

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082319\
 Data File : VW012140.D
 Acq On : 23 Aug 2019 18:32
 Operator : SY/VA
 Sample : K4474-02
 Misc : 4.93G/5ML/MSVOA_W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-2-F1-(2.5)

Quant Time: Aug 26 07:29:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	23508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	34692	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	29502	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	8499	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	16553	59.23	ug/l	0.00
Spiked Amount			Recovery	=	118.46%	
35) Dibromofluoromethane	7.89	113	11942	57.67	ug/l	0.00
Spiked Amount			Recovery	=	115.34%	
50) Toluene-d8	10.32	98	41443	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
62) 4-Bromofluorobenzene	12.62	95	12091	40.85	ug/l	0.00
Spiked Amount			Recovery	=	81.70%	

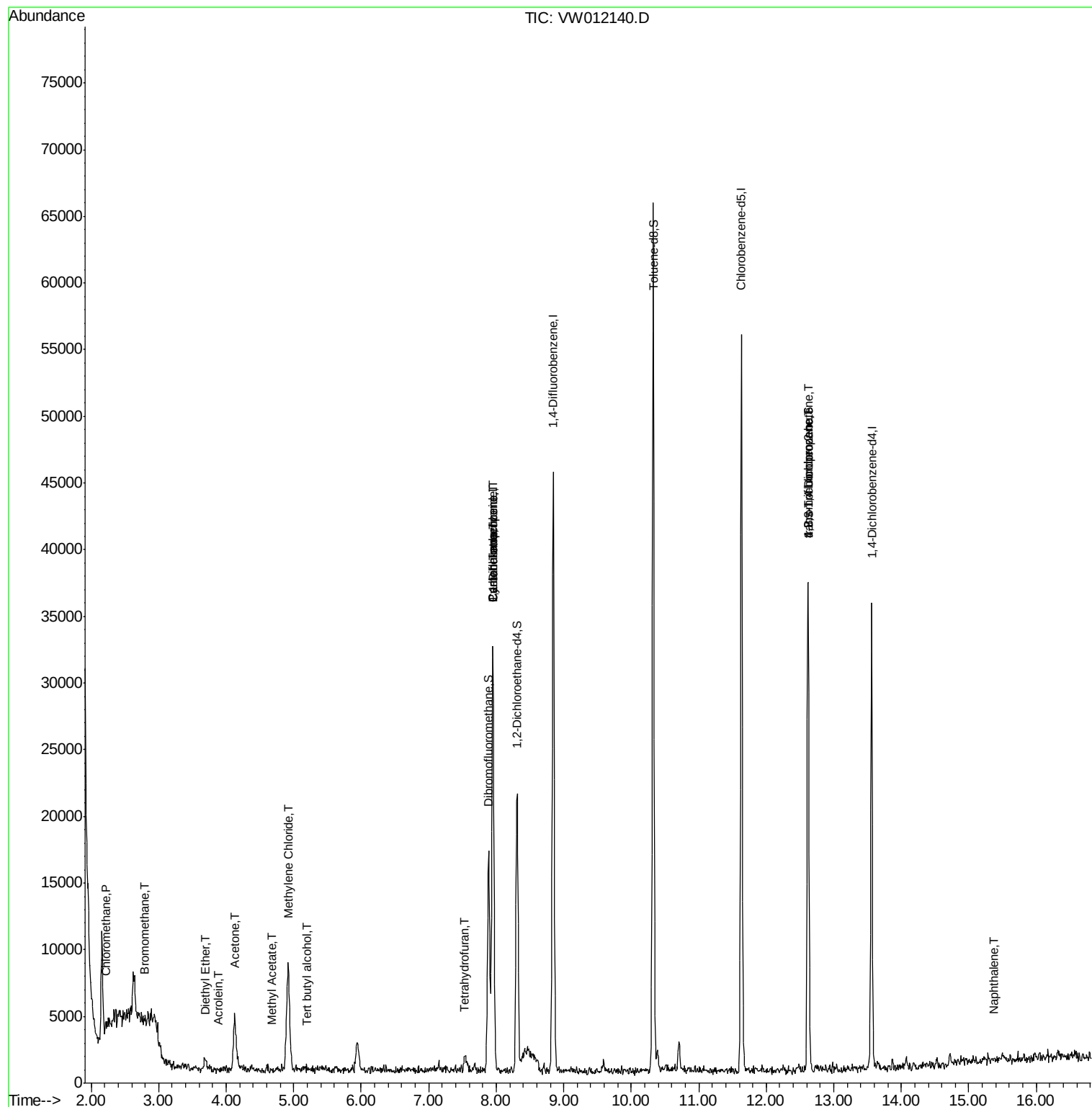
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.22	50	259	1.155	ug/l #	70
5) Bromomethane	2.79	94	160	1.151	ug/l #	4
8) Diethyl Ether	3.70	74	387	2.958	ug/l	61
11) Tert butyl alcohol	5.20	59	24	1.427	ug/l #	71
13) Acrolein	3.89	56	26	1.642	ug/l #	1
16) Acetone	4.13	43	7278	101.884	ug/l	96
18) Methyl Acetate	4.68	43	199	1.125	ug/l #	57
20) Methylene Chloride	4.92	84	5161	19.111	ug/l #	81
29) Tetrahydrofuran	7.52	42	1014	17.411	ug/l #	89
31) Cyclohexane	7.95	56	646	1.283	ug/l #	11
36) 1,1-Dichloropropene	7.95	75	2186	6.098	ug/l #	45
38) Carbon Tetrachloride	7.95	117	2473	7.970	ug/l #	17
76) 1,2,3-Trichloropropane	12.62	75	6647	80.303	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	6647	176.067	ug/l #	6
95) Naphthalene	15.37	128	132	4.697	ug/l #	77

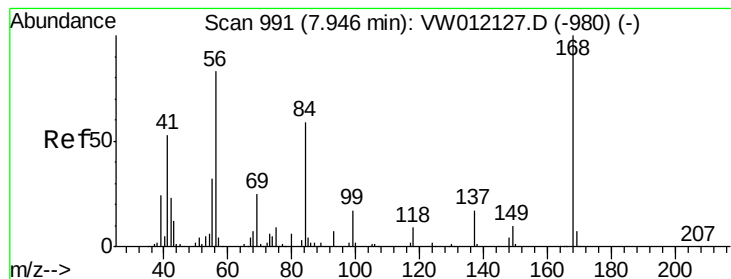
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012140.D

Acq: 23 Aug 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

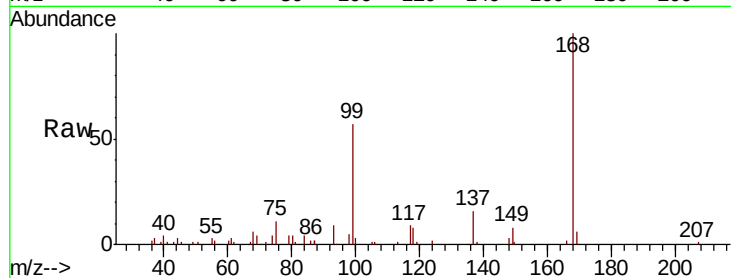
T1-2-F1-(2.5)

Tgt Ion:168 Resp: 23508

Ion Ratio Lower Upper

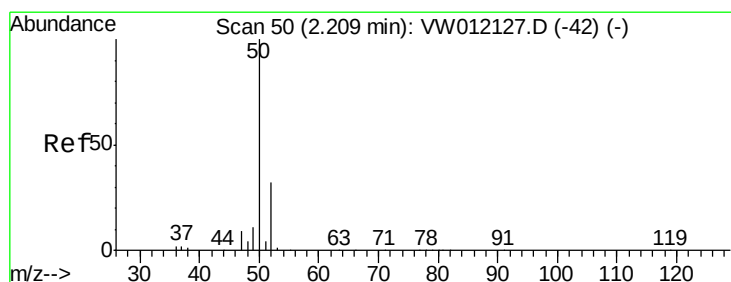
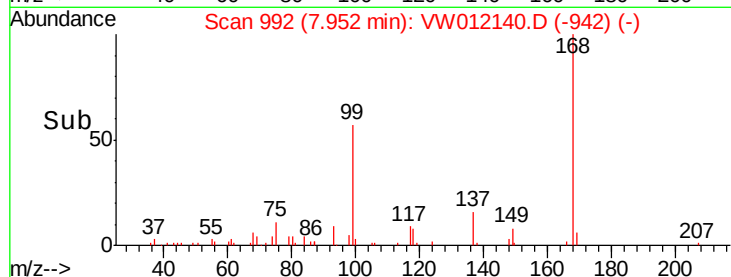
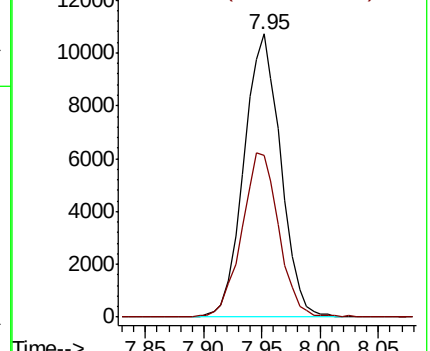
168 100

99 57.2 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.155 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW012140.D

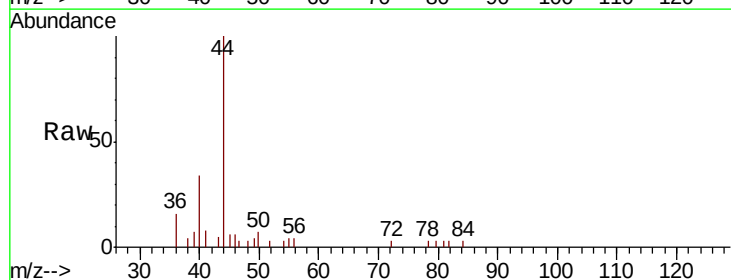
Acq: 23 Aug 2019 18:32

Tgt Ion: 50 Resp: 259

Ion Ratio Lower Upper

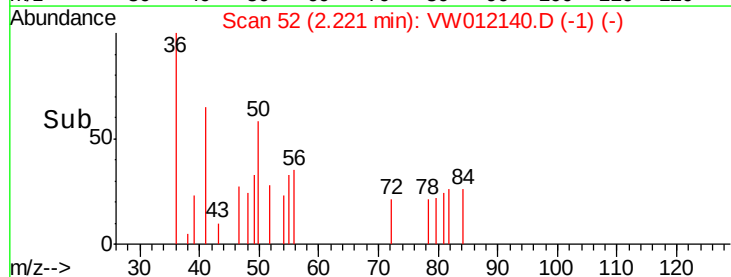
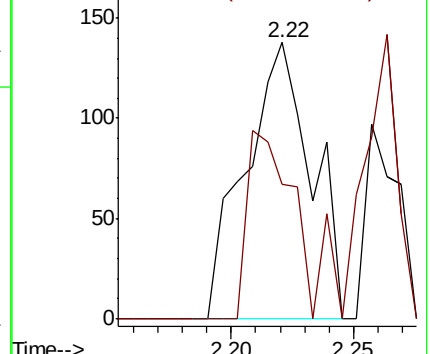
50 100

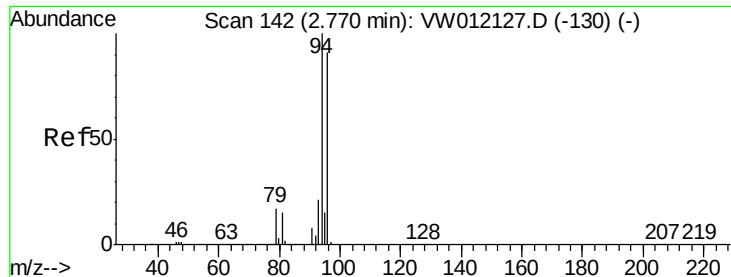
52 48.6 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#5

Bromomethane

Concen: 1.151 ug/l

RT: 2.79 min Scan# 145

Delta R.T. 0.02 min

Lab File: VW012140.D

Acq: 23 Aug 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

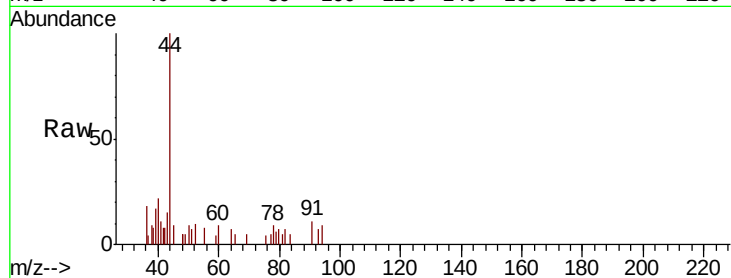
T1-2-F1-(2.5)

Tgt Ion: 94 Resp: 160

Ion Ratio Lower Upper

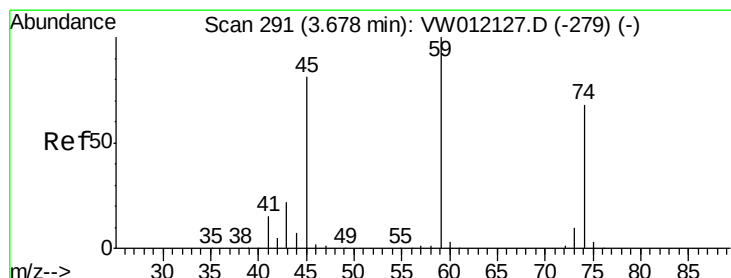
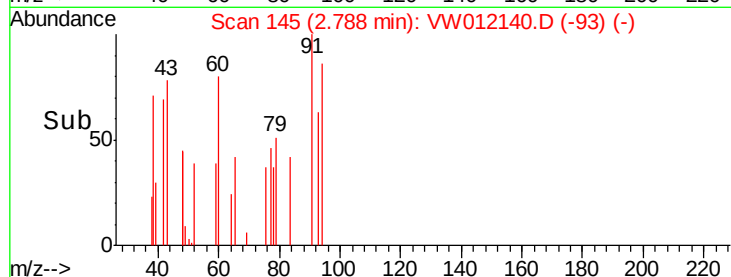
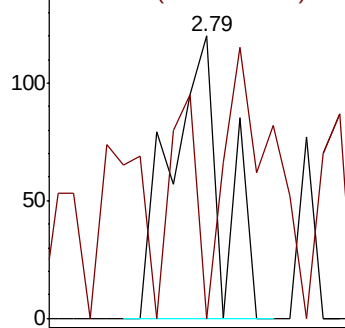
94 100

96 0.0 72.9 109.3#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#8

Diethyl Ether

Concen: 2.958 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.02 min

Lab File: VW012140.D

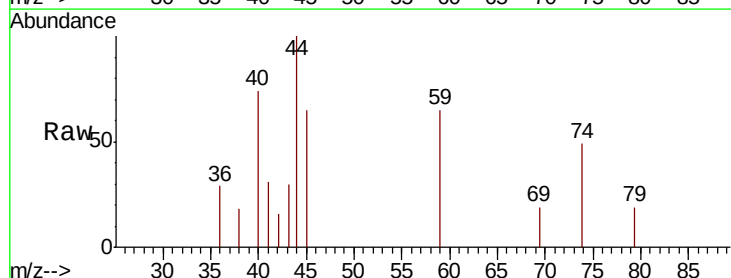
Acq: 23 Aug 2019 18:32

Tgt Ion: 74 Resp: 387

Ion Ratio Lower Upper

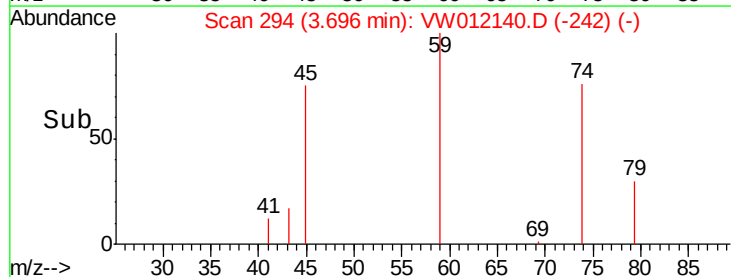
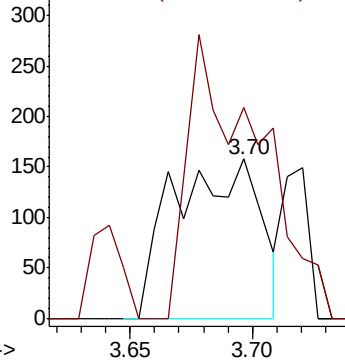
74 100

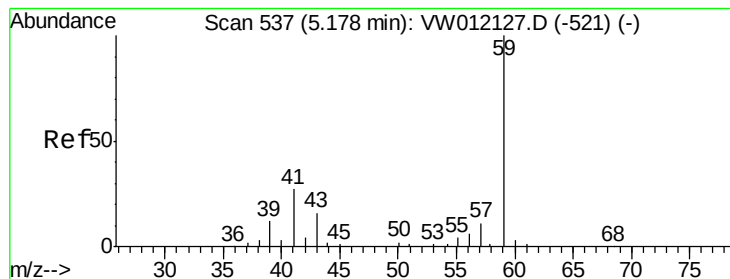
45 75.5 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#11

Tert butyl alcohol

Concen: 1.427 ug/l

RT: 5.20 min Scan# 541

Delta R.T. 0.02 min

Lab File: VW012140.D

Acq: 23 Aug 2019 18:32

Instrument :

MSVOA_W

ClientSampled :

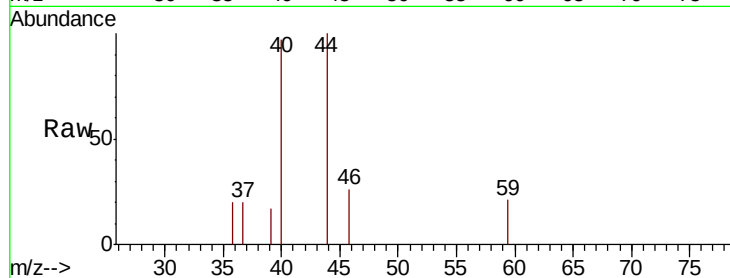
T1-2-F1-(2.5)

Tgt Ion: 59 Resp: 24

Ion Ratio Lower Upper

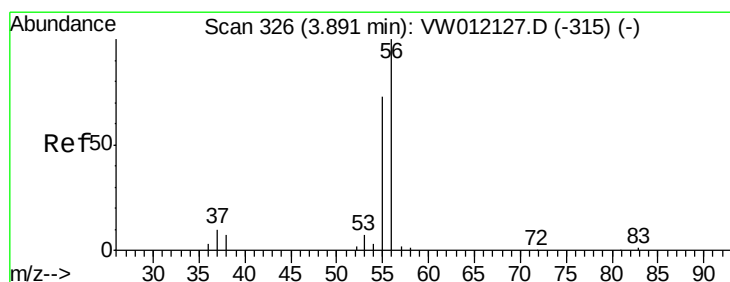
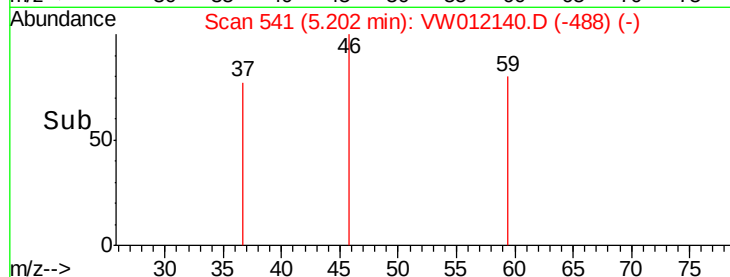
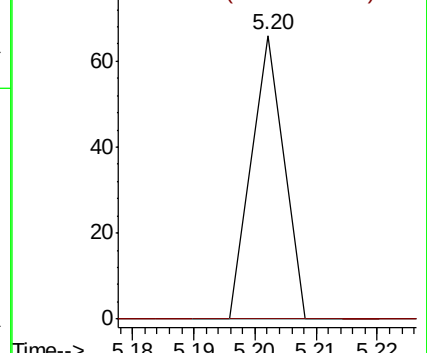
59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#13

Acrolein

Concen: 1.642 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW012140.D

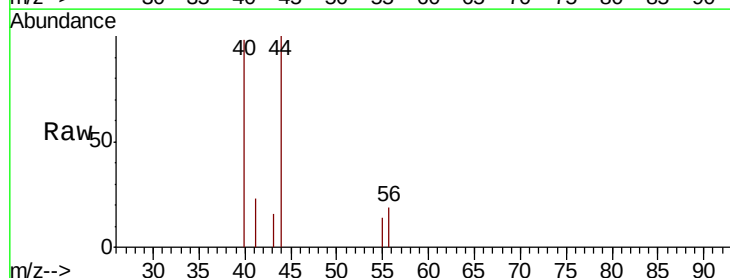
Acq: 23 Aug 2019 18:32

Tgt Ion: 56 Resp: 26

Ion Ratio Lower Upper

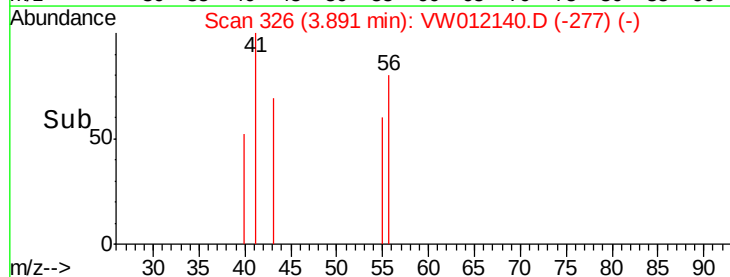
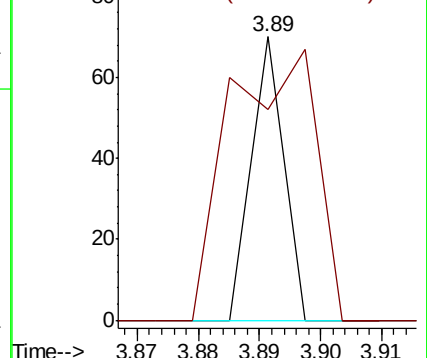
56 100

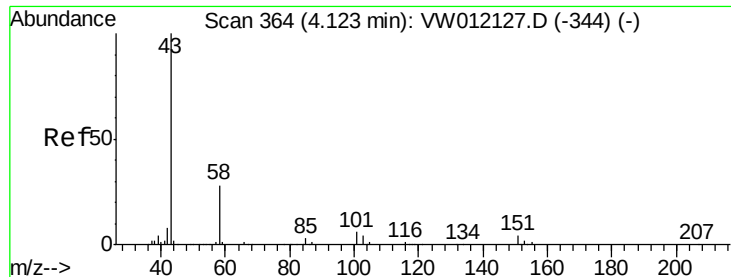
55 250.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

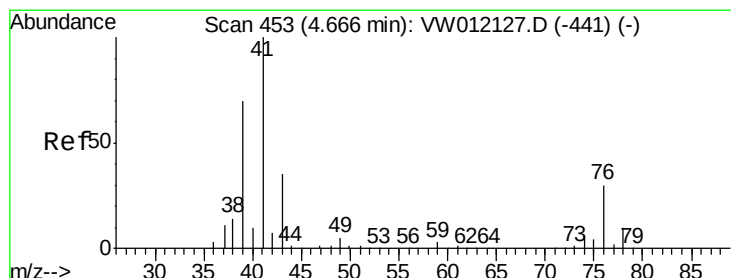
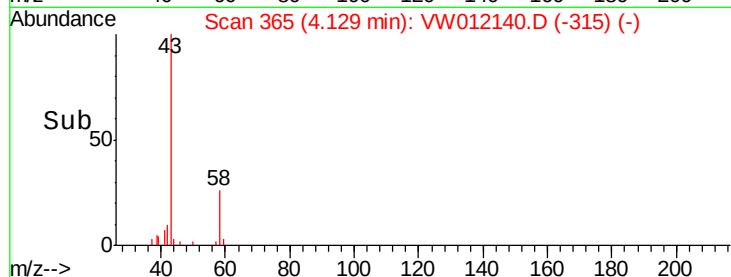
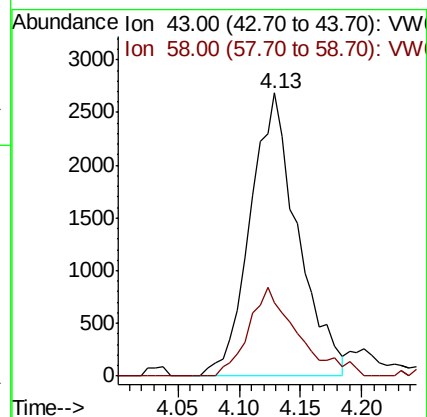
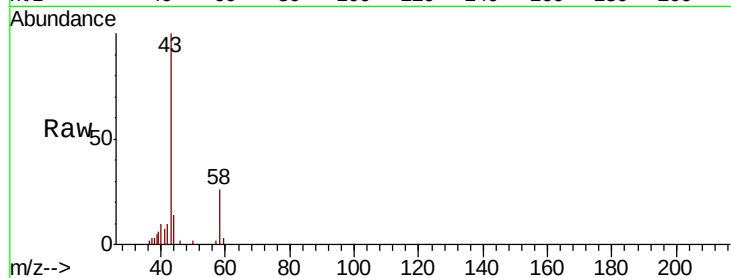




#16
Acetone
Concen: 101.884 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW012140.D
Acq: 23 Aug 2019 18:32

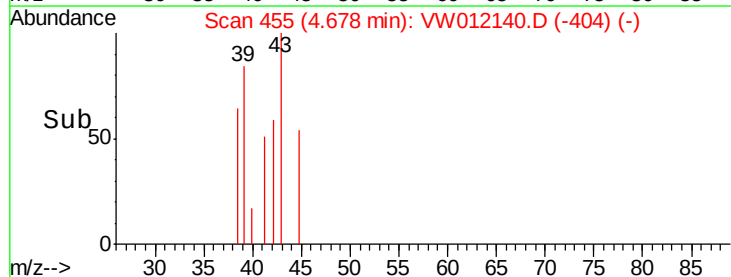
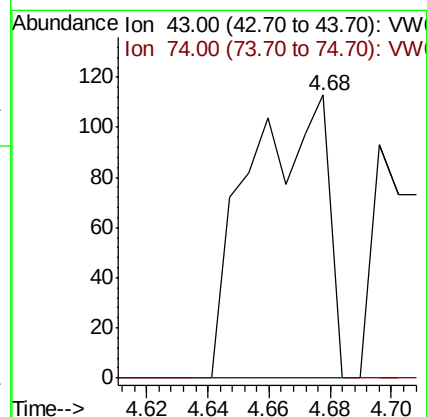
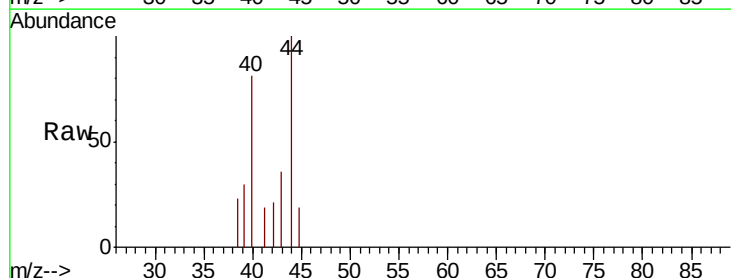
Instrument :
MSVOA_W
ClientSampleId :
T1-2-F1-(2.5)

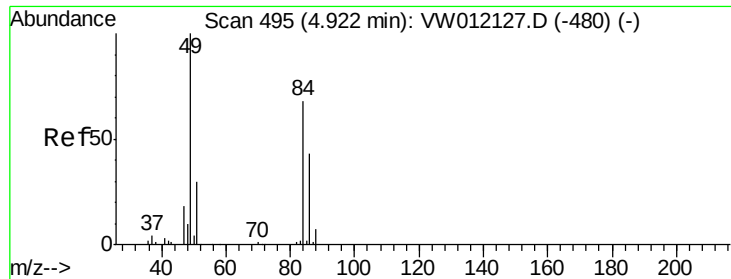
Tgt Ion: 43 Resp: 7278
Ion Ratio Lower Upper
43 100
58 26.0 22.4 33.6



#18
Methyl Acetate
Concen: 1.125 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW012140.D
Acq: 23 Aug 2019 18:32

Tgt Ion: 43 Resp: 199
Ion Ratio Lower Upper
43 100
74 0.0 15.7 23.5#

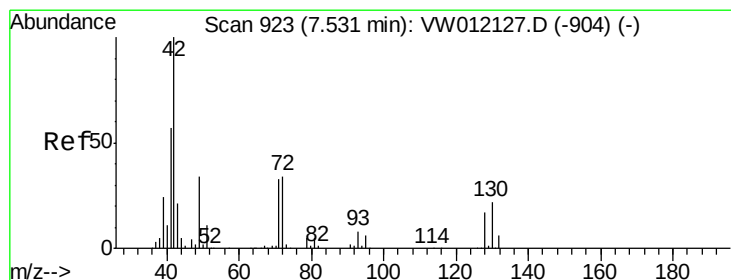
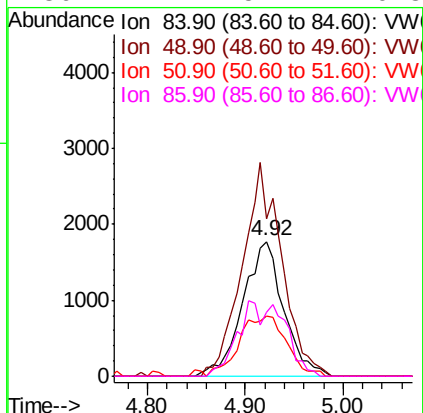
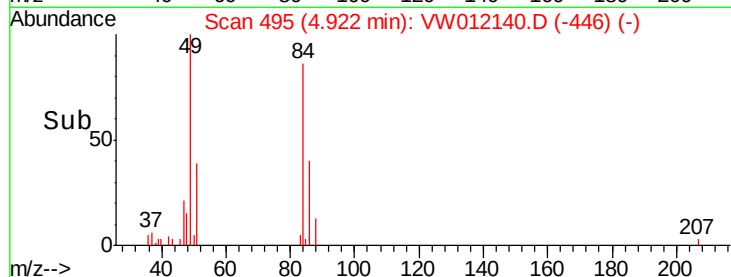
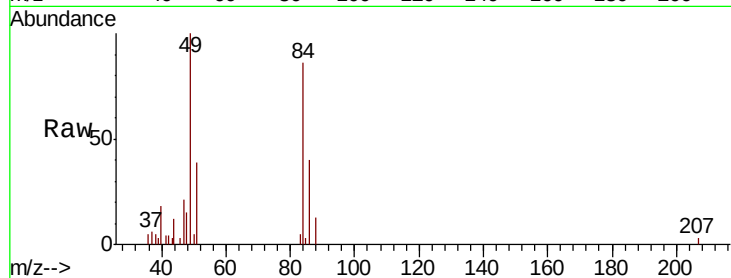




#20
Methylene Chloride
Concen: 19.111 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: VW012140.D
Acq: 23 Aug 2019 18:32

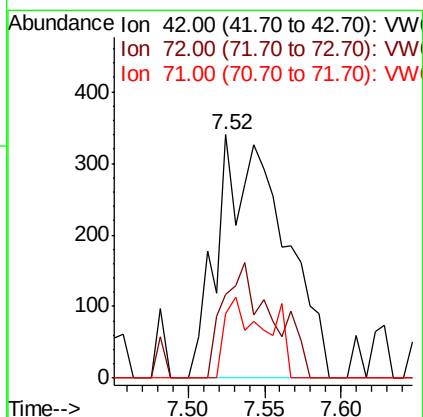
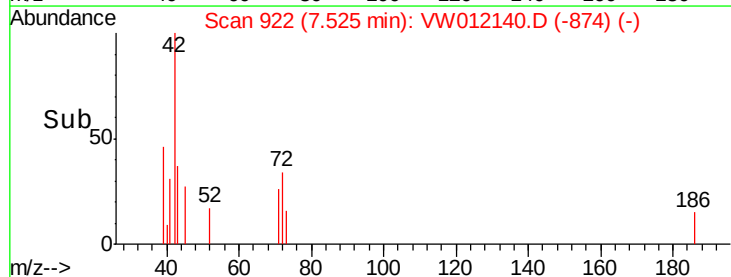
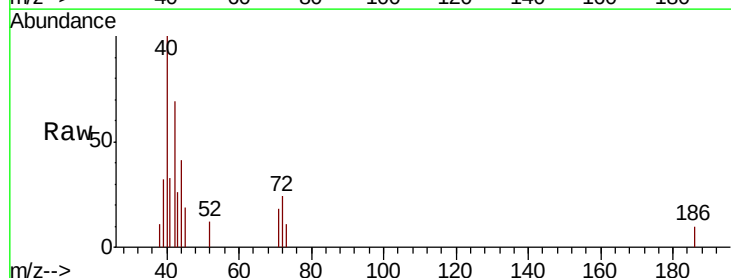
Instrument :
MSVOA_W
ClientSampleId :
T1-2-F1-(2.5)

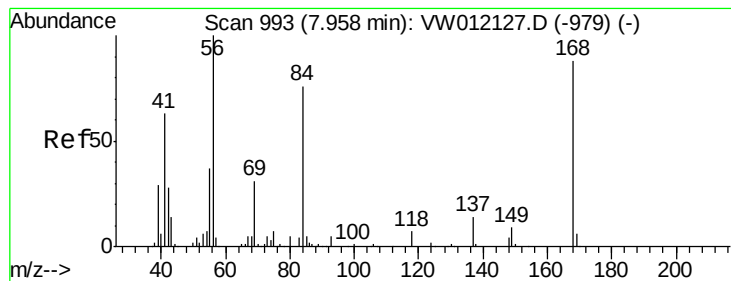
Tgt Ion: 84 Resp: 5161
Ion Ratio Lower Upper
84 100
49 116.9 117.8 176.8#
51 45.0 35.6 53.4
86 47.2 51.2 76.8#



#29
Tetrahydrofuran
Concen: 17.411 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.01 min
Lab File: VW012140.D
Acq: 23 Aug 2019 18:32

Tgt Ion: 42 Resp: 1014
Ion Ratio Lower Upper
42 100
72 35.2 27.3 40.9
71 20.8 25.5 38.3#





#31

Cyclohexane

Concen: 1.283 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012140.D

Acq: 23 Aug 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

T1-2-F1-(2.5)

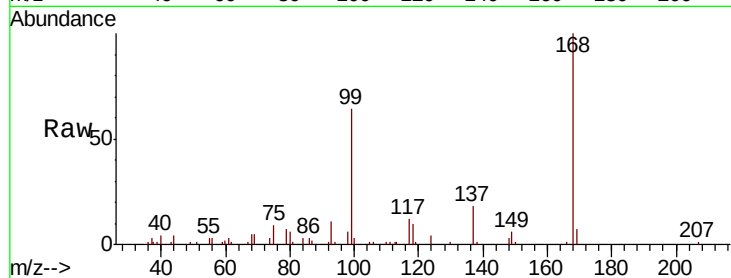
Tgt Ion: 56 Resp: 646

Ion Ratio Lower Upper

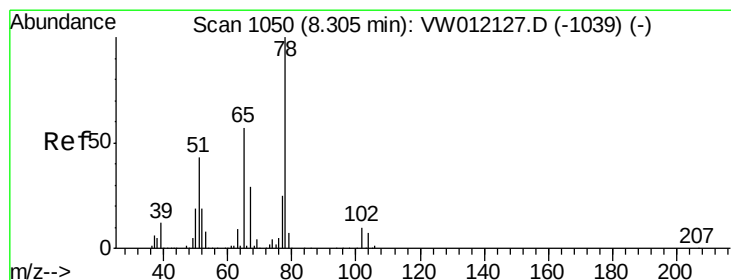
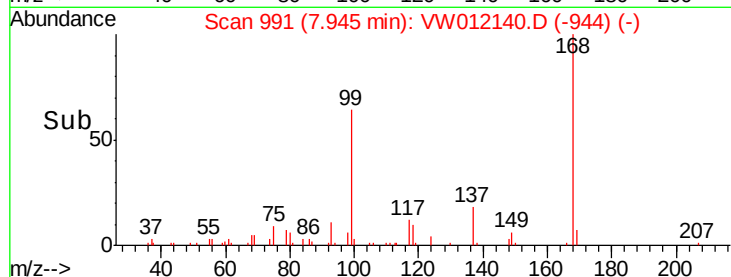
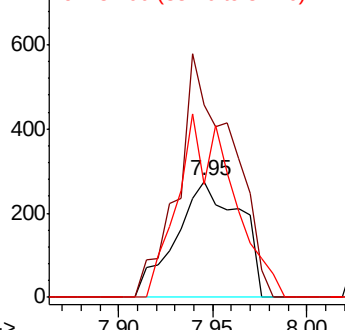
56 100

69 165.2 24.9 37.3#

84 97.1 60.6 90.8#



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: 59.234 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012140.D

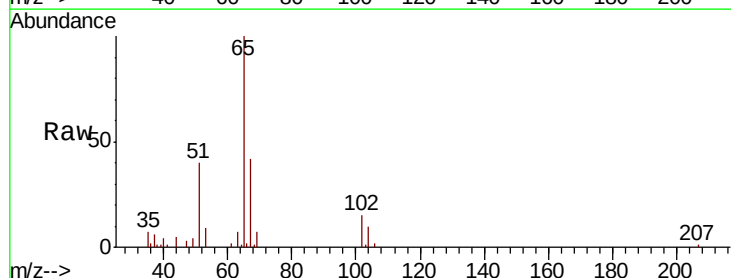
Acq: 23 Aug 2019 18:32

Tgt Ion: 65 Resp: 16553

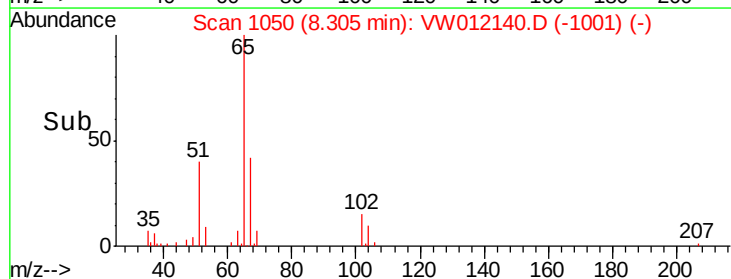
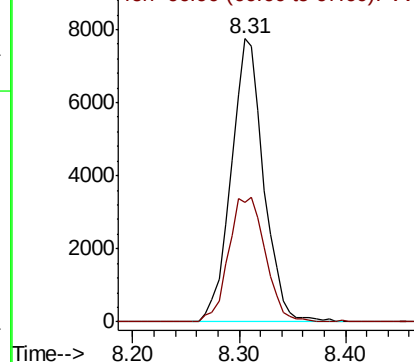
Ion Ratio Lower Upper

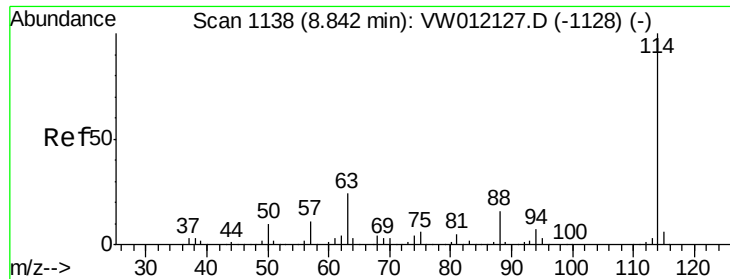
65 100

67 49.7 0.0 102.6



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

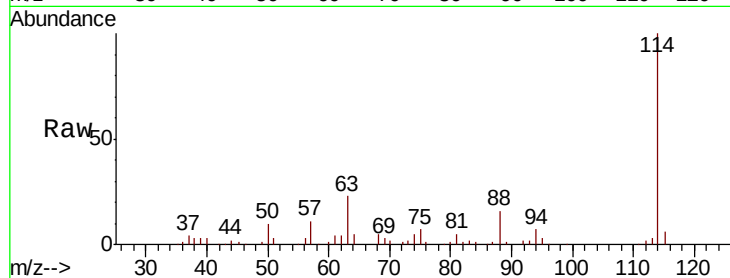




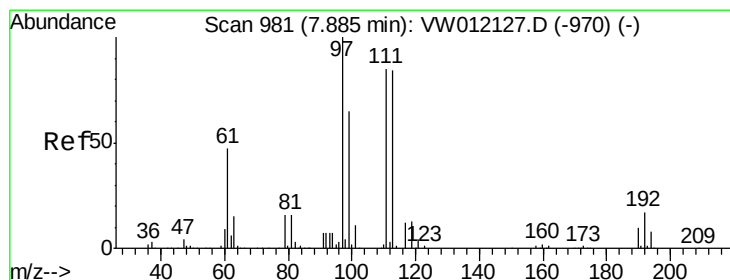
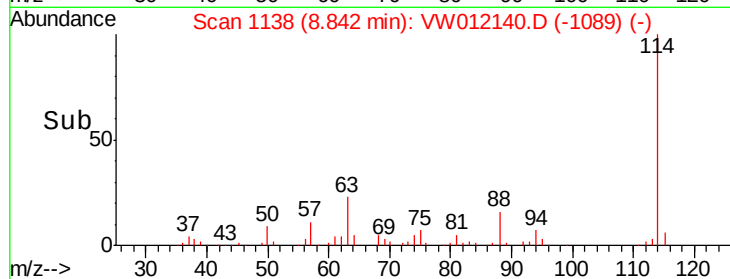
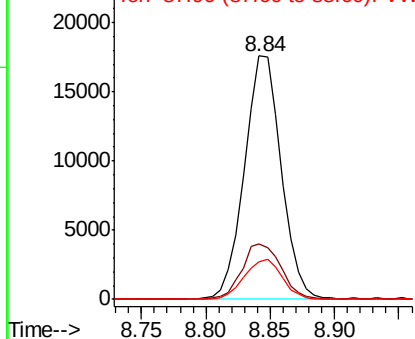
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012140.D
 Acq: 23 Aug 2019 18:32

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-2-F1-(2.5)

Tgt Ion:114 Resp: 34692
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 48.6
 88 15.6 0.0 32.2

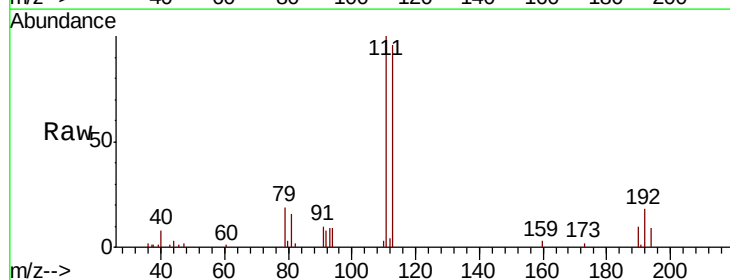


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

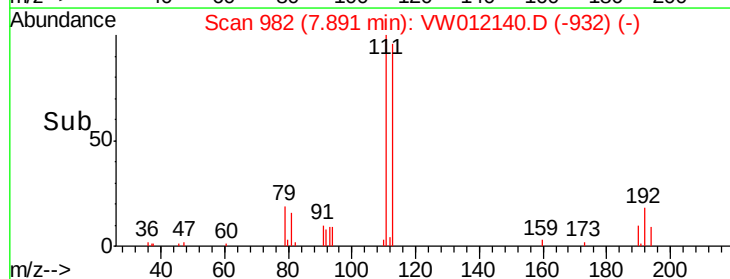
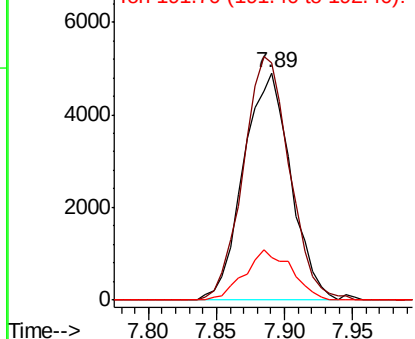


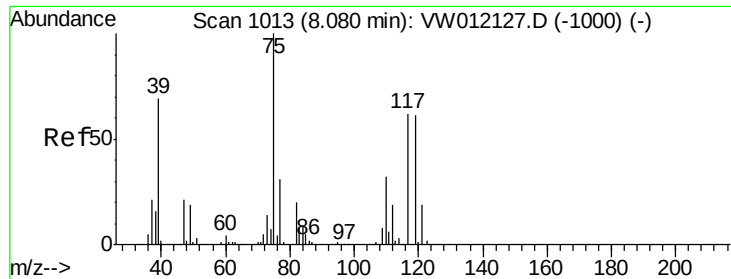
#35
 Dibromofluoromethane
 Concen: 57.669 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW012140.D
 Acq: 23 Aug 2019 18:32

Tgt Ion:113 Resp: 11942
 Ion Ratio Lower Upper
 113 100
 111 104.6 82.7 124.1
 192 21.8 16.2 24.2



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

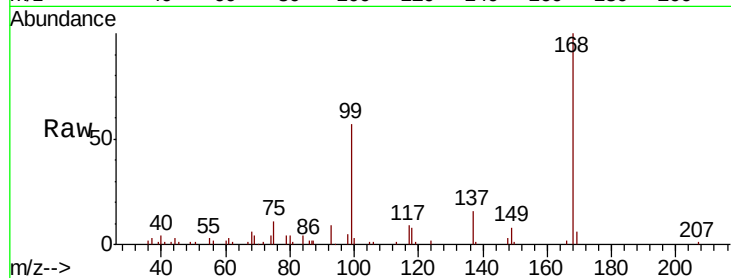




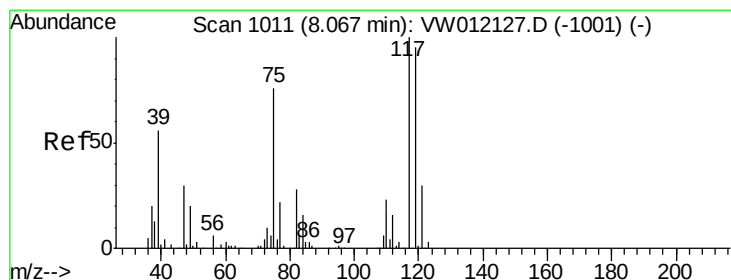
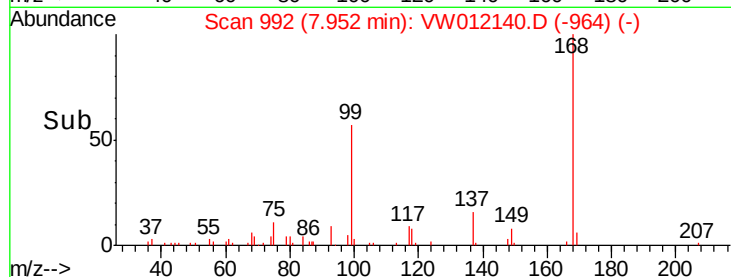
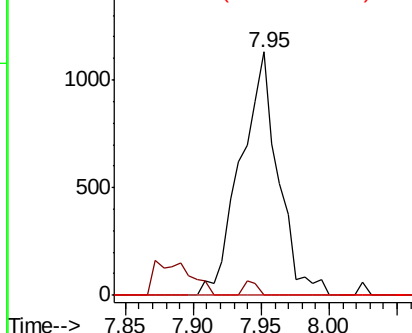
#36
 1,1-Dichloropropene
 Concen: 6.098 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW012140.D
 Acq: 23 Aug 2019 18:32

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-2-F1-(2.5)

Tgt Ion: 75 Resp: 2186
 Ion Ratio Lower Upper
 75 100
 110 2.0 15.6 46.8#
 77 0.0 24.6 36.8#

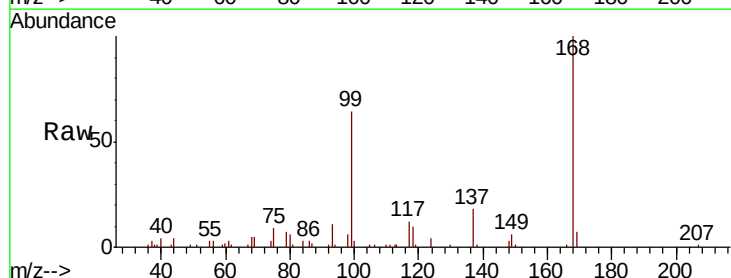


Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

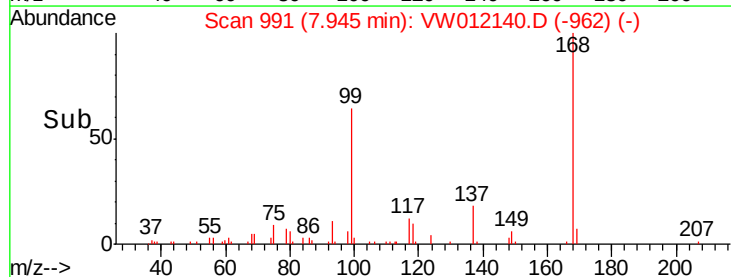
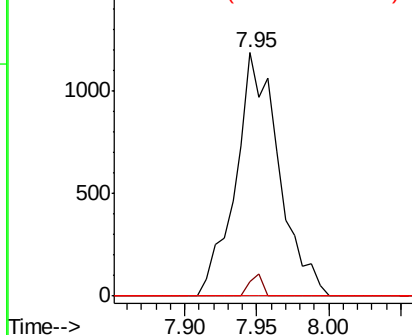


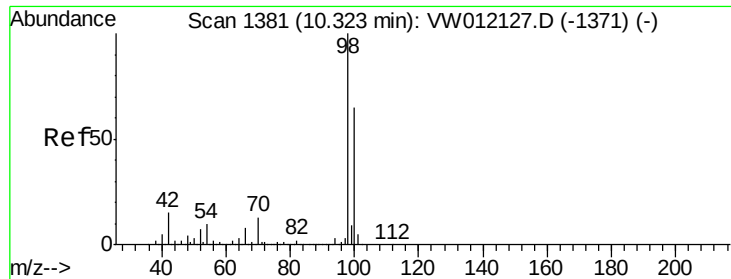
#38
 Carbon Tetrachloride
 Concen: 7.970 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012140.D
 Acq: 23 Aug 2019 18:32

Tgt Ion: 117 Resp: 2473
 Ion Ratio Lower Upper
 117 100
 119 6.1 76.2 114.2#
 121 0.0 23.8 35.8#



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

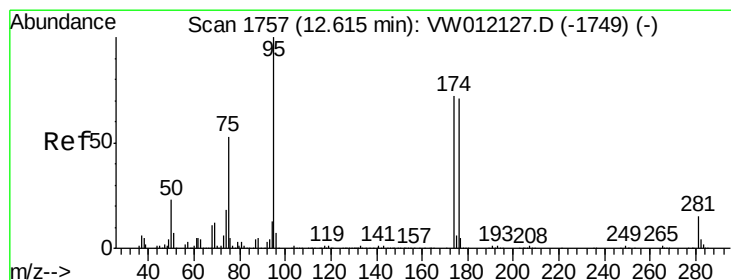
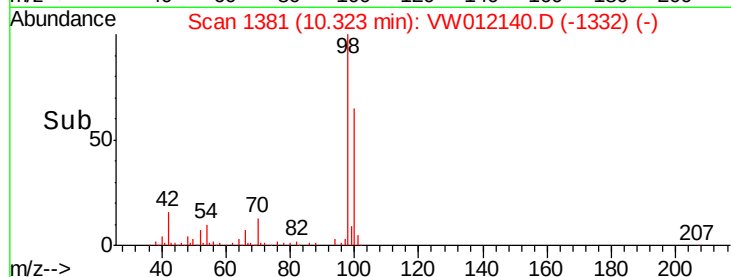
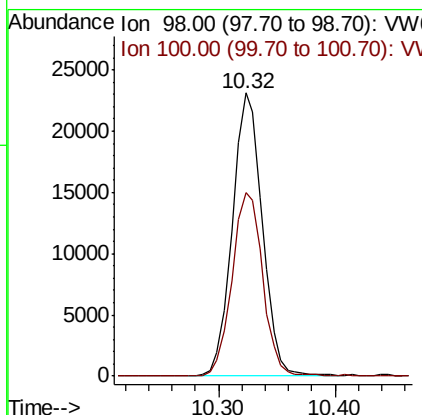
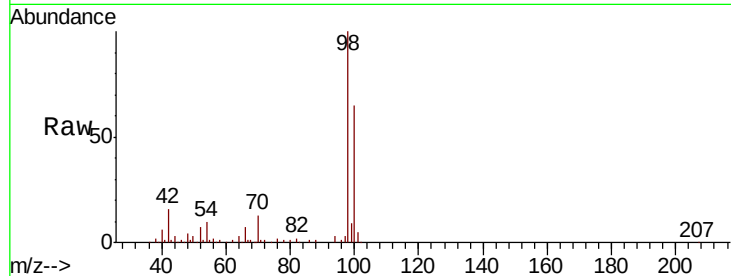




#50
Toluene-d8
Concen: 49.358 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012140.D
Acq: 23 Aug 2019 18:32

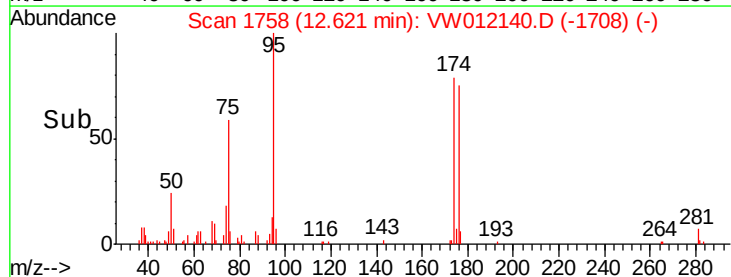
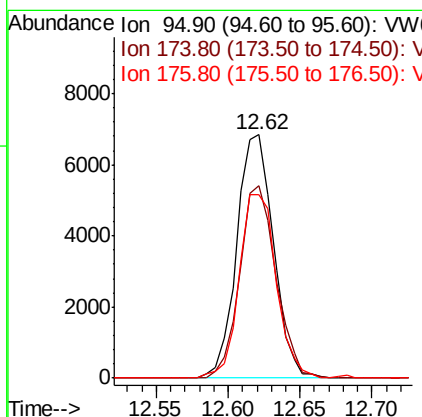
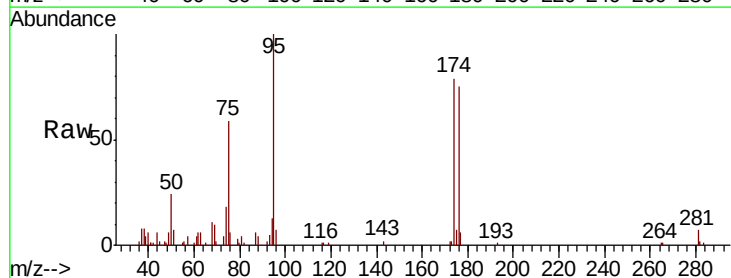
Instrument :
MSVOA_W
ClientSampleId :
T1-2-F1-(2.5)

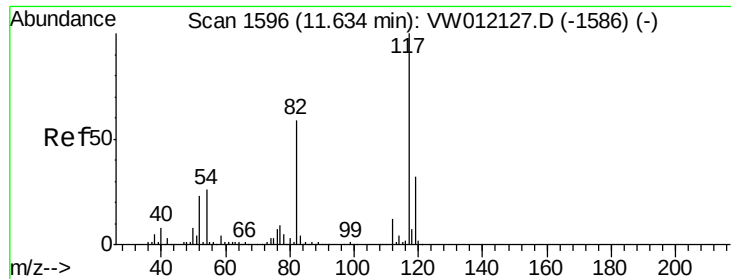
Tgt Ion: 98 Resp: 41443
Ion Ratio Lower Upper
98 100
100 66.2 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 40.852 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.01 min
Lab File: VW012140.D
Acq: 23 Aug 2019 18:32

Tgt Ion: 95 Resp: 12091
Ion Ratio Lower Upper
95 100
174 78.0 0.0 150.8
176 75.9 0.0 148.6

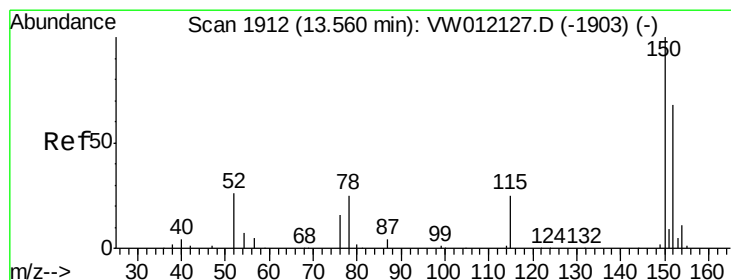
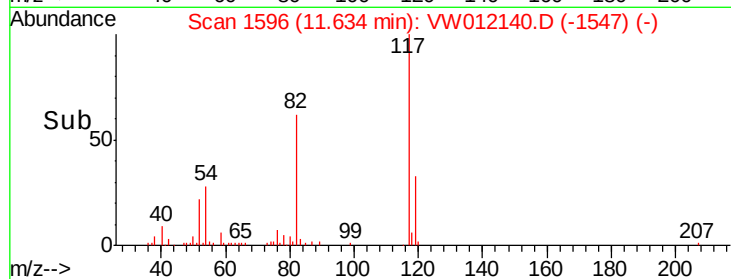
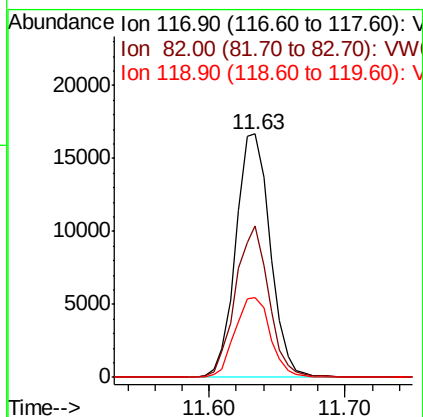
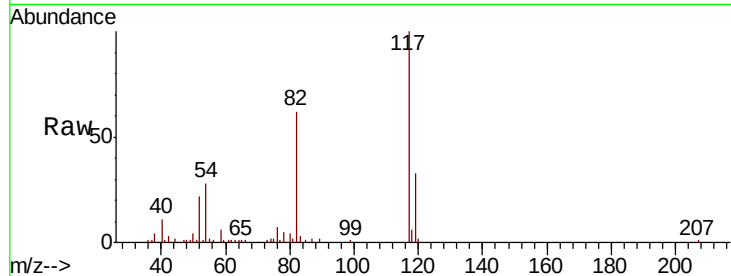




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012140.D
Acq: 23 Aug 2019 18:32

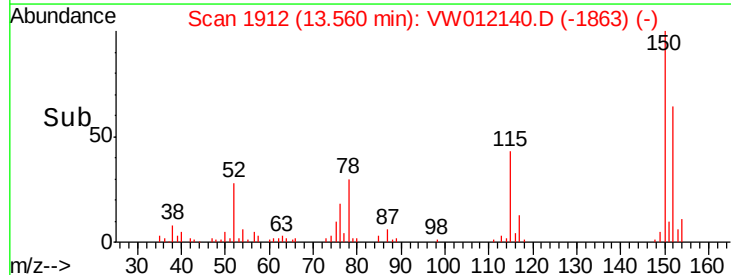
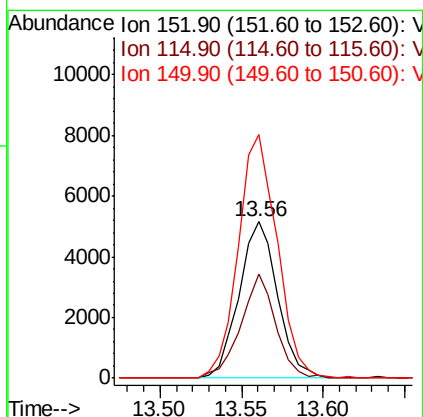
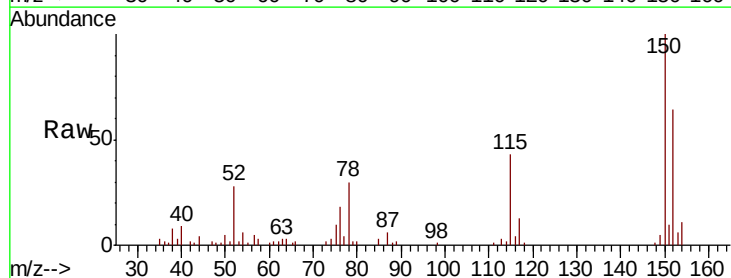
Instrument :
MSVOA_W
ClientSampleId :
T1-2-F1-(2.5)

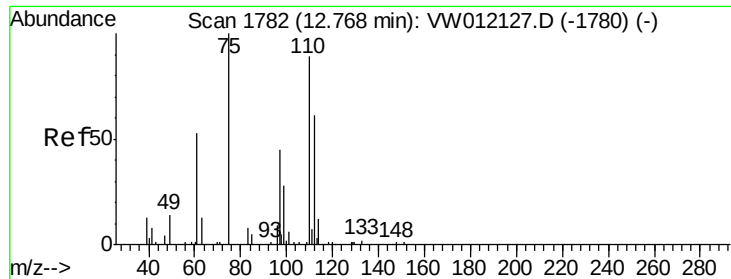
Tgt Ion:117 Resp: 29502
Ion Ratio Lower Upper
117 100
82 62.4 47.4 71.2
119 32.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012140.D
Acq: 23 Aug 2019 18:32

Tgt Ion:152 Resp: 8499
Ion Ratio Lower Upper
152 100
115 59.9 30.1 90.3
150 156.4 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 80.303 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012140.D

Acq: 23 Aug 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

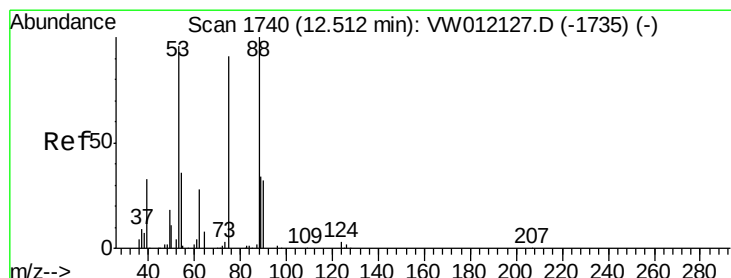
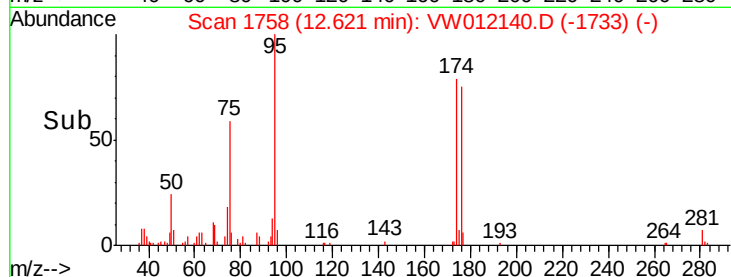
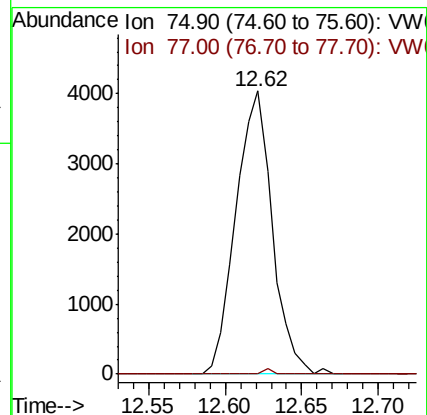
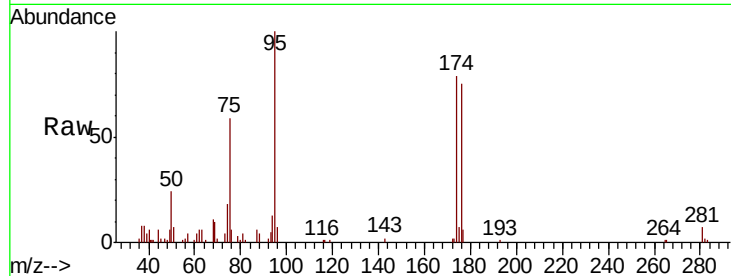
T1-2-F1-(2.5)

Tgt Ion: 75 Resp: 6647

Ion Ratio Lower Upper

75 100

77 0.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 176.067 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012140.D

Acq: 23 Aug 2019 18:32

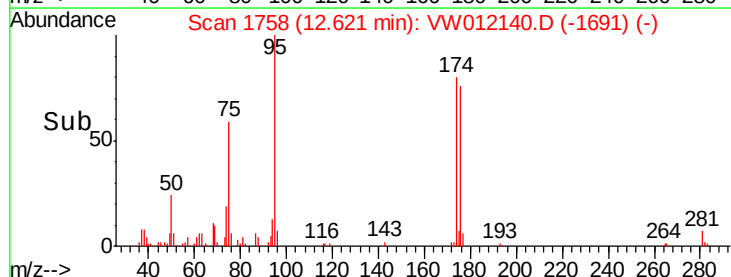
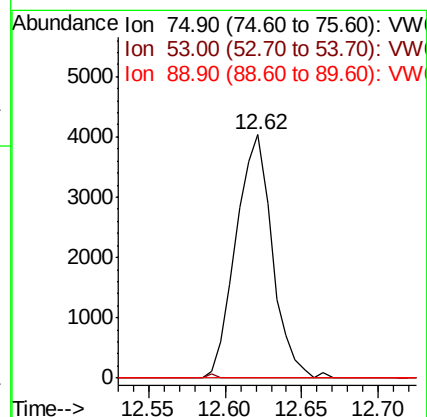
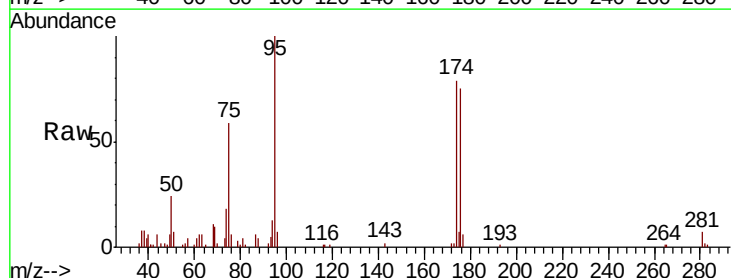
Tgt Ion: 75 Resp: 6647

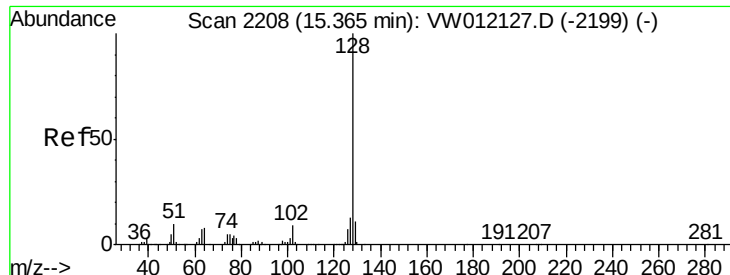
Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 4.697 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012140.D

Acq: 23 Aug 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

T1-2-F1-(2.5)

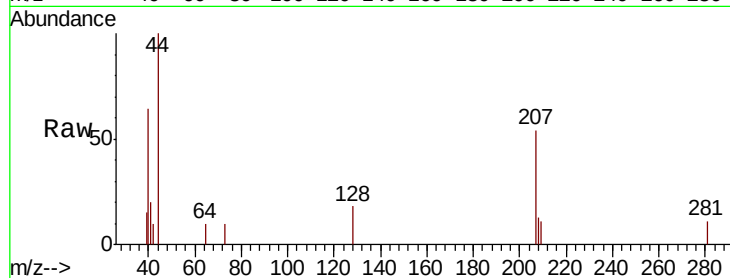
Tgt Ion:128 Resp: 132

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 15.2 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

