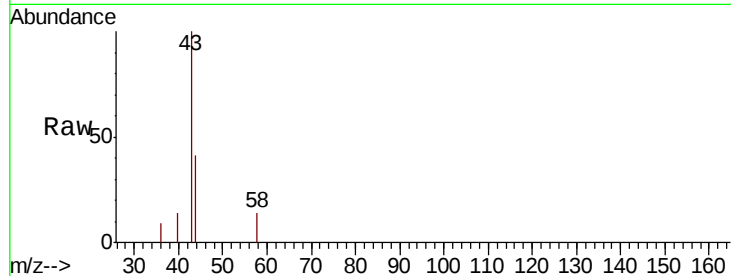




#16
Acetone
Concen: 5.258 ug/l
RT: 3.22 min Scan# 183
Delta R.T. 0.03 min
Lab File: VD062212.D
Acq: 10 May 2019 13:40

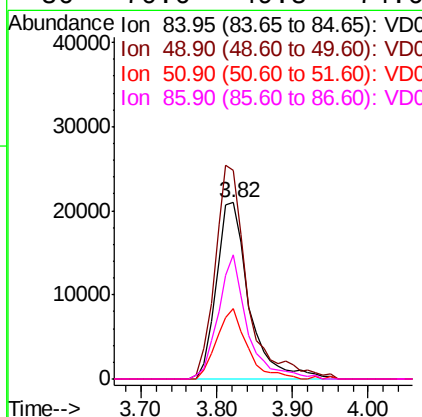
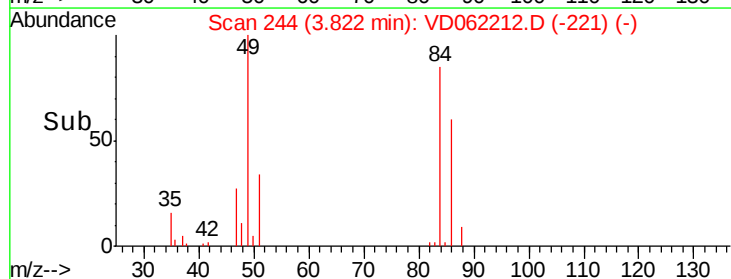
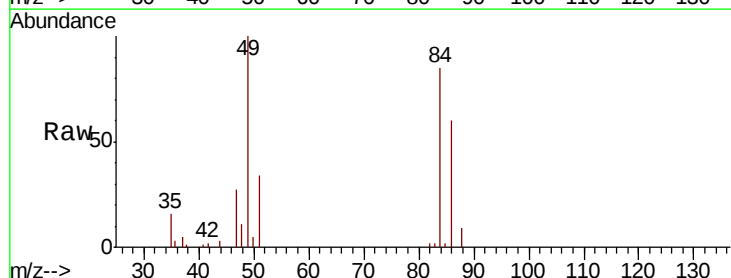
Instrument :
MSVOA_D
ClientSampleId :
P026-SS005-0002-01RE

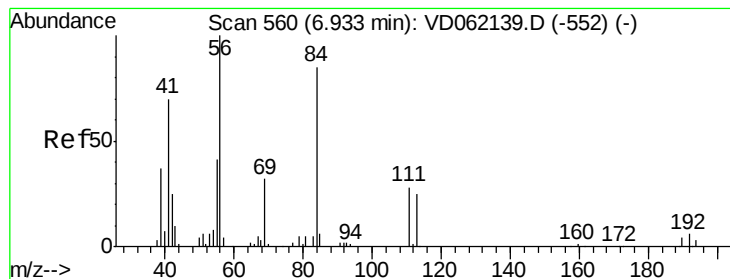
Tot Ion: 43 Resp: 8855
Ion Ratio Lower Upper
43 100
58 14.5 19.9 29.9#



#20
Methylene Chloride
Concen: 8.955 ug/l
RT: 3.82 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD062212.D
Acq: 10 May 2019 13:40

Tgt Ion: 84 Resp: 62966
Ion Ratio Lower Upper
84 100
49 118.3 94.0 141.0
51 39.8 29.0 43.4
86 70.6 49.8 74.6





#31

Cyclohexane

Concen: 2.036 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

Instrument :

MSVOA_D

ClientSampleId :

P026-SS005-0002-01RE

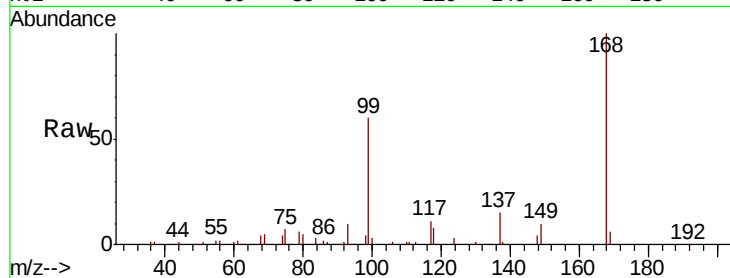
Tot Ion: 56 Resp: 17155

Ion Ratio Lower Upper

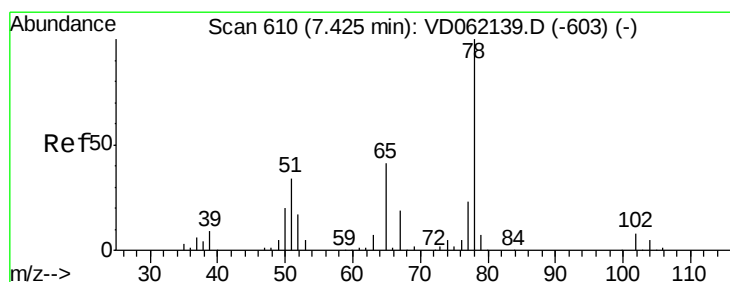
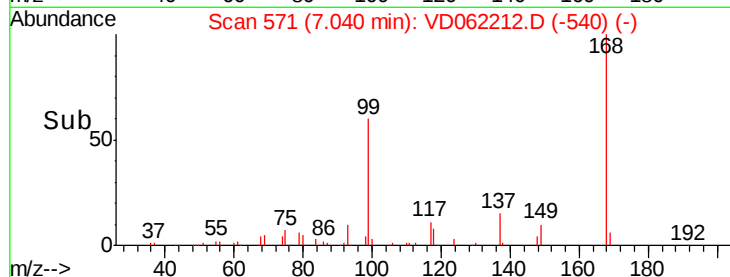
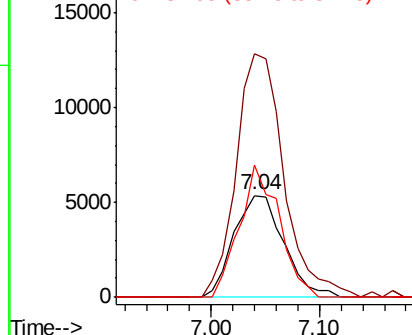
56 100

69 239.5 25.8 38.6#

84 130.4 72.2 108.4#



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: 52.254 ug/l

RT: 7.45 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD062212.D

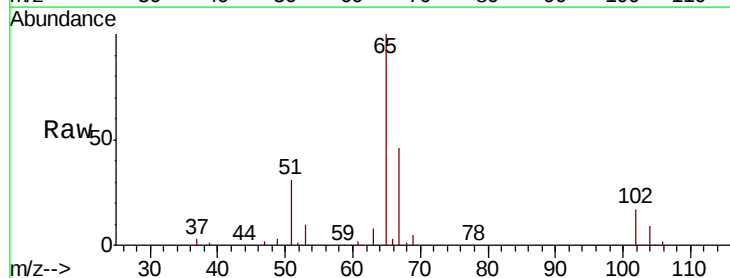
Acq: 10 May 2019 13:40

Tgt Ion: 65 Resp: 419628

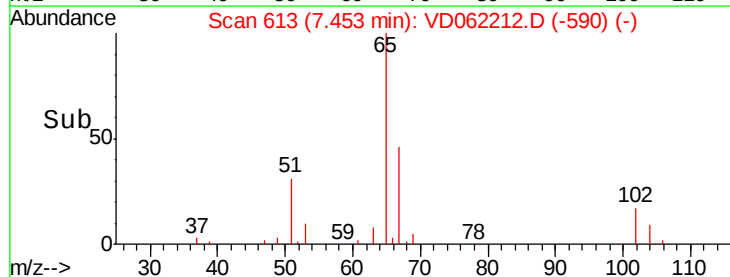
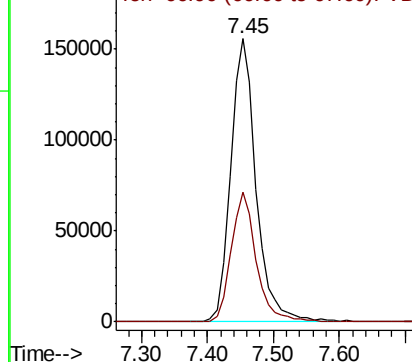
Ion Ratio Lower Upper

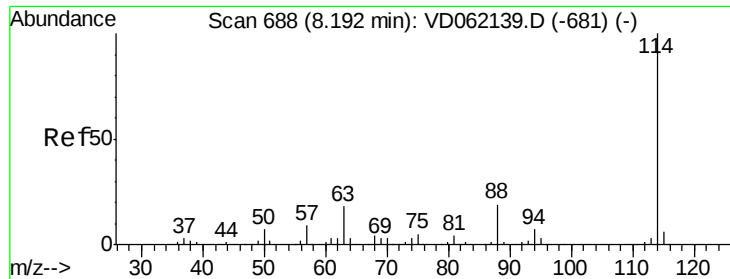
65 100

67 45.7 0.0 98.0



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# 691

Delta R.T. 0.03 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

Instrument :

MSVOA_D

ClientSampleId :

P026-SS005-0002-01RE

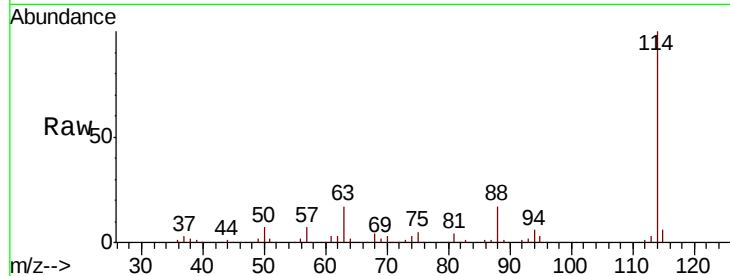
Tot Ion:114 Resp: 1219500

Ion Ratio Lower Upper

114 100

63 17.2 0.0 32.4

88 17.5 0.0 33.6



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

600000

500000

400000

300000

200000

100000

0

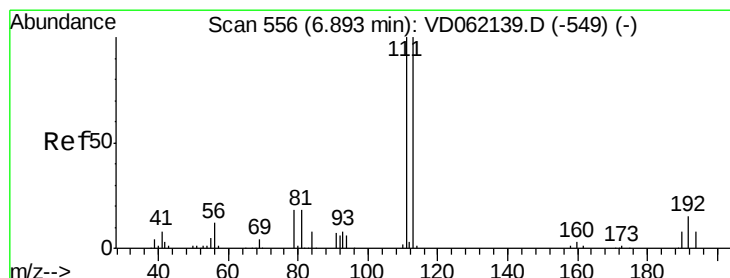
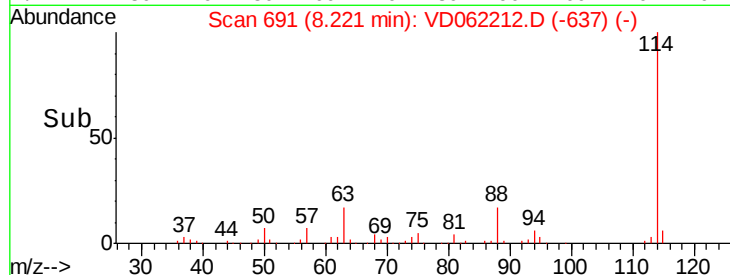
8.22

8.00

8.20

8.40

Time-->



#35

Dibromofluoromethane

Concen: 52.242 ug/l

RT: 6.92 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

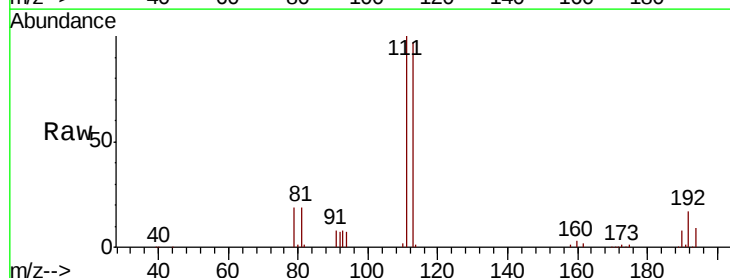
Tgt Ion:113 Resp: 528601

Ion Ratio Lower Upper

113 100

111 103.1 78.5 117.7

192 17.1 13.0 19.4



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

250000

200000

150000

100000

50000

0

6.92

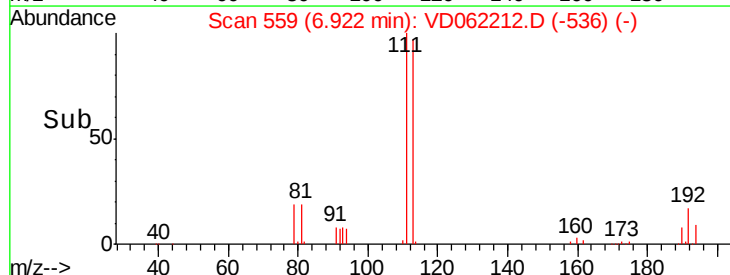
6.80

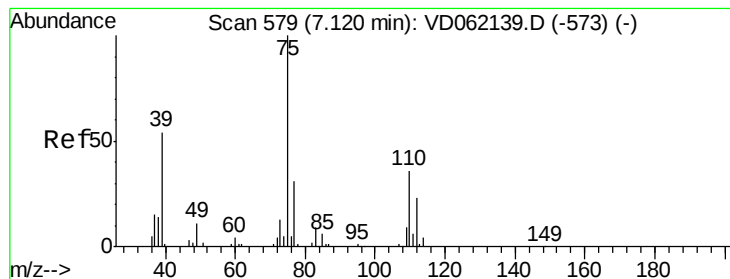
6.90

7.00

7.10

Time-->





#36

1,1-Dichloropropene

Concen: 6.391 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.07 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

Instrument :

MSVOA_D

ClientSampleId :

P026-SS005-0002-01RE

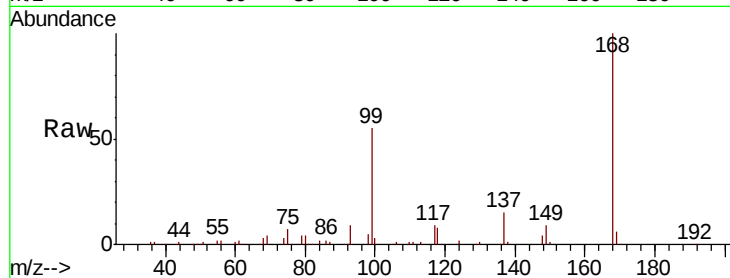
Tot Ion: 75 Resp: 63900

Ion Ratio Lower Upper

75 100

110 8.5 19.1 57.1#

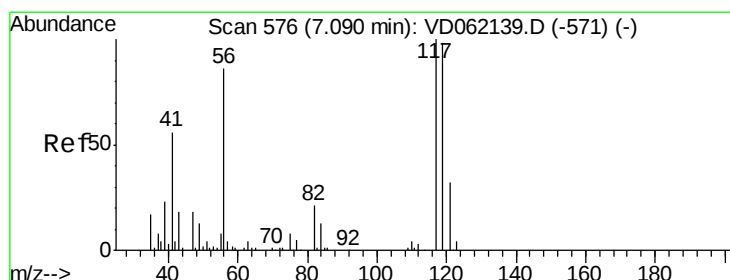
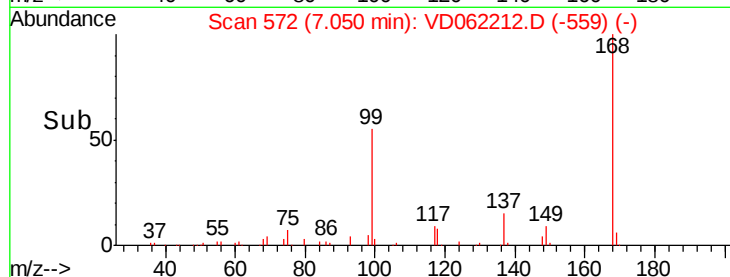
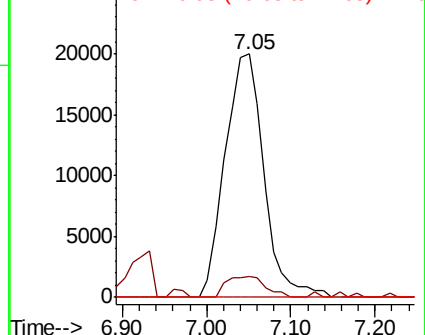
77 0.0 25.6 38.4#



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: 6.175 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

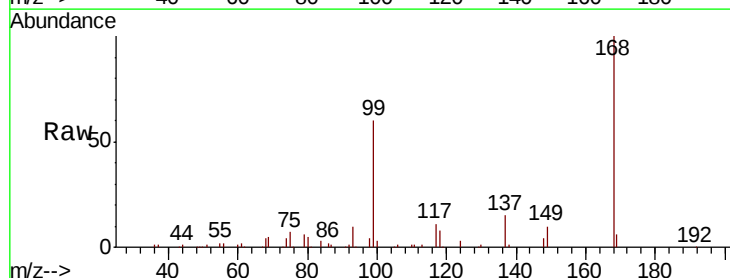
Tgt Ion: 117 Resp: 85463

Ion Ratio Lower Upper

117 100

119 4.1 75.8 113.8#

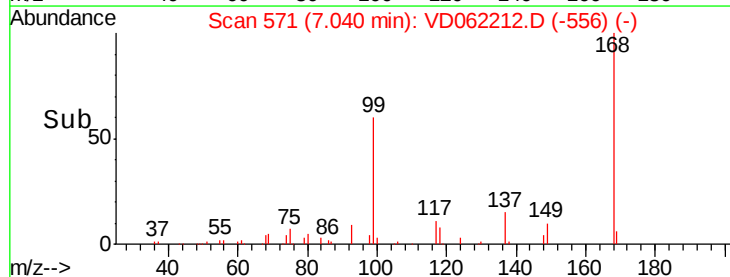
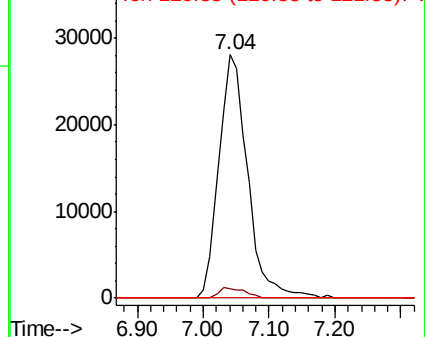
121 0.0 25.9 38.9#

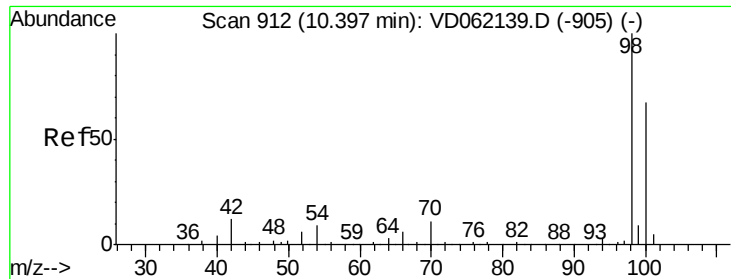


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: 48.958 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

Instrument :

MSVOA_D

ClientSampleId :

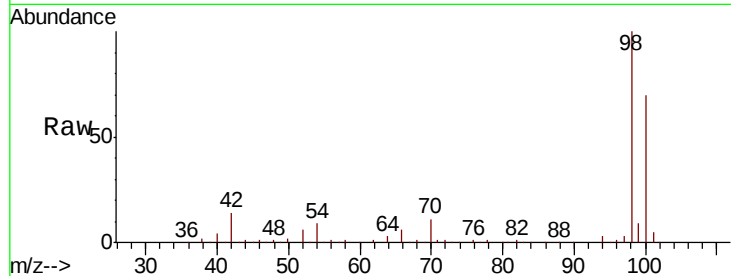
P026-SS005-0002-01RE

Tot Ion: 98 Resp: 1194371

Ion Ratio Lower Upper

98 100

100 69.6 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

600000

500000

400000

300000

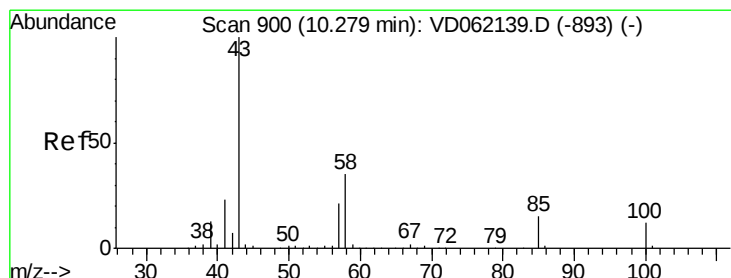
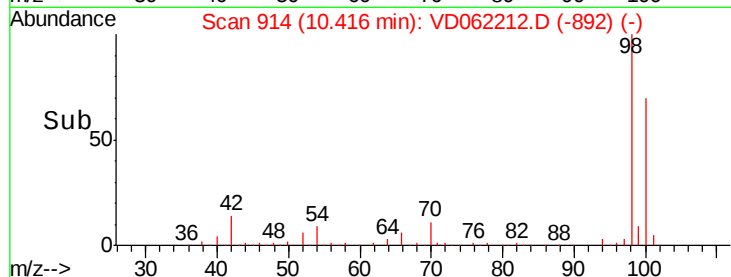
200000

100000

0

10.30 10.40 10.50 10.60

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.330 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.14 min

Lab File: VD062212.D

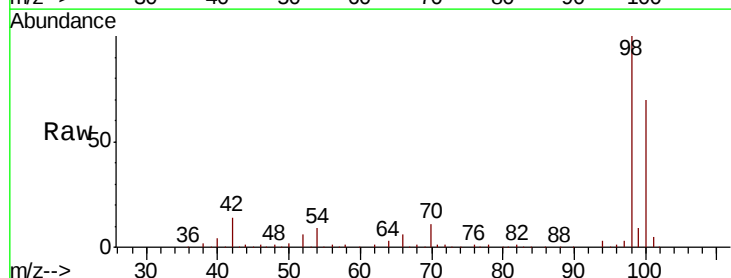
Acq: 10 May 2019 13:40

Tgt Ion: 43 Resp: 5142

Ion Ratio Lower Upper

43 100

58 161.8 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

4000

3000

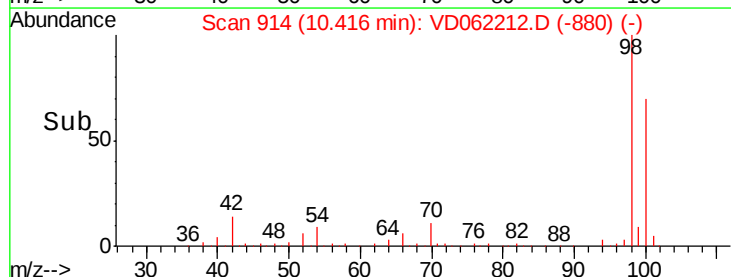
2000

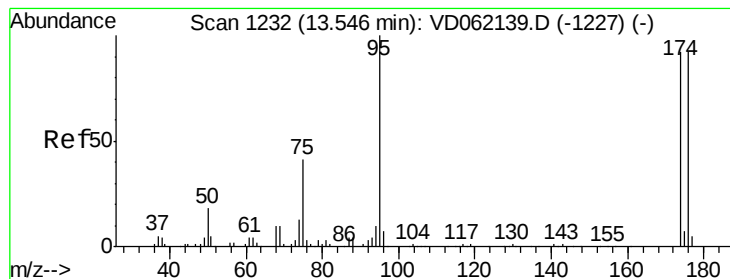
1000

0

10.35 10.40 10.45

Time-->





#62

4-Bromofluorobenzene

Concen: 37.117 ug/l

RT: 13.55 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

Instrument :

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ClientSampleId :

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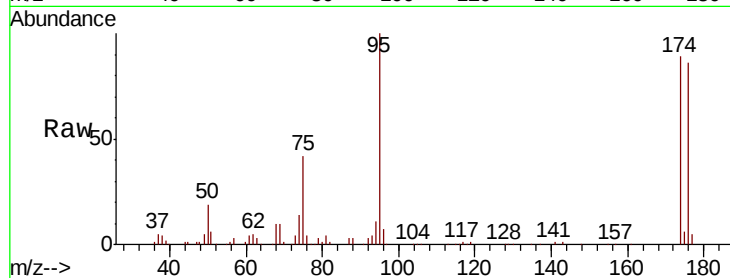
Tot Ion: 95 Resp: 363623

Ion Ratio Lower Upper

95 100

174 89.0 0.0 181.8

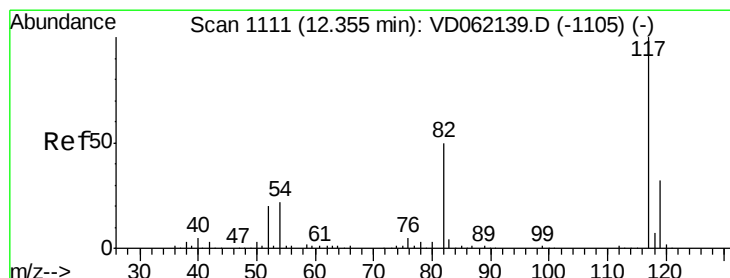
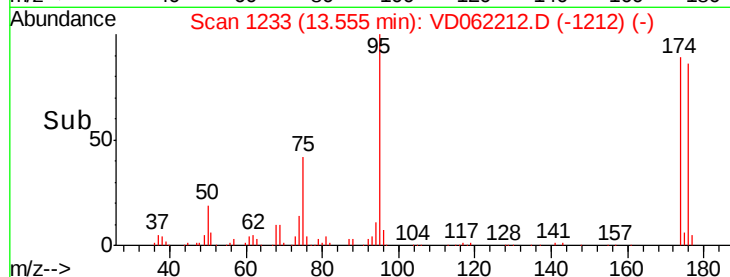
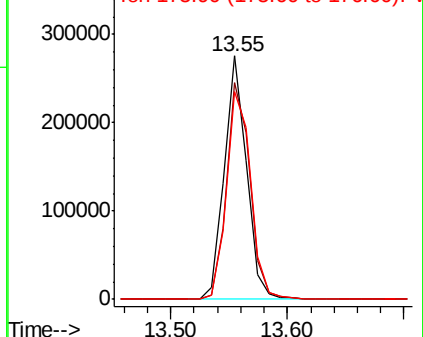
176 85.5 0.0 174.4



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: 12.36 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

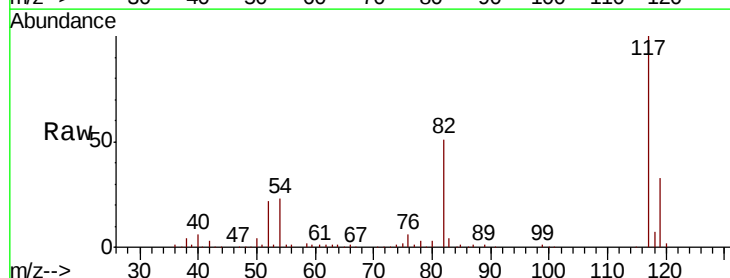
Tgt Ion: 117 Resp: 803817

Ion Ratio Lower Upper

117 100

82 50.9 36.2 54.2

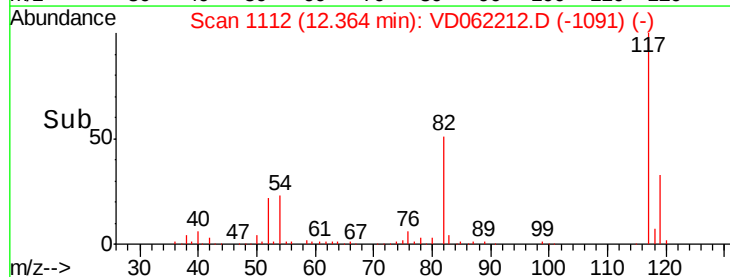
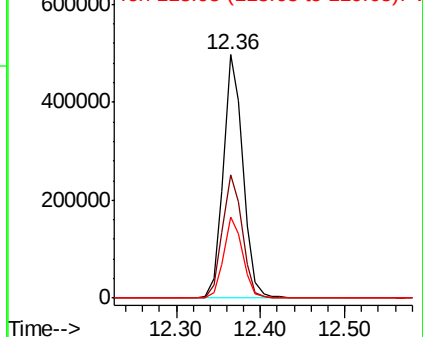
119 33.2 26.2 39.4

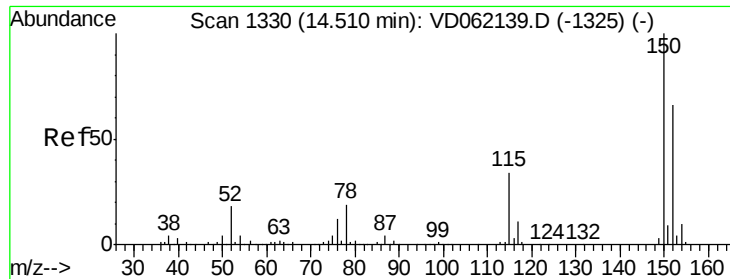


Abundance Ion 116.95 (116.65 to 117.65): V

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# 1331

Delta R.T. 0.01 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

Instrument :

MSVOA_D

ClientSampleId :

P026-SS005-0002-01RE

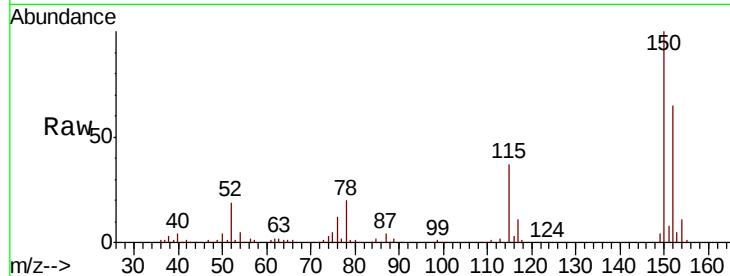
Tot Ion:152 Resp: 273270

Ion Ratio Lower Upper

152 100

115 56.4 30.9 92.7

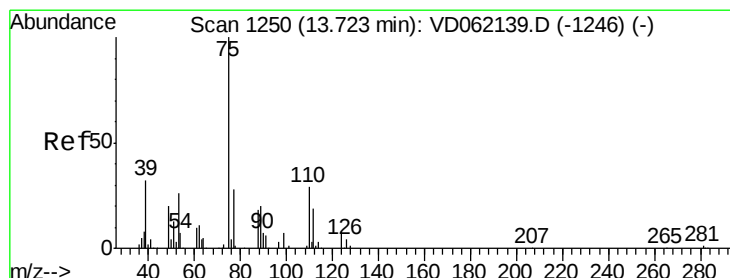
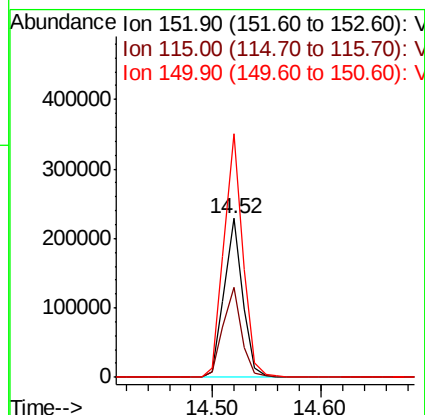
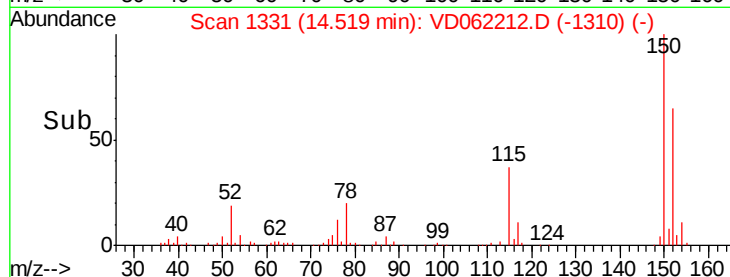
150 153.0 0.0 314.8



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



#76

1,2,3-Trichloropropane

Concen: 34.339 ug/l

RT: 13.55 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062212.D

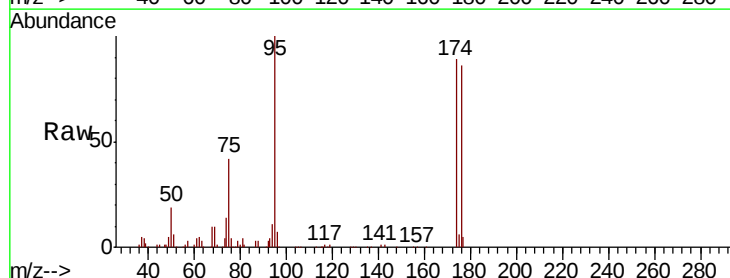
Acq: 10 May 2019 13:40

Tgt Ion: 75 Resp: 111520

Ion Ratio Lower Upper

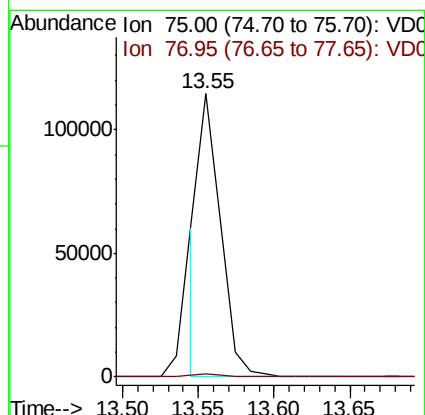
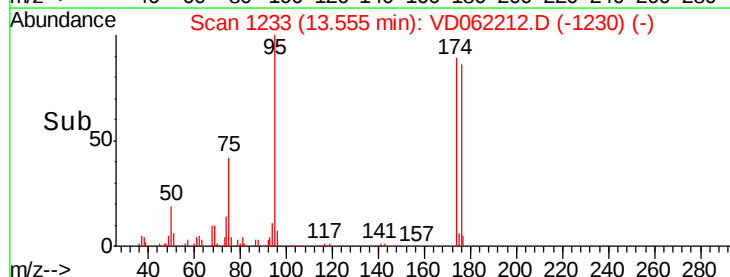
75 100

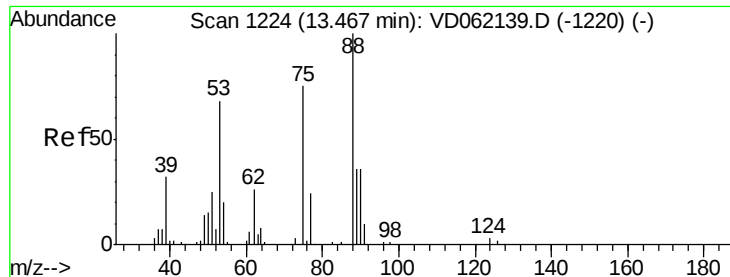
77 1.1 16.4 49.4#



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: 166.023 ug/l

RT: 13.55 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062212.D

Acq: 10 May 2019 13:40

Instrument :

MSVOA_D

ClientSampleId :

P026-SS005-0002-01RE

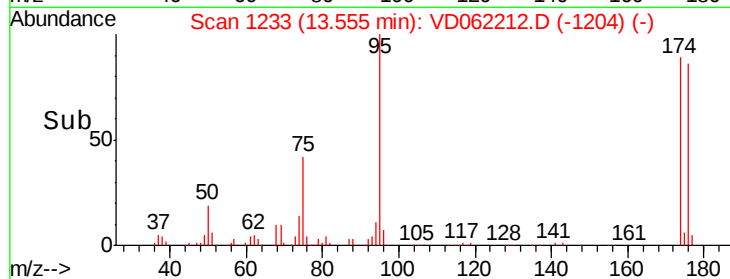
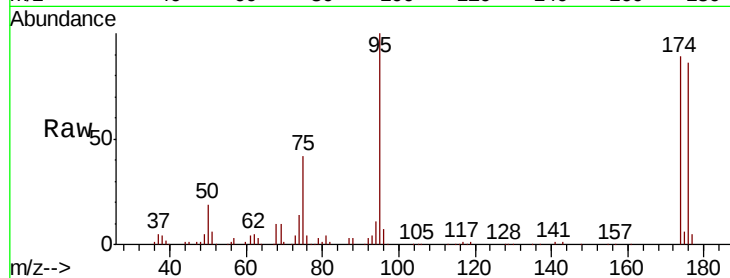
Tot Ion: 75 Resp: 152212

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

