

Data File : VW012779.D
Acq On : 08 Sep 2019 19:28
Operator : SY/VA
Sample : K4603-17
Misc : 5.68G/5ML/MSVOA_W/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PAR-12-F2-(3.11)

Quant Time: Sep 09 06:01:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
Quant Title : SW846 8260
QLast Update : Sun Sep 08 05:04:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	177773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	269134	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	220717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	92439	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	111385	56.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.16%	
35) Dibromofluoromethane	7.88	113	81411	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	
50) Toluene-d8	10.32	98	318399	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
62) 4-Bromofluorobenzene	12.62	95	98150	43.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.26%	

Target Compounds

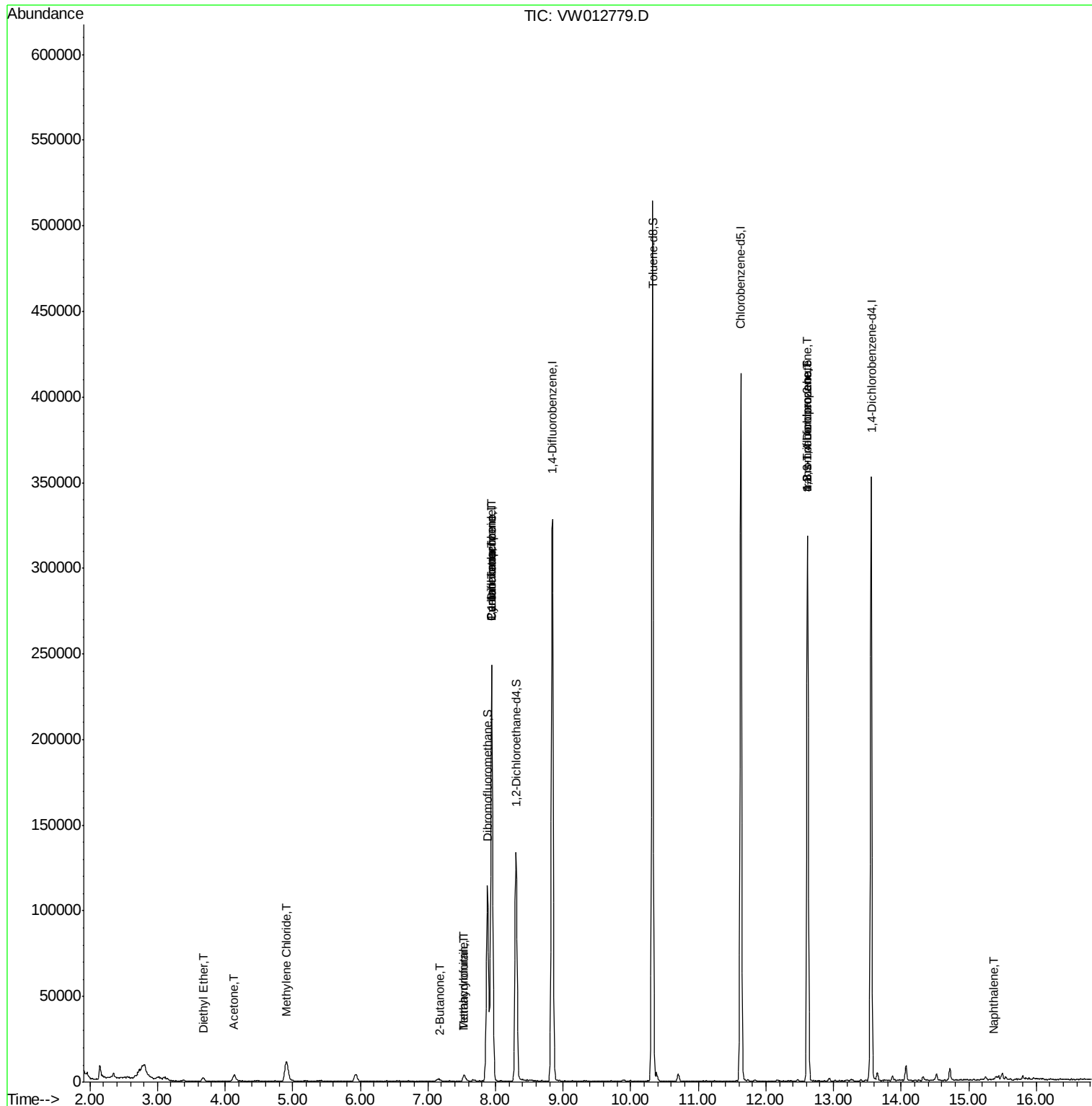
						Qvalue
8) Diethyl Ether	3.68	74	1089	1.307	ug/l	77
16) Acetone	4.14	43	8151	15.052	ug/l	96
20) Methylene Chloride	4.90	84	9069	5.353	ug/l	98
25) 2-Butanone	7.18	43	69	19.760	ug/l #	53
29) Tetrahydrofuran	7.53	42	3010	6.883	ug/l	92
31) Cyclohexane	7.95	56	4113	1.409	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	14142	5.914	ug/l #	52
38) Carbon Tetrachloride	7.94	117	17980	7.628	ug/l #	17
41) Methacrylonitrile	7.53	41	2005	5.625	ug/l #	60
76) 1,2,3-Trichloropropane	12.62	75	54516	57.675	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	54516	121.986	ug/l #	6
95) Naphthalene	15.37	128	246	4.497	ug/l #	69

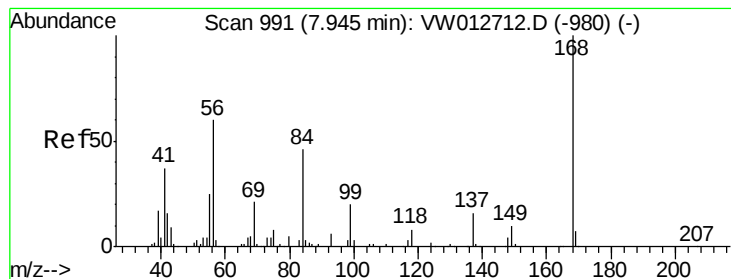
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

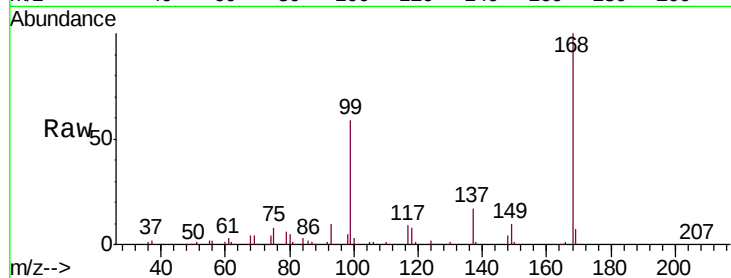
PAR-12-F2-(3.11)

Tgt Ion:168 Resp: 177773

Ion Ratio Lower Upper

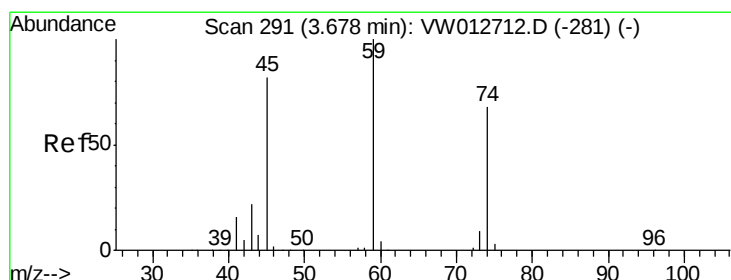
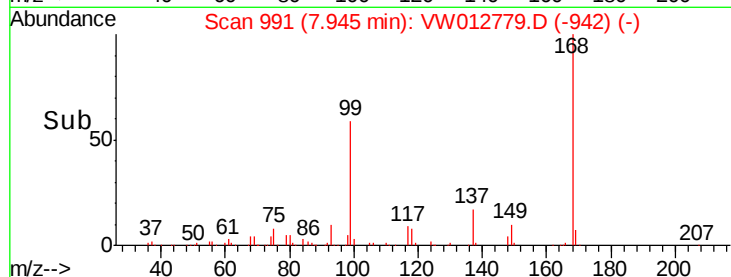
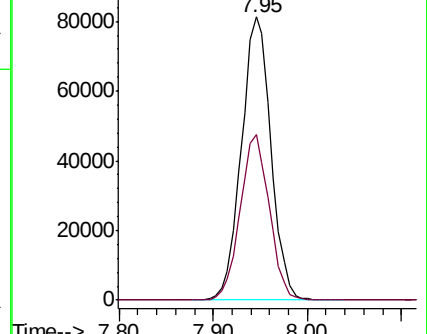
168 100

99 58.5 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.307 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012779.D

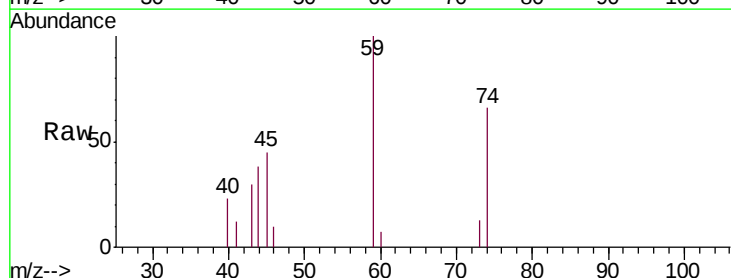
Acq: 08 Sep 2019 19:28

Tgt Ion: 74 Resp: 1089

Ion Ratio Lower Upper

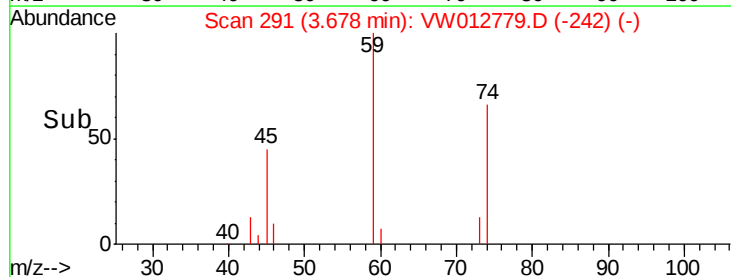
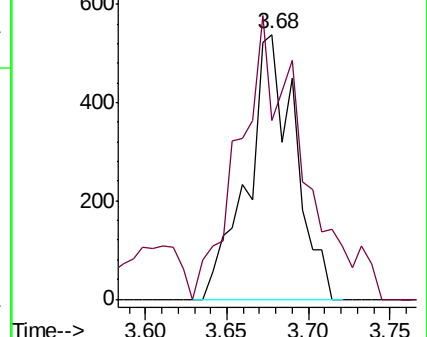
74 100

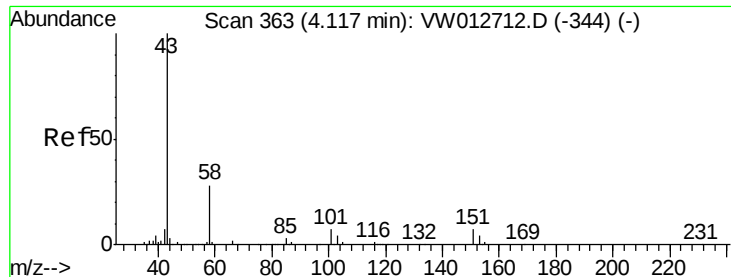
45 143.2 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

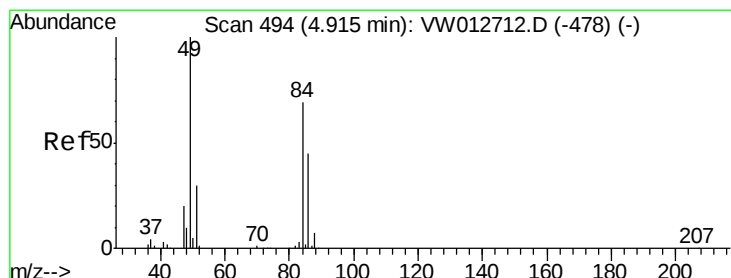
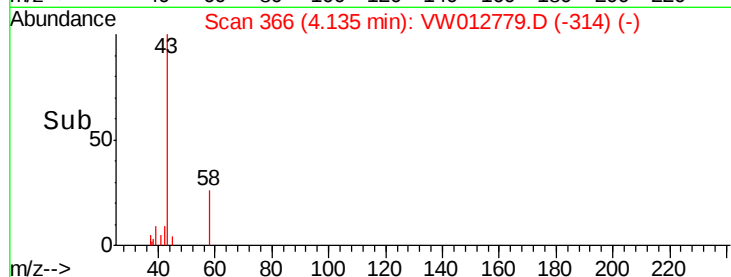
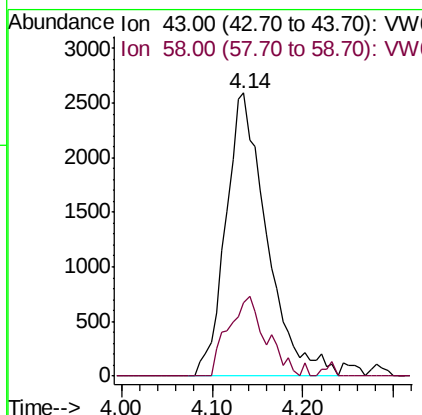
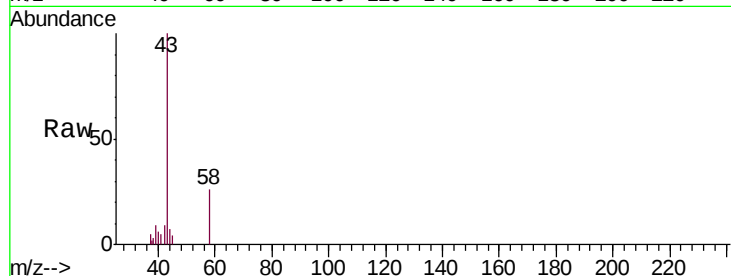




#16
Acetone
Concen: 15.052 ug/l
RT: 4.14 min Scan# 366
Delta R.T. 0.02 min
Lab File: VW012779.D
Acq: 08 Sep 2019 19:28

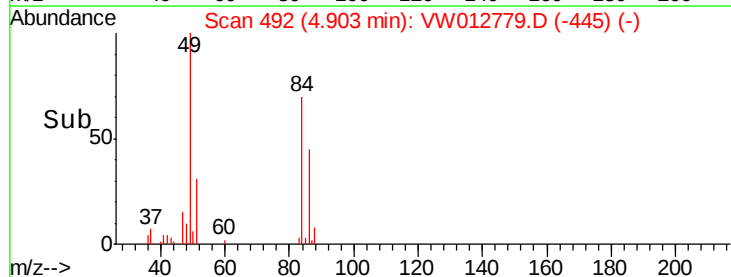
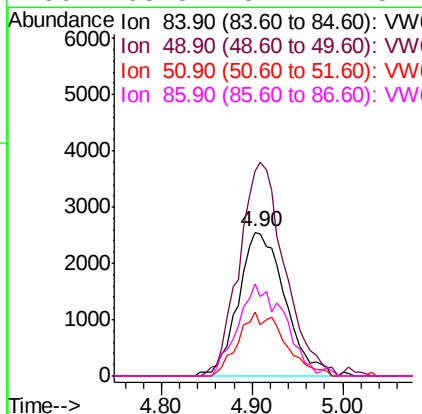
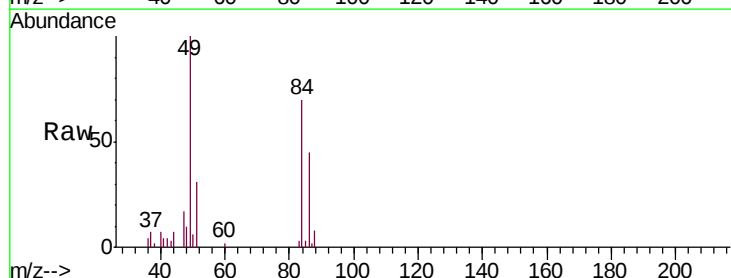
Instrument :
MSVOA_W
ClientSampleId :
PAR-12-F2-(3.11)

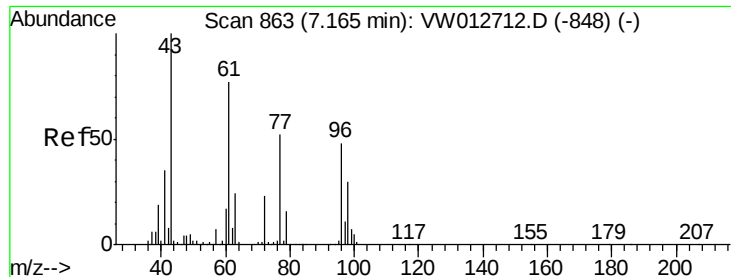
Tgt Ion: 43 Resp: 8151
Ion Ratio Lower Upper
43 100
58 26.1 22.6 33.8



#20
Methylene Chloride
Concen: 5.353 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW012779.D
Acq: 08 Sep 2019 19:28

Tgt Ion: 84 Resp: 9069
Ion Ratio Lower Upper
84 100
49 142.3 115.4 173.0
51 44.4 34.9 52.3
86 63.8 52.2 78.4





#25

2-Butanone

Concen: 19.760 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

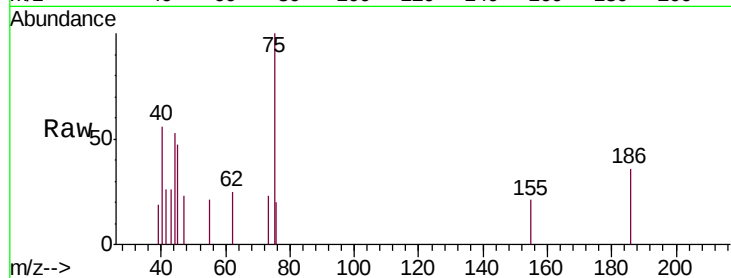
PAR-12-F2-(3.11)

Tgt Ion: 43 Resp: 69

Ion Ratio Lower Upper

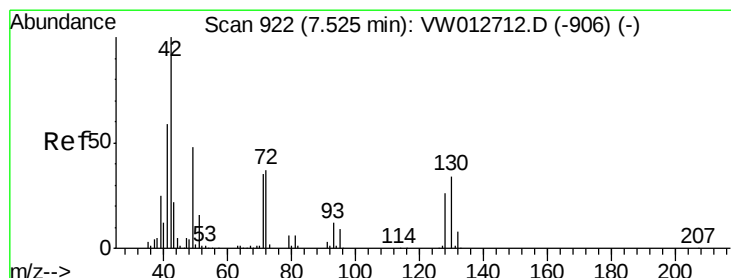
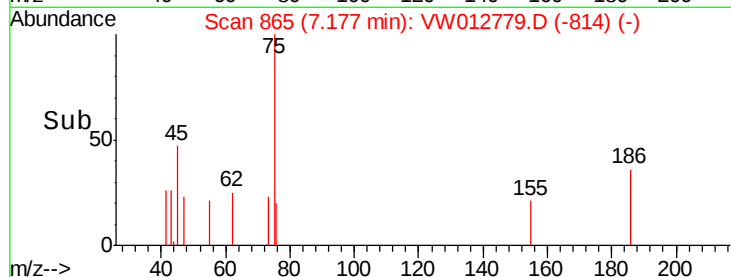
43 100

72 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 6.883 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

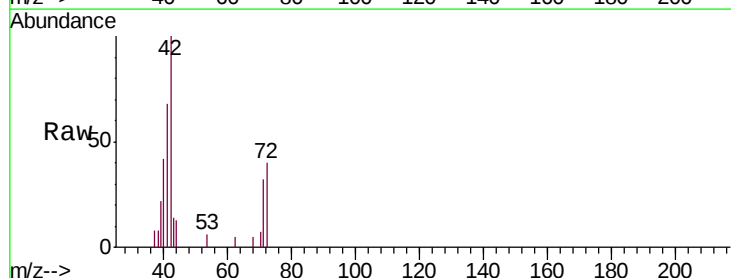
Tgt Ion: 42 Resp: 3010

Ion Ratio Lower Upper

42 100

72 41.0 28.4 42.6

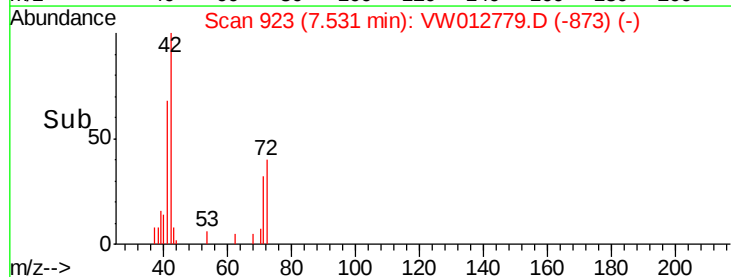
71 37.4 27.1 40.7

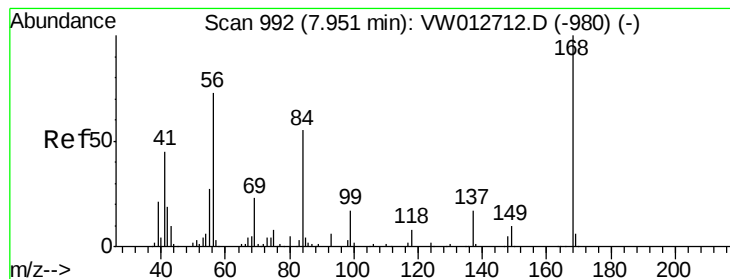


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.409 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

PAR-12-F2-(3.11)

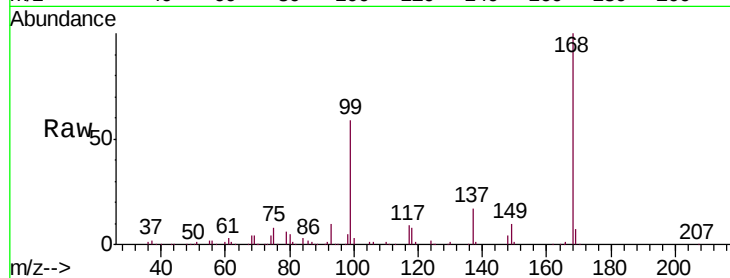
Tgt Ion: 56 Resp: 4113

Ion Ratio Lower Upper

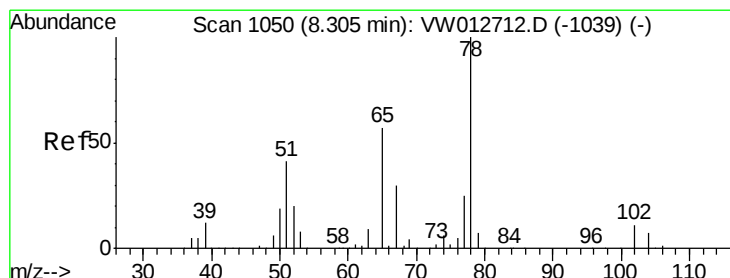
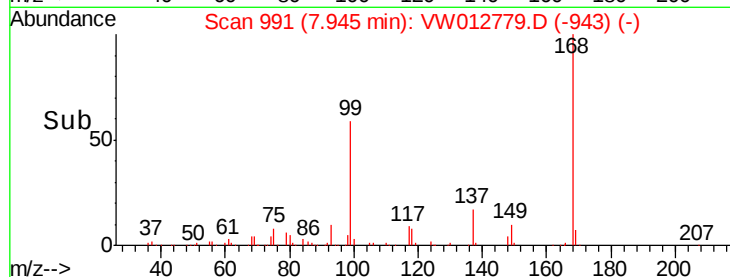
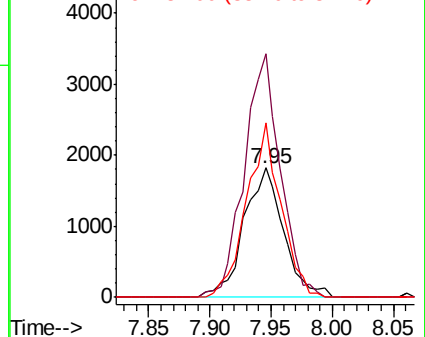
56 100

69 187.8 25.7 38.5#

84 134.3 60.4 90.6#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 56.076 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012779.D

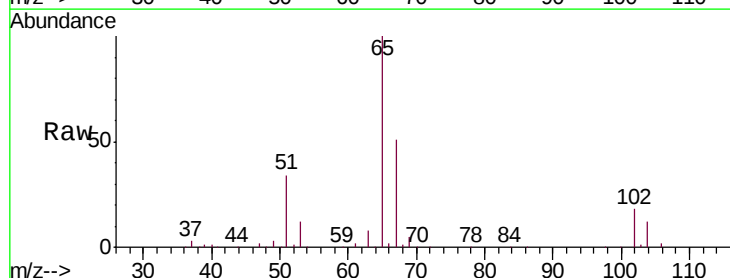
Acq: 08 Sep 2019 19:28

Tgt Ion: 65 Resp: 111385

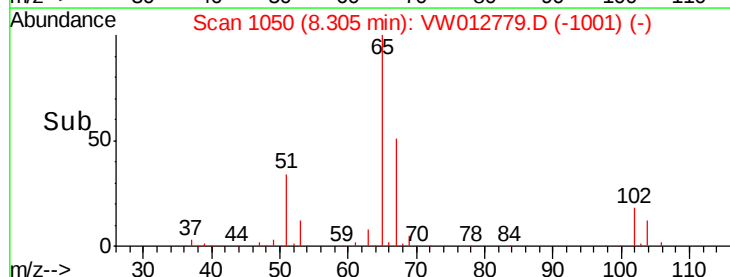
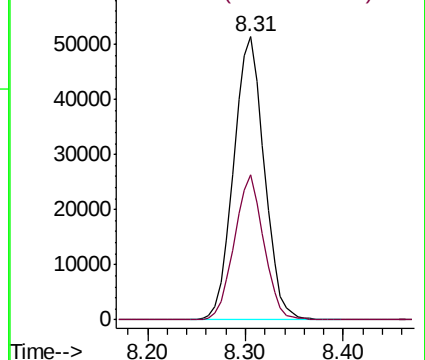
Ion Ratio Lower Upper

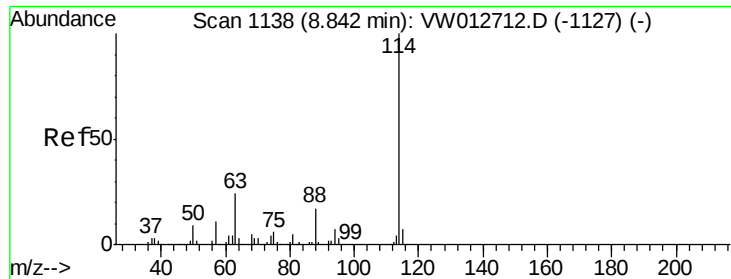
65 100

67 49.3 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

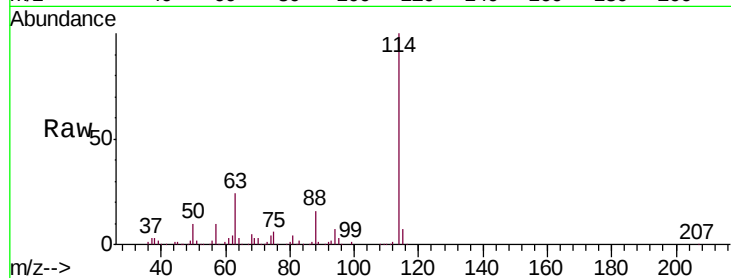




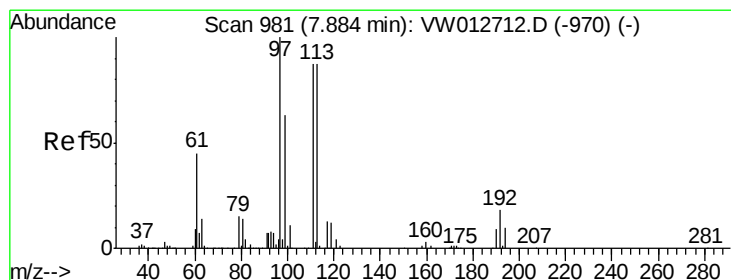
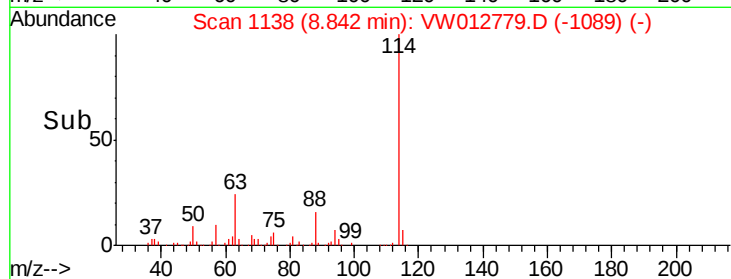
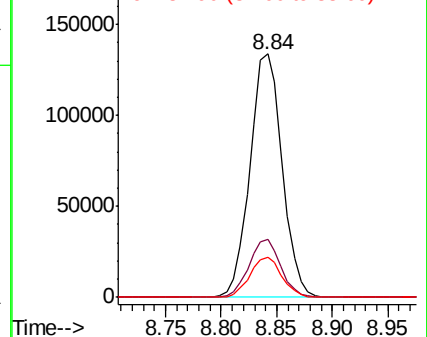
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012779.D
 Acq: 08 Sep 2019 19:28

Instrument :
 MSVOA_W
 ClientSampleId :
 PAR-12-F2-(3.11)

Tgt Ion:	114	Resp:	269134
Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	47.2
88	16.4	0.0	34.0

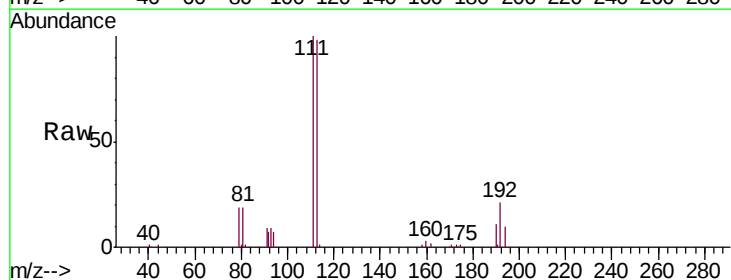


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

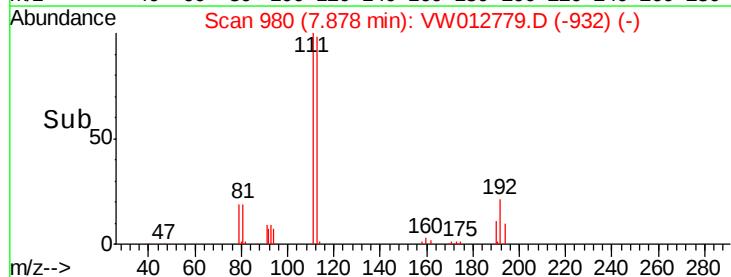
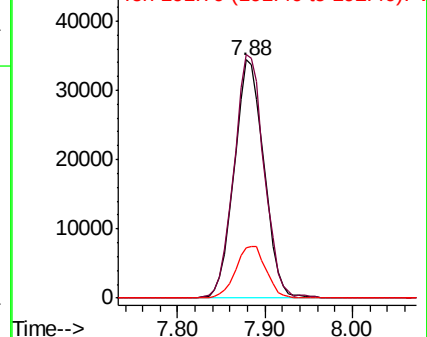


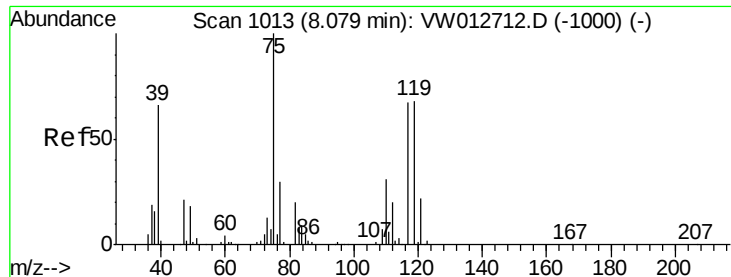
#35
 Dibromofluoromethane
 Concen: 50.879 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012779.D
 Acq: 08 Sep 2019 19:28

Tgt Ion:	113	Resp:	81411
Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.2	120.4
192	22.2	17.3	25.9



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.914 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

PAR-12-F2-(3.11)

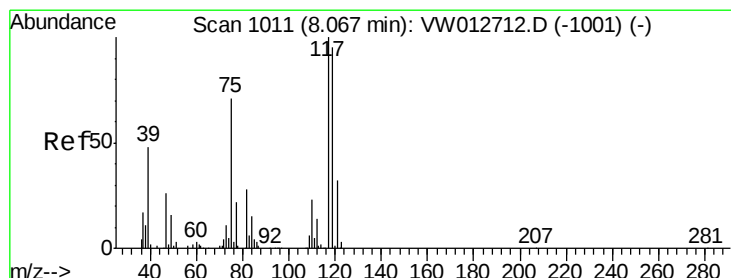
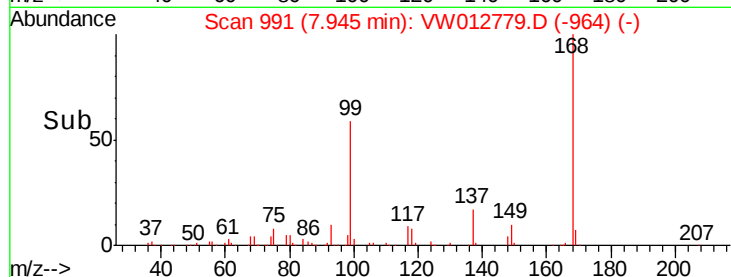
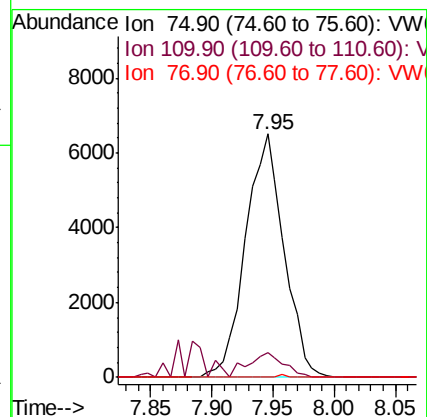
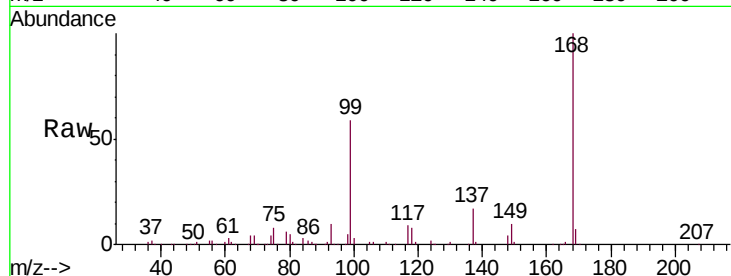
Tgt Ion: 75 Resp: 14142

Ion Ratio Lower Upper

75 100

110 9.4 15.9 47.7#

77 0.2 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 7.628 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

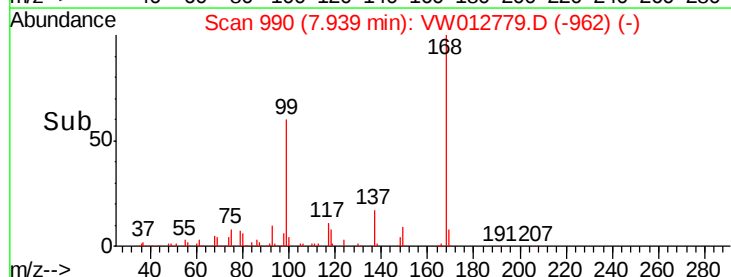
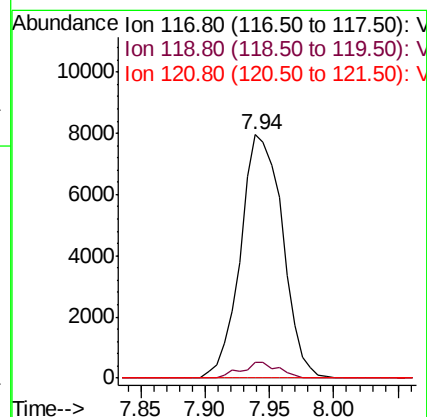
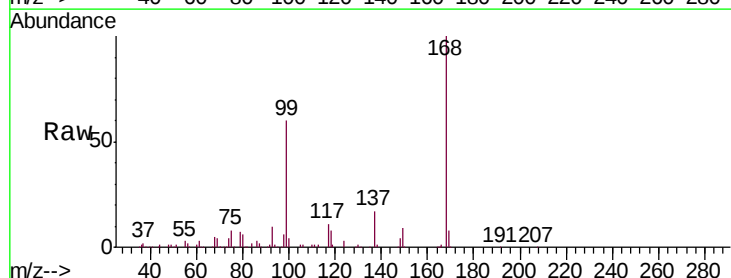
Tgt Ion: 117 Resp: 17980

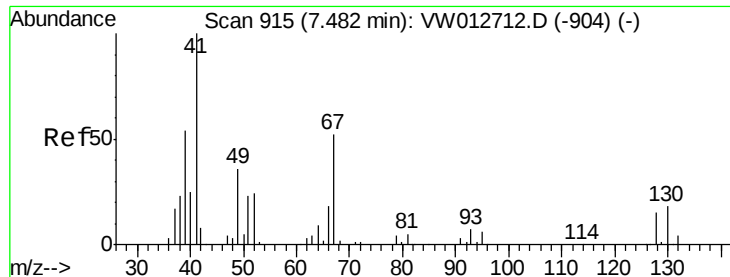
Ion Ratio Lower Upper

117 100

119 6.7 76.2 114.2#

121 0.0 25.4 38.2#





#41

Methacrylonitrile

Concen: 5.625 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

PAR-12-F2-(3.11)

Tgt Ion: 41 Resp: 2005

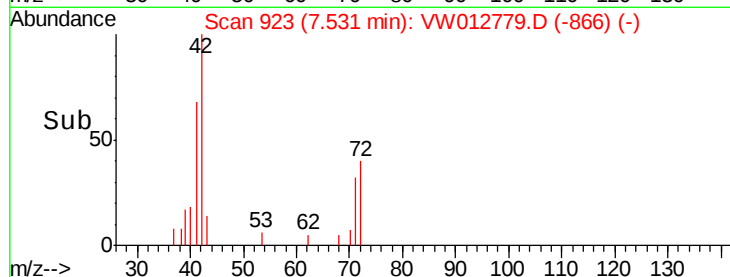
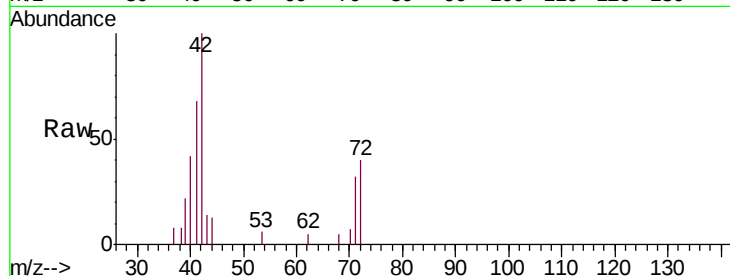
Ion Ratio Lower Upper

41 100

39 58.3 47.5 71.3

67 0.0 45.1 67.7#

52 0.0 20.2 30.2#

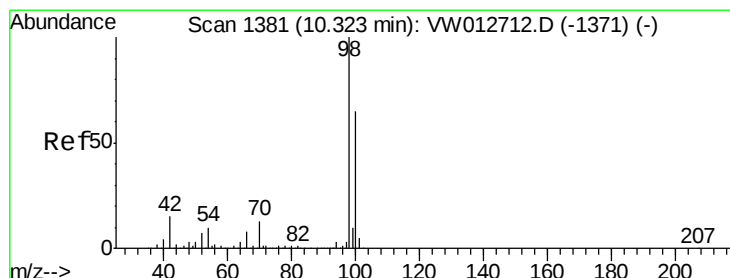
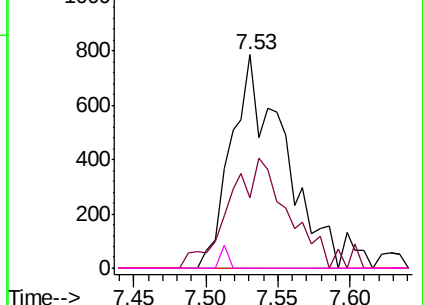


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#50

Toluene-d8

Concen: 50.792 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012779.D

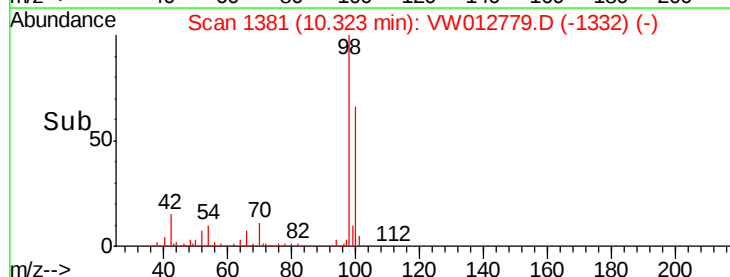
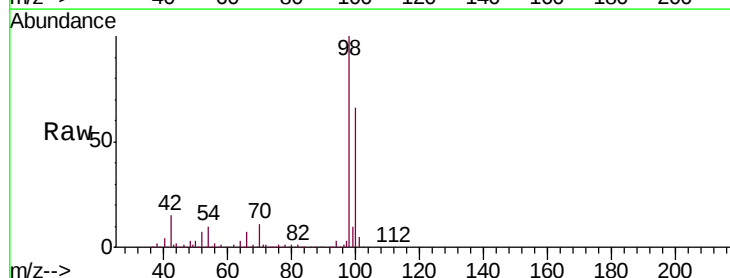
Acq: 08 Sep 2019 19:28

Tgt Ion: 98 Resp: 318399

Ion Ratio Lower Upper

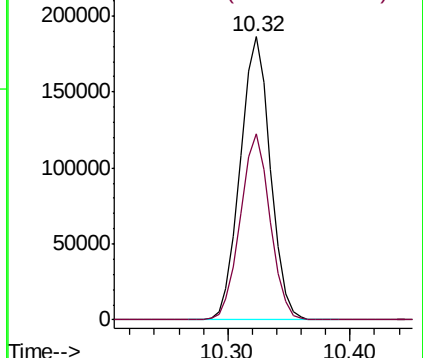
98 100

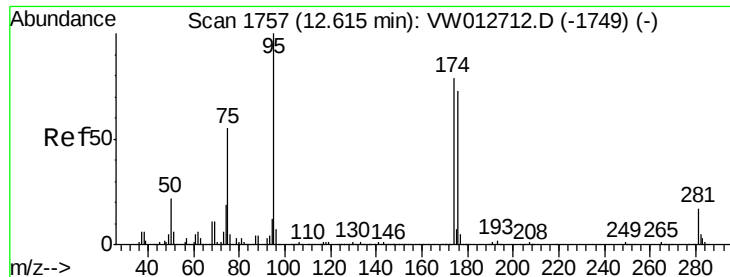
100 65.1 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 43.129 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

PAR-12-F2-(3.11)

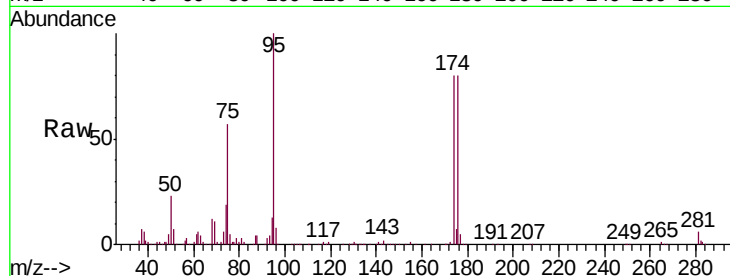
Tgt Ion: 95 Resp: 98150

Ion Ratio Lower Upper

95 100

174 83.8 0.0 161.0

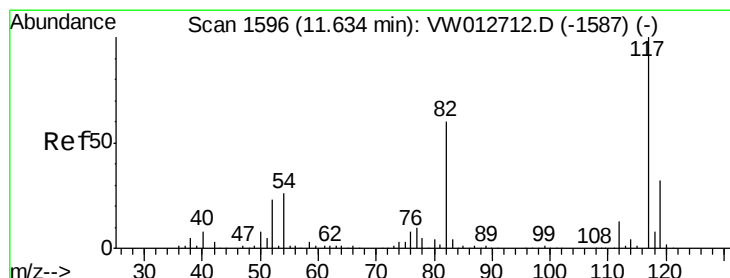
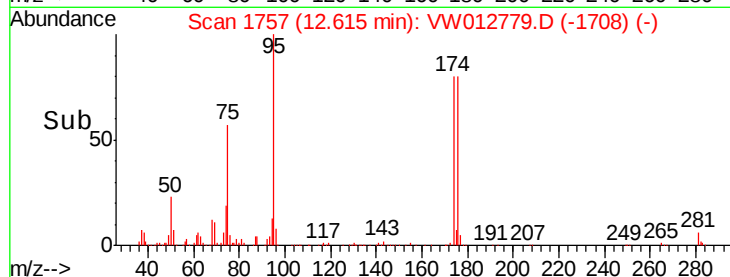
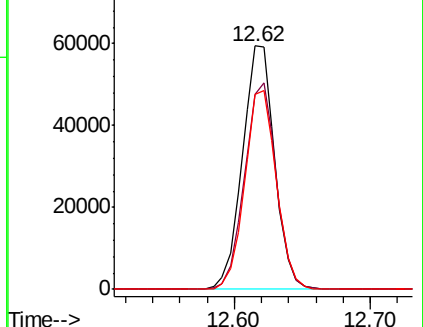
176 80.9 0.0 156.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

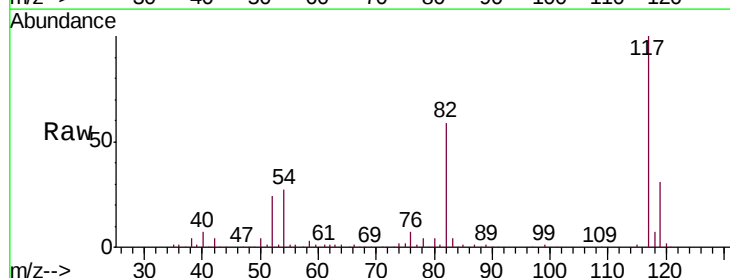
Tgt Ion: 117 Resp: 220717

Ion Ratio Lower Upper

117 100

82 59.2 48.2 72.4

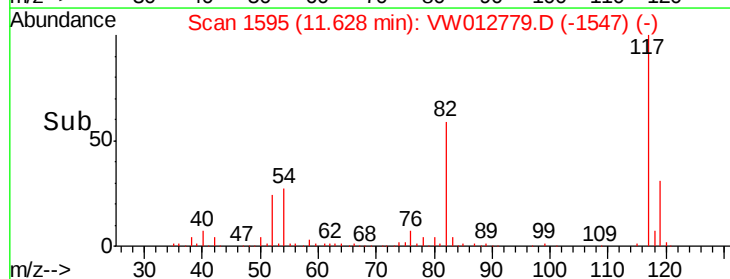
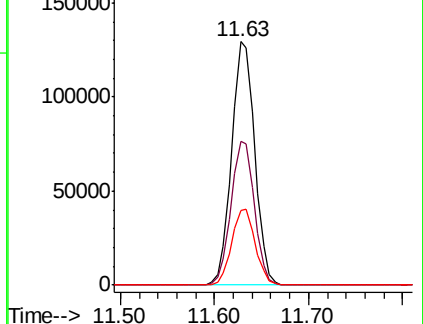
119 30.8 25.8 38.6

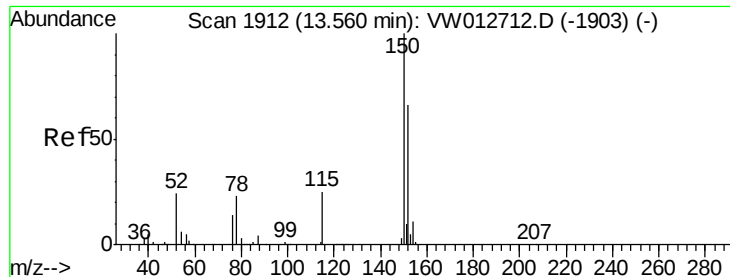


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

PAR-12-F2-(3.11)

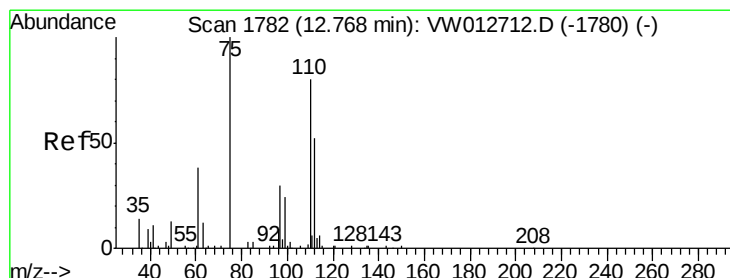
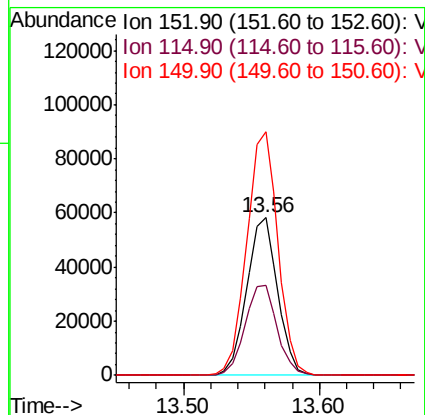
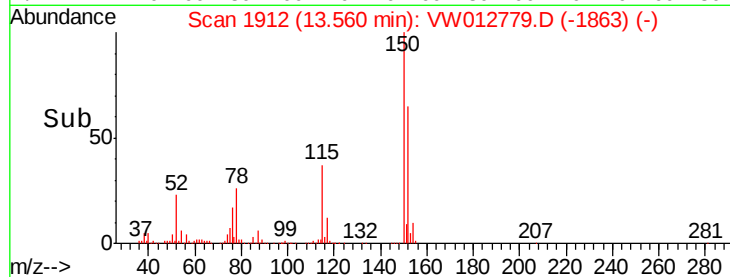
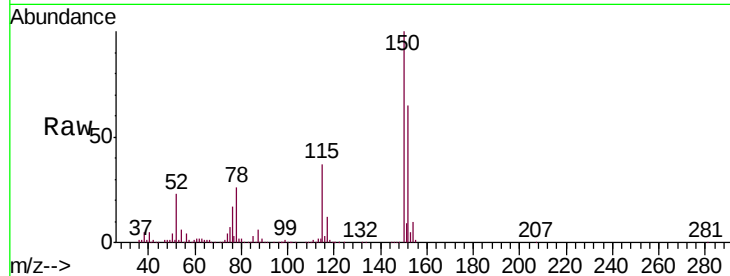
Tgt Ion:152 Resp: 92439

Ion Ratio Lower Upper

152 100

115 58.8 30.0 90.1

150 156.1 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 57.675 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012779.D

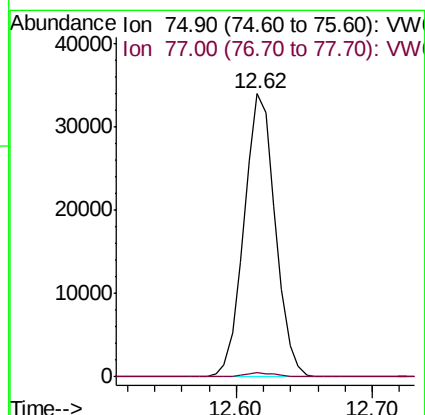
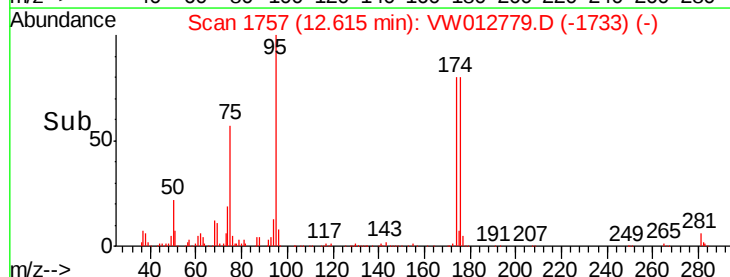
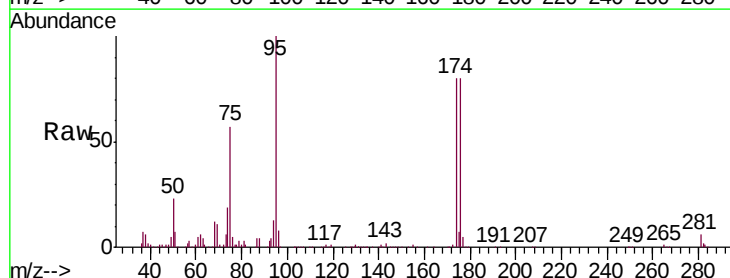
Acq: 08 Sep 2019 19:28

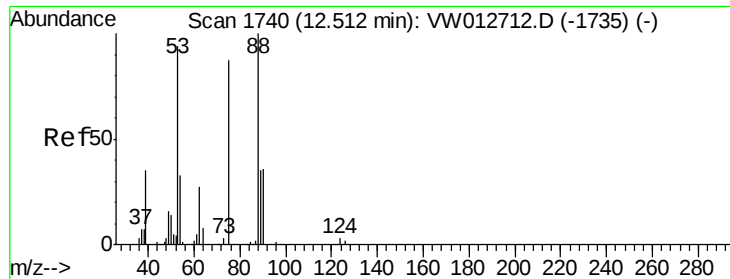
Tgt Ion: 75 Resp: 54516

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 121.986 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

PAR-12-F2-(3.11)

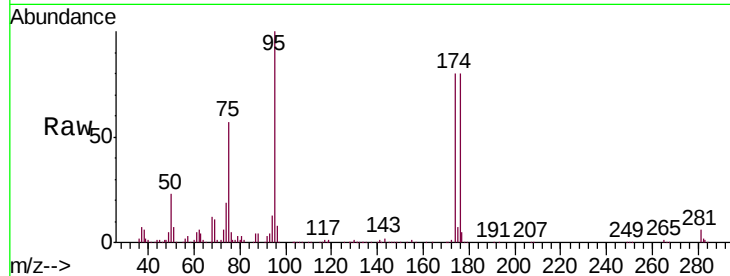
Tgt Ion: 75 Resp: 54516

Ion Ratio Lower Upper

75 100

53 0.1 87.6 131.4#

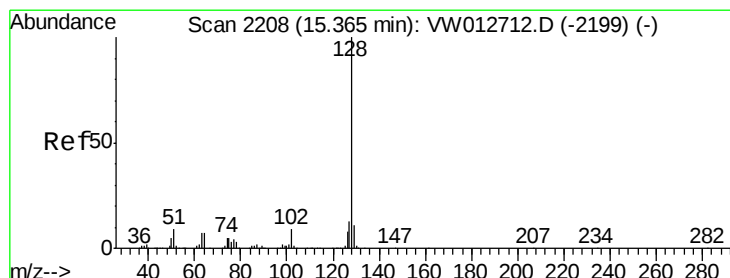
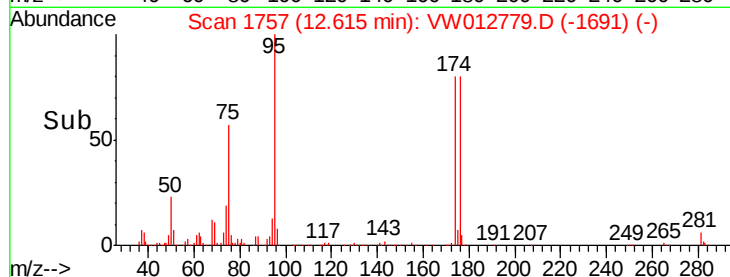
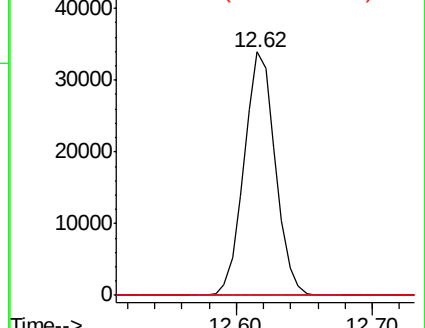
89 0.0 35.5 53.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 4.497 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012779.D

Acq: 08 Sep 2019 19:28

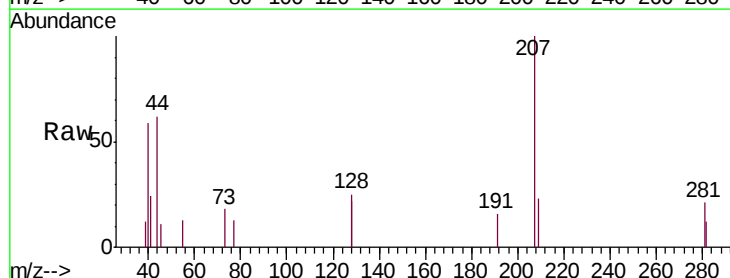
Tgt Ion: 128 Resp: 246

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

