

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062019\
 Data File : VD062796.D
 Acq On : 20 Jun 2019 16:15
 Operator : VA/AP
 Sample : K3447-08RE
 Misc : 5.06g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

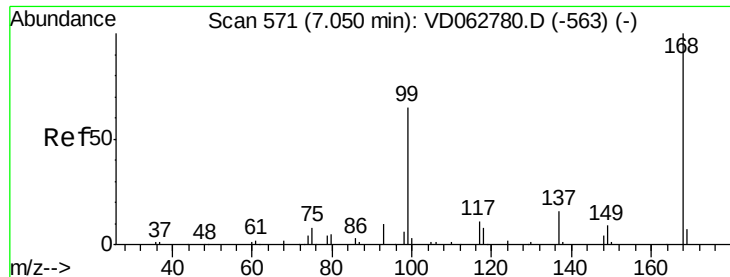
Quant Time: Jun 21 06:35:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	574361	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.25	114	764264	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	513572	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	179227	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	304820	48.82	ug/l	0.02
Spiked Amount			Recovery	=	97.64%	
35) Dibromofluoromethane	6.95	113	361322	56.07	ug/l	0.02
Spiked Amount			Recovery	=	112.14%	
50) Toluene-d8	10.43	98	730790	52.10	ug/l	0.02
Spiked Amount			Recovery	=	104.20%	
62) 4-Bromofluorobenzene	13.57	95	225796	35.40	ug/l	0.02
Spiked Amount			Recovery	=	70.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.11	59	290	1.020	ug/l #	77
16) Acetone	3.24	43	171525	132.181	ug/l	99
20) Methylene Chloride	3.83	84	4916	1.032	ug/l #	81
25) 2-Butanone	6.11	43	43150	36.954	ug/l #	87
31) Cyclohexane	7.07	56	12313	2.100	ug/l #	8
36) 1,1-Dichloropropene	7.07	75	48985	6.771	ug/l #	57
37) Ethyl Acetate	6.11	43	43149	13.391	ug/l #	72
38) Carbon Tetrachloride	7.07	117	58702	5.395	ug/l #	15
76) 1,2,3-Trichloropropane	13.56	75	96605	46.691	ug/l #	46
81) trans-1,4-Dichloro-2-buten	13.56	75	107693	198.598	ug/l #	2

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.02 min

Lab File: VD062796.D

Acq: 20 Jun 2019 16:15

Instrument :

MSVOA_D

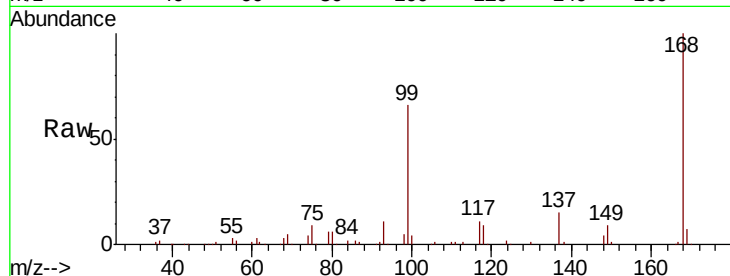
ClientSampleId :

Tot Ion:168 Resp: 574361

Ion Ratio Lower Upper

168 100

99 65.9 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

200000

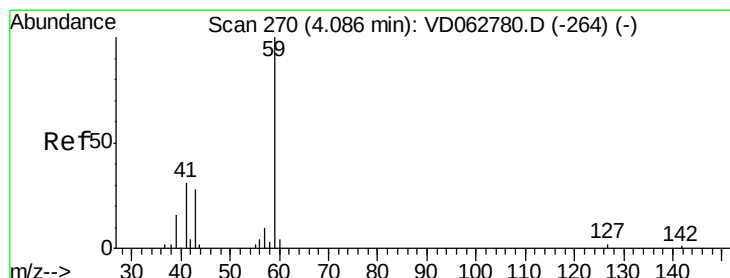
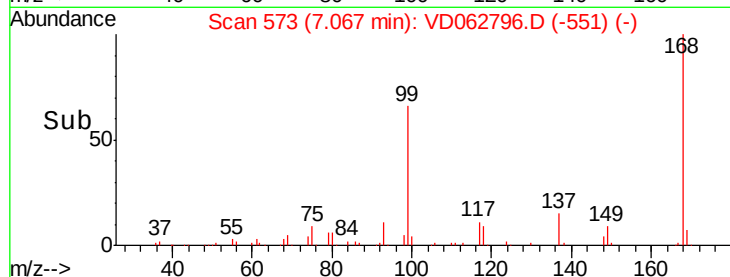
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.020 ug/l

RT: 4.11 min Scan# 273

Delta R.T. 0.03 min

Lab File: VD062796.D

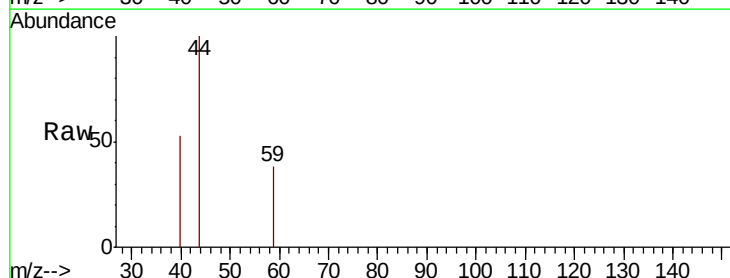
Acq: 20 Jun 2019 16:15

Tgt Ion: 59 Resp: 290

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

4.11

500

400

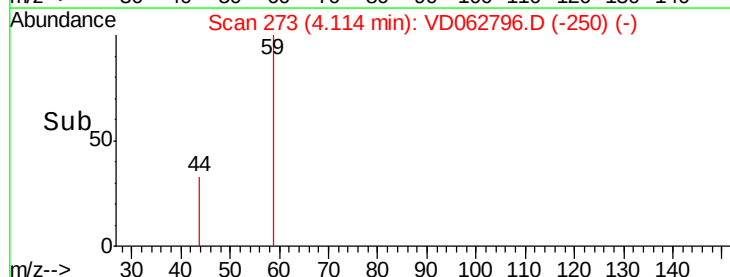
300

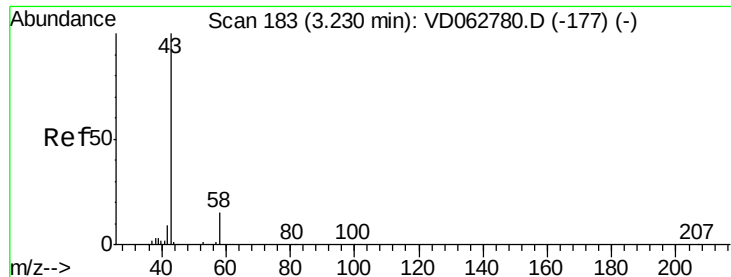
200

100

0

Time--> 4.08 4.10 4.12 4.14





#16

Acetone

Concen: 132.181 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD062796.D

Acq: 20 Jun 2019 16:15

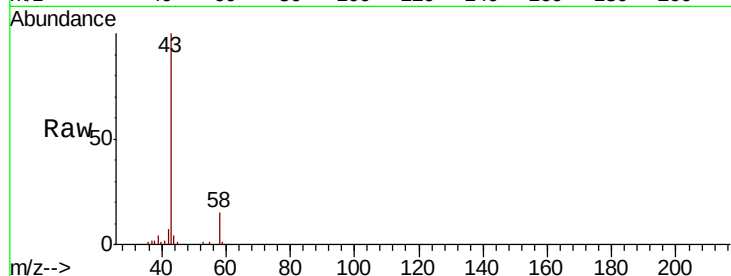
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 171525

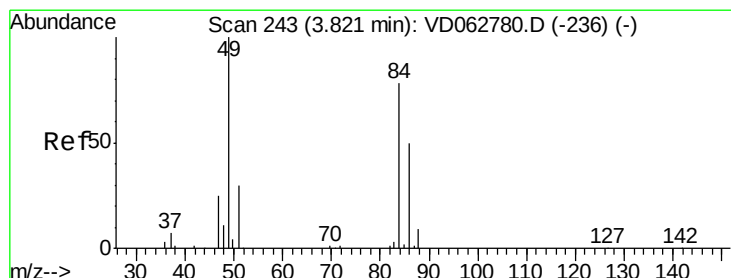
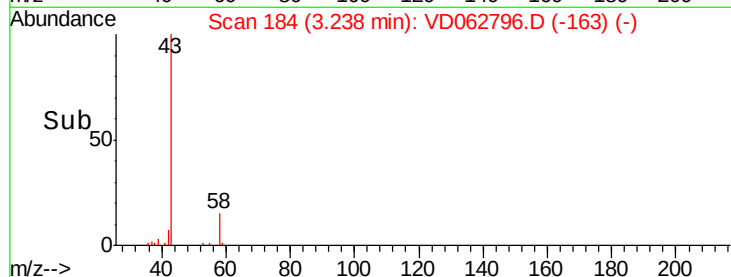
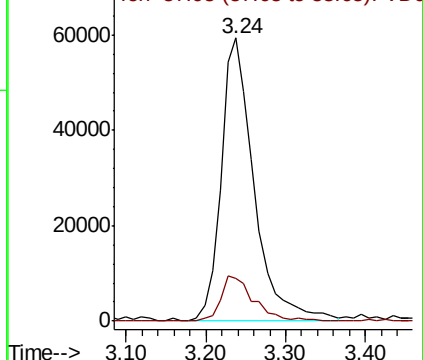
Ion Ratio Lower Upper

43 100

58 15.3 11.9 17.9



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



#20

Methylene Chloride

Concen: 1.032 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.01 min

Lab File: VD062796.D

Acq: 20 Jun 2019 16:15

Tgt Ion: 84 Resp: 4916

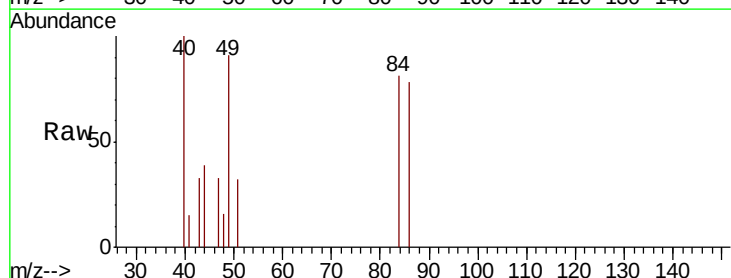
Ion Ratio Lower Upper

84 100

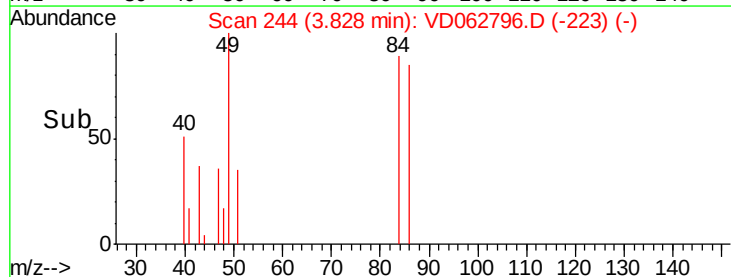
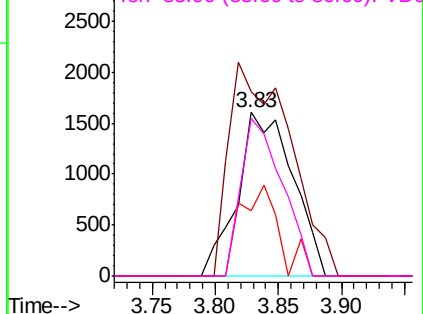
49 112.4 102.9 154.3

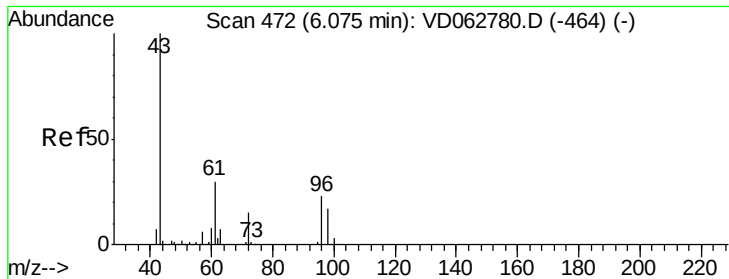
51 39.9 31.2 46.8

86 95.9 51.4 77.2#



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: 36.954 ug/l

RT: 6.11 min Scan# 476

Delta R.T. 0.04 min

Lab File: VD062796.D

Acq: 20 Jun 2019 16:15

Instrument :

MSVOA_D

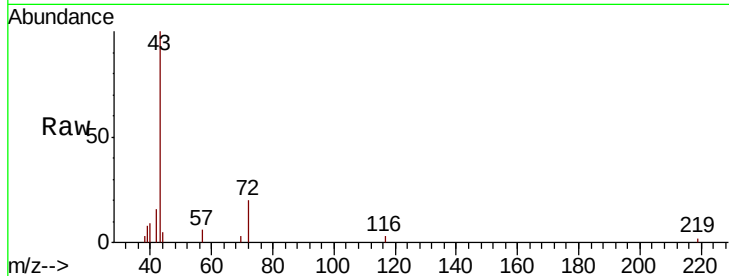
ClientSampleID :

Tot Ion: 43 Resp: 43150

Ion Ratio Lower Upper

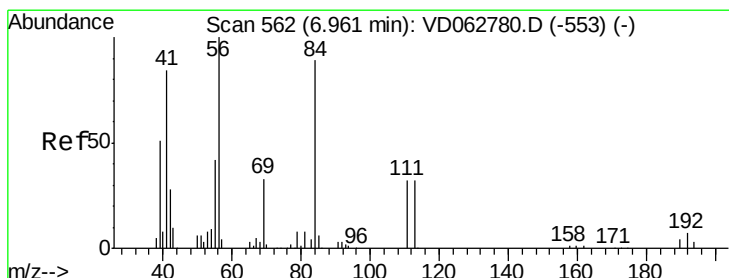
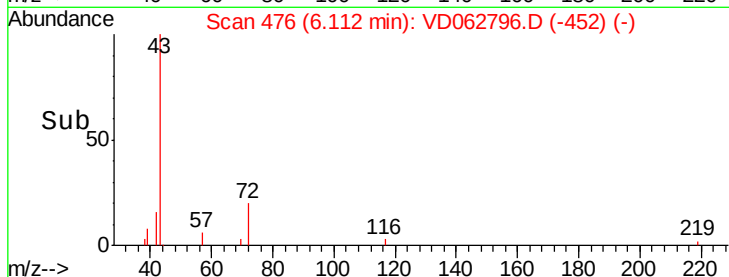
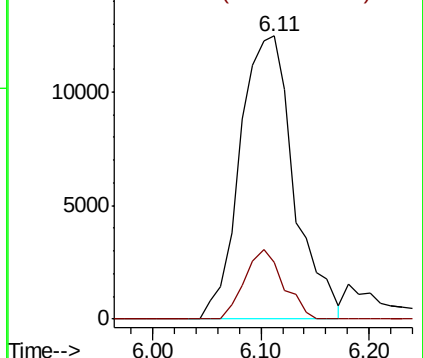
43 100

72 20.1 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 2.100 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.11 min

Lab File: VD062796.D

Acq: 20 Jun 2019 16:15

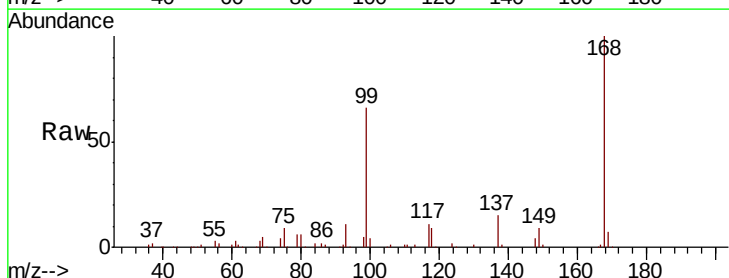
Tgt Ion: 56 Resp: 12313

Ion Ratio Lower Upper

56 100

69 230.4 26.6 39.8#

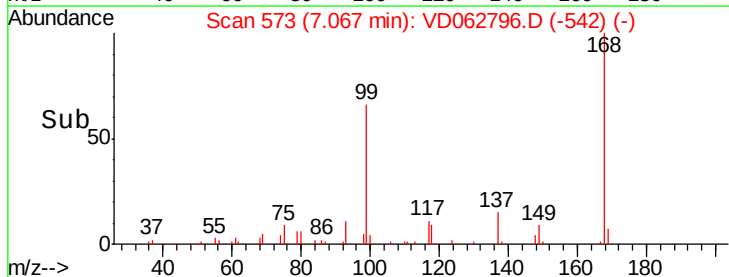
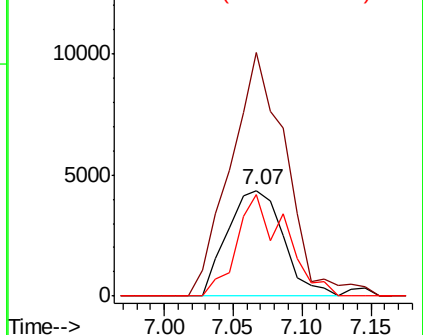
84 96.0 75.5 113.3

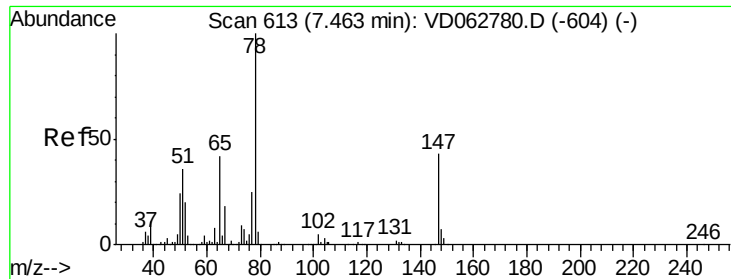


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

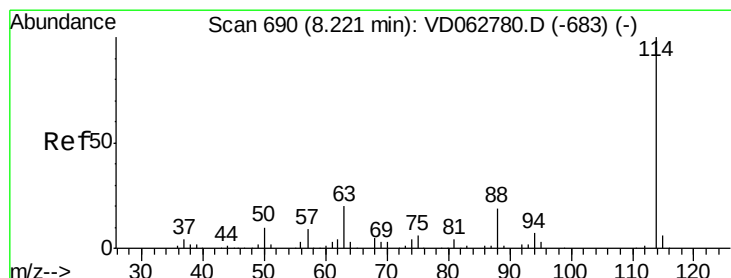
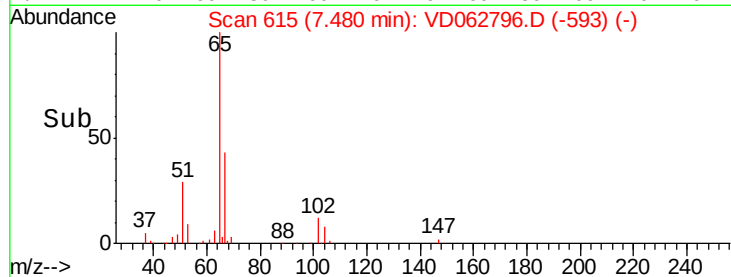
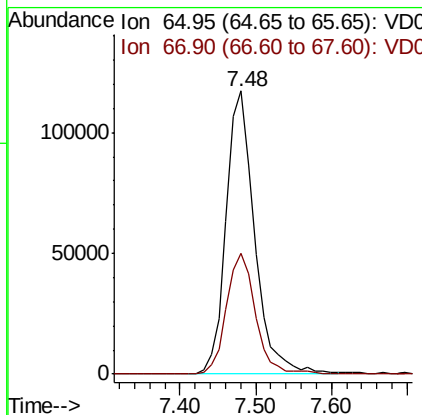
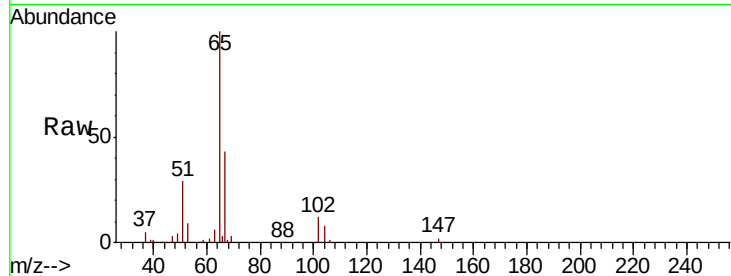




#33
 1,2-Dichloroethane-d4
 Concen: 48.824 ug/l
 RT: 7.48 min Scan# 615
 Delta R.T. 0.02 min
 Lab File: VD062796.D
 Acq: 20 Jun 2019 16:15

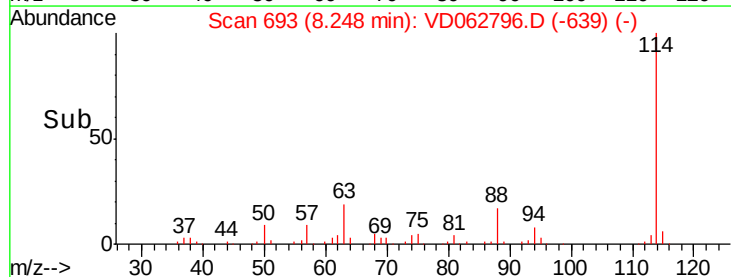
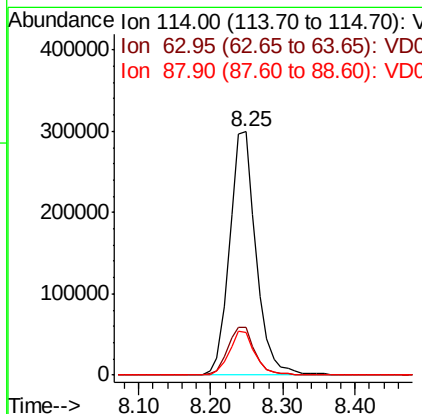
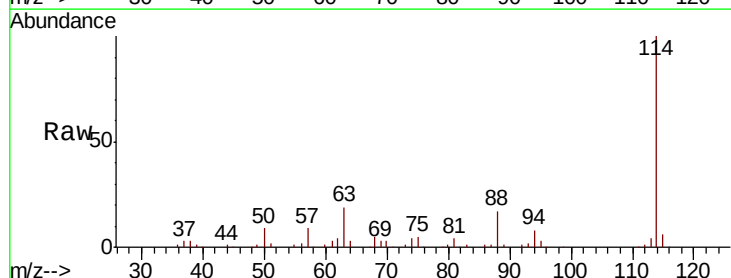
Instrument :
 MSVOA_D
 ClientSampleId :

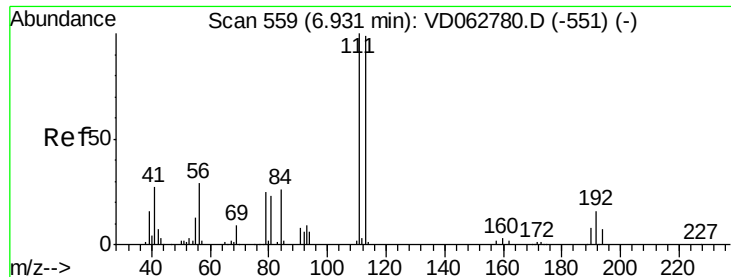
Tot Ion: 65 Resp: 304820
 Ion Ratio Lower Upper
 65 100
 67 42.6 0.0 87.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.25 min Scan# 693
 Delta R.T. 0.03 min
 Lab File: VD062796.D
 Acq: 20 Jun 2019 16:15

Tgt Ion: 114 Resp: 764264
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 17.3 0.0 38.8





#35

Dibromofluoromethane

Concen: 56.069 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.02 min

Lab File: VD062796.D

Acq: 20 Jun 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

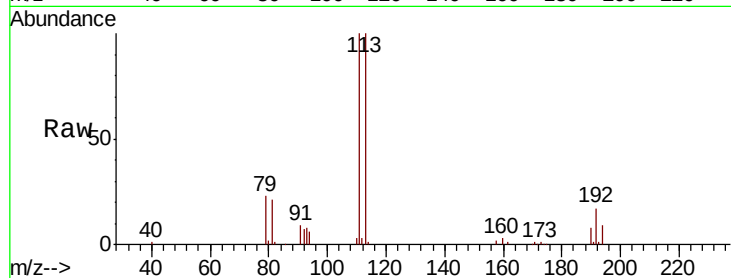
Tot Ion:113 Resp: 361322

Ion Ratio Lower Upper

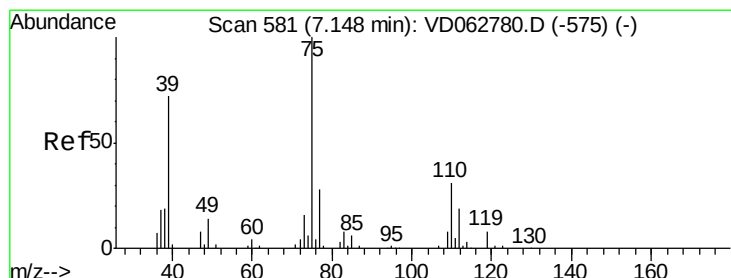
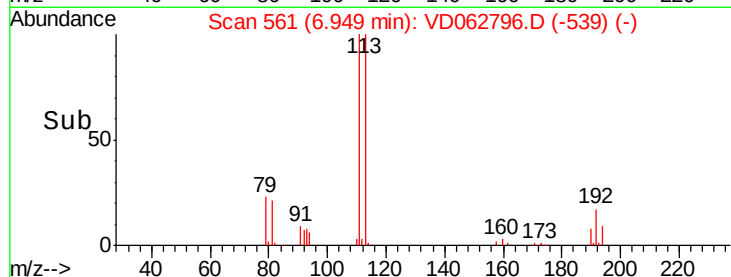
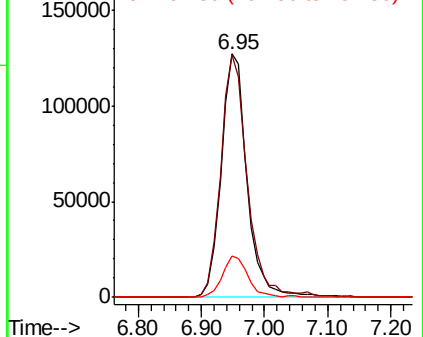
113 100

111 99.6 81.2 121.8

192 16.8 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: 6.771 ug/l

RT: 7.07 min Scan# 573

Delta R.T. -0.08 min

Lab File: VD062796.D

Acq: 20 Jun 2019 16:15

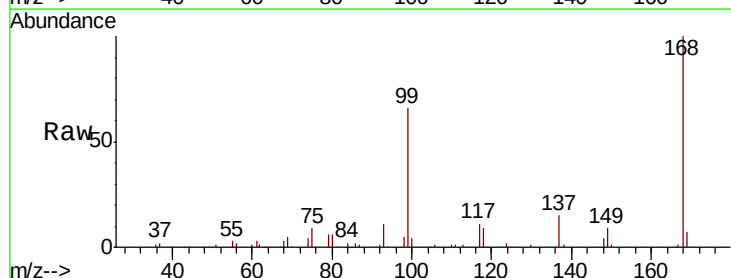
Tgt Ion: 75 Resp: 48985

Ion Ratio Lower Upper

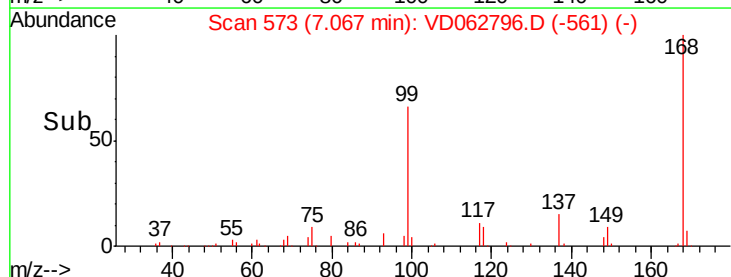
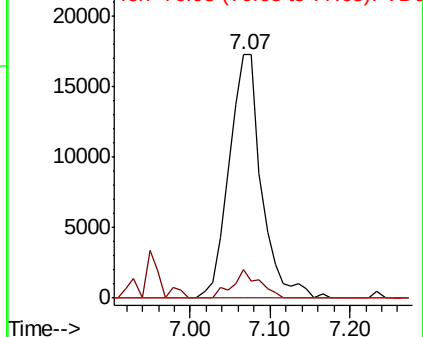
75 100

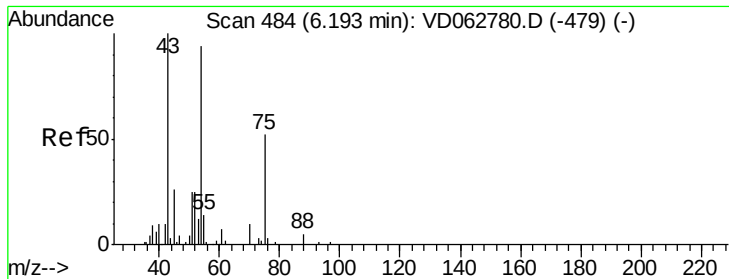
110 11.9 15.0 45.1#

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

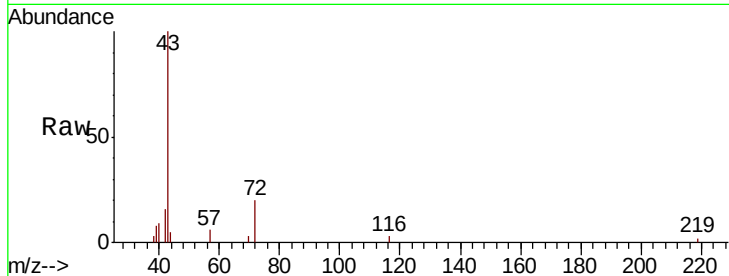




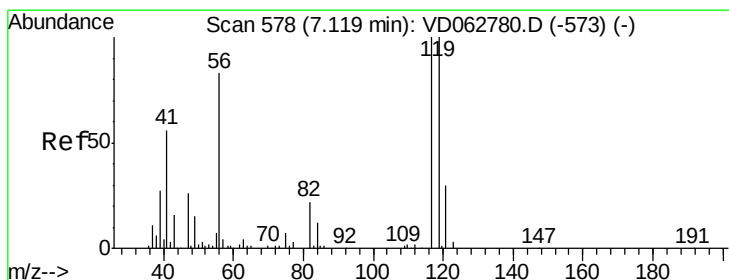
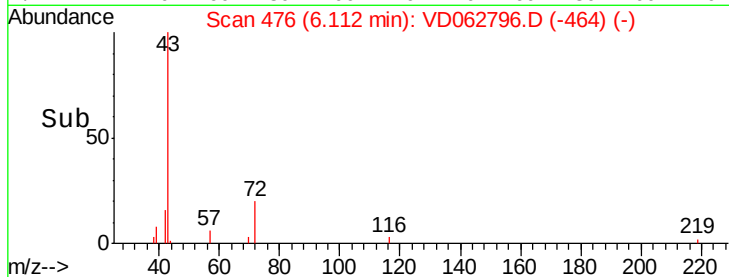
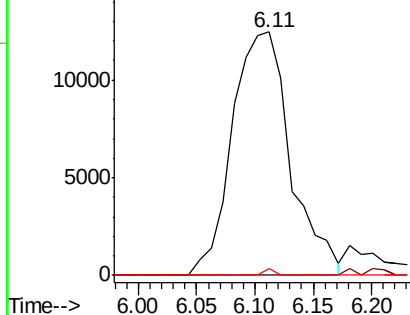
#37
Ethyl Acetate
Concen: 13.391 ug/l
RT: 6.11 min Scan# 476
Delta R.T. -0.08 min
Lab File: VD062796.D
Acq: 20 Jun 2019 16:15

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 43149
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 3.0 6.4 9.6#

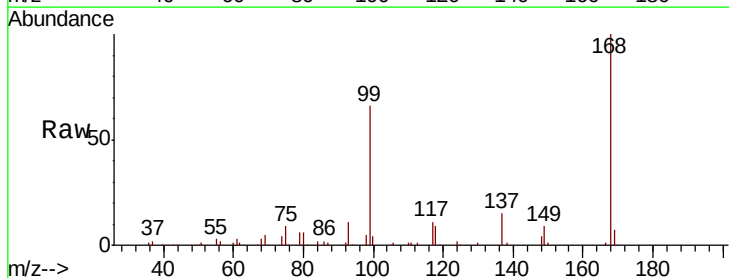


Abundance Ion 42.95 (42.65 to 43.65): VD062796.D
Ion 60.95 (60.65 to 61.65): VD062796.D
Ion 70.00 (69.70 to 70.70): VD062796.D

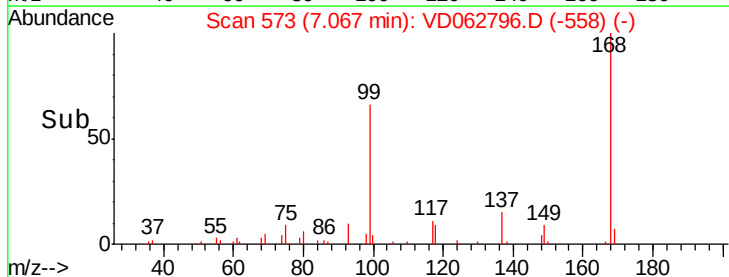
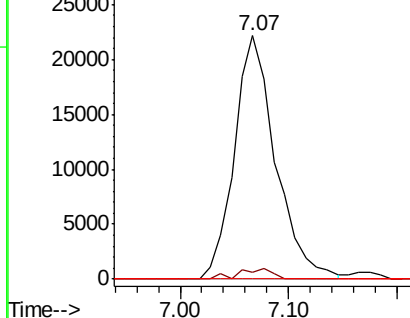


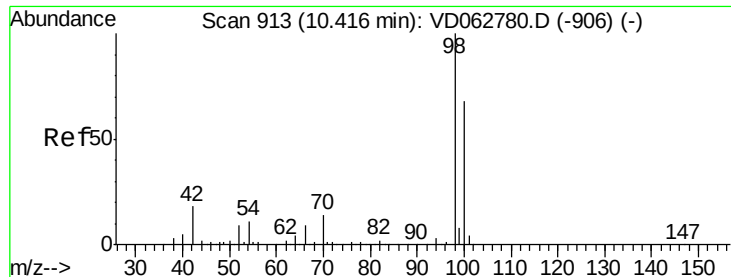
#38
Carbon Tetrachloride
Concen: 5.395 ug/l
RT: 7.07 min Scan# 573
Delta R.T. -0.05 min
Lab File: VD062796.D
Acq: 20 Jun 2019 16:15

Tgt Ion: 117 Resp: 58702
Ion Ratio Lower Upper
117 100
119 2.9 75.4 113.2#
121 0.0 22.3 33.5#



Abundance Ion 116.85 (116.55 to 117.55): VD062796.D
Ion 118.85 (118.55 to 119.55): VD062796.D
Ion 120.85 (120.55 to 121.55): VD062796.D

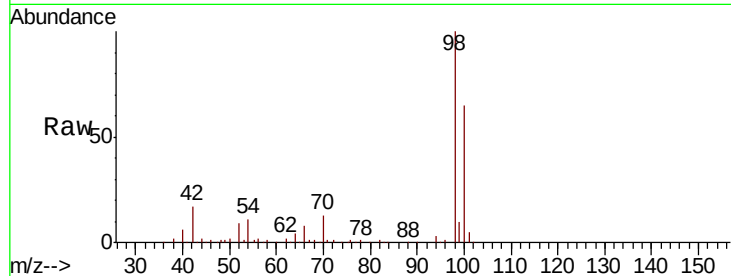




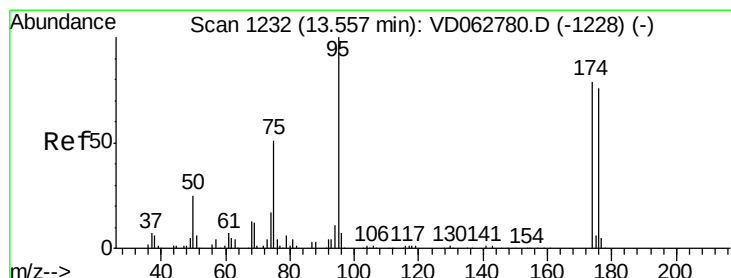
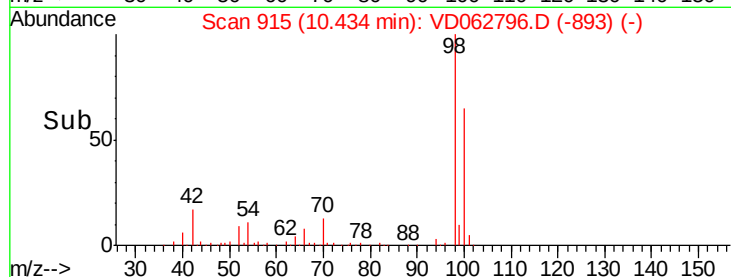
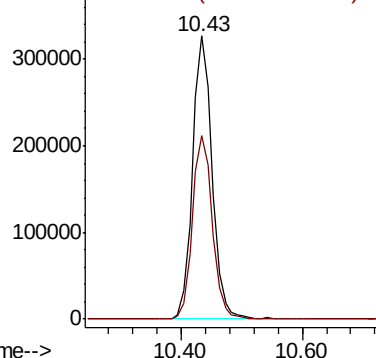
#50
Toluene-d8
Concen: 52.104 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.02 min
Lab File: VD062796.D
Acq: 20 Jun 2019 16:15

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 730790
Ion Ratio Lower Upper
98 100
100 65.0 54.7 82.1

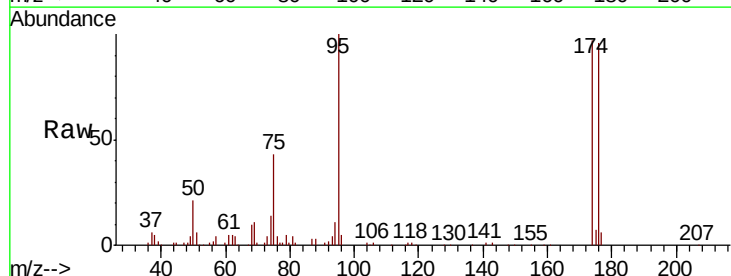


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

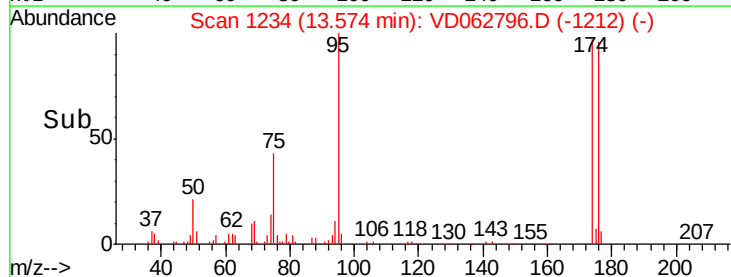
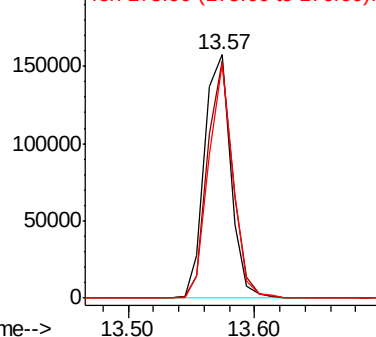


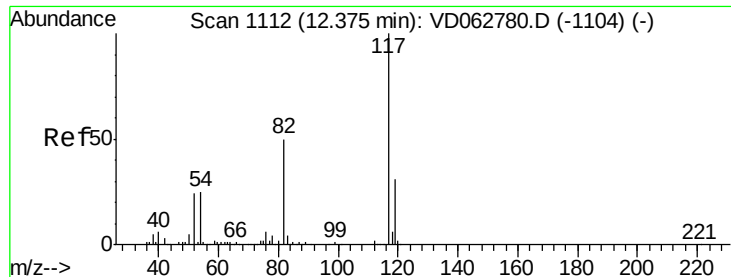
#62
4-Bromofluorobenzene
Concen: 35.405 ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.02 min
Lab File: VD062796.D
Acq: 20 Jun 2019 16:15

Tgt Ion: 95 Resp: 225796
Ion Ratio Lower Upper
95 100
174 97.4 0.0 158.0
176 96.4 0.0 151.6



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

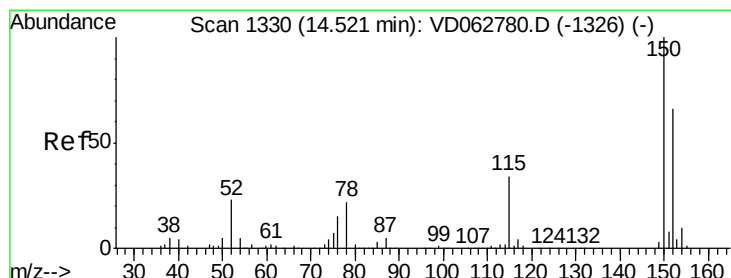
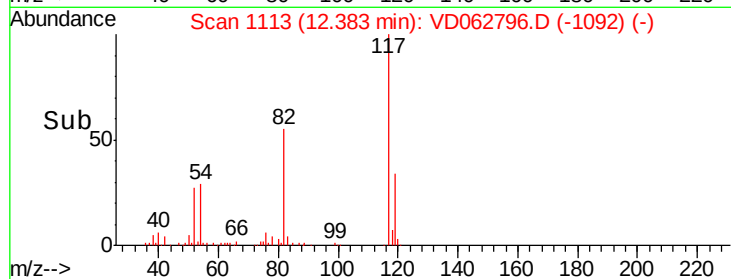
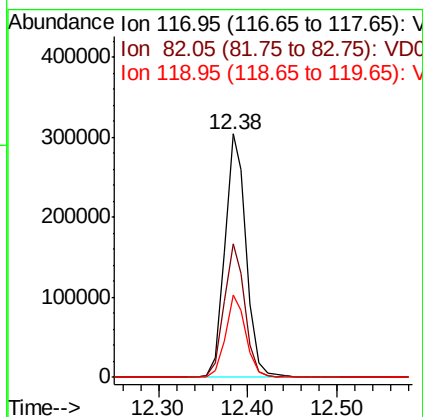
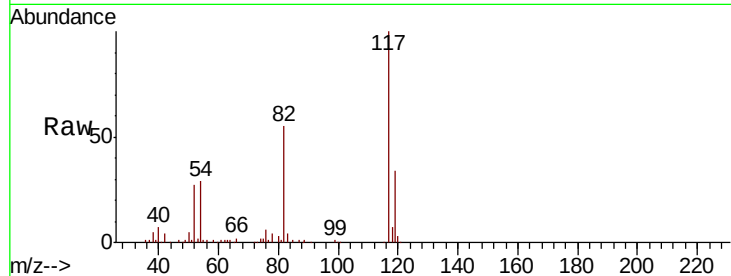




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD062796.D
Acq: 20 Jun 2019 16:15

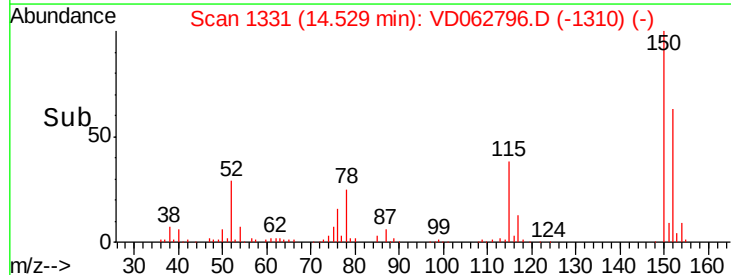
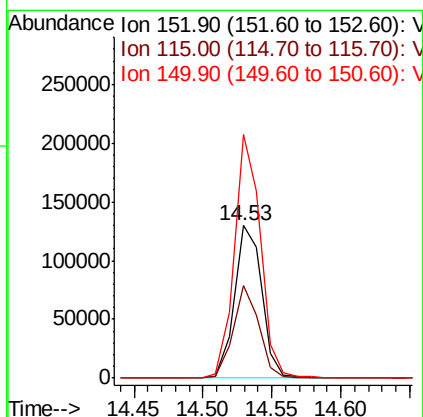
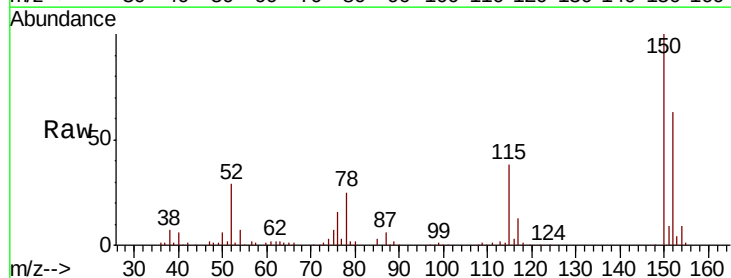
Instrument :
MSVOA_D
ClientSampleId :

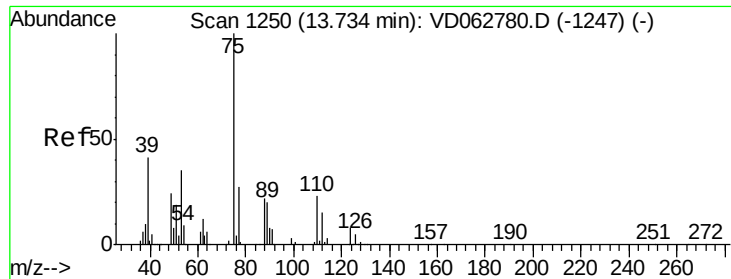
Tot Ion:117 Resp: 513572
Ion Ratio Lower Upper
117 100
82 55.0 40.4 60.6
119 33.8 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD062796.D
Acq: 20 Jun 2019 16:15

Tgt Ion:152 Resp: 179227
Ion Ratio Lower Upper
152 100
115 60.9 29.2 87.6
150 159.6 0.0 305.8

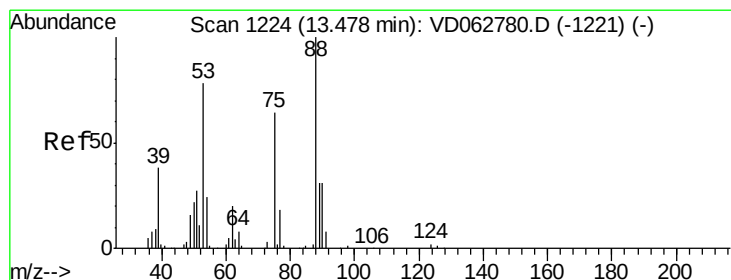
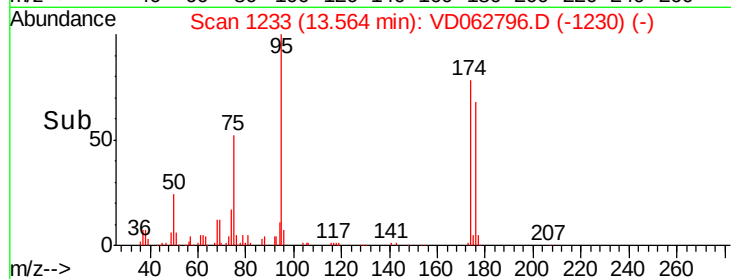
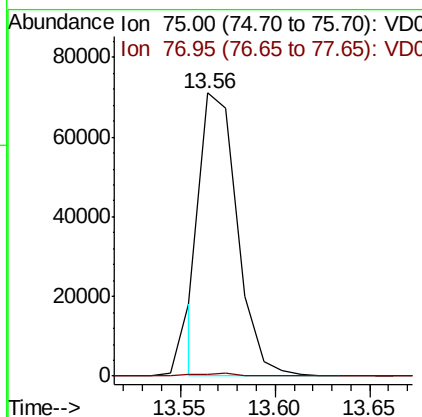
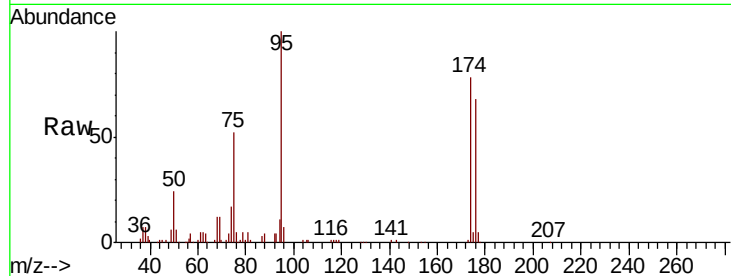




#76
 1,2,3-Trichloropropane
 Concen: 46.691 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.17 min
 Lab File: VD062796.D
 Acq: 20 Jun 2019 16:15

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 96605
 Ion Ratio Lower Upper
 75 100
 77 0.6 15.0 45.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 198.598 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.09 min
 Lab File: VD062796.D
 Acq: 20 Jun 2019 16:15

Tgt Ion: 75 Resp: 107693
 Ion Ratio Lower Upper
 75 100
 53 0.0 97.8 146.8#
 89 0.0 39.4 59.2#

