

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062019\
 Data File : VD062803.D
 Acq On : 20 Jun 2019 19:26
 Operator : VA/AP
 Sample : K3455-01RE
 Misc : 4.52g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

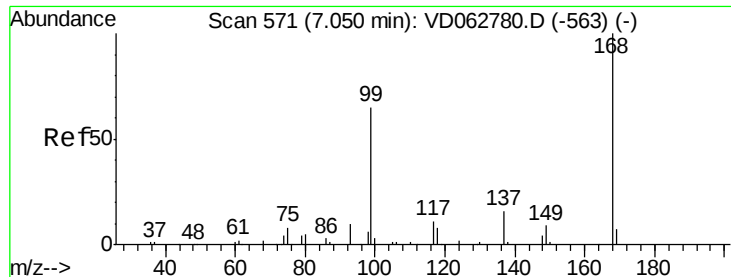
Quant Time: Jun 21 06:36:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	670657	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.25	114	887824	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.39	117	561700	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.54	152	183514	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.49	65	404121	55.44	ug/l	0.03
Spiked Amount			Recovery	=	110.88%	
35) Dibromofluoromethane	6.96	113	434891	58.09	ug/l	0.03
Spiked Amount			Recovery	=	116.18%	
50) Toluene-d8	10.44	98	838132	51.44	ug/l	0.03
Spiked Amount			Recovery	=	102.88%	
62) 4-Bromofluorobenzene	13.57	95	253821	34.26	ug/l	0.02
Spiked Amount			Recovery	=	68.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.10	59	1511	4.551	ug/l #	77
16) Acetone	3.25	43	85449	52.268	ug/l	97
20) Methylene Chloride	3.84	84	14408	2.592	ug/l #	92
31) Cyclohexane	7.06	56	18079	2.641	ug/l #	1
36) 1,1-Dichloropropene	7.07	75	53468	6.362	ug/l #	53
38) Carbon Tetrachloride	7.06	117	68226	5.398	ug/l #	15
51) 4-Methyl-2-Pentanone	10.43	43	3620	1.159	ug/l #	1
76) 1,2,3-Trichloropropane	13.57	75	118758	56.057	ug/l #	46
81) trans-1,4-Dichloro-2-buten	13.57	75	124890	224.931	ug/l #	2

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

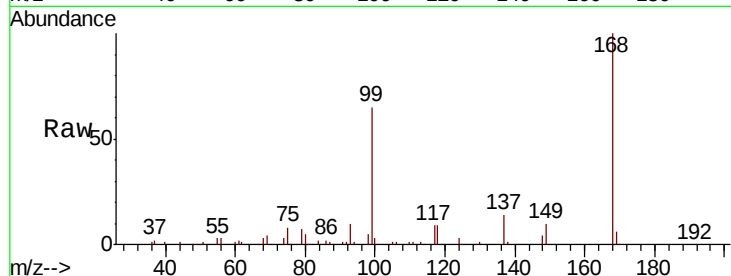
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 670657

Ion Ratio Lower Upper

168 100

99 65.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

250000

200000

150000

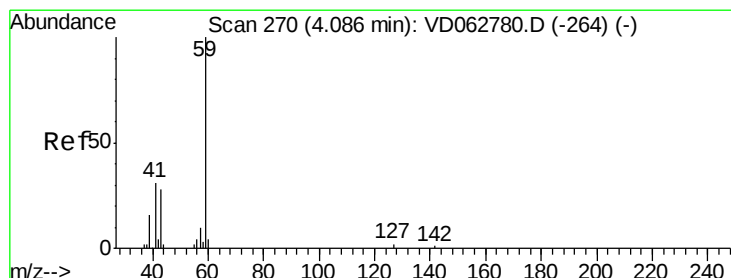
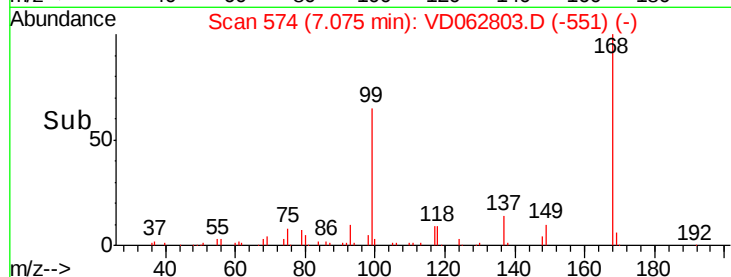
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 4.551 ug/l

RT: 4.10 min Scan# 272

Delta R.T. 0.02 min

Lab File: VD062803.D

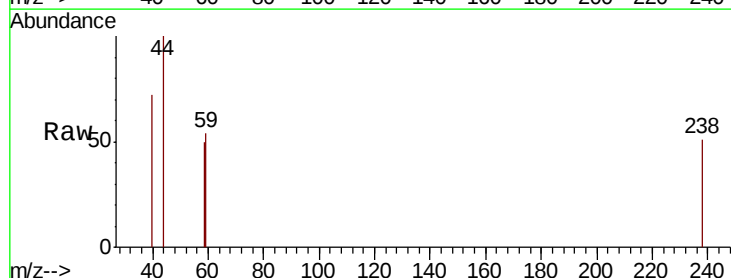
Acq: 20 Jun 2019 19:26

Tgt Ion: 59 Resp: 1511

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.10

1000

800

600

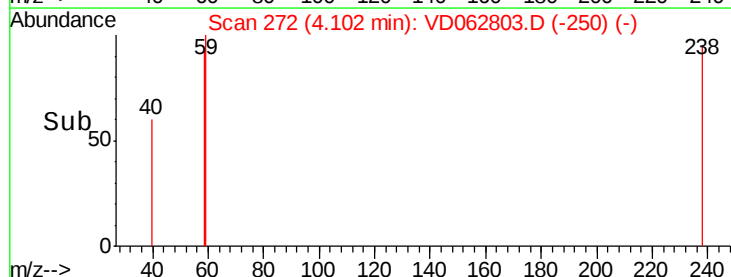
400

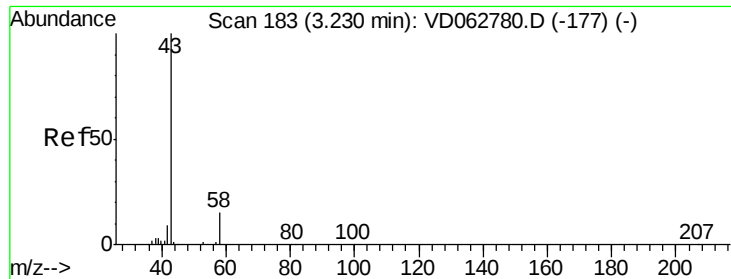
200

0

Time-->

4.10 4.15





#16

Acetone

Concen: 52.268 ug/l

RT: 3.25 min Scan# 185

Delta R.T. 0.02 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

Instrument :

MSVOA_D

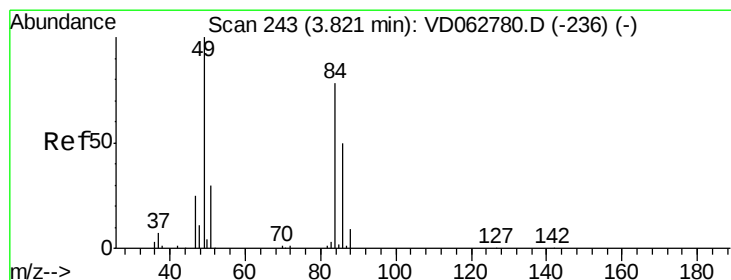
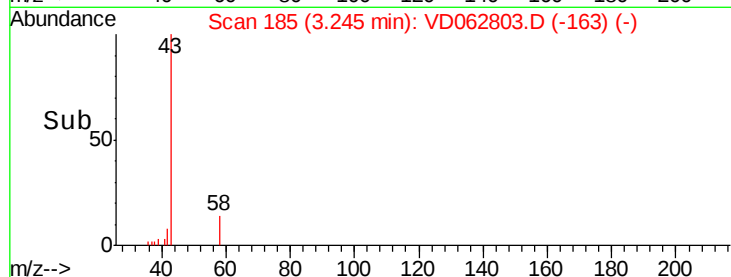
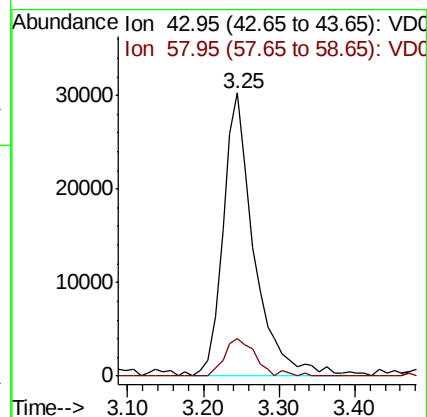
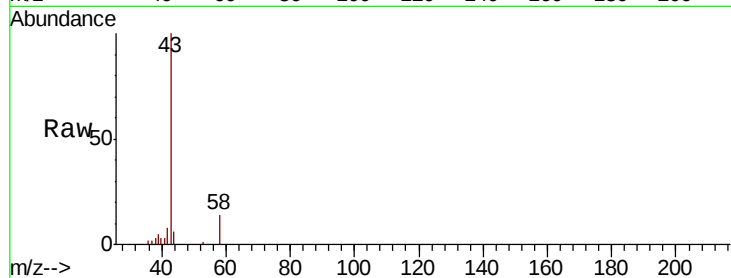
ClientSampleId :

Tot Ion: 43 Resp: 85449

Ion Ratio Lower Upper

43 100

58 13.5 11.9 17.9



#20

Methylene Chloride

Concen: 2.592 ug/l

RT: 3.84 min Scan# 245

Delta R.T. 0.02 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

Tgt Ion: 84 Resp: 14408

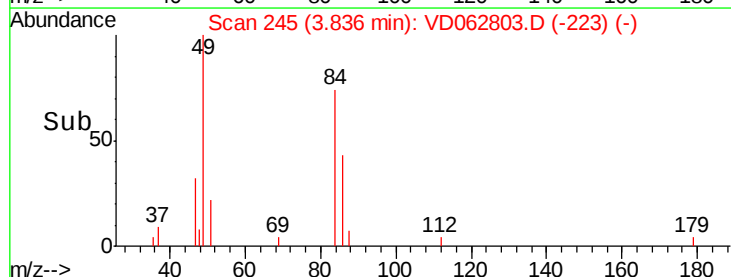
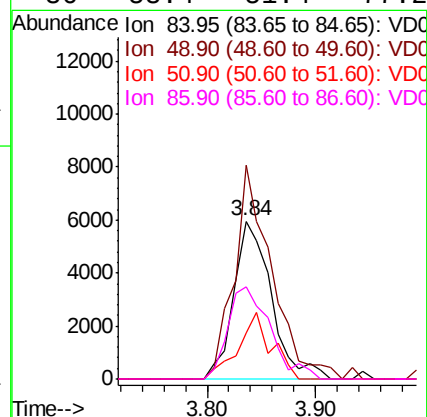
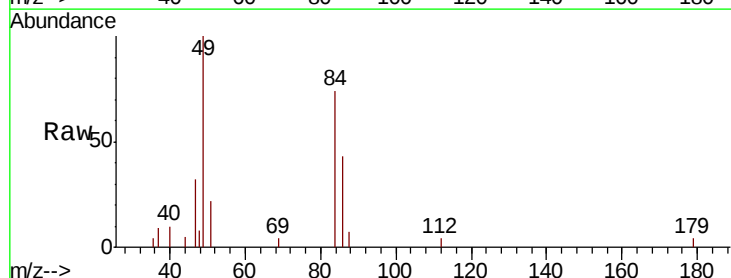
Ion Ratio Lower Upper

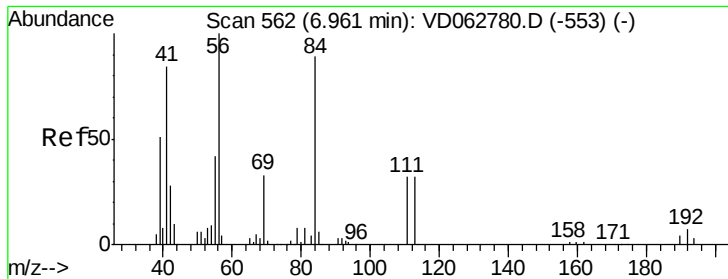
84 100

49 135.3 102.9 154.3

51 29.1 31.2 46.8#

86 58.4 51.4 77.2

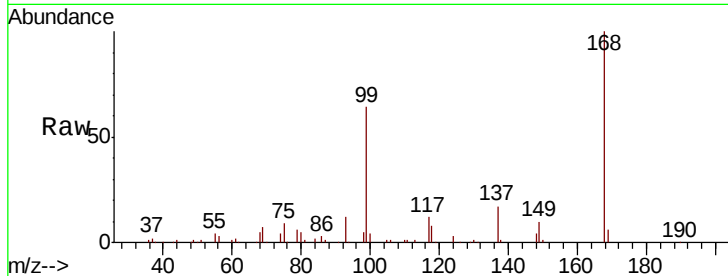




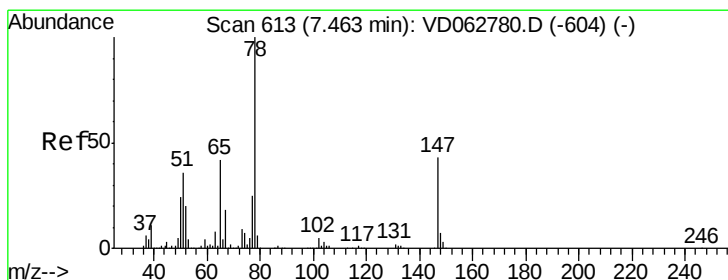
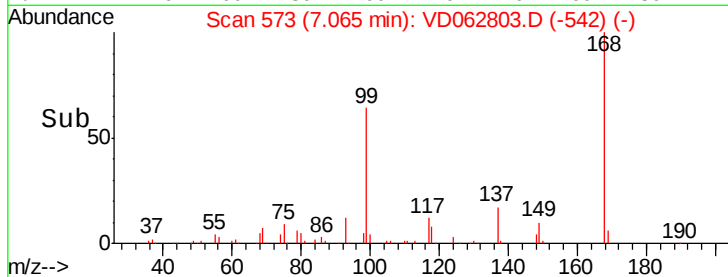
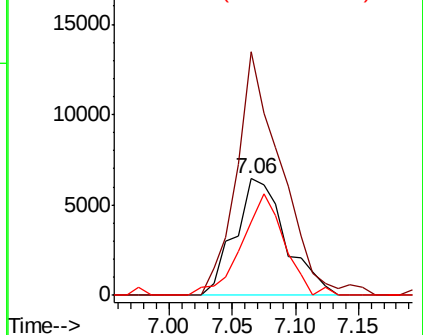
#31
Cyclohexane
Concen: 2.641 ug/l
RT: 7.06 min Scan# 573
Delta R.T. 0.10 min
Lab File: VD062803.D
Acq: 20 Jun 2019 19:26

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 18079
Ion Ratio Lower Upper
56 100
69 208.8 26.6 39.8#
84 62.6 75.5 113.3#

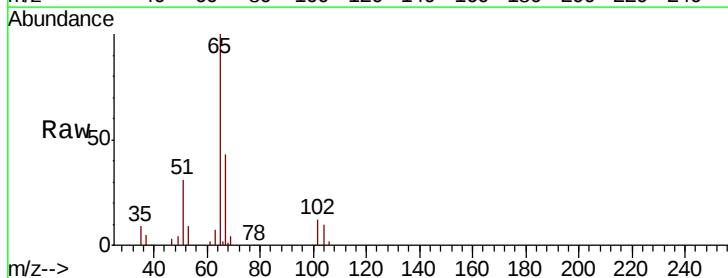


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

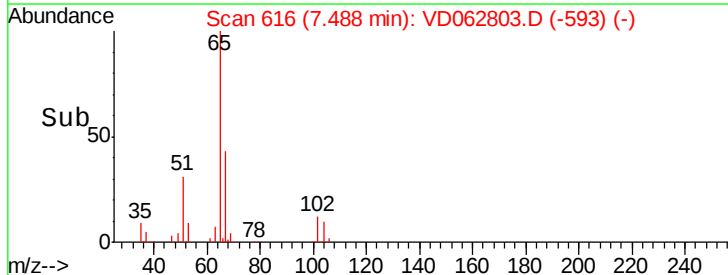
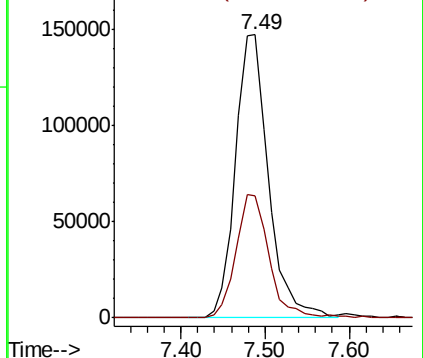


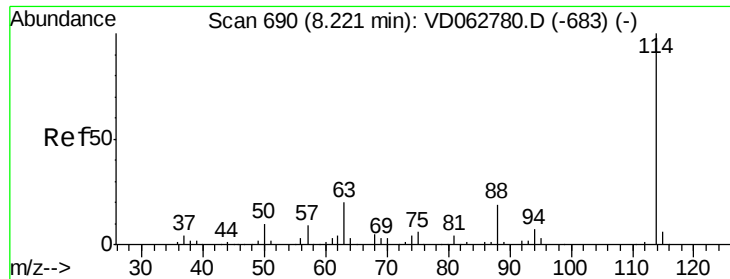
#33
1,2-Dichloroethane-d4
Concen: 55.435 ug/l
RT: 7.49 min Scan# 616
Delta R.T. 0.03 min
Lab File: VD062803.D
Acq: 20 Jun 2019 19:26

Tgt Ion: 65 Resp: 404121
Ion Ratio Lower Upper
65 100
67 43.3 0.0 87.4



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: 8.25 min Scan# 693

Delta R.T. 0.03 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

Instrument :

MSVOA_D

ClientSampleId :

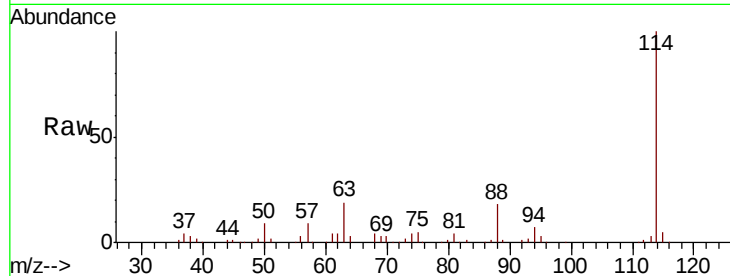
Tot Ion:114 Resp: 887824

Ion Ratio Lower Upper

114 100

63 19.0 0.0 40.0

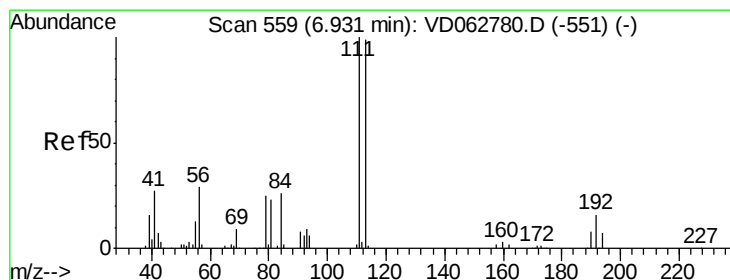
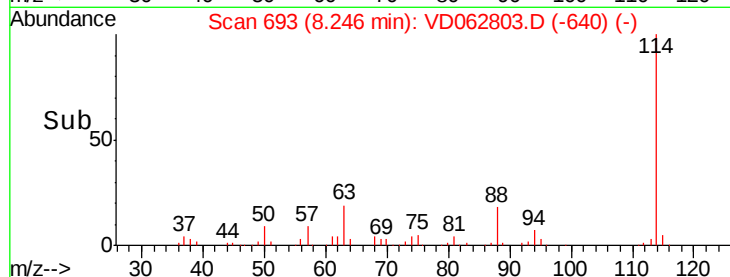
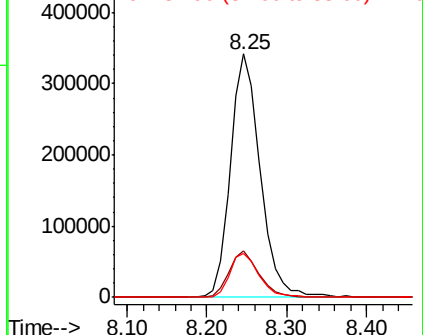
88 18.2 0.0 38.8



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: 58.093 ug/l

RT: 6.96 min Scan# 562

Delta R.T. 0.03 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

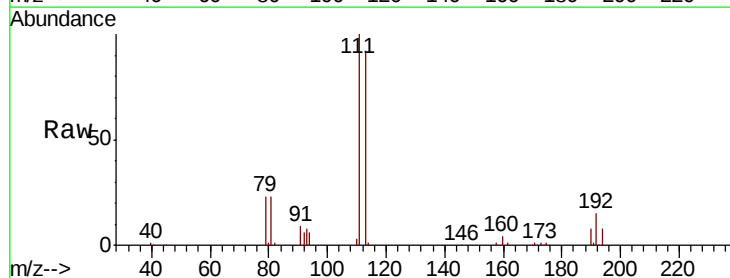
Tgt Ion:113 Resp: 434891

Ion Ratio Lower Upper

113 100

111 108.8 81.2 121.8

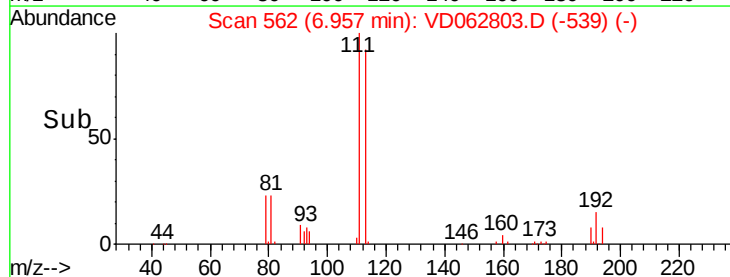
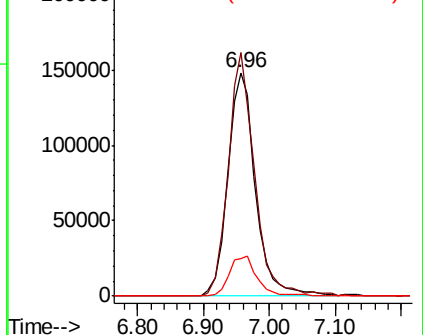
192 16.7 12.9 19.3

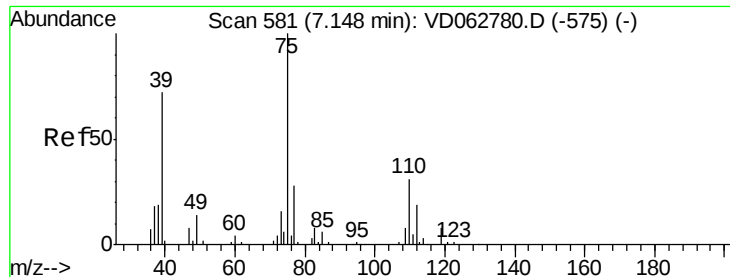


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.362 ug/l

RT: 7.07 min Scan# 574

Delta R.T. -0.07 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

Instrument :
MSVOA_D
ClientSampled :

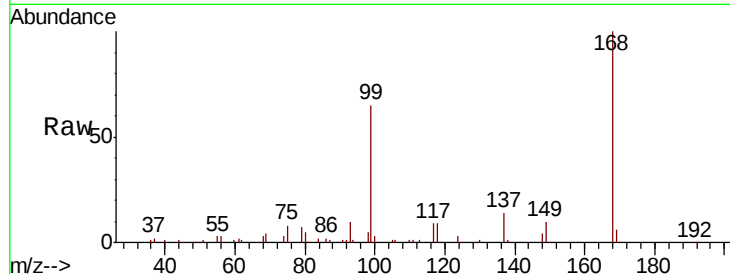
Tot Ion: 75 Resp: 53468

Ion Ratio Lower Upper

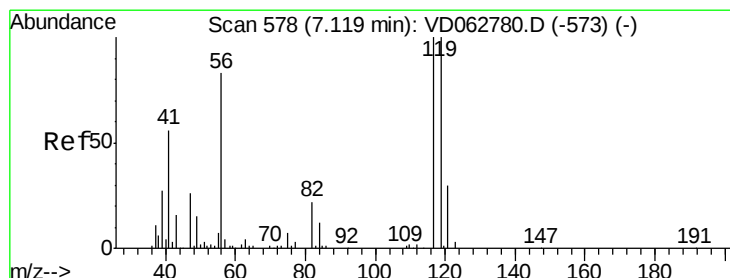
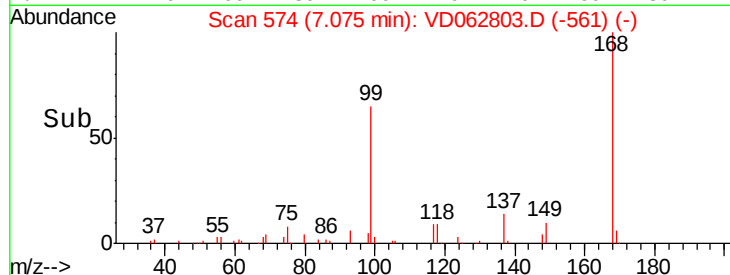
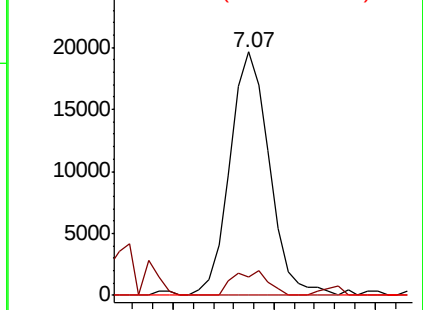
75 100

110 7.7 15.0 45.1#

77 0.0 22.2 33.2#



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



#38

Carbon Tetrachloride

Concen: 5.398 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.05 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

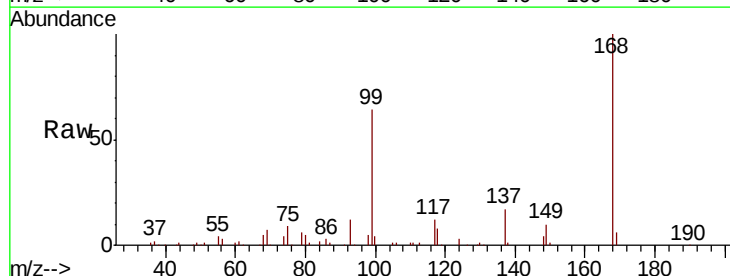
Tgt Ion: 117 Resp: 68226

Ion Ratio Lower Upper

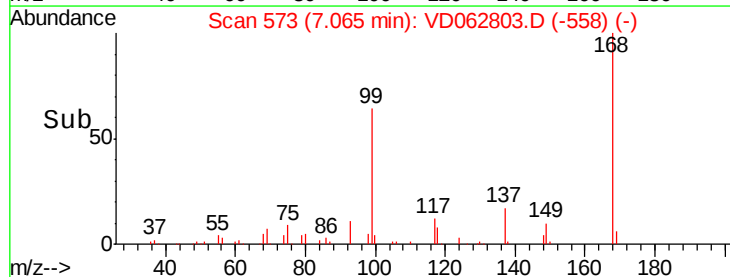
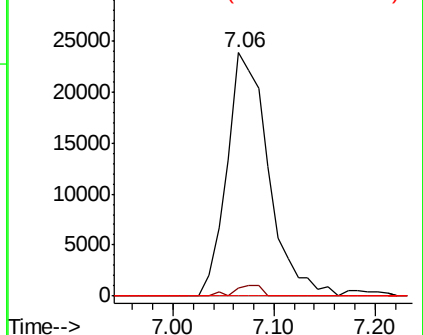
117 100

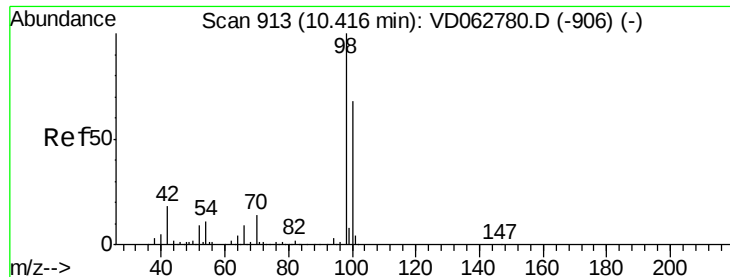
119 3.2 75.4 113.2#

121 0.0 22.3 33.5#



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





#50

Toluene-d8

Concen: 51.441 ug/l

RT: 10.44 min Scan# 916

Delta R.T. 0.03 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

Instrument :

MSVOA_D

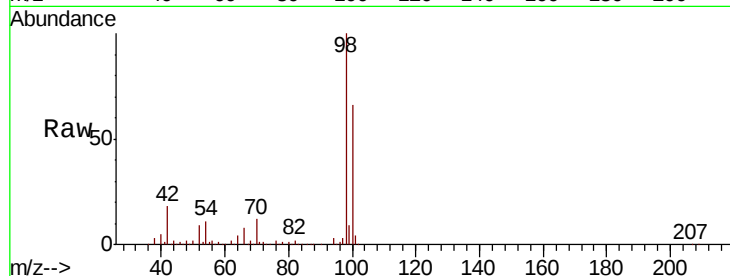
ClientSampleId :

Tot Ion: 98 Resp: 838132

Ion Ratio Lower Upper

98 100

100 66.3 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): VD062780.D (-906) (-)

Ion 100.05 (99.75 to 100.75): VD062780.D (-906) (-)

10.44

400000

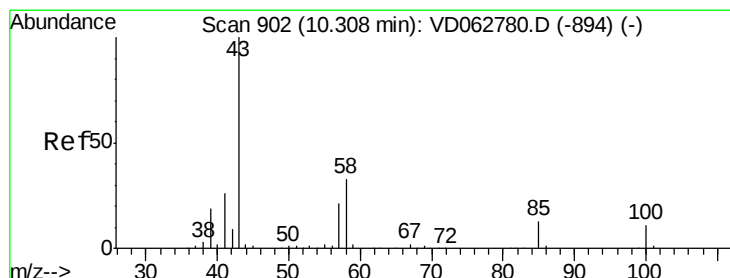
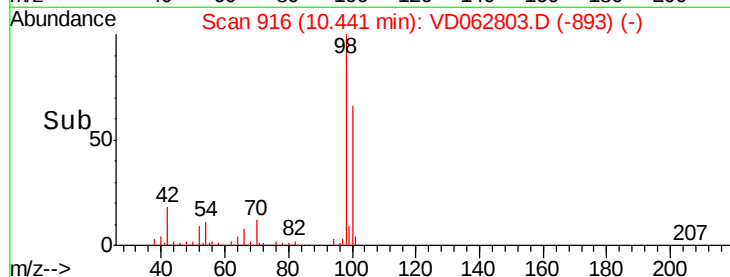
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.159 ug/l

RT: 10.43 min Scan# 915

Delta R.T. 0.12 min

Lab File: VD062803.D

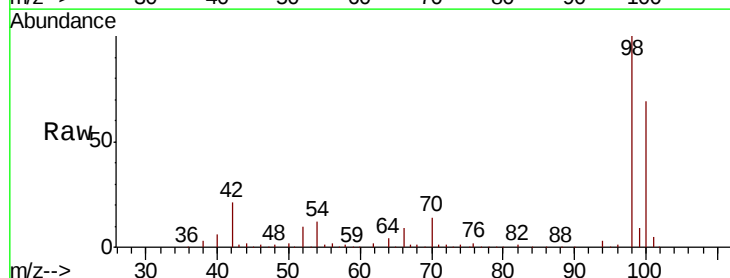
Acq: 20 Jun 2019 19:26

Tgt Ion: 43 Resp: 3620

Ion Ratio Lower Upper

43 100

58 155.8 26.6 40.0#



Abundance Ion 42.95 (42.65 to 43.65): VD062780.D (-894) (-)

Ion 57.95 (57.65 to 58.65): VD062780.D (-894) (-)

4000

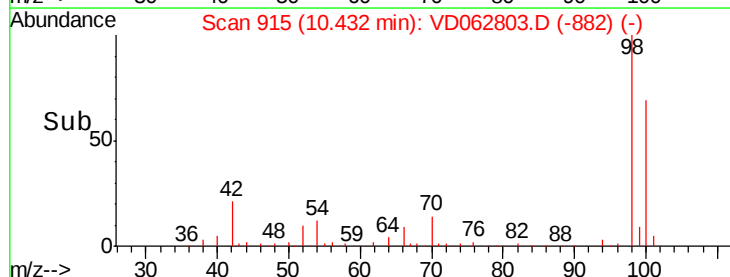
3000

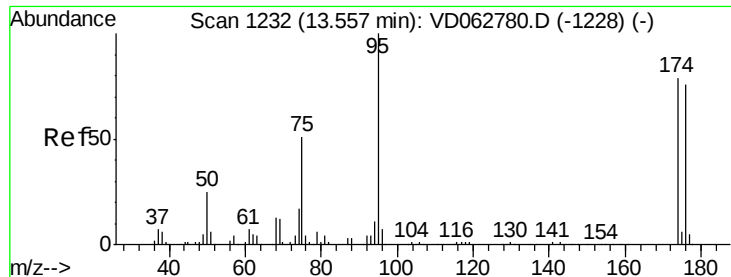
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 34.260 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

Instrument :

MSVOA_D

ClientSampled :

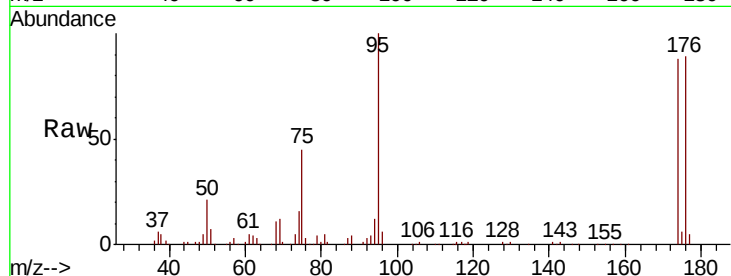
Tot Ion: 95 Resp: 253821

Ion Ratio Lower Upper

95 100

174 88.3 0.0 158.0

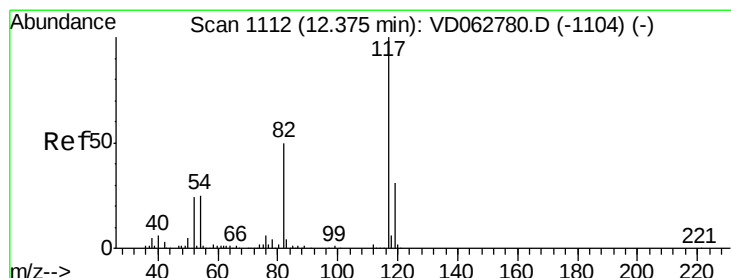
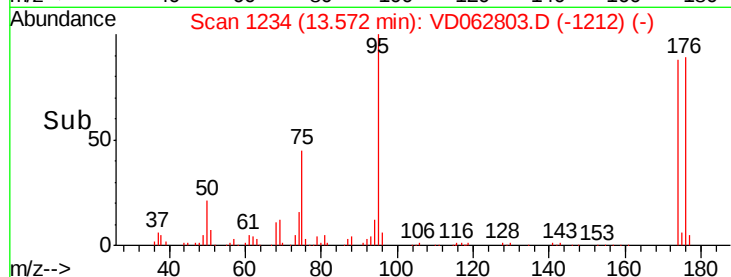
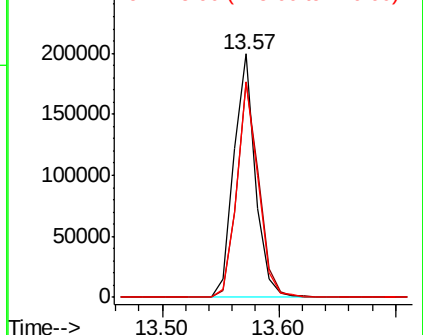
176 88.7 0.0 151.6



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: 12.39 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

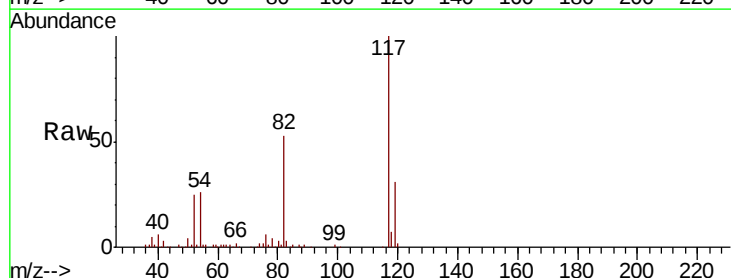
Tgt Ion: 117 Resp: 561700

Ion Ratio Lower Upper

117 100

82 53.4 40.4 60.6

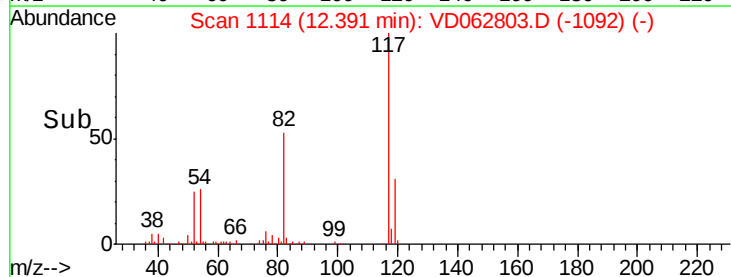
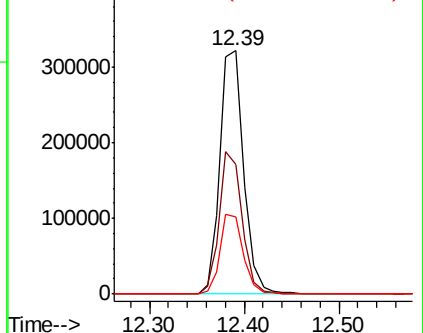
119 31.5 25.2 37.8

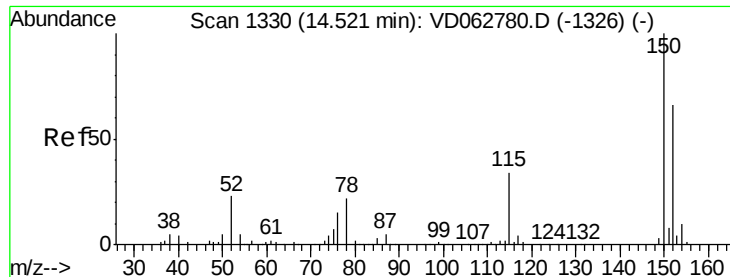


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.54 min Scan# 1332

Delta R.T. 0.02 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

Instrument :

MSVOA_D

ClientSampleId :

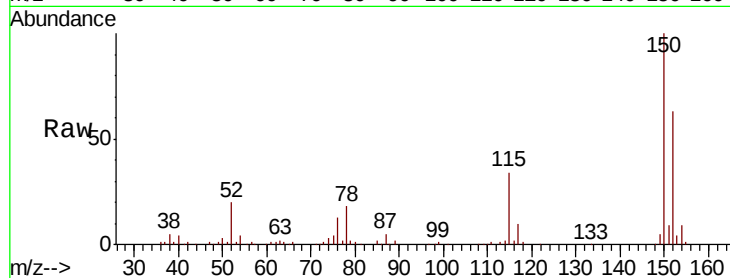
Tot Ion:152 Resp: 183514

Ion Ratio Lower Upper

152 100

115 54.0 29.2 87.6

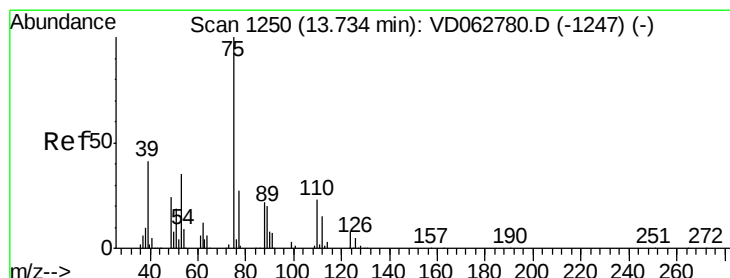
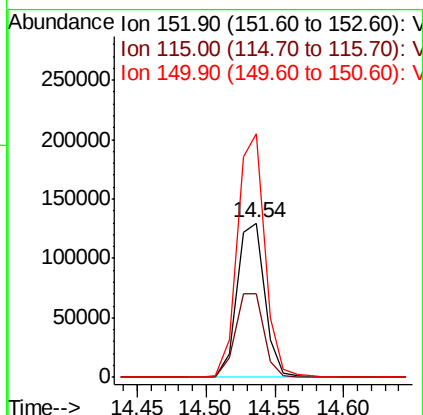
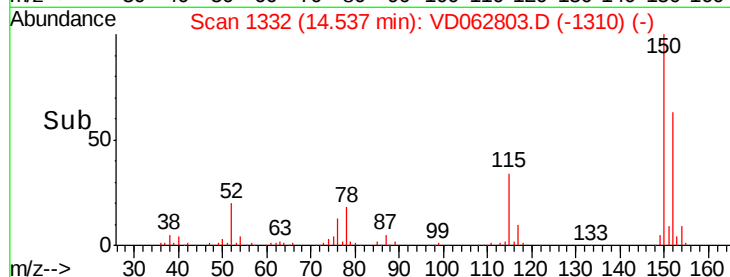
150 158.0 0.0 305.8



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: 56.057 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD062803.D

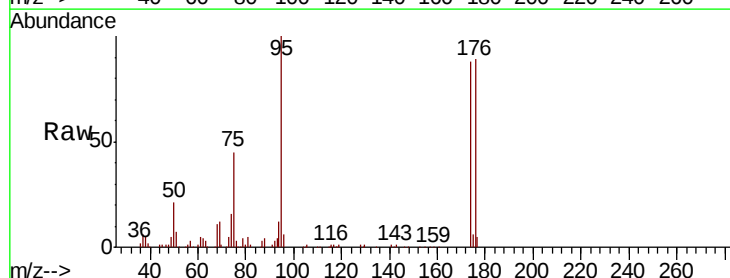
Acq: 20 Jun 2019 19:26

Tgt Ion: 75 Resp: 118758

Ion Ratio Lower Upper

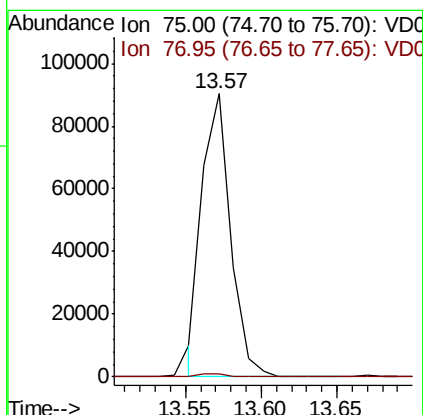
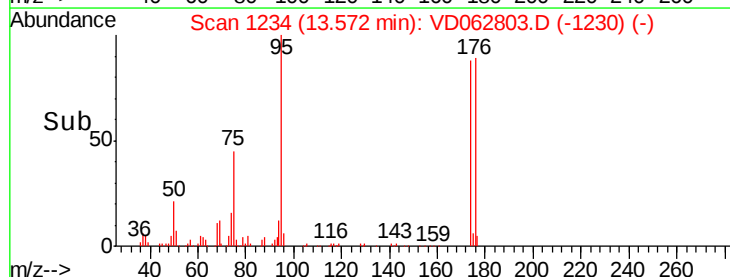
75 100

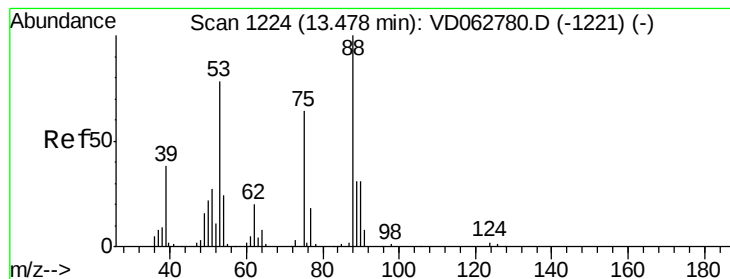
77 1.0 15.0 45.1#



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: 224.931 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.09 min

Lab File: VD062803.D

Acq: 20 Jun 2019 19:26

Instrument :

MSVOA_D

ClientSampleId :

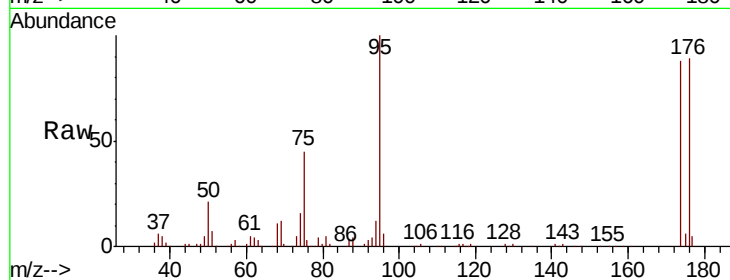
Tot Ion: 75 Resp: 124890

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

89 0.0 39.4 59.2#



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

