

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090219\
 Data File : VW012498.D
 Acq On : 02 Sep 2019 14:53
 Operator : SY/VA
 Sample : K4528-16RE
 Misc : 5.52G/5ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-S2-(1.9)RE

Quant Time: Sep 03 07:39:30 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	162936	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	256573	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	174162	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	45519	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	99637	51.44	ug/l	0.00
Spiked Amount			Recovery	=	102.88%	
35) Dibromofluoromethane	7.88	113	78521	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
50) Toluene-d8	10.32	98	296632	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
62) 4-Bromofluorobenzene	12.62	95	83656	38.22	ug/l	0.00
Spiked Amount			Recovery	=	76.44%	

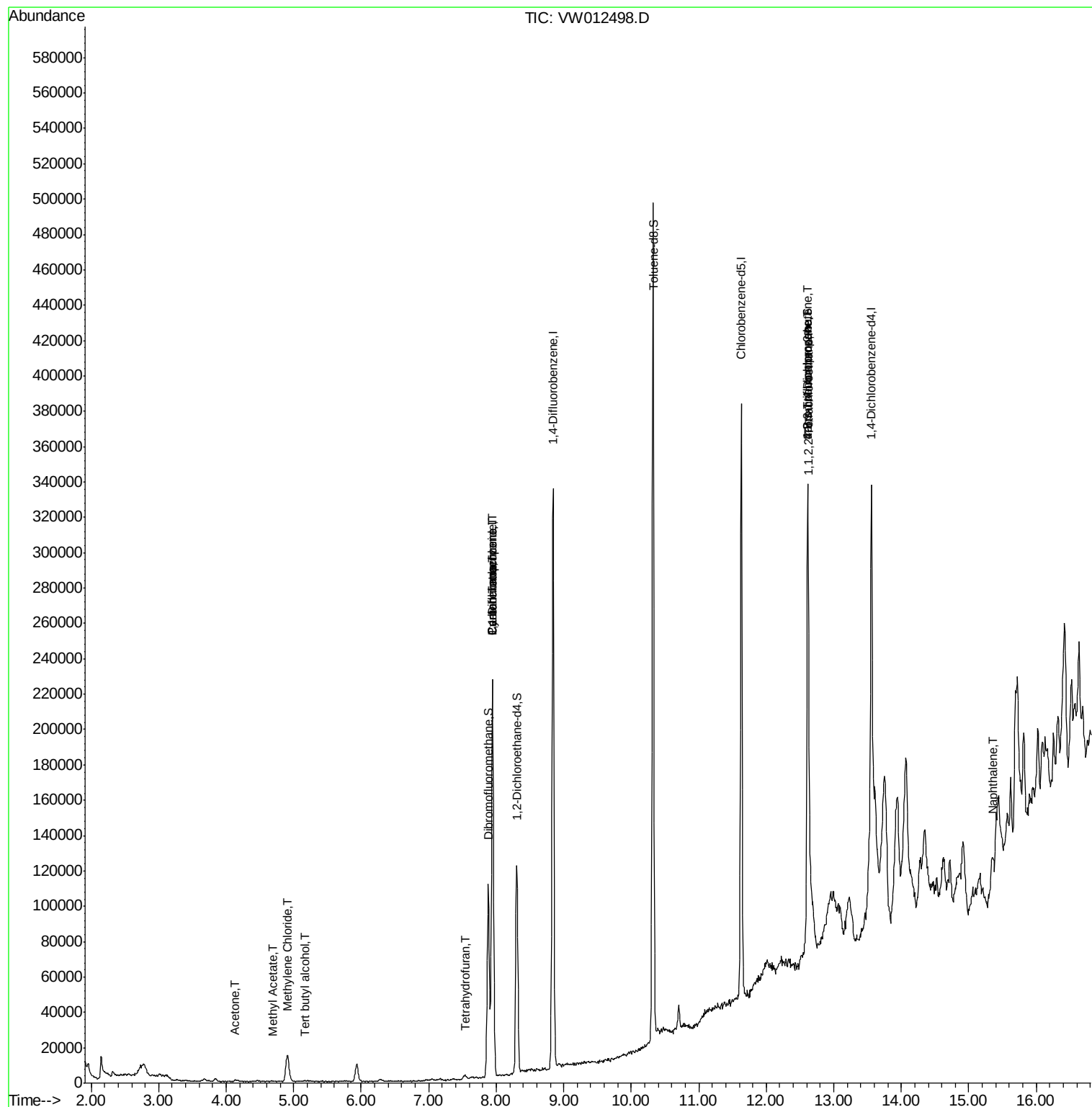
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	298	2.557	ug/l #	71
16) Acetone	4.14	43	2225	4.494	ug/l	98
18) Methyl Acetate	4.69	43	1308	1.067	ug/l #	69
20) Methylene Chloride	4.90	84	11298	6.036	ug/l	95
29) Tetrahydrofuran	7.53	42	2524	6.253	ug/l #	89
31) Cyclohexane	7.94	56	4215	1.208	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	14634	5.519	ug/l #	55
38) Carbon Tetrachloride	7.95	117	17121	7.461	ug/l #	16
75) 1,1,2,2-Tetrachloroethane	12.63	83	16918	27.056	ug/l #	31
76) 1,2,3-Trichloropropane	12.62	75	38115	85.976	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	38115	188.505	ug/l #	6
95) Naphthalene	15.36	128	597	4.639	ug/l #	82

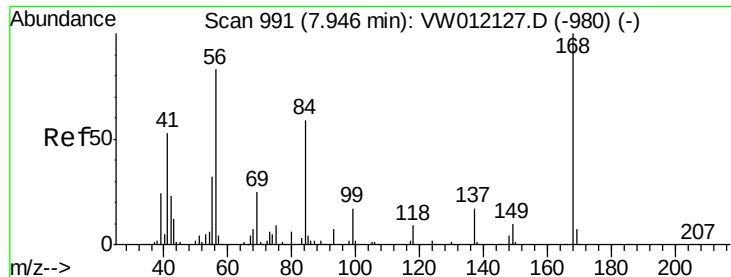
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012498.D

Acq: 02 Sep 2019 14:53

Instrument :

MSVOA_W

ClientSampleId :

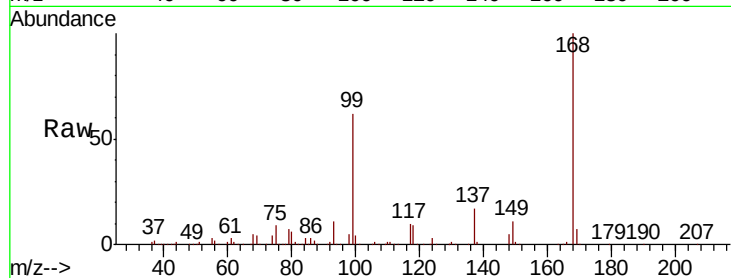
T9-12-13-S2-(1.9)RE

Tgt Ion:168 Resp: 162936

Ion Ratio Lower Upper

168 100

99 61.8 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

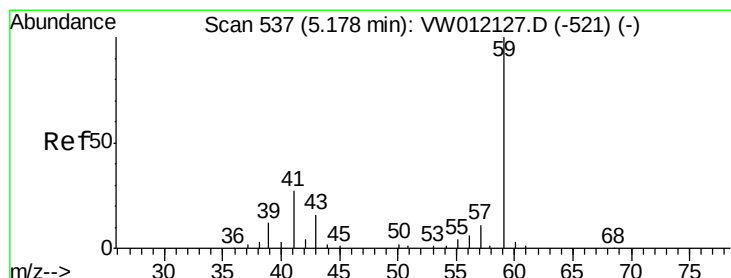
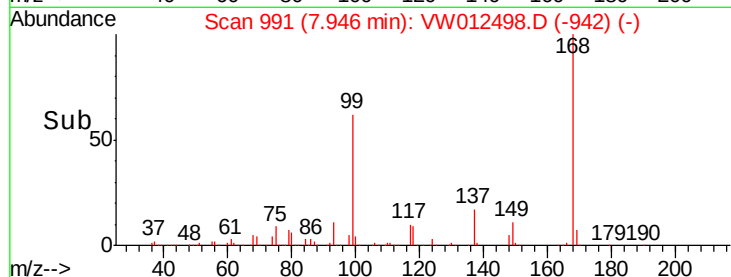
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#11

Tert butyl alcohol

Concen: 2.557 ug/l

RT: 5.17 min Scan# 536

Delta R.T. -0.01 min

Lab File: VW012498.D

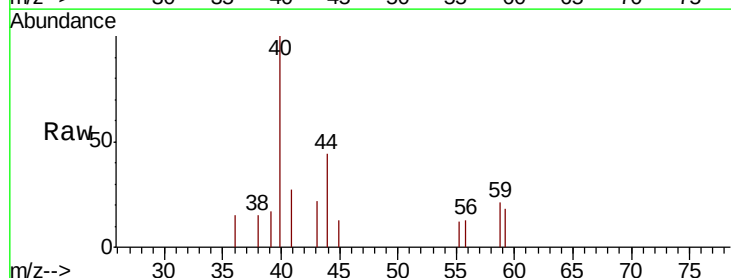
Acq: 02 Sep 2019 14:53

Tgt Ion: 59 Resp: 298

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

250

200

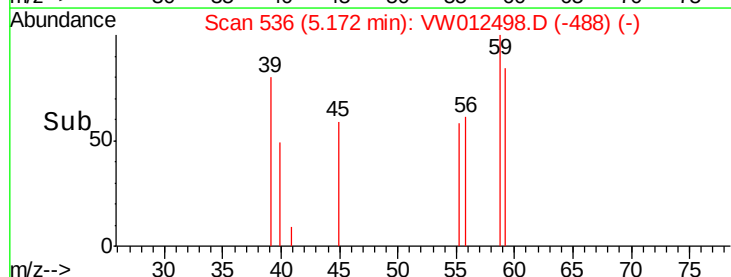
150

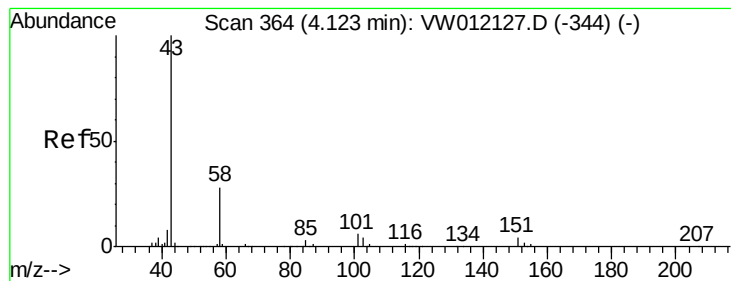
100

50

0

Time--> 5.10 5.15





#16

Acetone

Concen: 4.494 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

Instrument :

MSVOA_W

ClientSampleId :

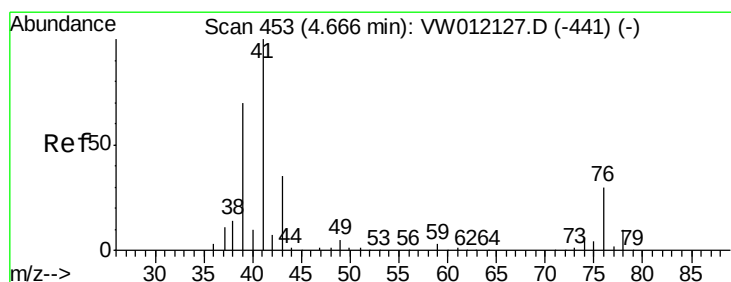
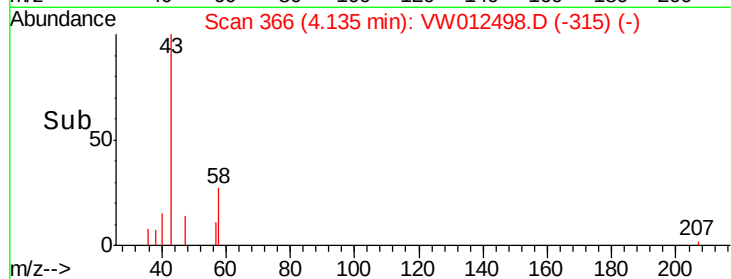
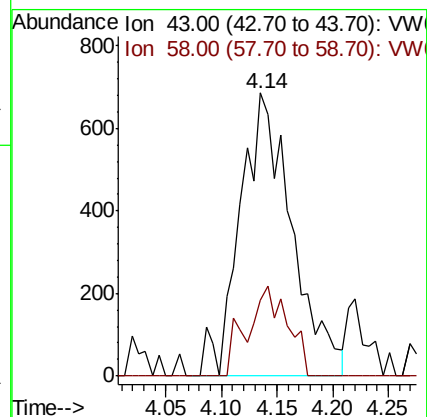
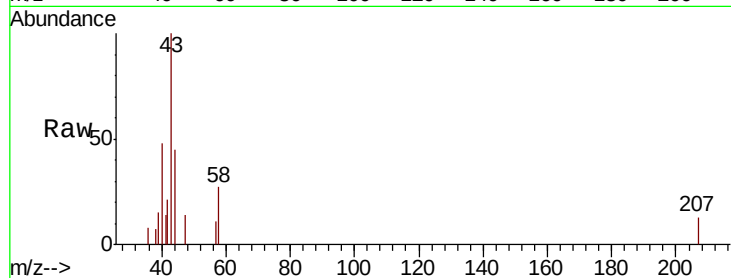
T9-12-13-S2-(1.9)RE

Tgt Ion: 43 Resp: 2225

Ion Ratio Lower Upper

43 100

58 27.0 22.4 33.6



#18

Methyl Acetate

Concen: 1.067 ug/l

RT: 4.69 min Scan# 457

Delta R.T. 0.02 min

Lab File: VW012498.D

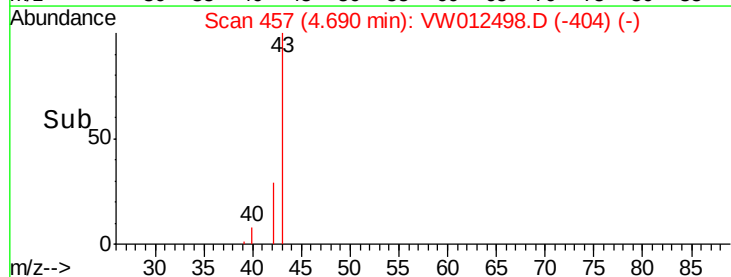
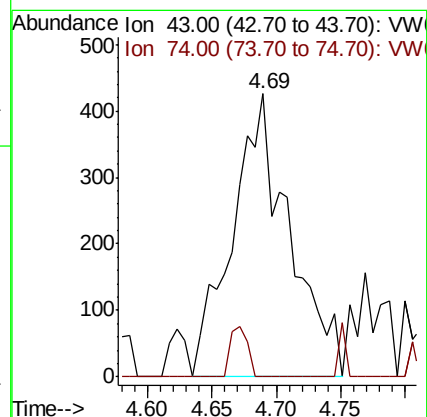
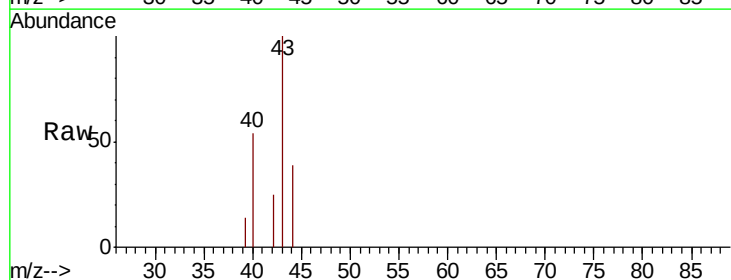
Acq: 02 Sep 2019 14:53

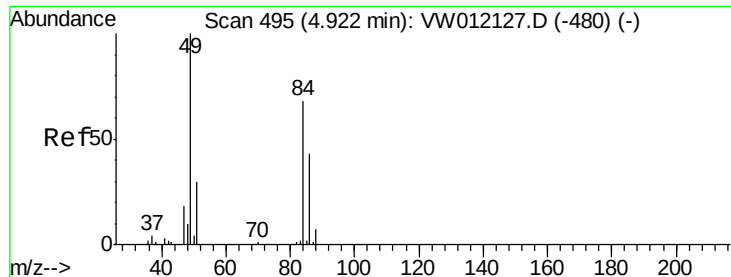
Tgt Ion: 43 Resp: 1308

Ion Ratio Lower Upper

43 100

74 5.4 15.7 23.5#

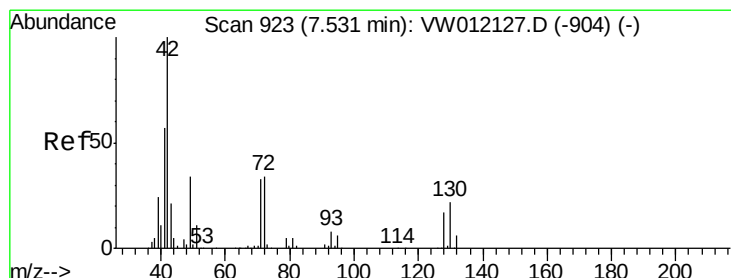
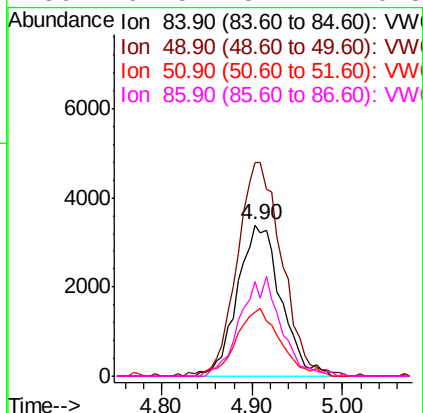
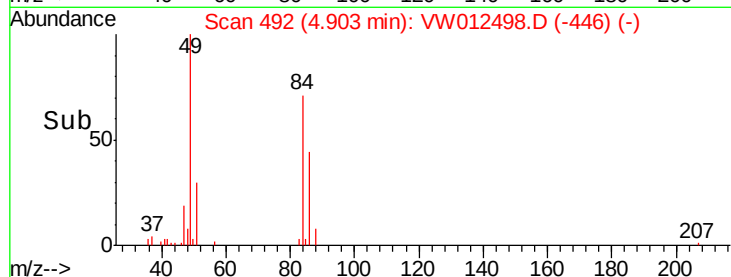
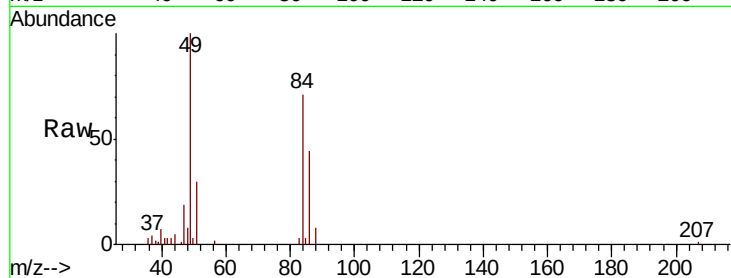




#20
Methylene Chloride
Concen: 6.036 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.02 min
Lab File: VW012498.D
Acq: 02 Sep 2019 14:53

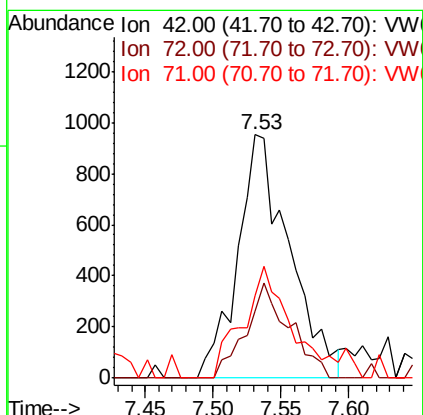
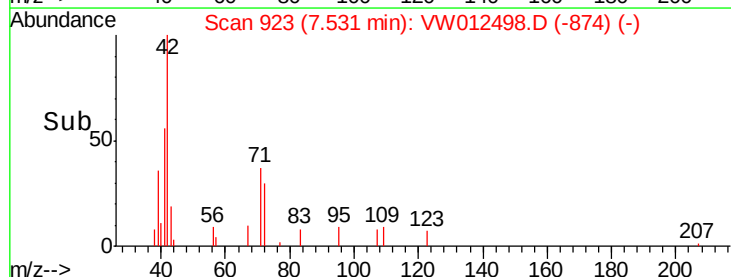
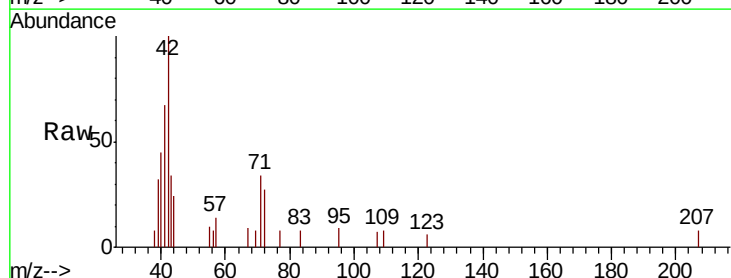
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-S2-(1.9)RE

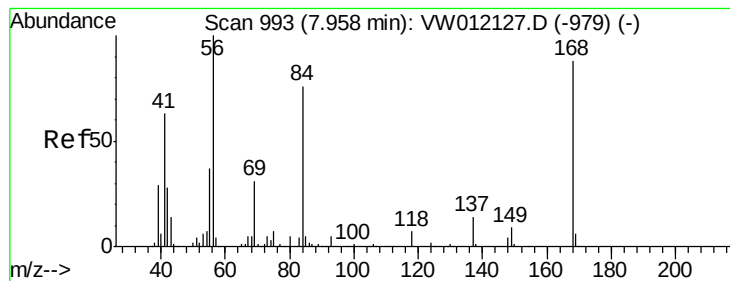
Tgt Ion: 84 Resp: 11298
Ion Ratio Lower Upper
84 100
49 138.4 117.8 176.8
51 42.4 35.6 53.4
86 62.5 51.2 76.8



#29
Tetrahydrofuran
Concen: 6.253 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW012498.D
Acq: 02 Sep 2019 14:53

Tgt Ion: 42 Resp: 2524
Ion Ratio Lower Upper
42 100
72 32.9 27.3 40.9
71 43.1 25.5 38.3#





#31

Cyclohexane

Concen: 1.208 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-S2-(1.9)RE

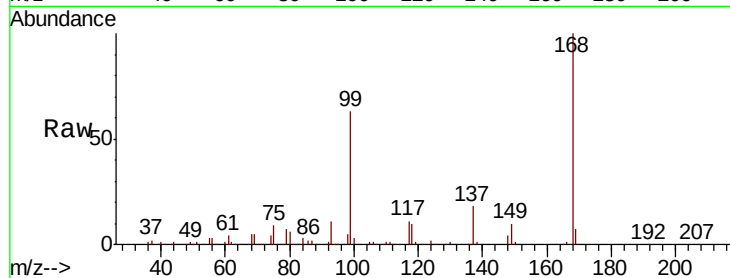
Tgt Ion: 56 Resp: 4215

Ion Ratio Lower Upper

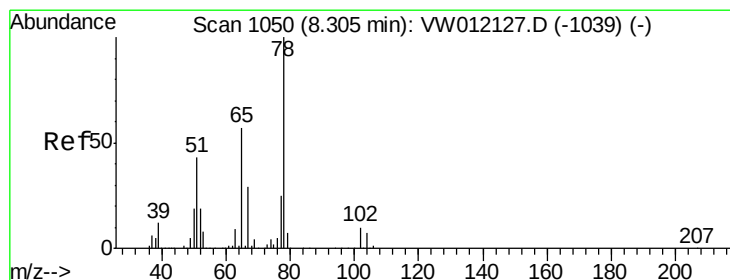
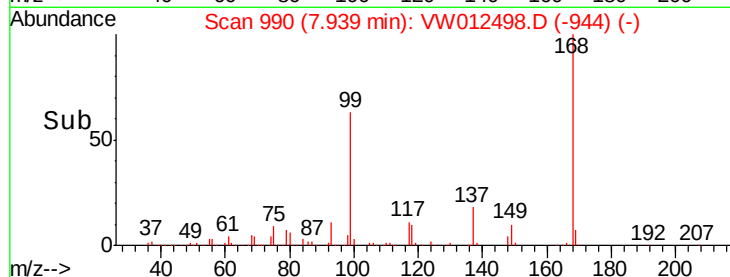
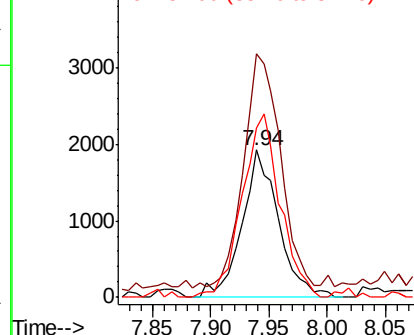
56 100

69 158.6 24.9 37.3#

84 114.8 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: 51.441 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012498.D

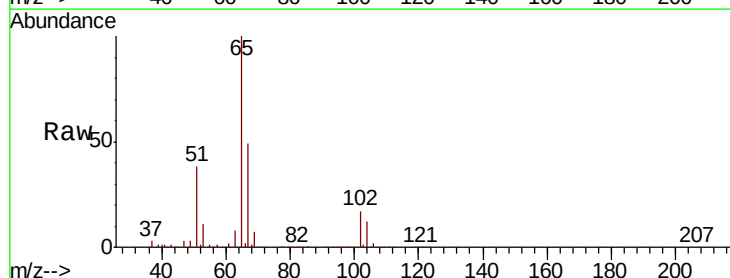
Acq: 02 Sep 2019 14:53

Tgt Ion: 65 Resp: 99637

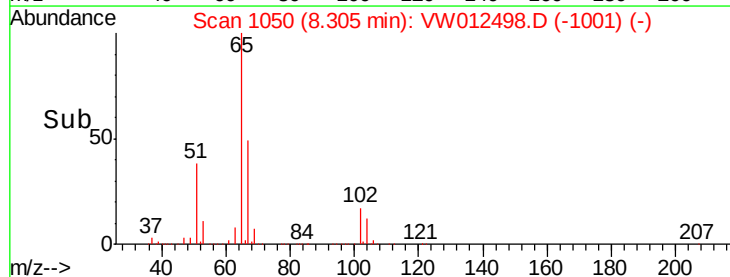
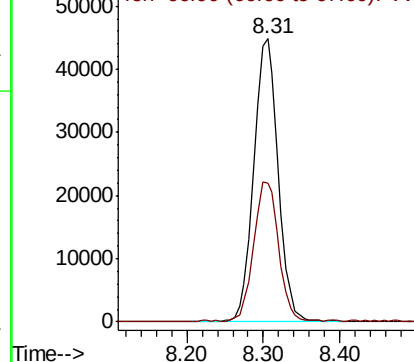
Ion Ratio Lower Upper

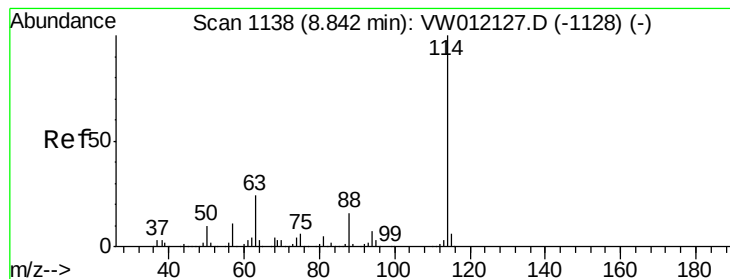
65 100

67 50.2 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: VW012498.D

Acq: 02 Sep 2019 14:53

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T9-12-13-S2-(1.9)RE

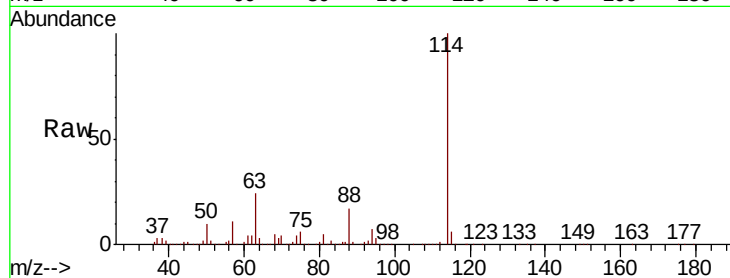
Tgt Ion:114 Resp: 256573

Ion Ratio Lower Upper

114 100

63 24.4 0.0 48.6

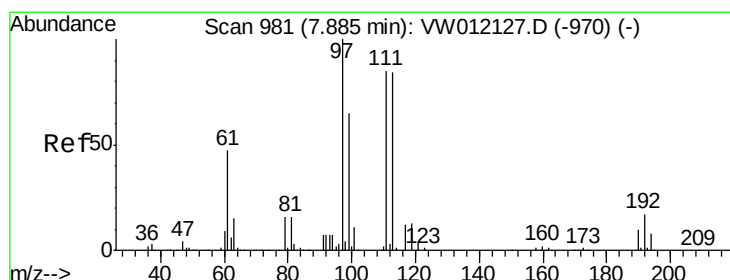
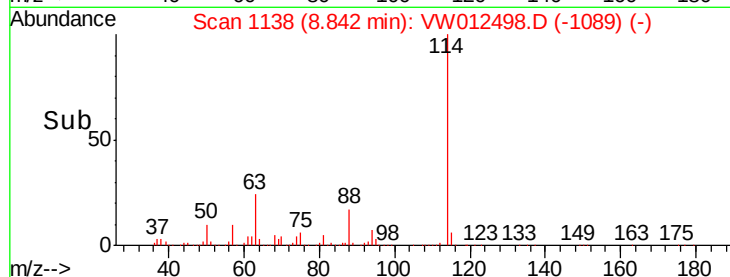
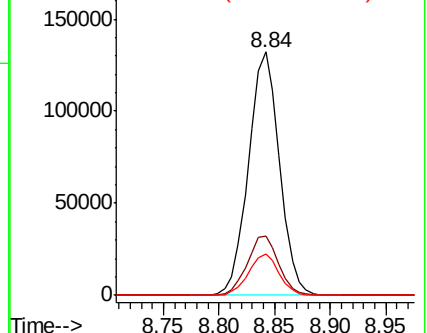
88 16.9 0.0 32.2



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: 51.271 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

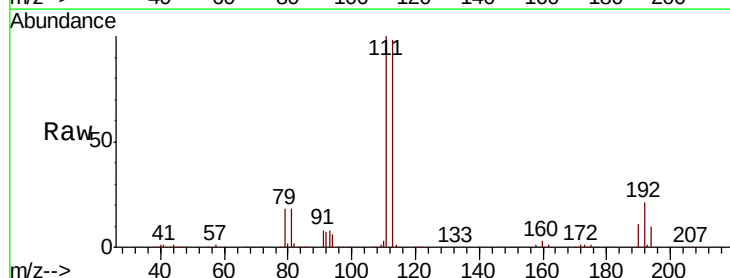
Tgt Ion:113 Resp: 78521

Ion Ratio Lower Upper

113 100

111 102.5 82.7 124.1

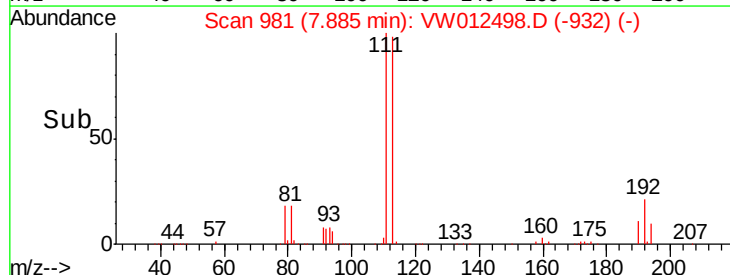
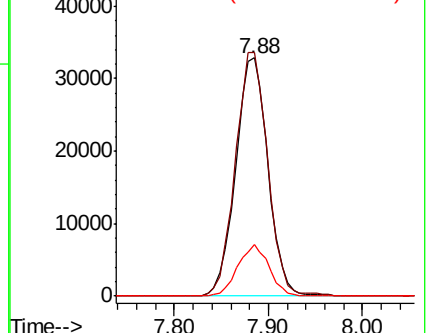
192 21.0 16.2 24.2

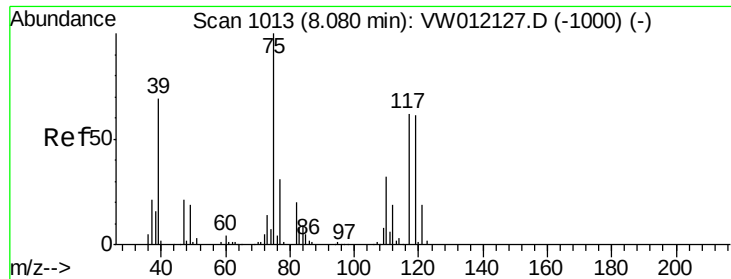


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.519 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

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T9-12-13-S2-(1.9)RE

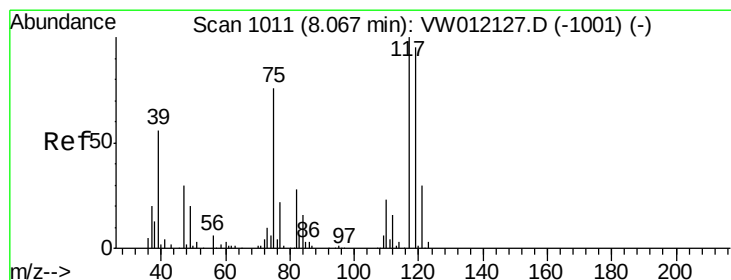
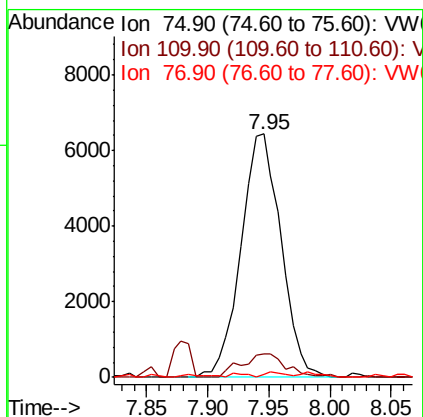
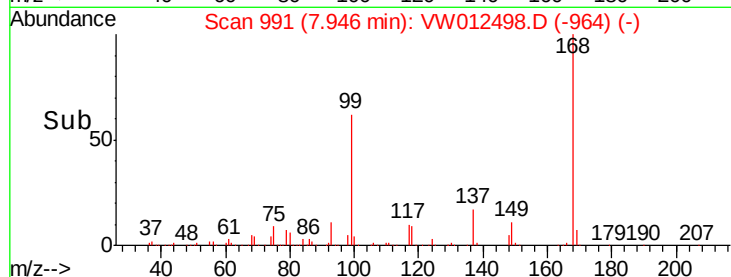
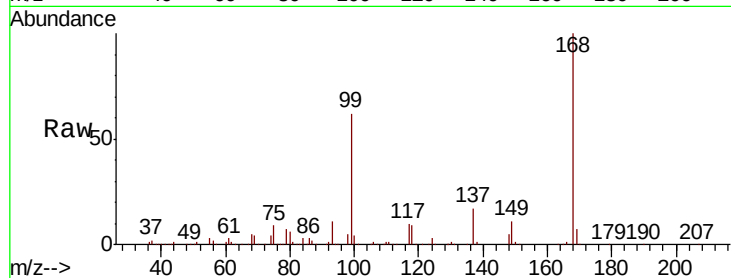
Tgt Ion: 75 Resp: 14634

Ion Ratio Lower Upper

75 100

110 10.9 15.6 46.8#

77 1.2 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 7.461 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

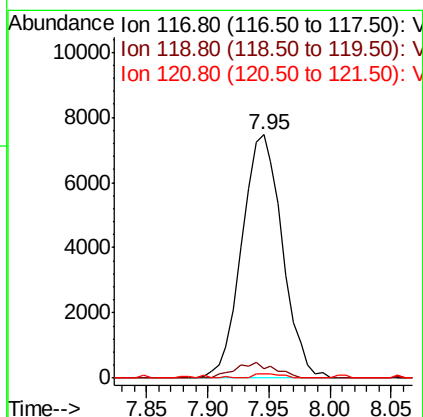
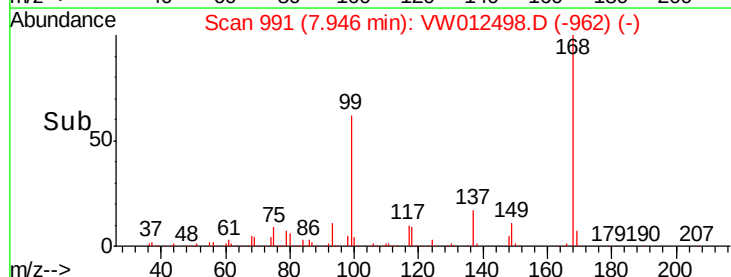
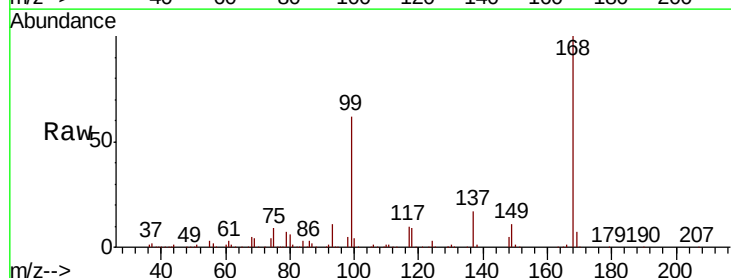
Tgt Ion: 117 Resp: 17121

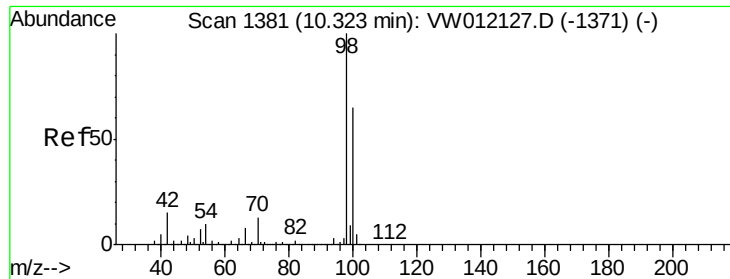
Ion Ratio Lower Upper

117 100

119 3.8 76.2 114.2#

121 0.8 23.8 35.8#





#50

Toluene-d8

Concen: 47.769 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

Instrument :

MSVOA_W

ClientSampleId :

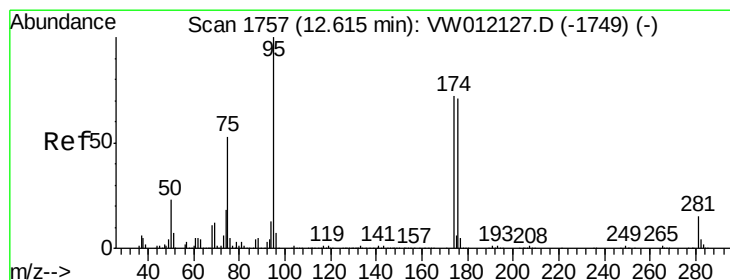
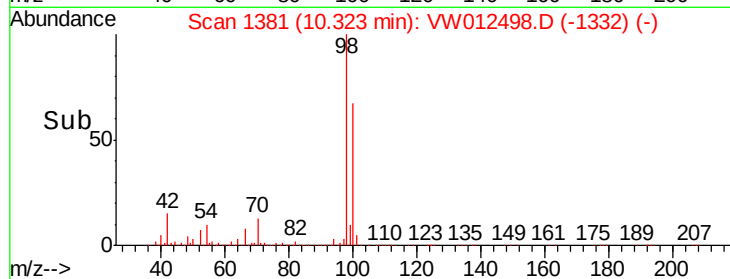
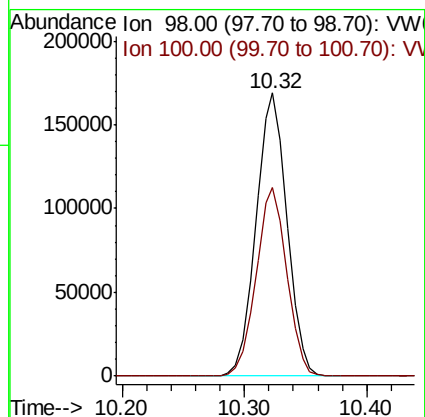
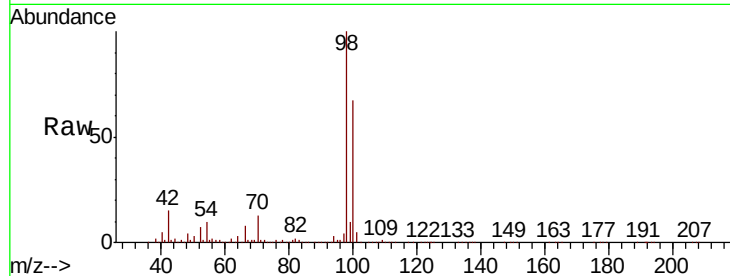
T9-12-13-S2-(1.9)RE

Tgt Ion: 98 Resp: 296632

Ion Ratio Lower Upper

98 100

100 66.2 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 38.218 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

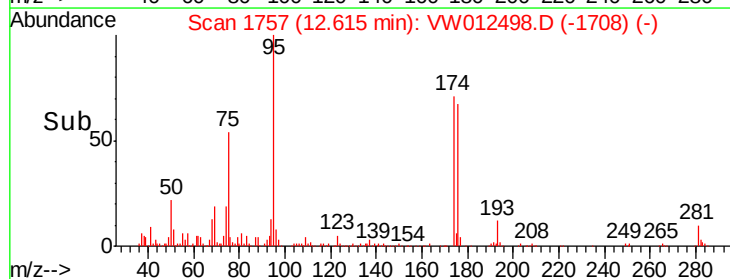
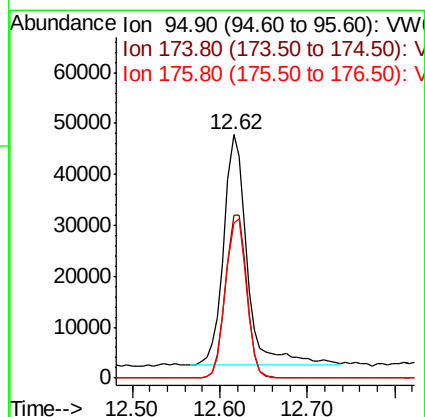
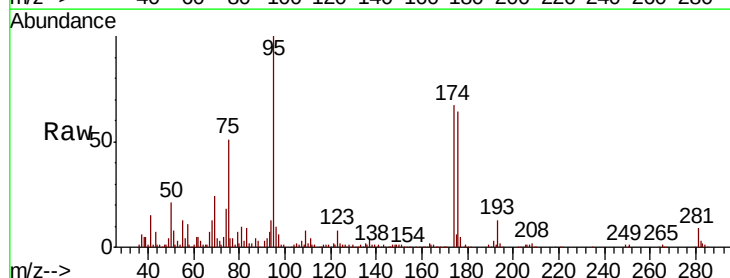
Tgt Ion: 95 Resp: 83656

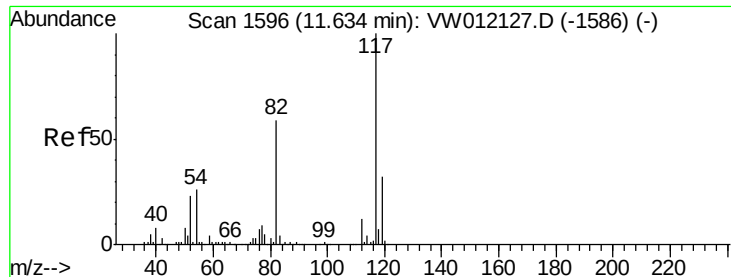
Ion Ratio Lower Upper

95 100

174 64.8 0.0 150.8

176 63.0 0.0 148.6

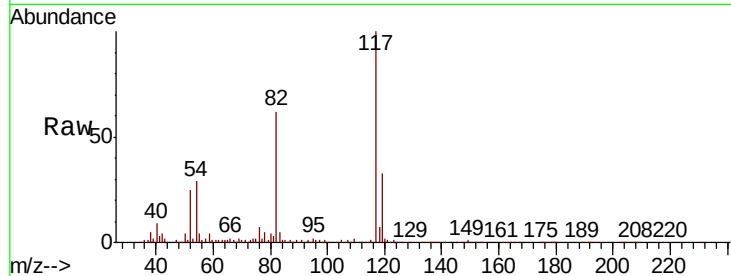




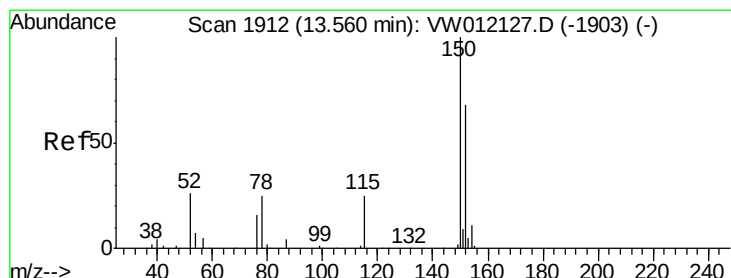
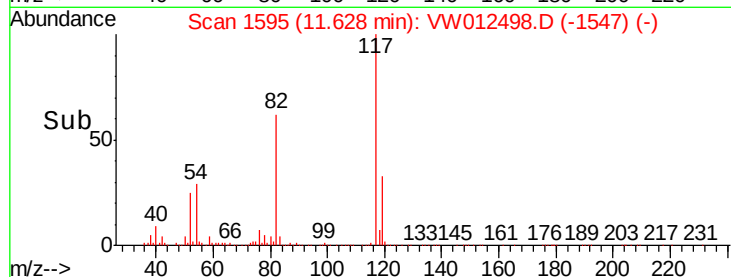
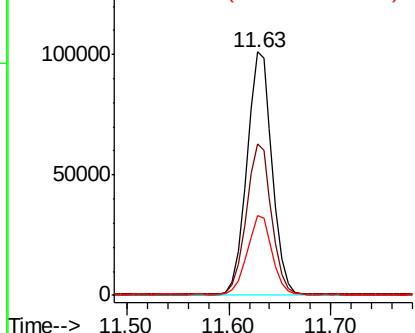
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012498.D
Acq: 02 Sep 2019 14:53

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-S2-(1.9)RE

Tgt Ion:117 Resp: 174162
Ion Ratio Lower Upper
117 100
82 61.8 47.4 71.2
119 32.3 25.4 38.2

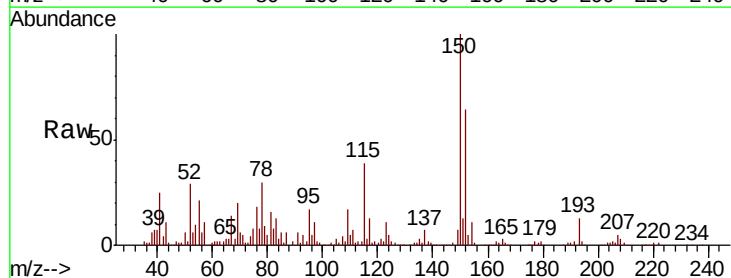


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

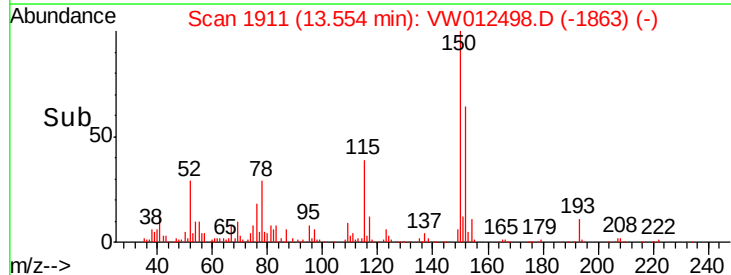
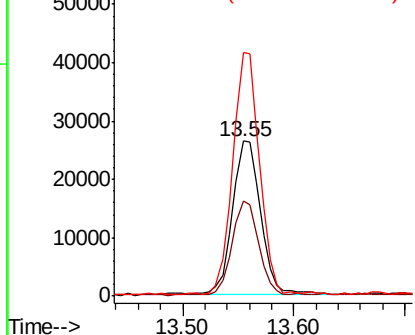


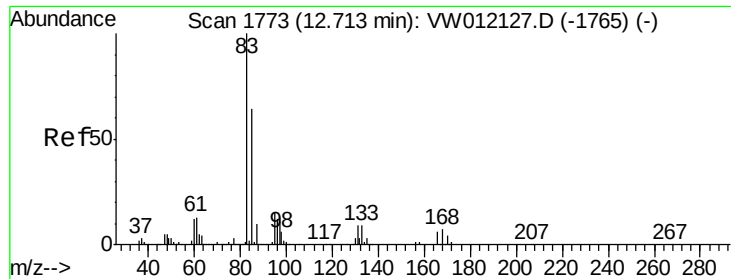
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW012498.D
Acq: 02 Sep 2019 14:53

Tgt Ion:152 Resp: 45519
Ion Ratio Lower Upper
152 100
115 58.7 30.1 90.3
150 149.2 0.0 345.8



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





#75

1,1,2,2-Tetrachloroethane

Concen: 27.056 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. -0.09 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-S2-(1.9)RE

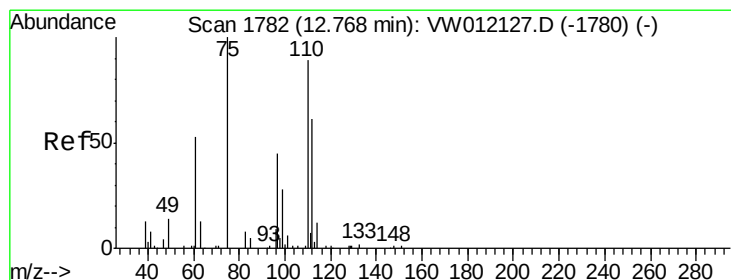
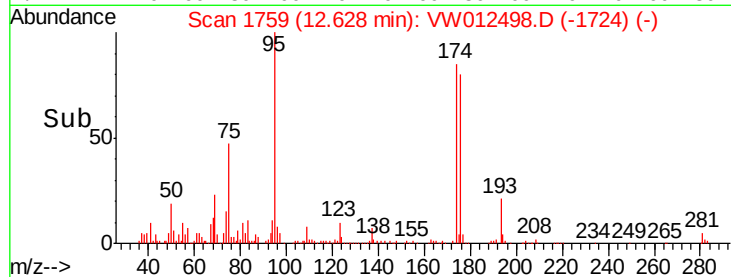
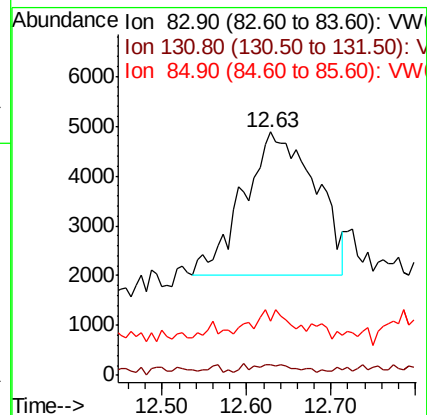
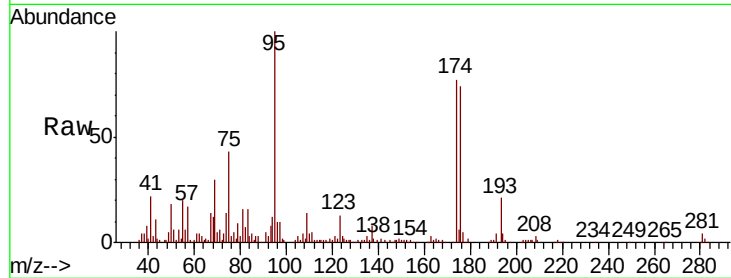
Tgt Ion: 83 Resp: 16918

Ion Ratio Lower Upper

83 100

131 2.9 4.9 14.7#

85 3.6 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 85.976 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012498.D

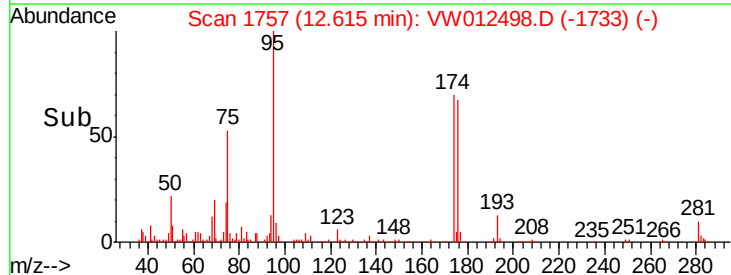
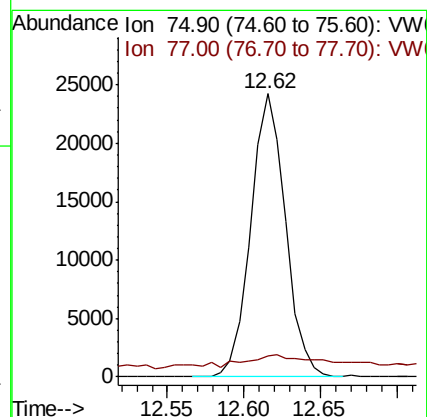
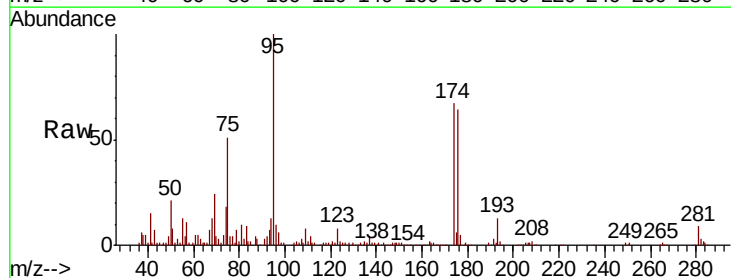
Acq: 02 Sep 2019 14:53

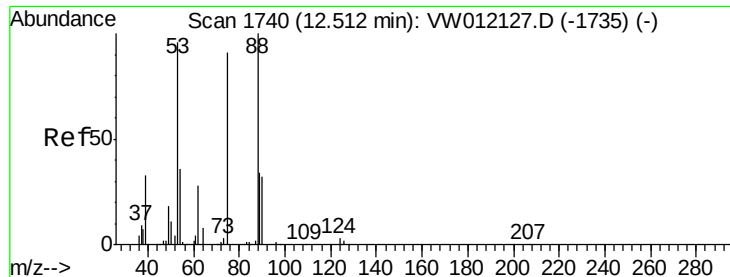
Tgt Ion: 75 Resp: 38115

Ion Ratio Lower Upper

75 100

77 7.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 188.505 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-S2-(1.9)RE

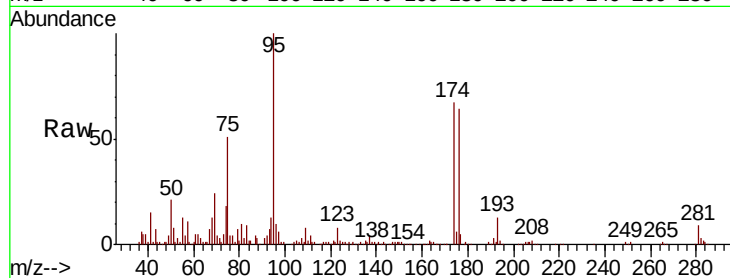
Tgt Ion: 75 Resp: 38115

Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

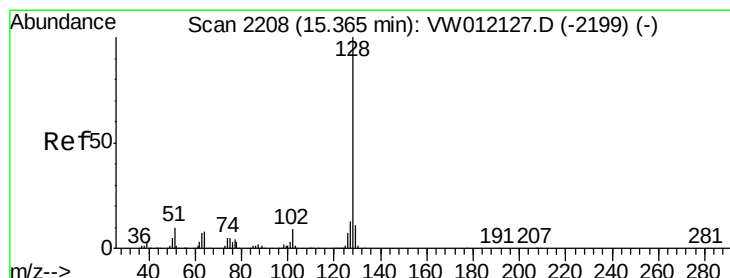
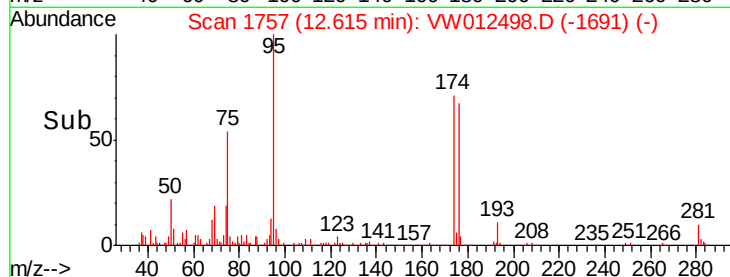
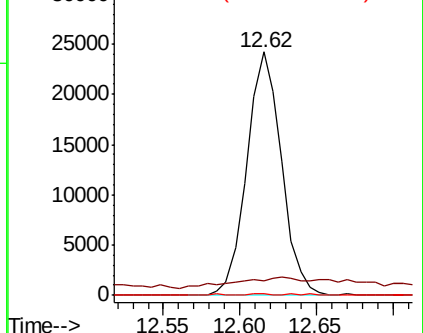
89 0.5 34.5 51.7#



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: 4.639 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012498.D

Acq: 02 Sep 2019 14:53

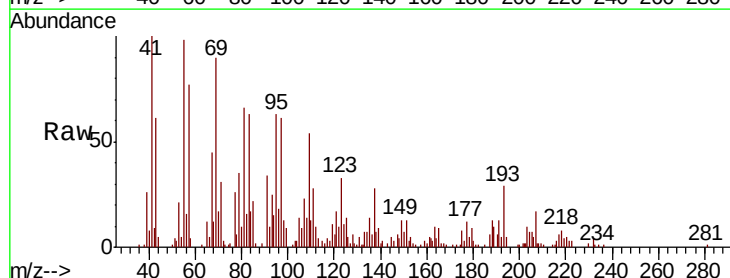
Tgt Ion: 128 Resp: 597

Ion Ratio Lower Upper

128 100

127 15.4 10.7 16.1

129 23.8 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

