

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080619\
 Data File : VW011727.D
 Acq On : 05 Aug 2019 22:58
 Operator : SY/VA
 Sample : K4162-01
 Misc : 3.88G/5ML/MSVOA_W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RT-3407

Quant Time: Aug 06 08:07:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	216705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	364095	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	302024	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	120814	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	142617	57.31	ug/l	0.00
Spiked Amount			Recovery	=	114.62%	
35) Dibromofluoromethane	7.88	113	112416	55.03	ug/l	0.00
Spiked Amount			Recovery	=	110.06%	
50) Toluene-d8	10.32	98	443281	53.00	ug/l	0.00
Spiked Amount			Recovery	=	106.00%	
62) 4-Bromofluorobenzene	12.62	95	141098	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	

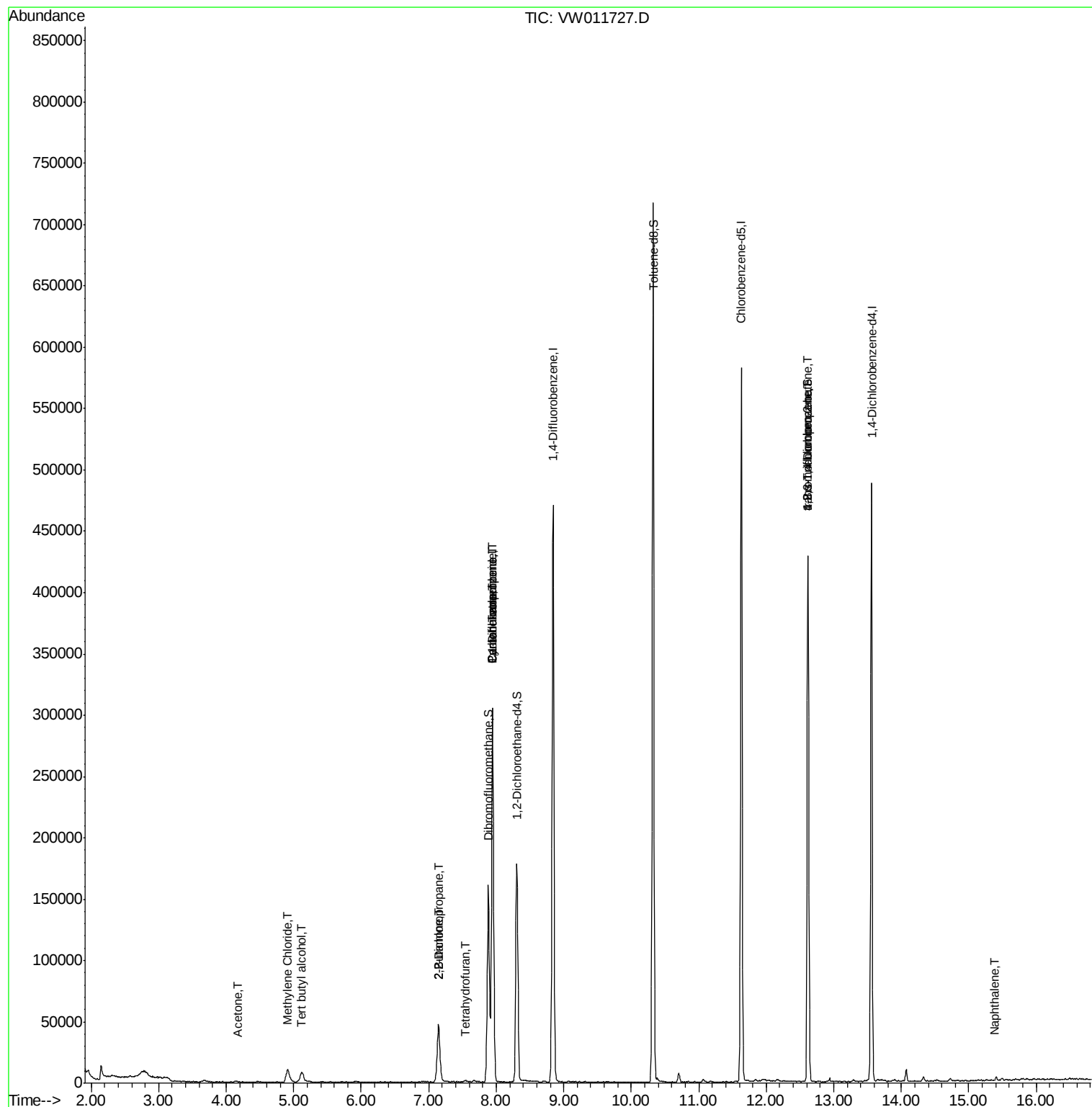
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	8417	30.153	ug/l #	73
16) Acetone	4.16	43	1657	2.093	ug/l #	78
20) Methylene Chloride	4.91	84	7740	2.835	ug/l	96
25) 2-Butanone	7.15	43	3324	3.209	ug/l #	78
26) 2,2-Dichloropropane	7.14	77	3409	1.144	ug/l #	54
29) Tetrahydrofuran	7.54	42	1189	2.008	ug/l #	82
31) Cyclohexane	7.94	56	5579	1.199	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	19008	5.021	ug/l #	52
38) Carbon Tetrachloride	7.95	117	21922	6.764	ug/l #	16
76) 1,2,3-Trichloropropane	12.62	75	74561	58.326	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	74561	134.421	ug/l #	6
95) Naphthalene	15.37	128	278	2.122	ug/l #	69

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

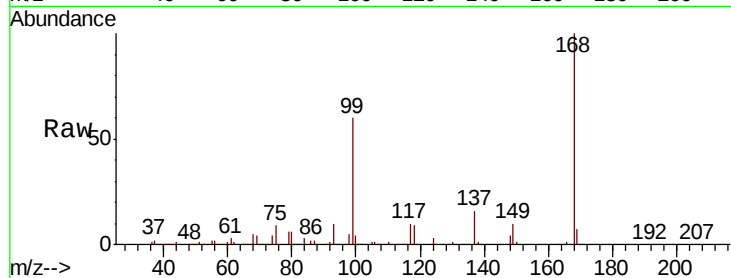
Instrument :
MSVOA_W
ClientSampled :
RT-3407

Tgt Ion:168 Resp: 216705

Ion Ratio Lower Upper

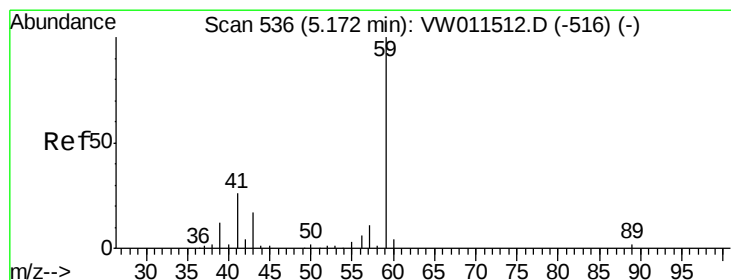
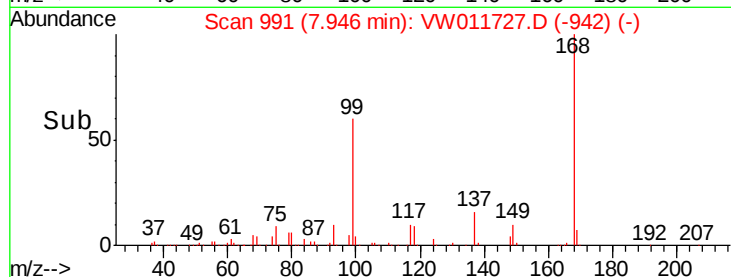
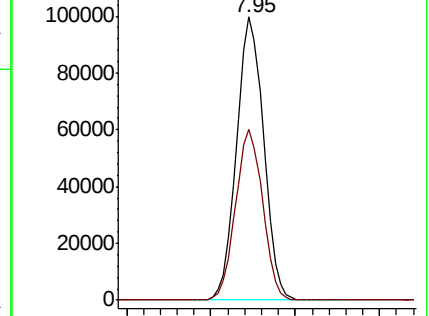
168 100

99 60.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 30.153 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011727.D

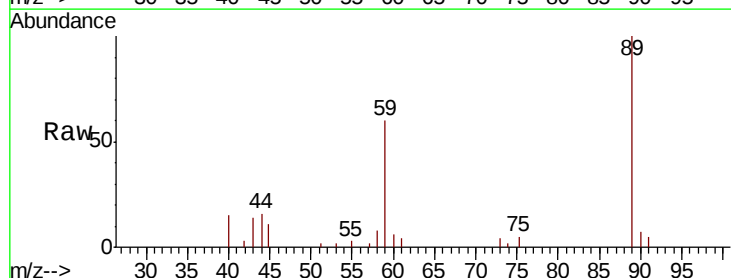
Acq: 05 Aug 2019 22:58

Tgt Ion: 59 Resp: 8417

Ion Ratio Lower Upper

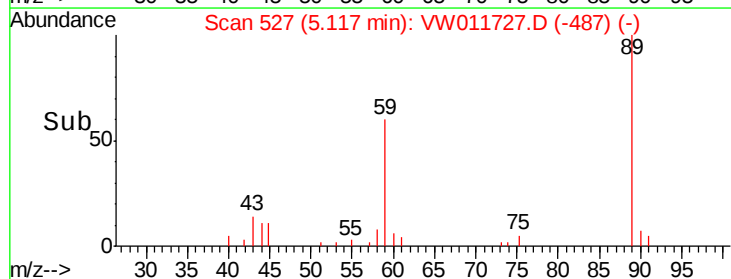
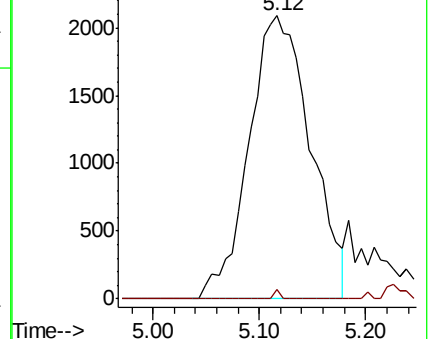
59 100

57 0.3 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 2.093 ug/l

RT: 4.16 min Scan# 370

Delta R.T. 0.04 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

Instrument :

MSVOA_W

ClientSampleId :

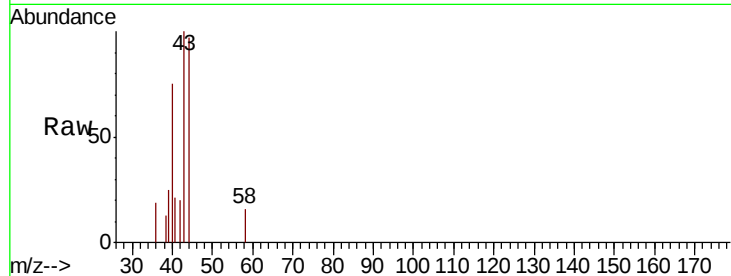
RT-3407

Tgt Ion: 43 Resp: 1657

Ion Ratio Lower Upper

43 100

58 16.4 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.16

400

300

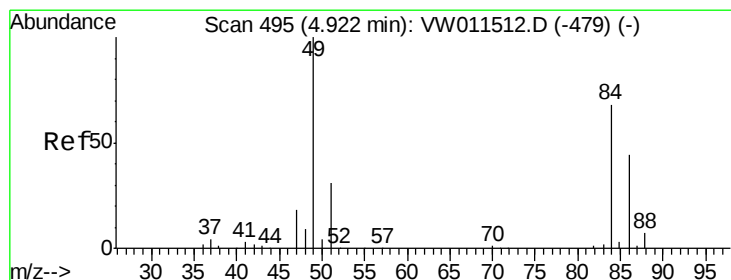
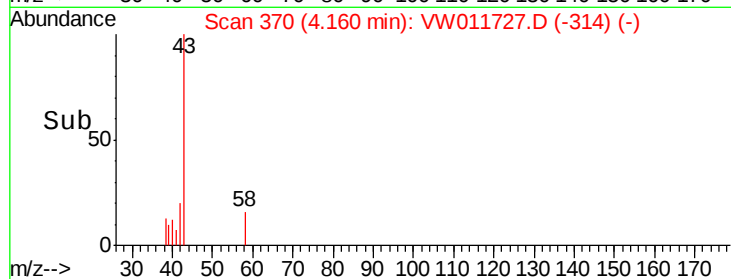
200

100

0

4.10 4.20

Time-->



#20

Methylene Chloride

Concen: 2.835 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

Tgt Ion: 84 Resp: 7740

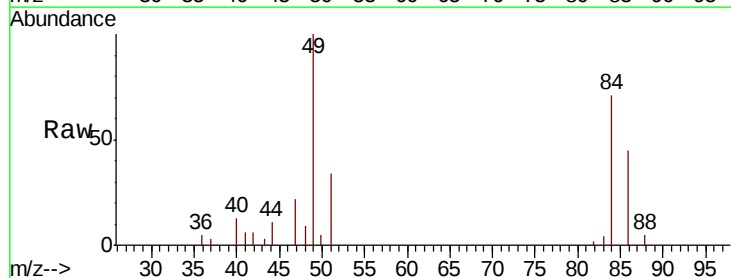
Ion Ratio Lower Upper

84 100

49 141.3 117.8 176.6

51 48.1 37.0 55.4

86 63.8 51.8 77.8



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

5000

4000

3000

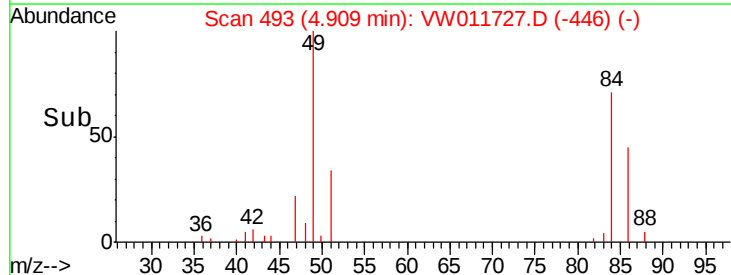
2000

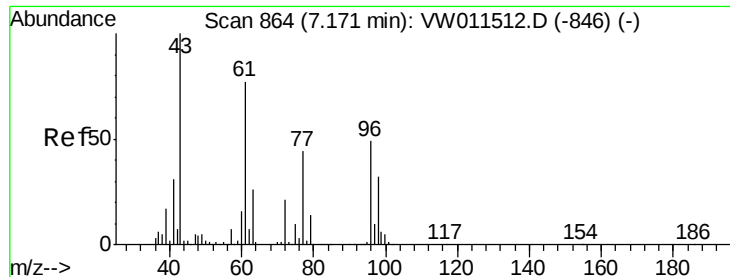
1000

0

4.80 4.90 5.00

Time-->





#25

2-Butanone

Concen: 3.209 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

Instrument :

MSVOA_W

ClientSampleId :

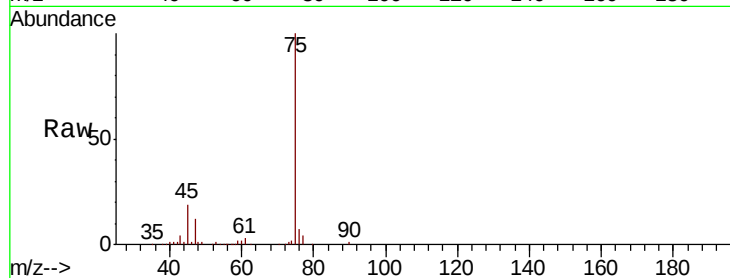
RT-3407

Tgt Ion: 43 Resp: 3324

Ion Ratio Lower Upper

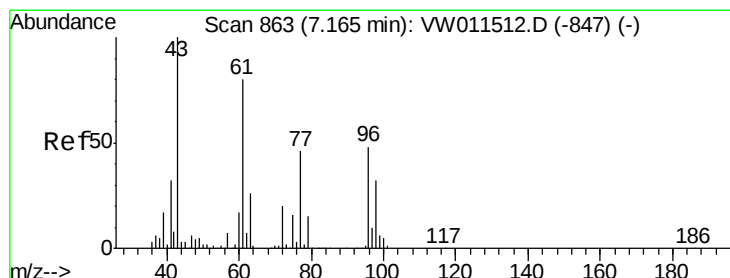
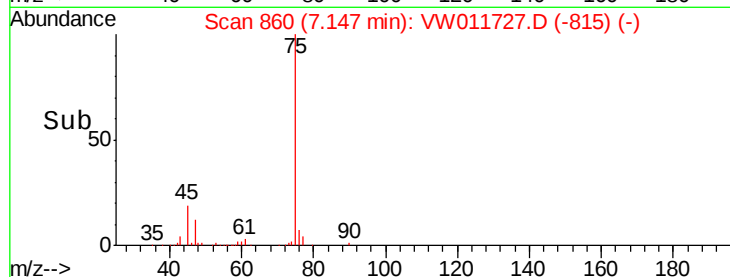
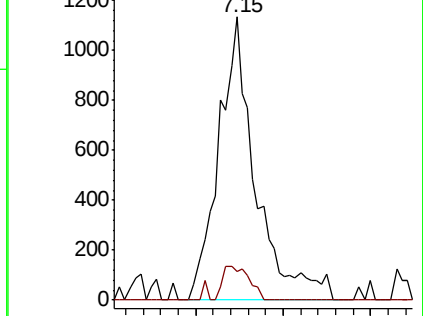
43 100

72 10.2 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.144 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW011727.D

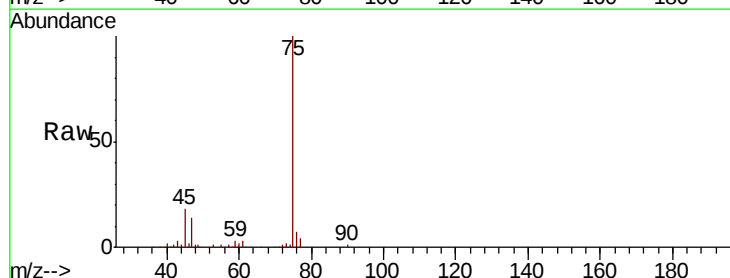
Acq: 05 Aug 2019 22:58

Tgt Ion: 77 Resp: 3409

Ion Ratio Lower Upper

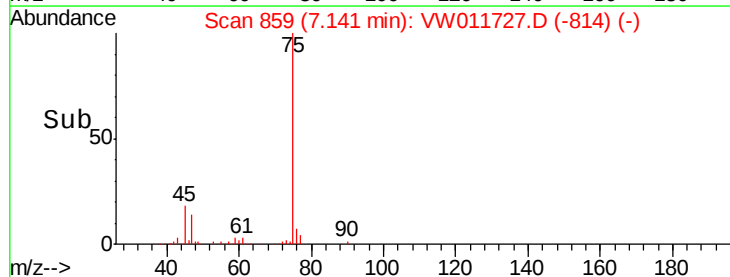
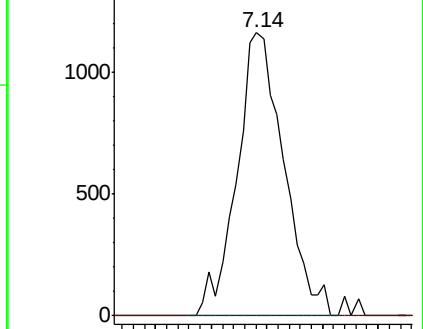
77 100

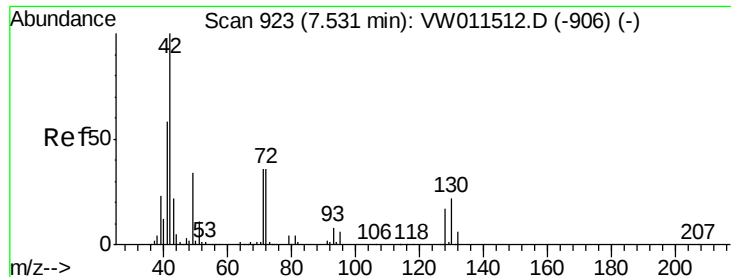
97 0.0 10.8 32.4#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW





#29

Tetrahydrofuran

Concen: 2.008 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

Instrument :

MSVOA_W

ClientSampleId :

RT-3407

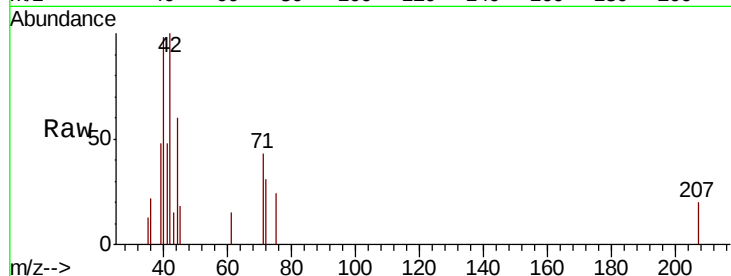
Tgt Ion: 42 Resp: 1189

Ion Ratio Lower Upper

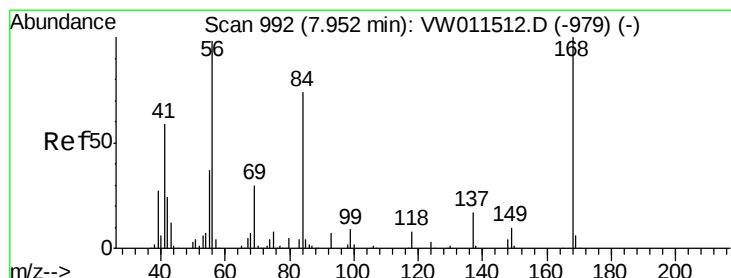
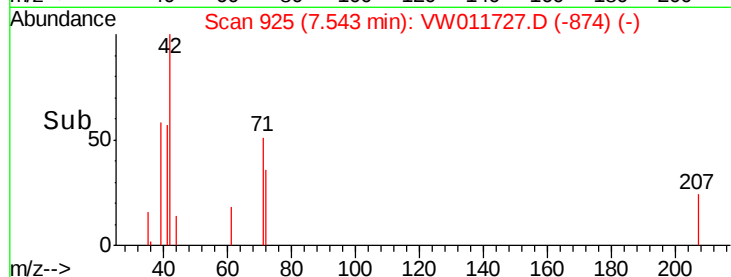
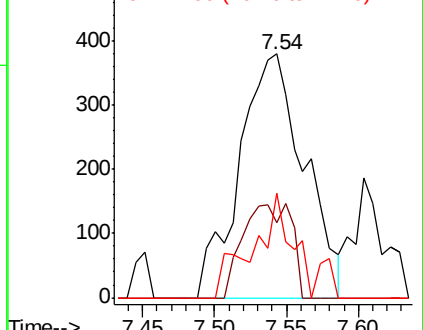
42 100

72 28.8 27.1 40.7

71 17.9 26.2 39.4#



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: 1.199 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

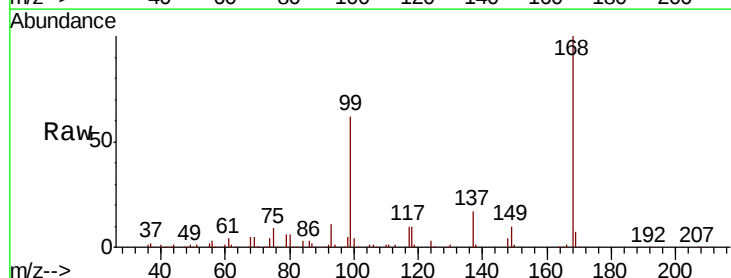
Tgt Ion: 56 Resp: 5579

Ion Ratio Lower Upper

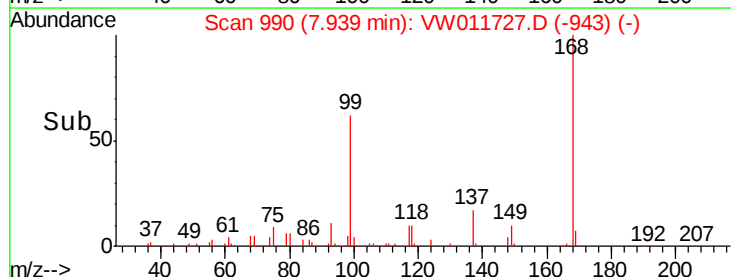
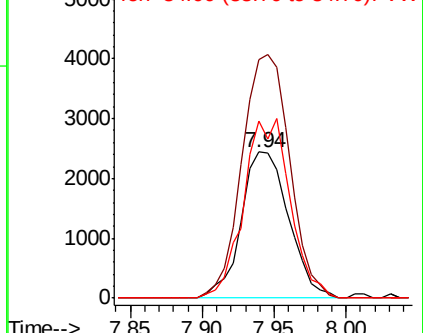
56 100

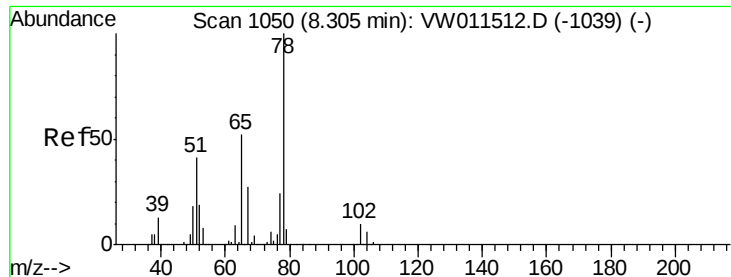
69 163.5 24.3 36.5#

84 121.1 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

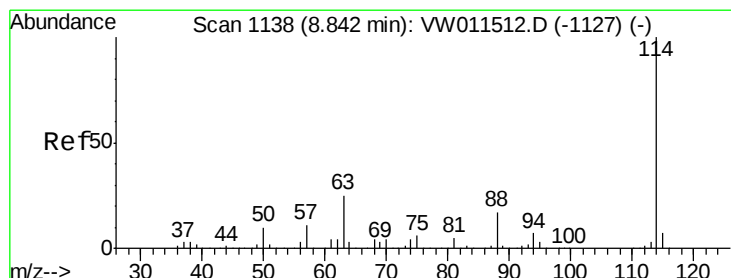
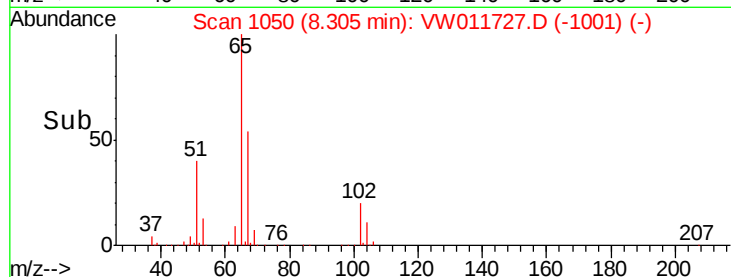
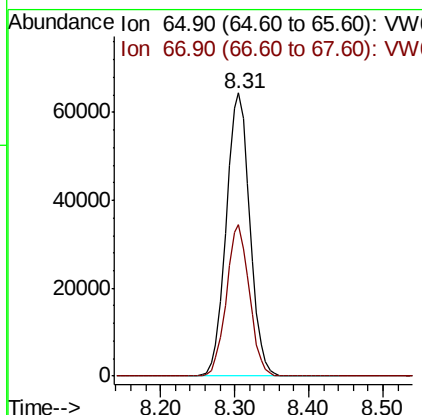
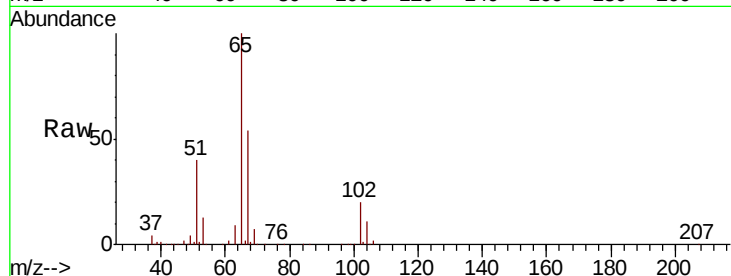




#33
 1,2-Dichloroethane-d4
 Concen: 57.313 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW011727.D
 Acq: 05 Aug 2019 22:58

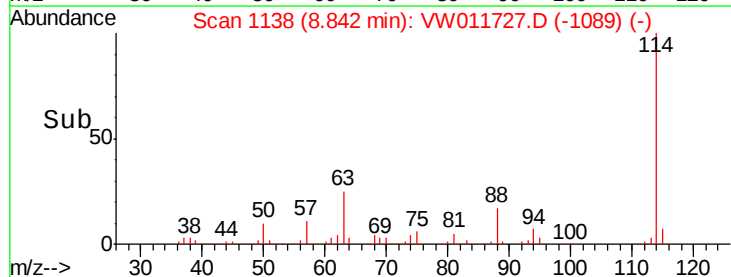
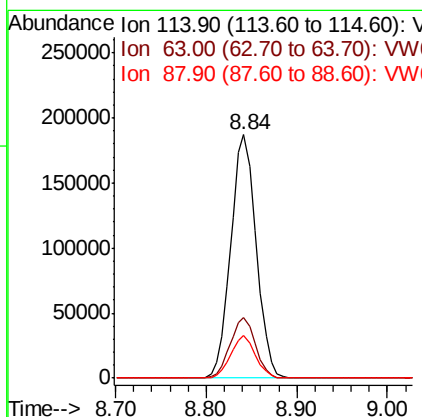
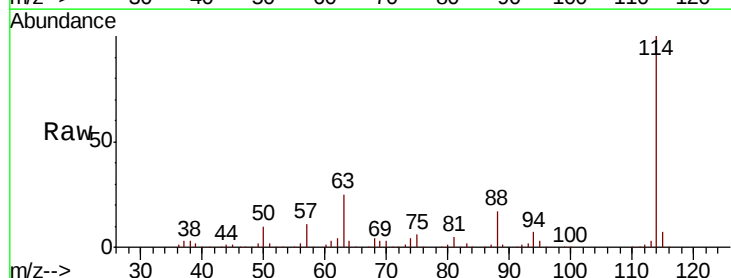
Instrument :
 MSVOA_W
 ClientSampleId :
 RT-3407

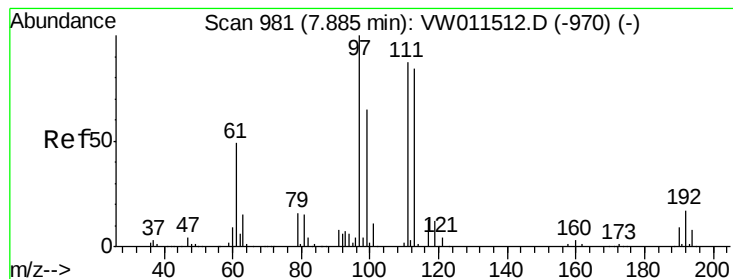
Tgt Ion: 65 Resp: 142617
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011727.D
 Acq: 05 Aug 2019 22:58

Tgt Ion: 114 Resp: 364095
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 49.2
 88 17.3 0.0 33.8





#35

Dibromofluoromethane

Concen: 55.035 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

Instrument :

MSVOA_W

ClientSampleId :

RT-3407

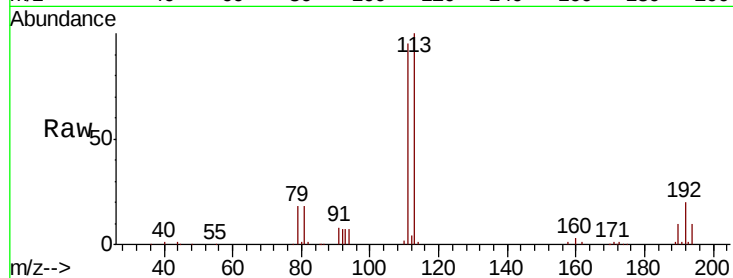
Tgt Ion:113 Resp: 112416

Ion Ratio Lower Upper

113 100

111 102.4 82.7 124.1

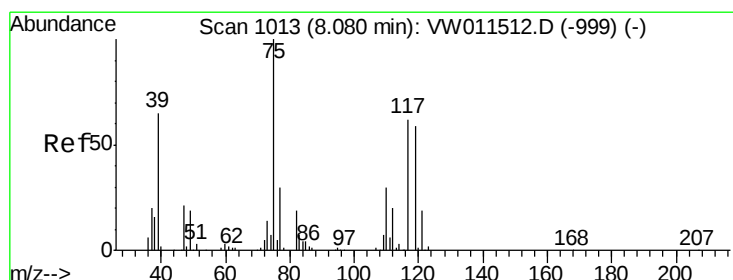
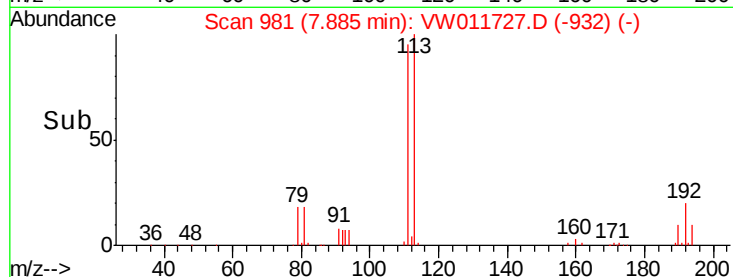
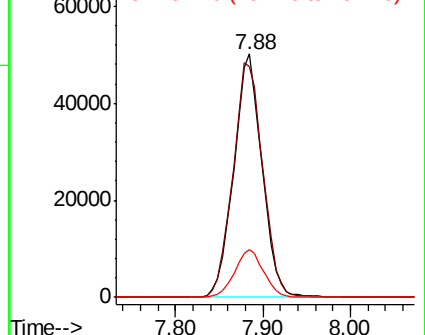
192 20.0 16.1 24.1



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: 5.021 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

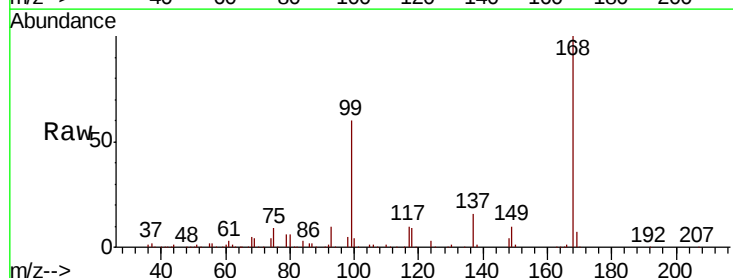
Tgt Ion: 75 Resp: 19008

Ion Ratio Lower Upper

75 100

110 9.2 15.6 46.8#

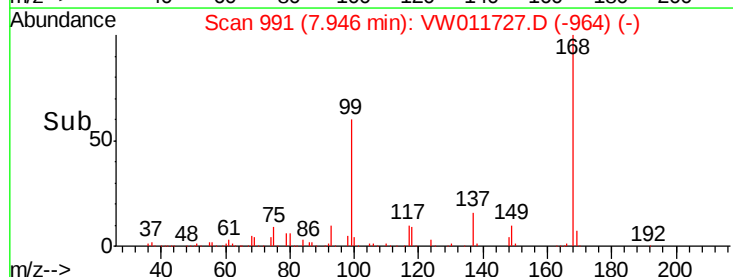
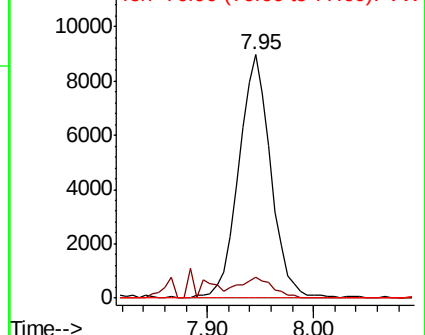
77 0.0 24.3 36.5#

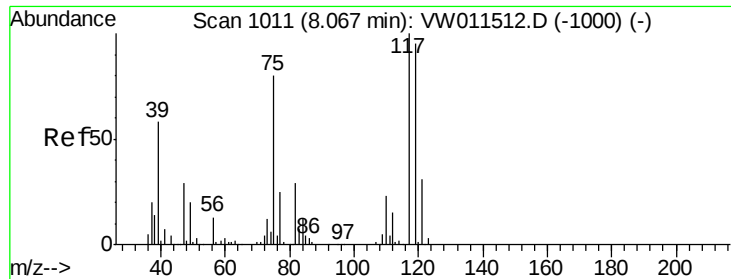


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.764 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

Instrument :

MSVOA_W

ClientSampled :

RT-3407

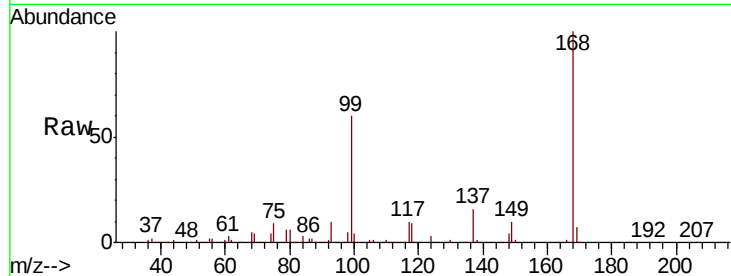
Tgt Ion:117 Resp: 21922

Ion Ratio Lower Upper

117 100

119 4.3 75.8 113.6#

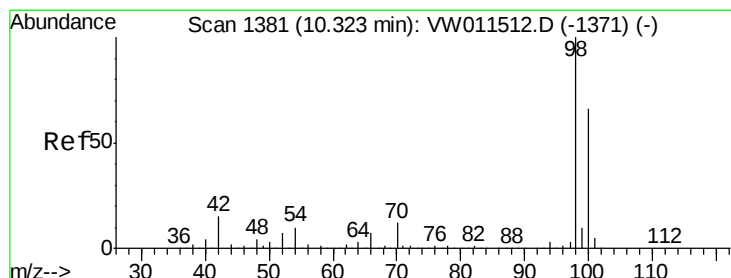
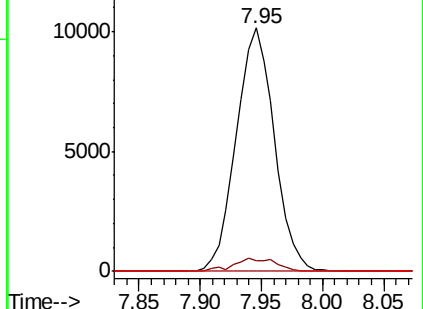
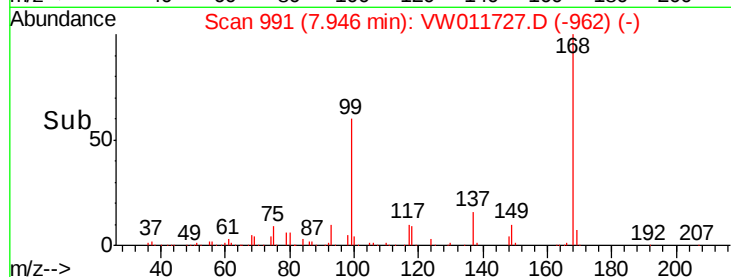
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 53.004 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011727.D

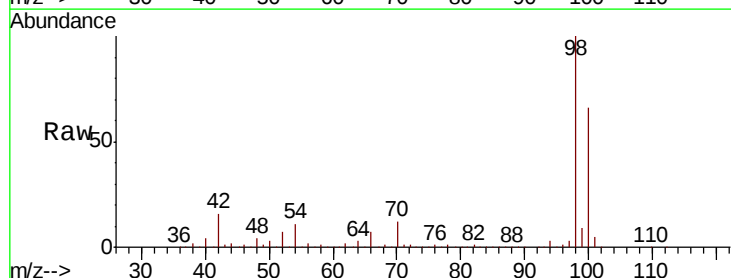
Acq: 05 Aug 2019 22:58

Tgt Ion: 98 Resp: 443281

Ion Ratio Lower Upper

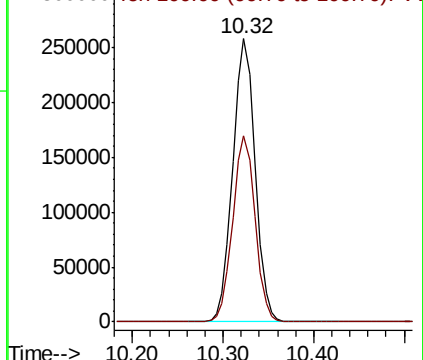
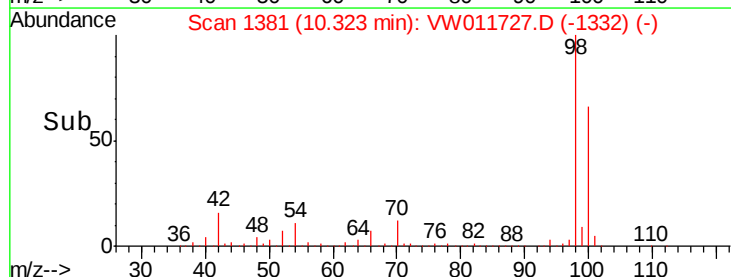
98 100

100 65.6 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 47.322 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

Instrument :

MSVOA_W

ClientSampleId :

RT-3407

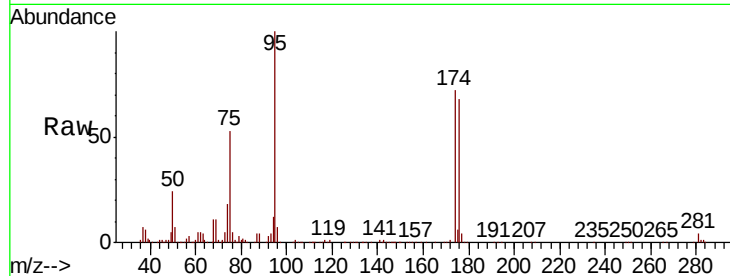
Tgt Ion: 95 Resp: 141098

Ion Ratio Lower Upper

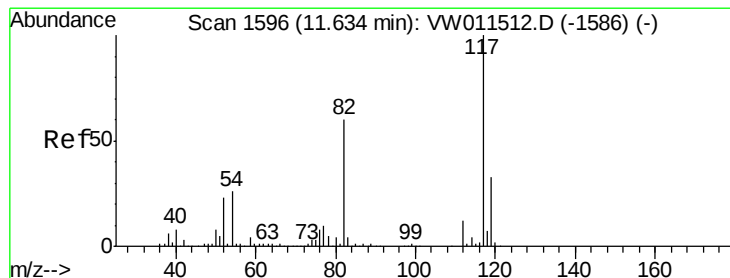
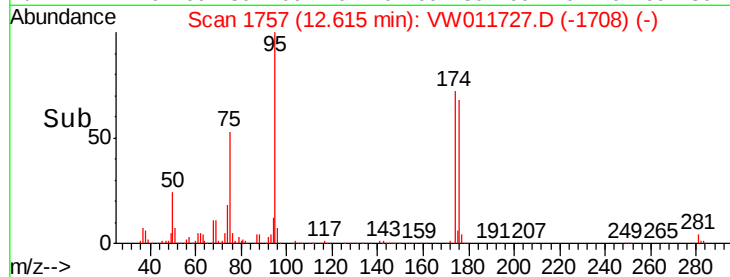
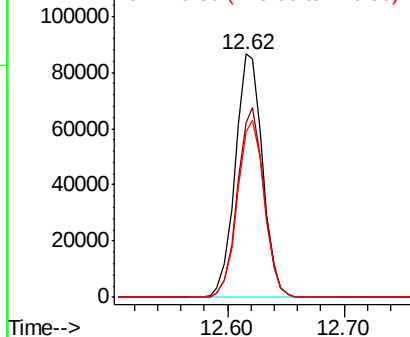
95 100

174 76.0 0.0 150.2

176 72.2 0.0 144.4



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# 1596

Delta R.T. 0.00 min

Lab File: VW011727.D

Acq: 05 Aug 2019 22:58

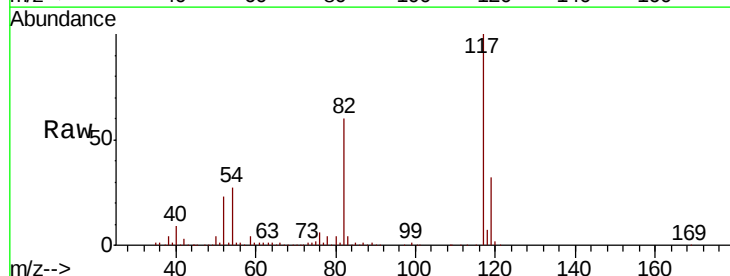
Tgt Ion: 117 Resp: 302024

Ion Ratio Lower Upper

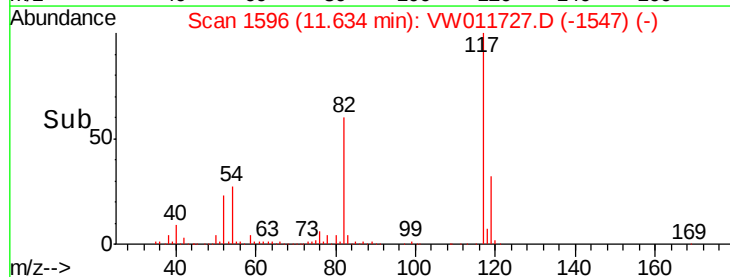
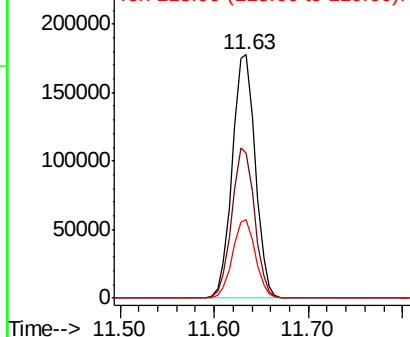
117 100

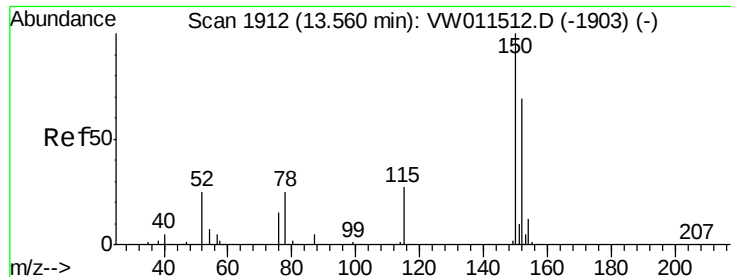
82 59.7 47.9 71.9

119 32.1 26.2 39.2



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: VW011727.D

Acq: 05 Aug 2019 22:58

Instrument :

MSVOA_W

ClientSampleId :

RT-3407

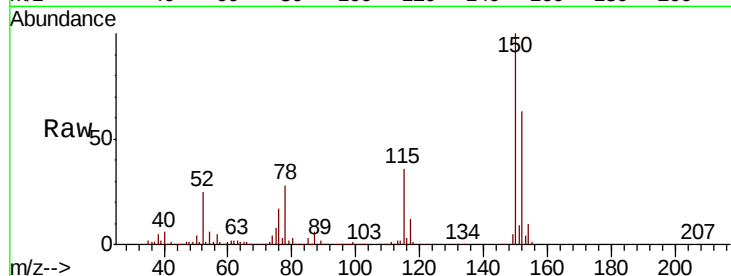
Tgt Ion:152 Resp: 120814

Ion Ratio Lower Upper

152 100

115 59.6 30.5 91.5

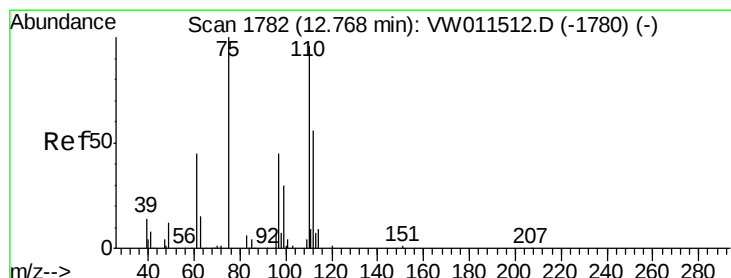
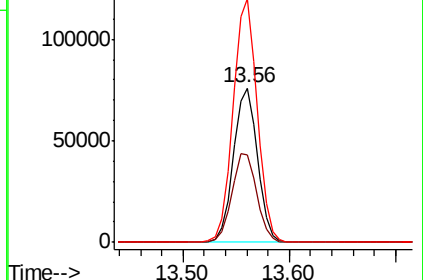
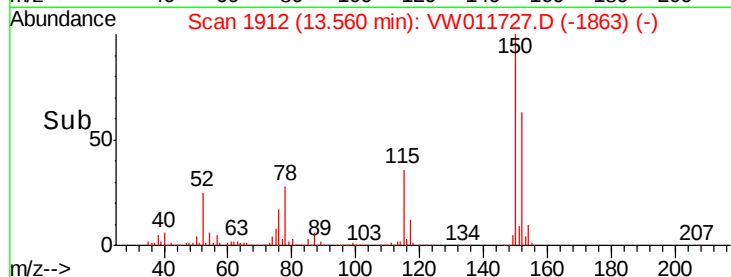
150 157.6 0.0 352.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 58.326 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011727.D

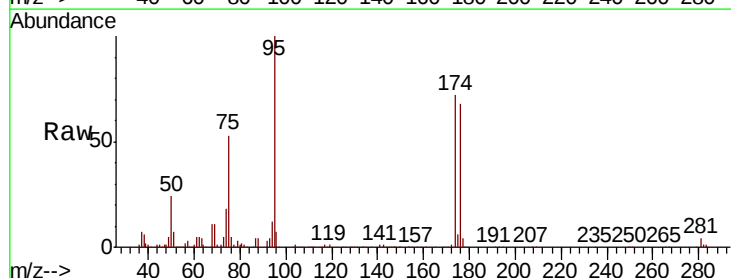
Acq: 05 Aug 2019 22:58

Tgt Ion: 75 Resp: 74561

Ion Ratio Lower Upper

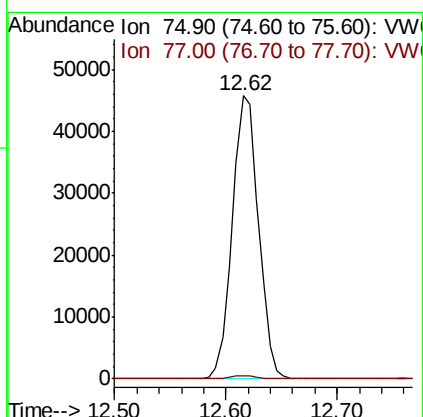
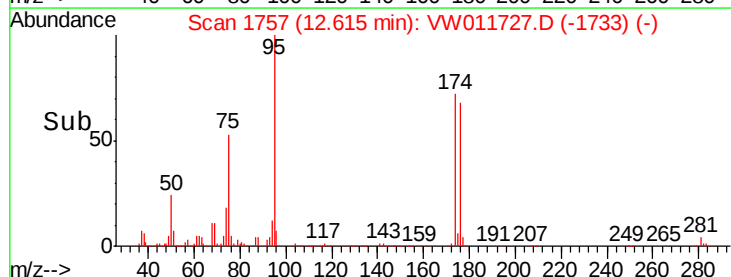
75 100

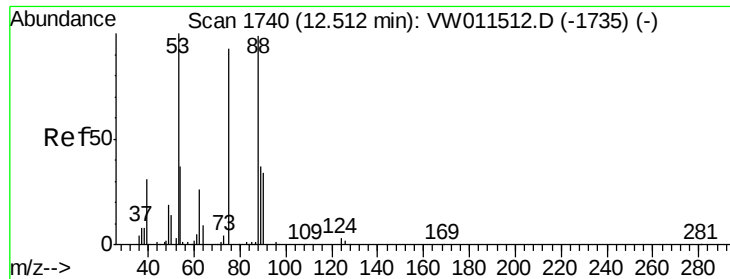
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

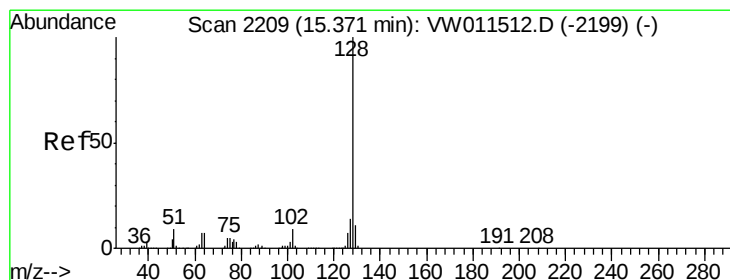
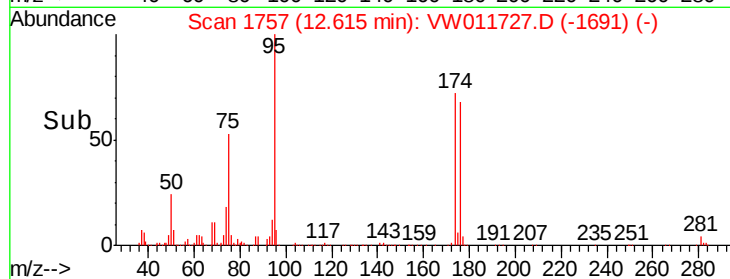
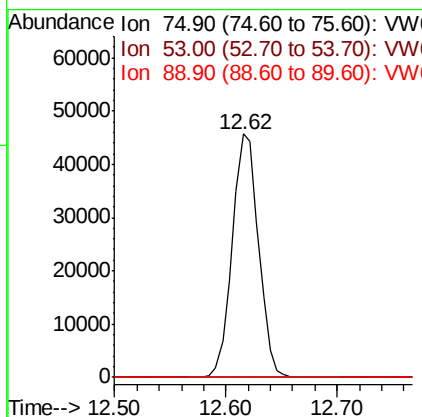
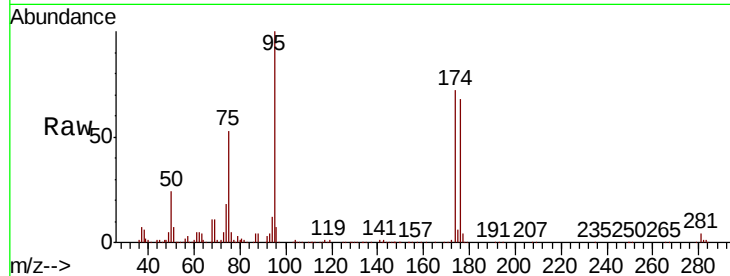




#81
trans-1,4-Dichloro-2-butene
Concen: 134.421 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW011727.D
Acq: 05 Aug 2019 22:58

Instrument :
MSVOA_W
ClientSampleId :
RT-3407

Tgt Ion: 75 Resp: 74561
Ion Ratio Lower Upper
75 100
53 0.2 88.0 132.0#
89 0.0 35.3 52.9#



#95
Naphthalene
Concen: 2.122 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW011727.D
Acq: 05 Aug 2019 22:58

Tgt Ion: 128 Resp: 278
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 13.0#

