

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091119\
 Data File : VW012922.D
 Acq On : 11 Sep 2019 17:18
 Operator : SY/VA
 Sample : K4694-02
 Misc : 6.77G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-1-(0)

Quant Time: Sep 12 07:53:50 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	22169	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	21319	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	8653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	573	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	5470	22.08	ug/l	0.00
Spiked Amount			Recovery	=	44.16%	
35) Dibromofluoromethane	7.89	113	5863	46.26	ug/l	0.00
Spiked Amount			Recovery	=	92.52%	
50) Toluene-d8	10.32	98	20366	41.01	ug/l	0.00
Spiked Amount			Recovery	=	82.02%	
62) 4-Bromofluorobenzene	12.62	95	1784	9.90	ug/l	0.00
Spiked Amount			Recovery	=	19.80%	

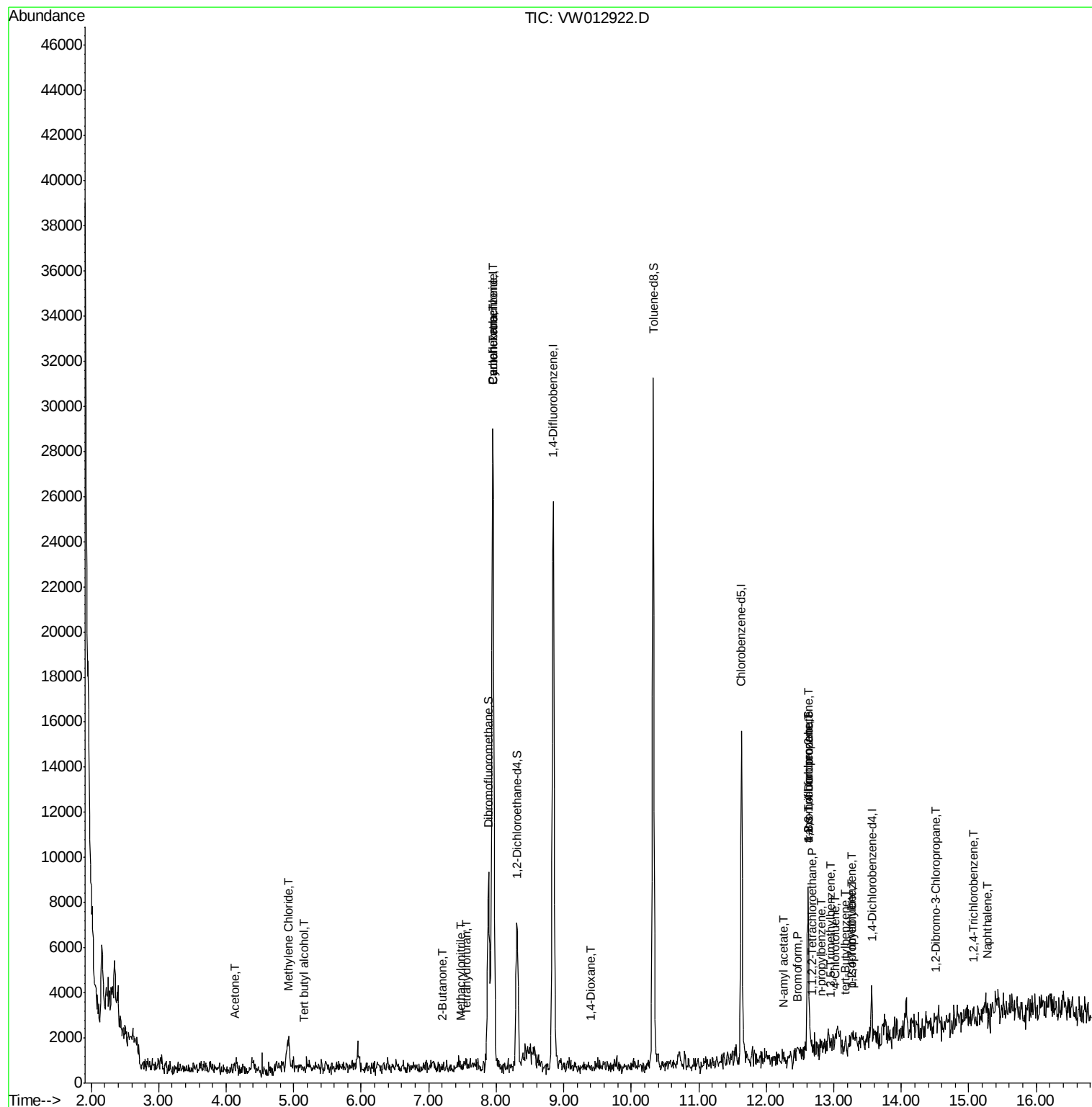
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	22	1.161	ug/l #	72
16) Acetone	4.13	43	336	4.976	ug/l	97
20) Methylene Chloride	4.92	84	819	3.877	ug/l	88
25) 2-Butanone	7.21	43	50	20.144	ug/l #	53
29) Tetrahydrofuran	7.56	42	251	4.603	ug/l #	40
31) Cyclohexane	7.95	56	638	1.752	ug/l #	27
38) Carbon Tetrachloride	7.95	117	2177	11.659	ug/l #	12
41) Methacrylonitrile	7.49	41	125	5.245	ug/l #	27
49) 1,4-Dioxane	9.41	88	20	14.669	ug/l #	1
71) Bromoform	12.46	173	51	1.507	ug/l #	28
74) N-amyl acetate	12.26	43	161	12.342	ug/l #	59
75) 1,1,2,2-Tetrachloroethane	12.68	83	56	6.785	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	741	126.468	ug/l #	100
78) n-propylbenzene	12.82	91	136	2.767	ug/l #	54
80) 1,3,5-Trimethylbenzene	12.95	105	90	2.599	ug/l	77
81) trans-1,4-Dichloro-2-buten	12.62	75	741	267.489	ug/l #	6
82) 4-Chlorotoluene	13.03	91	63	2.111	ug/l #	43
83) tert-Butylbenzene	13.16	119	40	1.306	ug/l #	25
84) 1,2,4-Trimethylbenzene	13.26	105	48	1.376	ug/l #	32
86) p-Isopropyltoluene	13.27	119	43	1.108	ug/l #	50
92) 1,2-Dibromo-3-Chloropropan	14.51	75	48	31.779	ug/l #	3
93) 1,2,4-Trichlorobenzene	15.07	180	19	1.657	ug/l #	11
95) Naphthalene	15.28	128	26	5.425	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Sun Sep 08 05:04:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

Instrument :

MSVOA_W

ClientSampled :

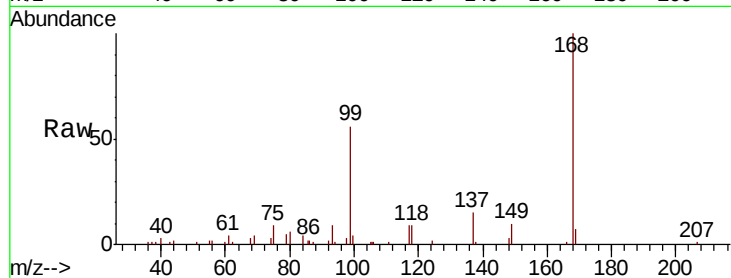
T1-1-(0)

Tgt Ion:168 Resp: 22169

Ion Ratio Lower Upper

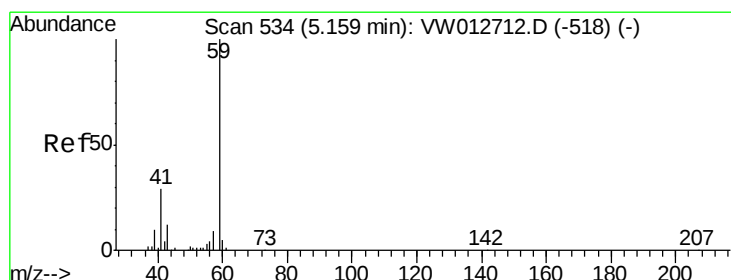
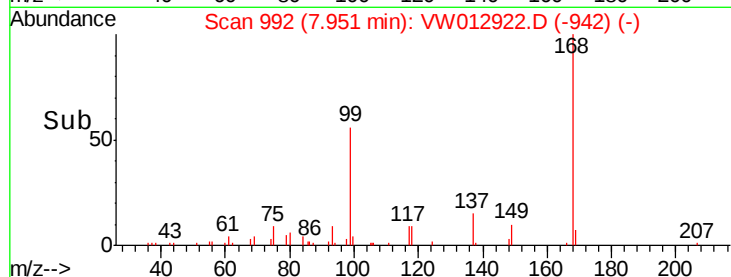
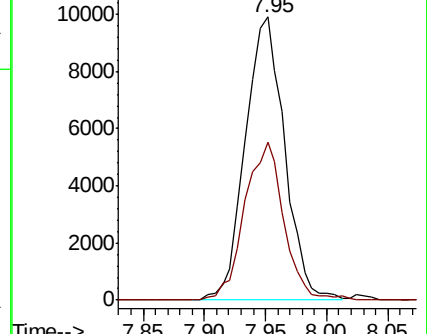
168 100

99 55.7 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.161 ug/l

RT: 5.17 min Scan# 535

Delta R.T. 0.01 min

Lab File: VW012922.D

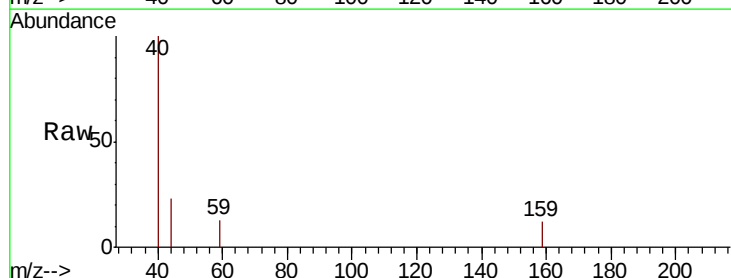
Acq: 11 Sep 2019 17:18

Tgt Ion: 59 Resp: 22

Ion Ratio Lower Upper

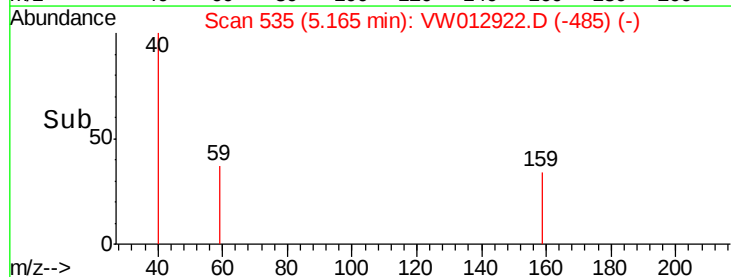
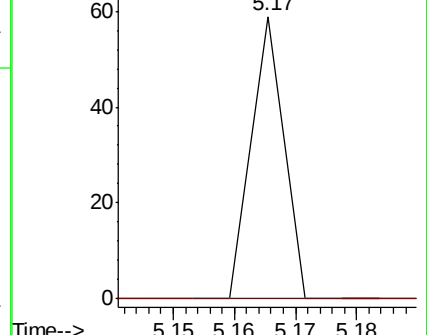
59 100

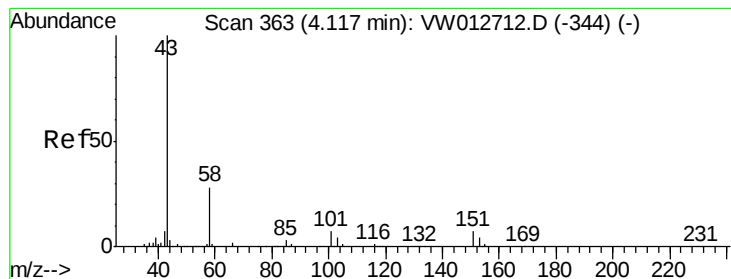
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 4.976 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

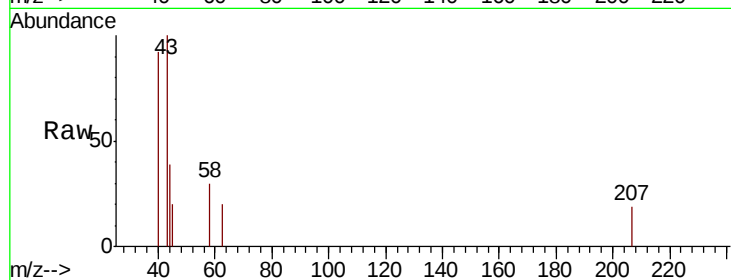
Instrument :
MSVOA_W
ClientSampleId :
T1-1-(0)

Tgt Ion: 43 Resp: 336

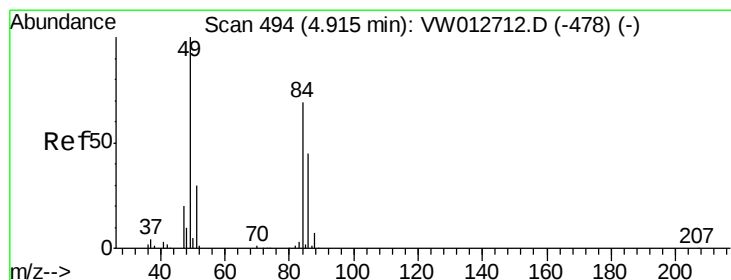
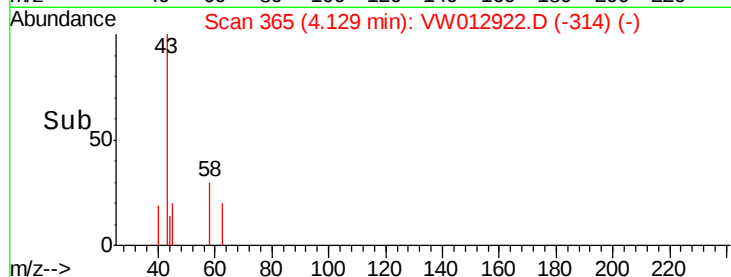
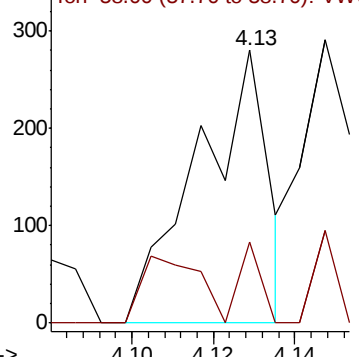
Ion Ratio Lower Upper

43 100

58 29.6 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 3.877 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

Tgt Ion: 84 Resp: 819

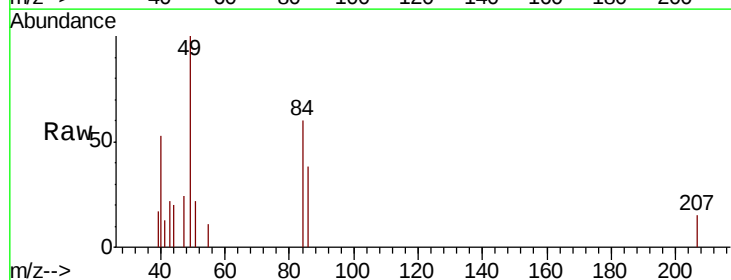
Ion Ratio Lower Upper

84 100

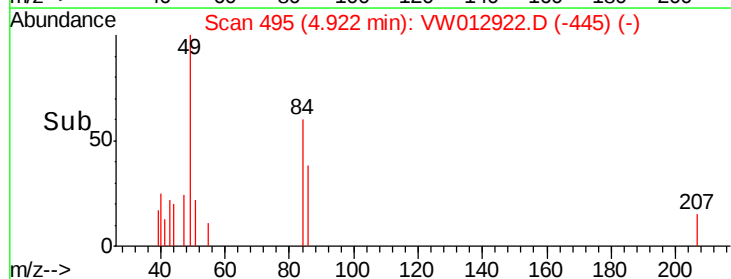
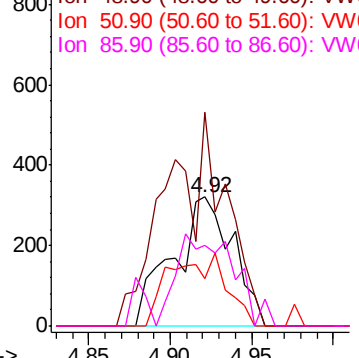
49 165.4 115.4 173.0

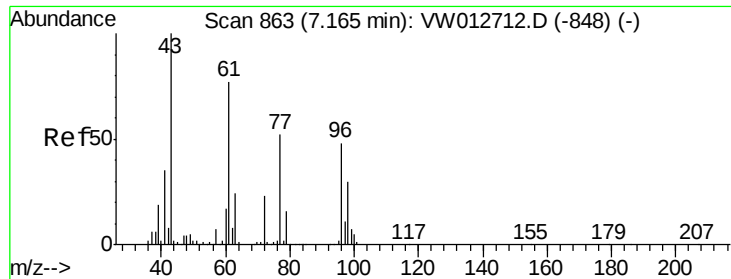
51 36.8 34.9 52.3

86 62.6 52.2 78.4



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





#25

2-Butanone

Concen: 20.144 ug/l

RT: 7.21 min Scan# 870

Delta R.T. 0.04 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

Instrument :

MSVOA_W

ClientSampled :

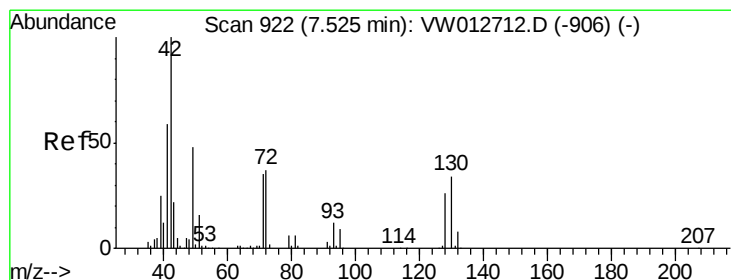
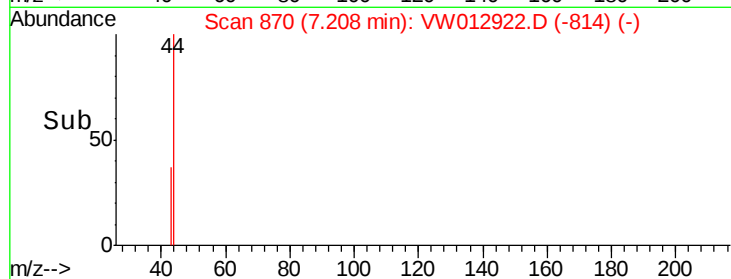
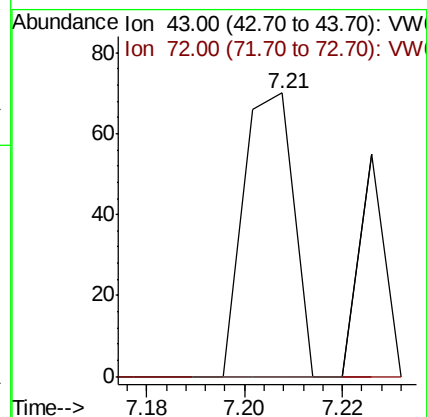
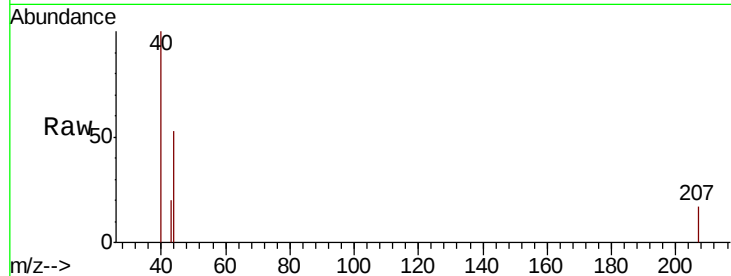
T1-1-(0)

Tgt Ion: 43 Resp: 50

Ion Ratio Lower Upper

43 100

72 0.0 18.0 27.0#



#29

Tetrahydrofuran

Concen: 4.603 ug/l

RT: 7.56 min Scan# 928

Delta R.T. 0.04 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

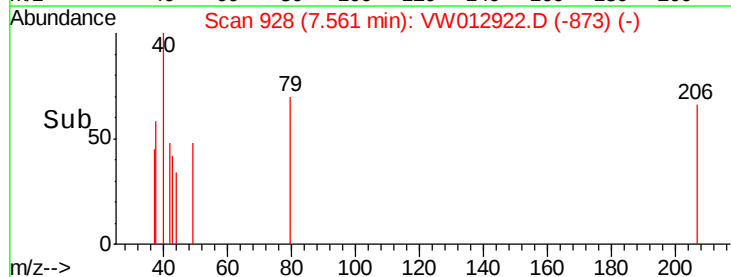
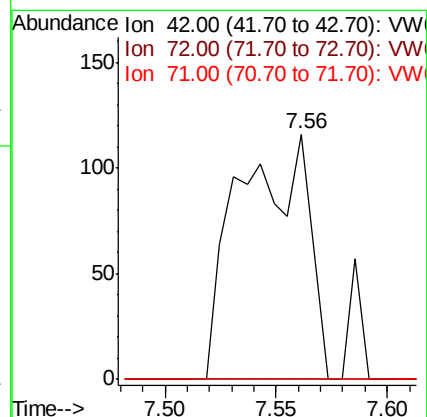
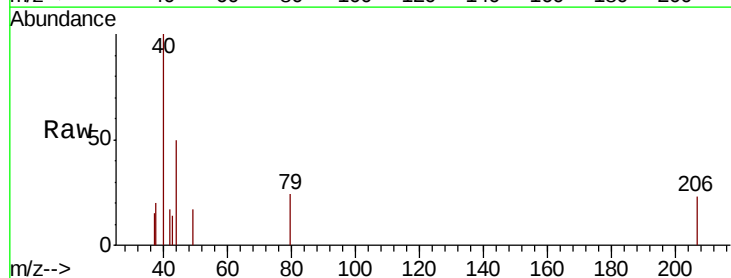
Tgt Ion: 42 Resp: 251

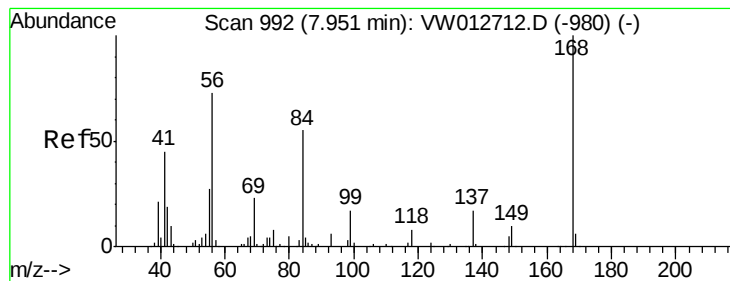
Ion Ratio Lower Upper

42 100

72 0.0 28.4 42.6#

71 0.0 27.1 40.7#





#31

Cyclohexane

Concen: 1.752 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

Instrument :
MSVOA_W
ClientSampled :
T1-1-(0)

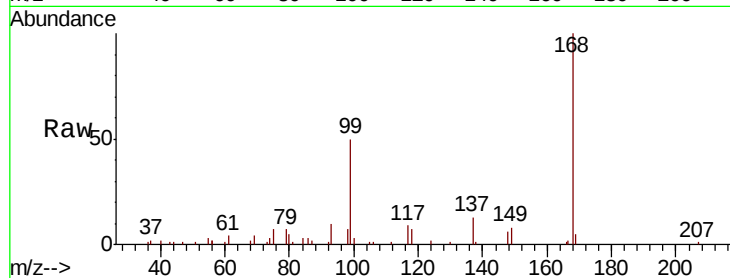
Tgt Ion: 56 Resp: 638

Ion Ratio Lower Upper

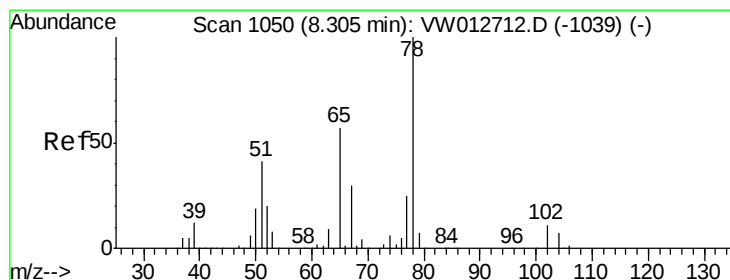
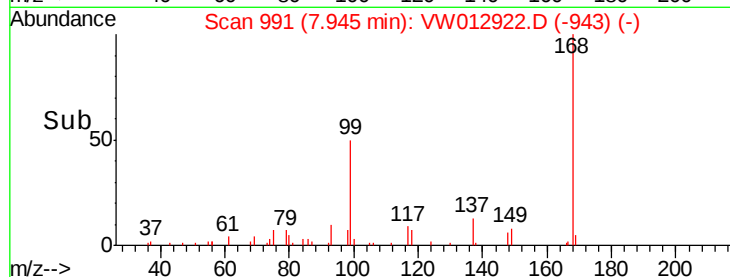
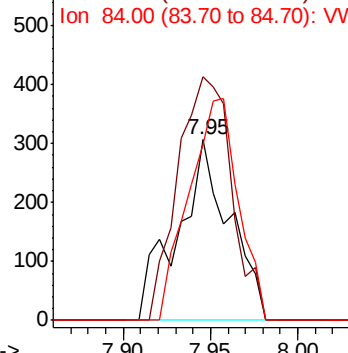
56 100

69 135.0 25.7 38.5#

84 97.4 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: 22.083 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012922.D

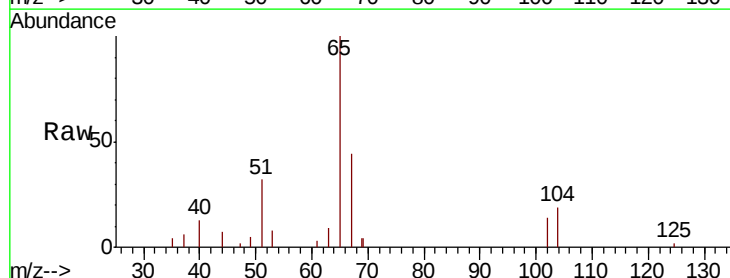
Acq: 11 Sep 2019 17:18

Tgt Ion: 65 Resp: 5470

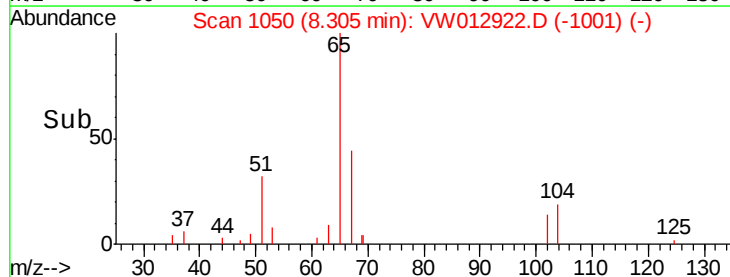
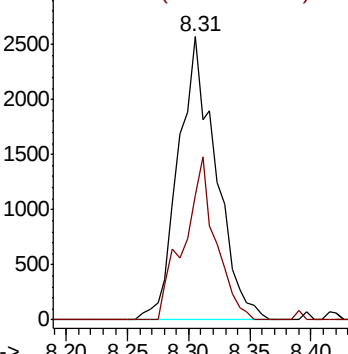
Ion Ratio Lower Upper

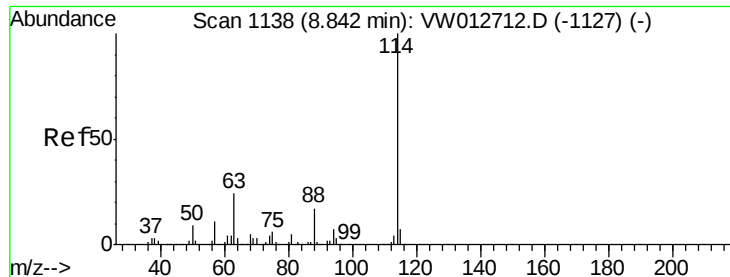
65 100

67 48.8 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: VW012922.D

Acq: 11 Sep 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

T1-1-(0)

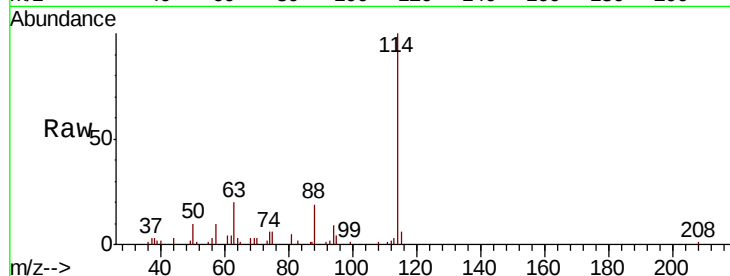
Tgt Ion:114 Resp: 21319

Ion Ratio Lower Upper

114 100

63 20.4 0.0 47.2

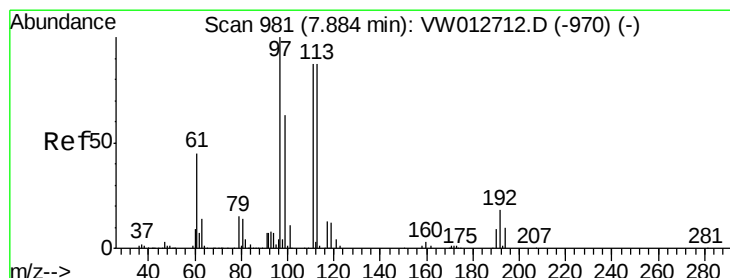
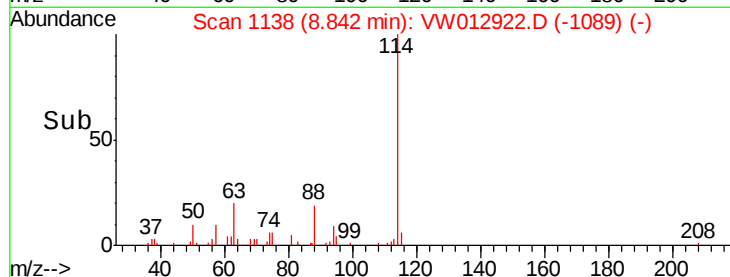
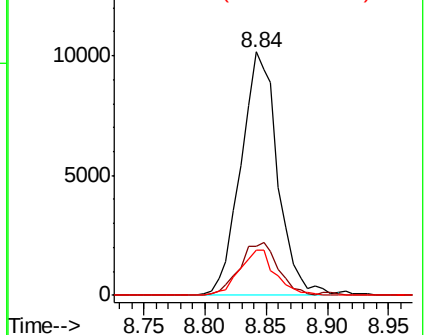
88 18.8 0.0 34.0



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: 46.257 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

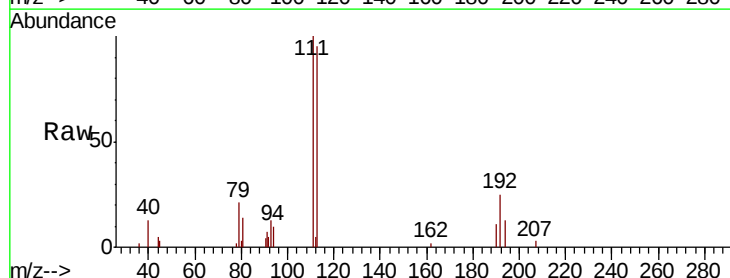
Tgt Ion:113 Resp: 5863

Ion Ratio Lower Upper

113 100

111 102.5 80.2 120.4

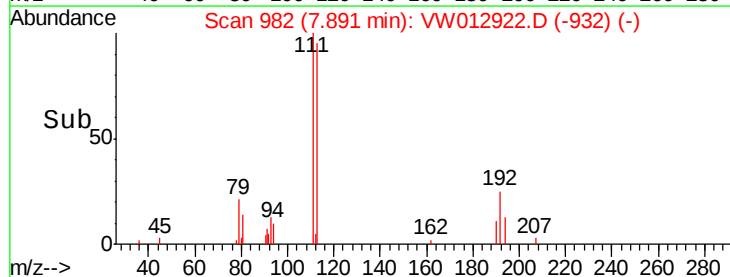
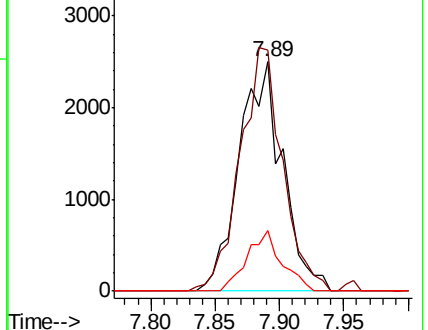
192 20.8 17.3 25.9

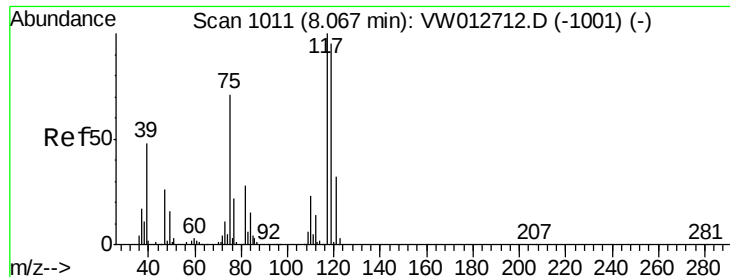


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 11.659 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

Instrument :

MSVOA_W

ClientSampled :

T1-1-(0)

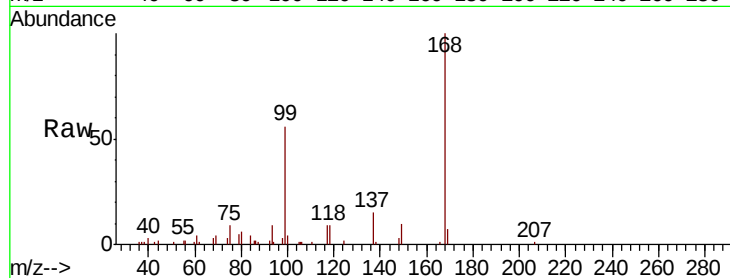
Tgt Ion:117 Resp: 2177

Ion Ratio Lower Upper

117 100

119 0.0 76.2 114.2#

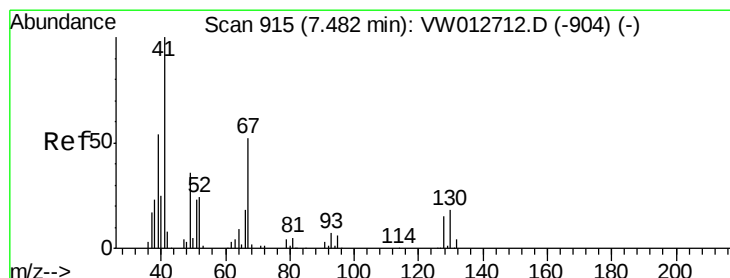
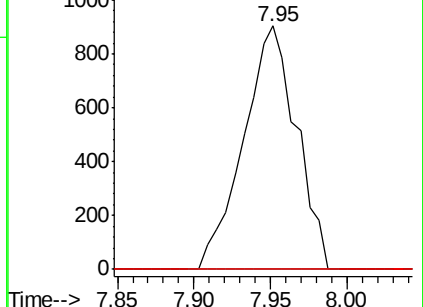
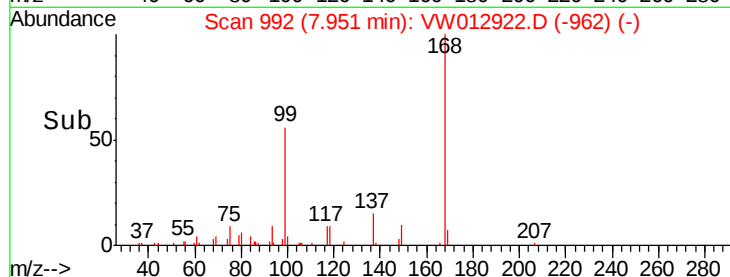
121 0.0 25.4 38.2#



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



#41

Methacrylonitrile

Concen: 5.245 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

Tgt Ion: 41 Resp: 125

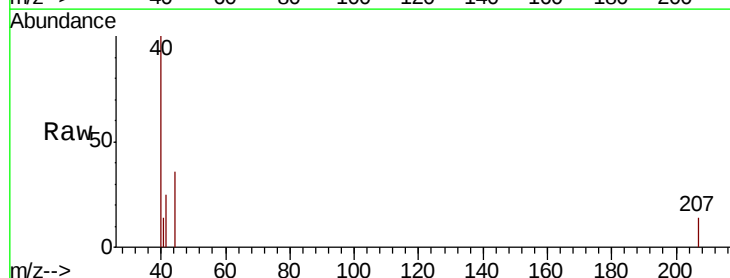
Ion Ratio Lower Upper

41 100

39 0.0 47.5 71.3#

67 0.0 45.1 67.7#

52 0.0 20.2 30.2#

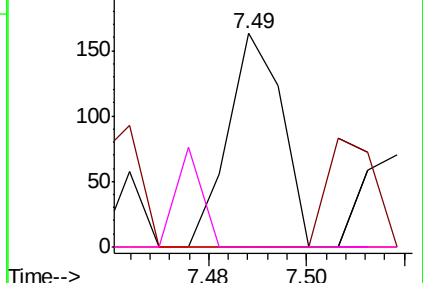
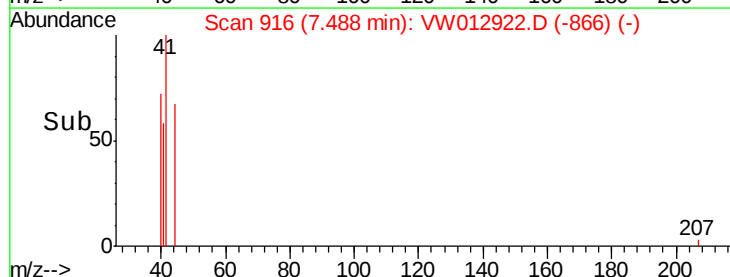


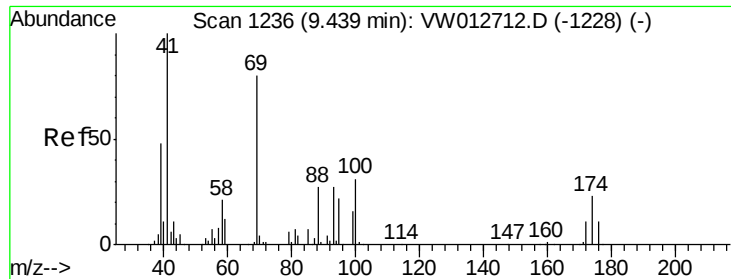
Abundance Ion 41.00 (40.70 to 41.70): VW

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

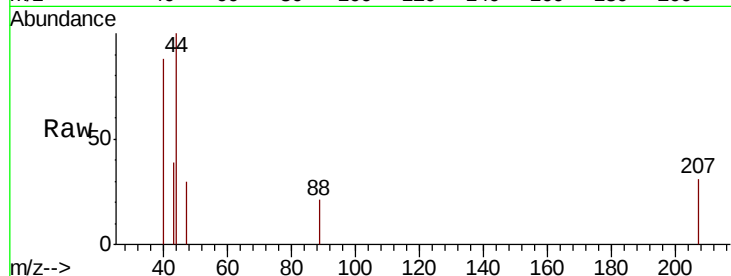




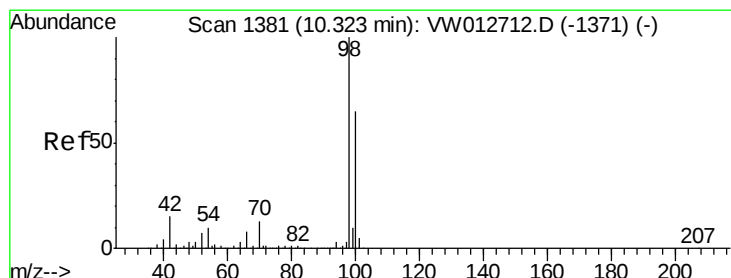
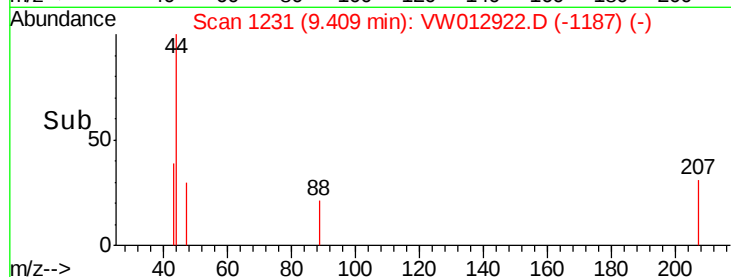
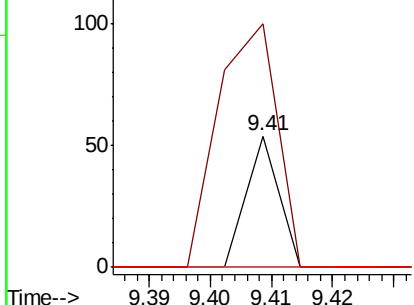
#49
1,4-Dioxane
Concen: 14.669 ug/l
RT: 9.41 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VW012922.D
Acq: 11 Sep 2019 17:18

Instrument :
MSVOA_W
ClientSampleId :
T1-1-(0)

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 330.0 34.8 52.2#
58 0.0 64.1 96.1#

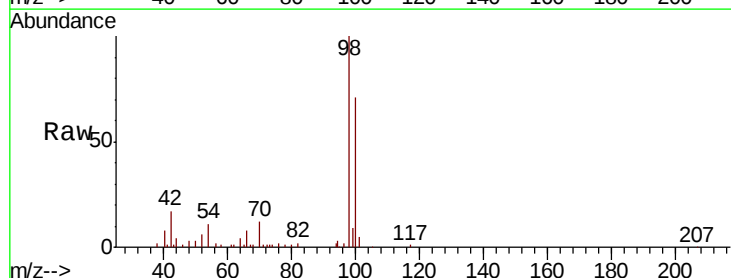


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

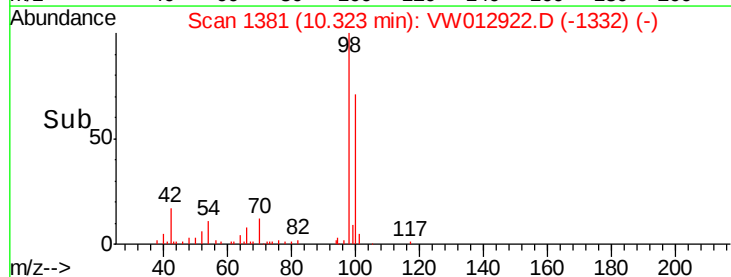
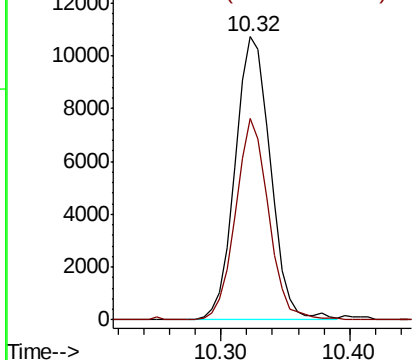


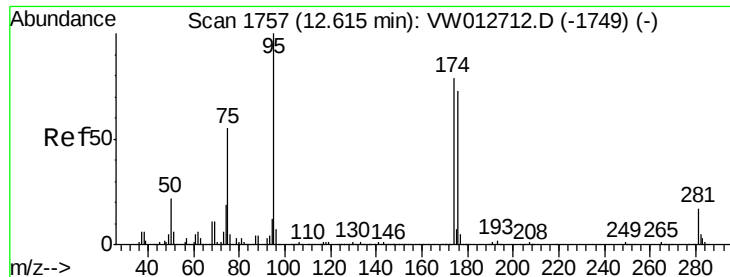
#50
Toluene-d8
Concen: 41.014 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW012922.D
Acq: 11 Sep 2019 17:18

Tgt Ion: 98 Resp: 20366
Ion Ratio Lower Upper
98 100
100 66.7 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

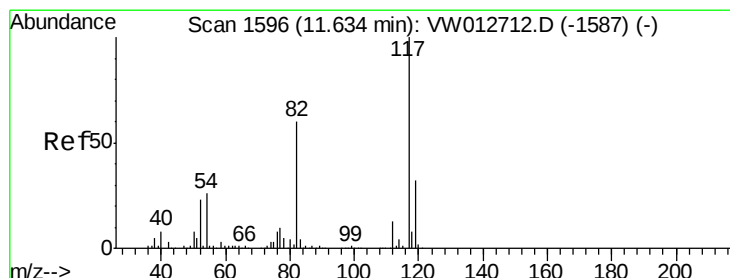
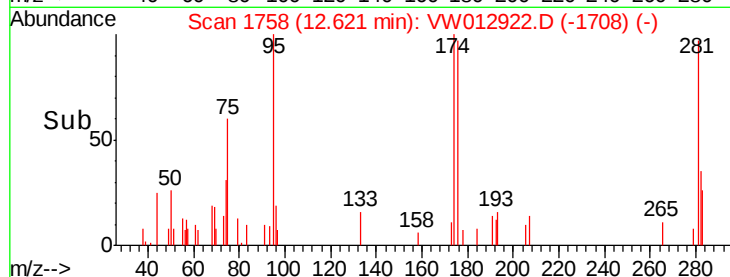
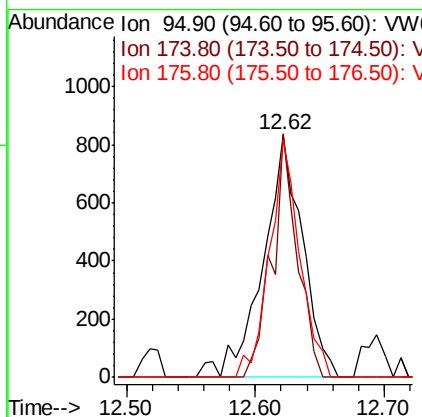
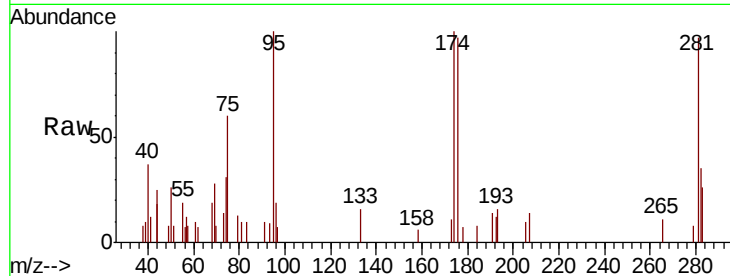




#62
4-Bromofluorobenzene
Concen: 9.896 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.01 min
Lab File: VW012922.D
Acq: 11 Sep 2019 17:18

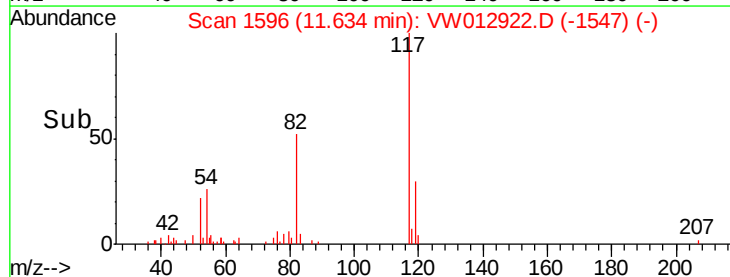
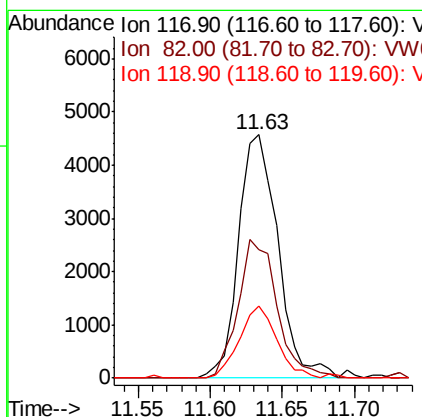
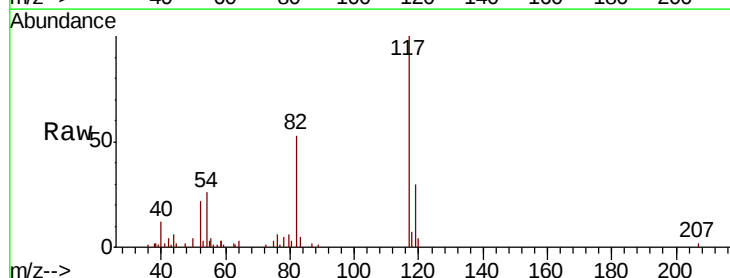
Instrument :
MSVOA_W
ClientSampled :
T1-1-(0)

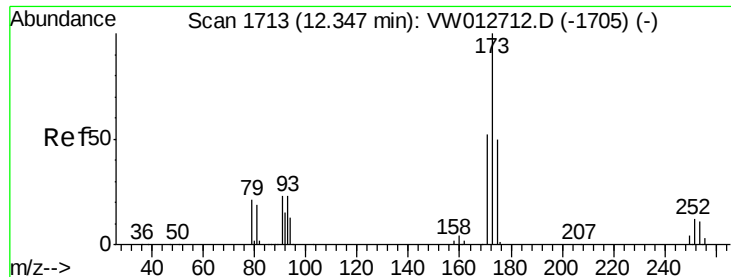
Tgt Ion: 95 Resp: 1784
Ion Ratio Lower Upper
95 100
174 64.2 0.0 161.0
176 75.1 0.0 156.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW012922.D
Acq: 11 Sep 2019 17:18

Tgt Ion: 117 Resp: 8653
Ion Ratio Lower Upper
117 100
82 52.9 48.2 72.4
119 29.7 25.8 38.6

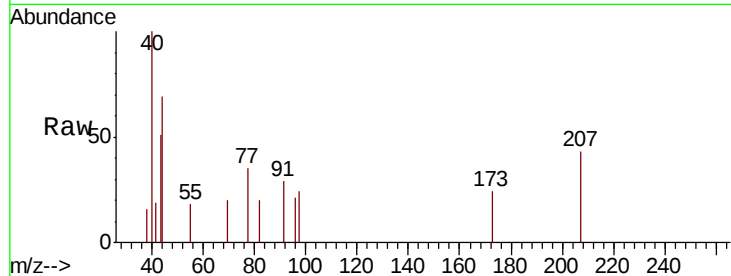




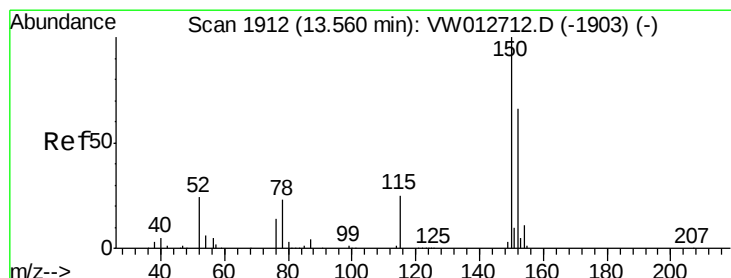
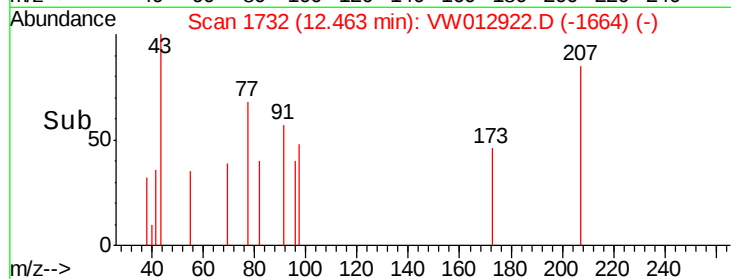
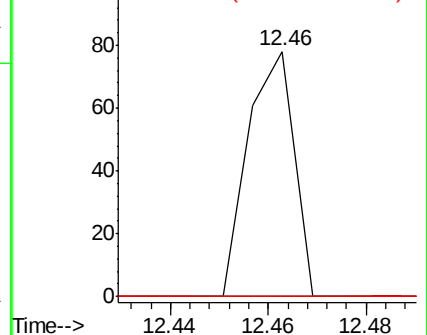
#71
Bromoform
Concen: 1.507 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.12 min
Lab File: VW012922.D
Acq: 11 Sep 2019 17:18

Instrument :
MSVOA_W
ClientSampleId :
T1-1-(0)

Tgt Ion:173 Resp: 51
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.3#
254 0.0 0.1 0.1#

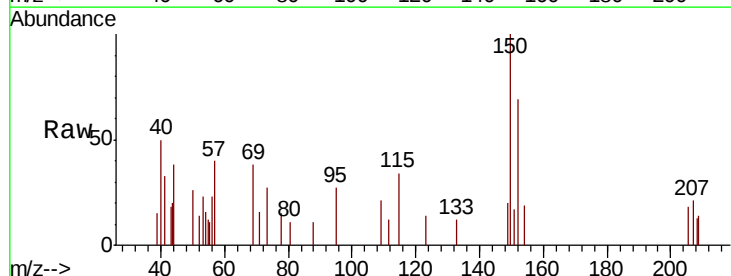


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

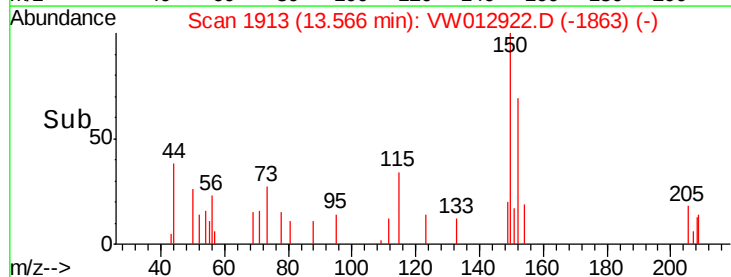
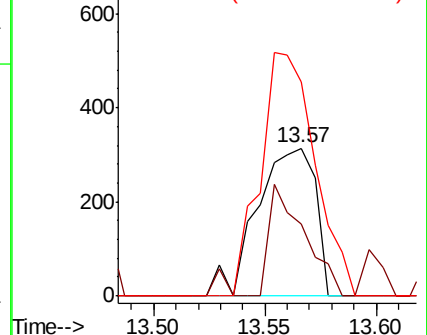


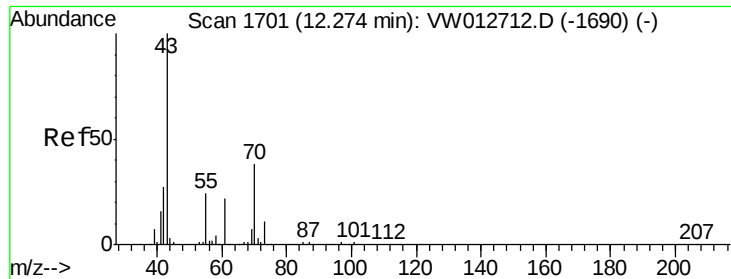
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.01 min
Lab File: VW012922.D
Acq: 11 Sep 2019 17:18

Tgt Ion:152 Resp: 573
Ion Ratio Lower Upper
152 100
115 45.7 30.0 90.1
150 154.3 0.0 349.0



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





#74

N-amyI acetate

Concen: 12.342 ug/l

RT: 12.26 min Scan# 1699

Delta R.T. -0.01 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

T1-1-(0)

Tgt Ion: 43 Resp: 161

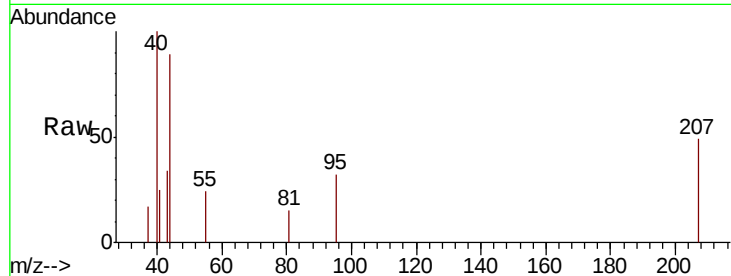
Ion Ratio Lower Upper

43 100

70 16.8 29.4 44.0#

55 0.0 18.6 27.8#

61 0.0 17.8 26.6#

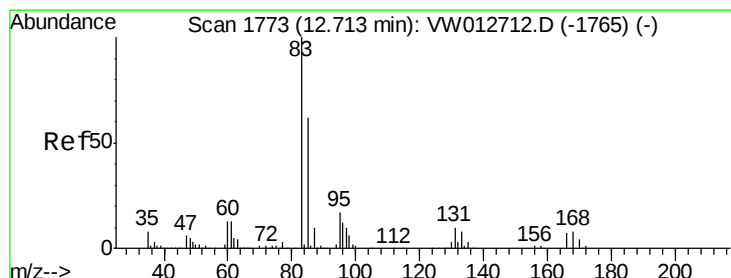
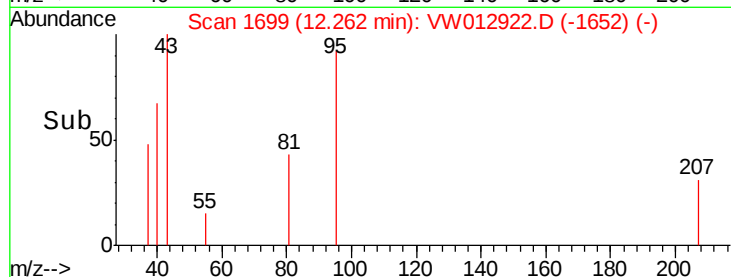
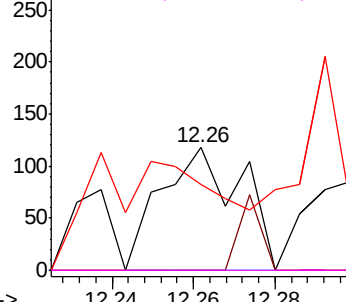


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 6.785 ug/l

RT: 12.68 min Scan# 1767

Delta R.T. -0.04 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

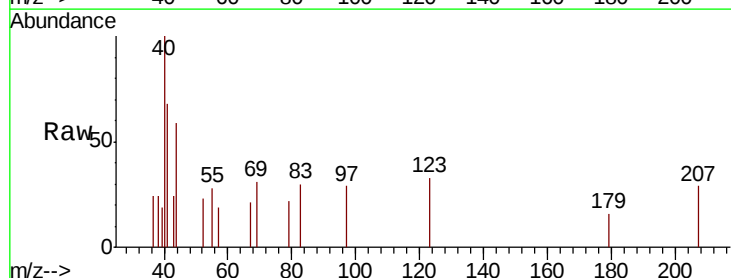
Tgt Ion: 83 Resp: 56

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

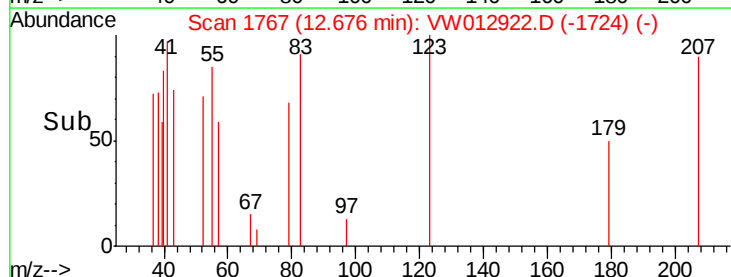
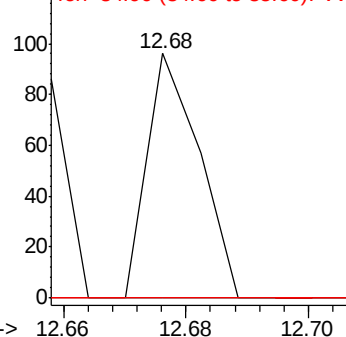
85 0.0 31.4 94.2#

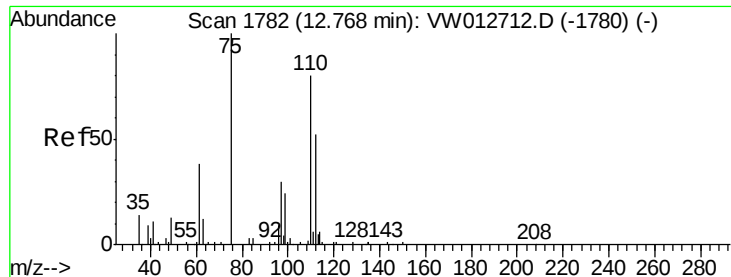


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

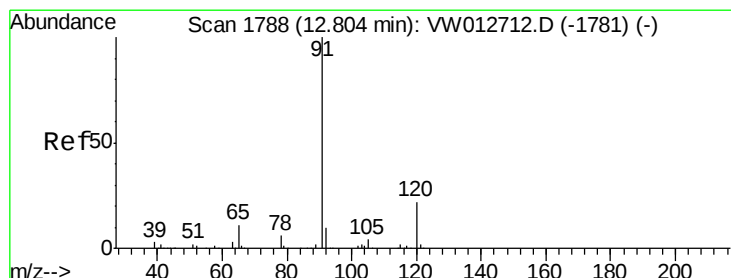
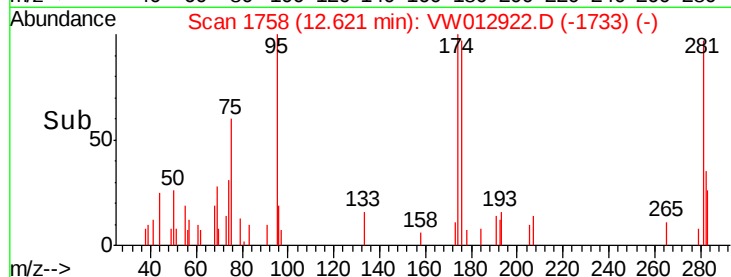
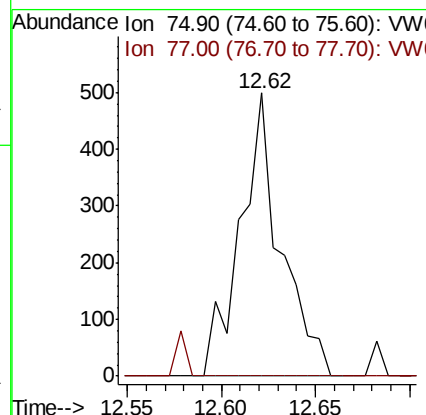
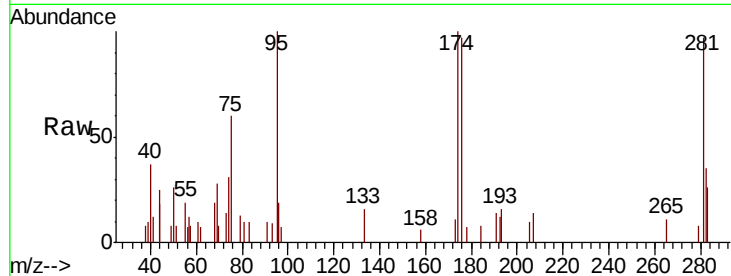




#76
 1,2,3-Trichloropropane
 Concen: 126.468 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW012922.D
 Acq: 11 Sep 2019 17:18

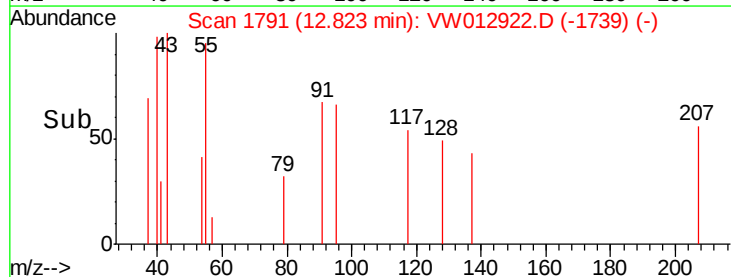
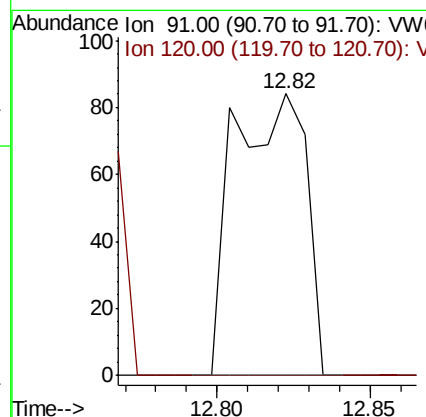
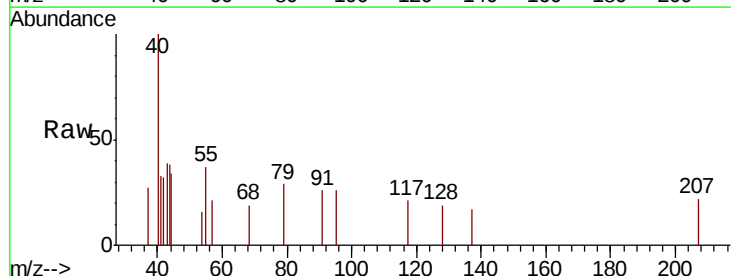
Instrument :
 MSVOA_W
 ClientSampled :
 T1-1-(0)

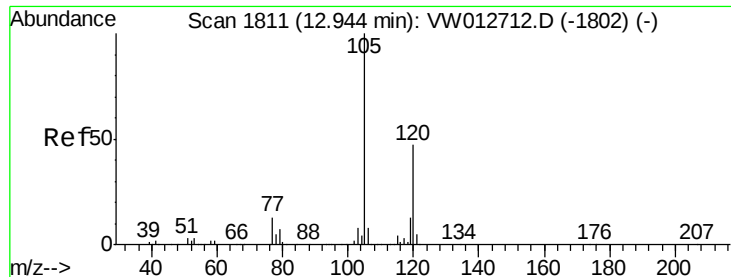
Tgt Ion: 75 Resp: 741
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#78
 n-propylbenzene
 Concen: 2.767 ug/l
 RT: 12.82 min Scan# 1791
 Delta R.T. 0.02 min
 Lab File: VW012922.D
 Acq: 11 Sep 2019 17:18

Tgt Ion: 91 Resp: 136
 Ion Ratio Lower Upper
 91 100
 120 0.0 11.0 33.0#

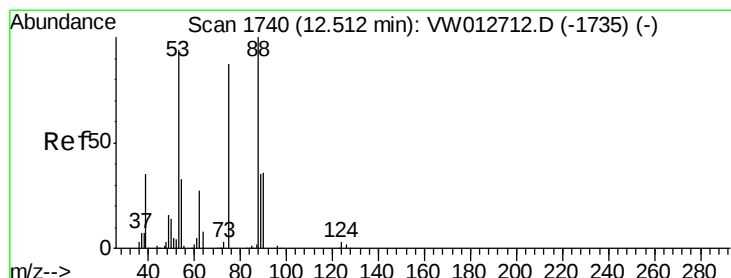
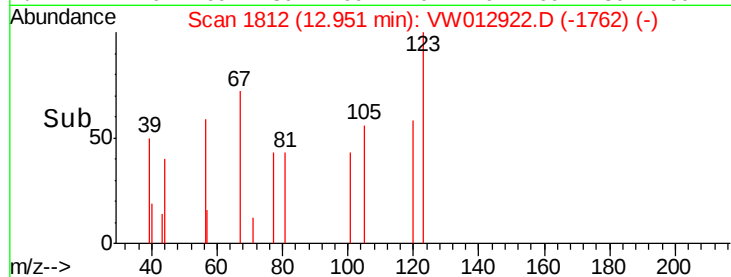
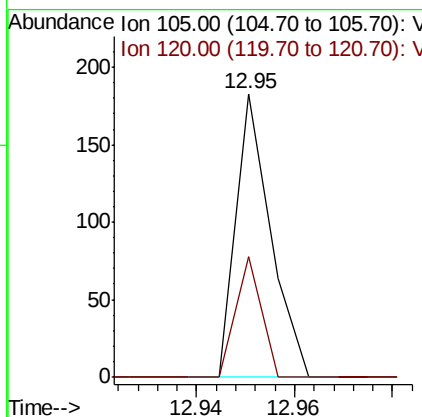
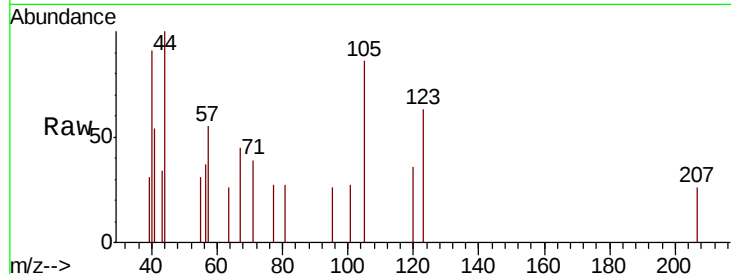




#80
 1,3,5-Trimethylbenzene
 Concen: 2.599 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.01 min
 Lab File: VW012922.D
 Acq: 11 Sep 2019 17:18

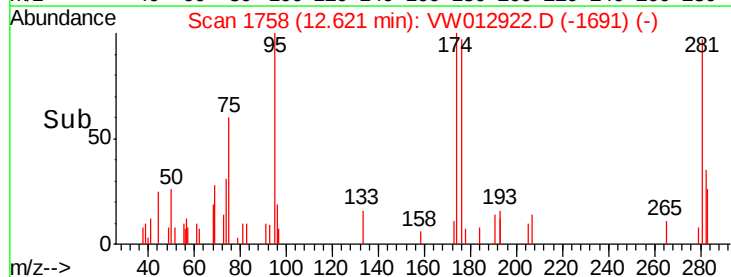
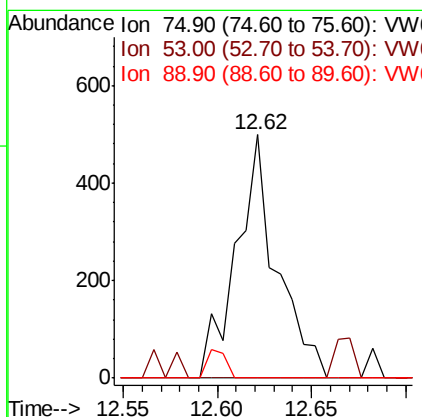
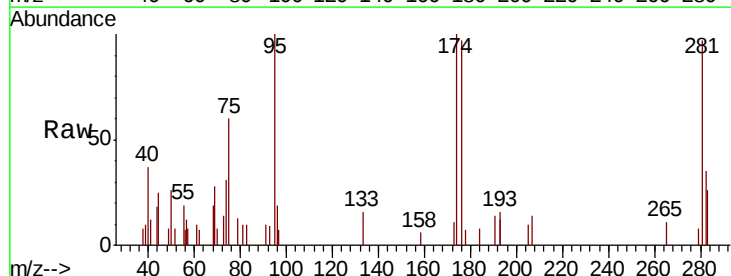
Instrument :
 MSVOA_W
 ClientSampled :
 T1-1-(0)

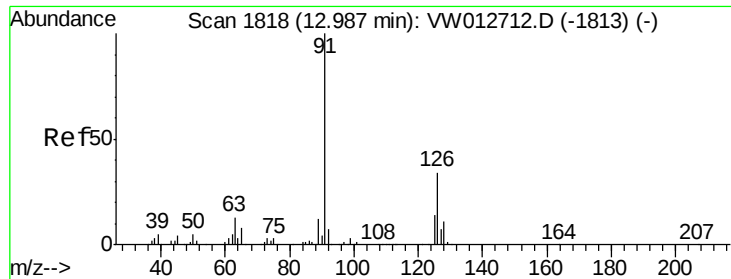
Tgt Ion: 105 Resp: 90
 Ion Ratio Lower Upper
 105 100
 120 32.2 23.9 71.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 267.489 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW012922.D
 Acq: 11 Sep 2019 17:18

Tgt Ion: 75 Resp: 741
 Ion Ratio Lower Upper
 75 100
 53 0.0 87.6 131.4#
 89 0.0 35.5 53.3#

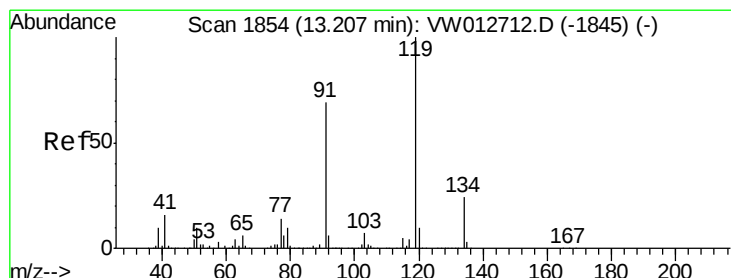
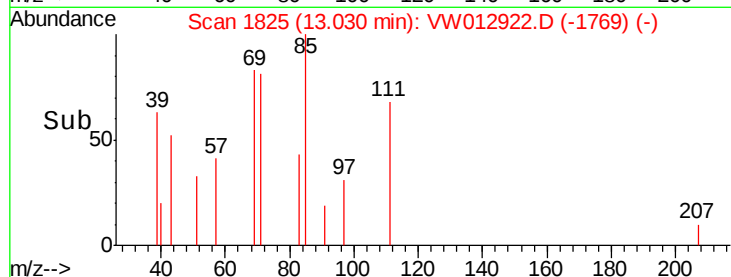
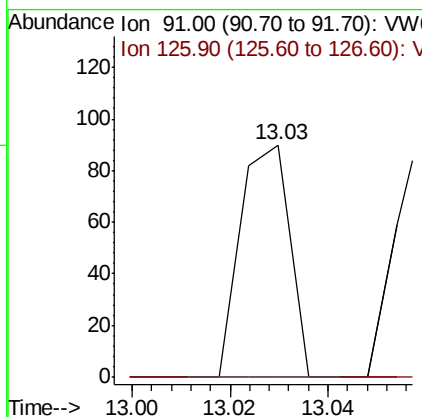
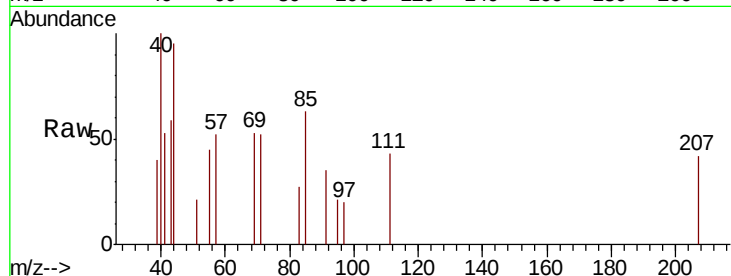




#82
4-Chlorotoluene
Concen: 2.111 ug/l
RT: 13.03 min Scan# 1825
Delta R.T. 0.04 min
Lab File: VW012922.D
Acq: 11 Sep 2019 17:18

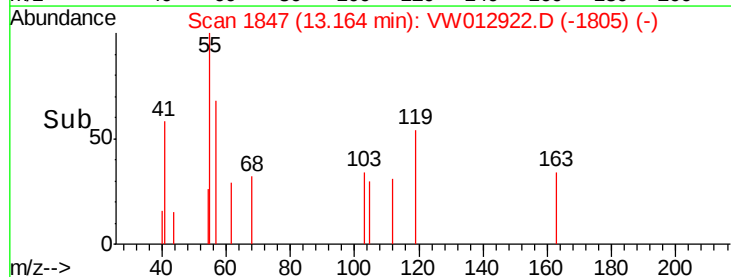
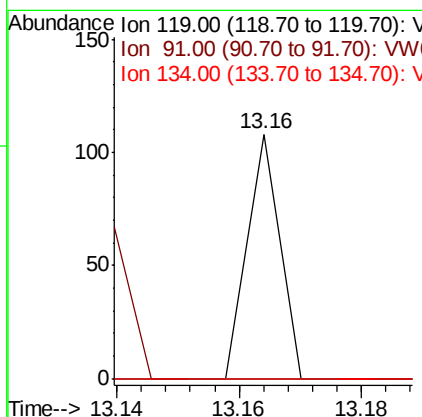
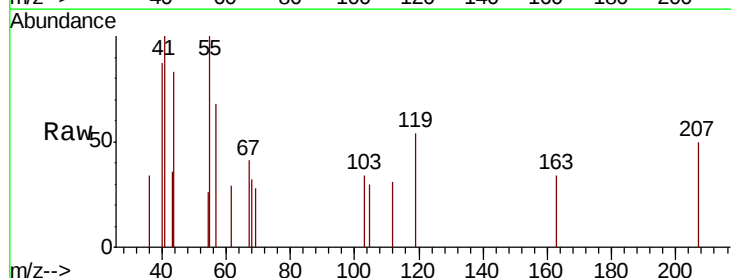
Instrument :
MSVOA_W
ClientSampled :
T1-1-(0)

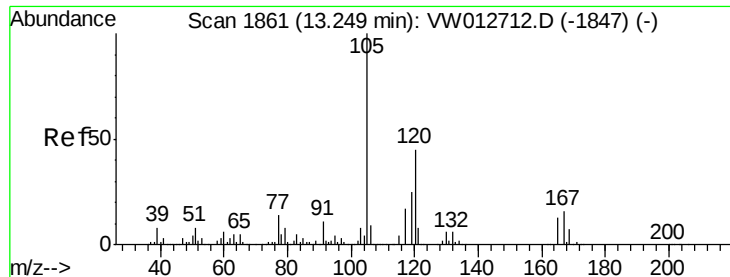
Tgt Ion: 91 Resp: 63
Ion Ratio Lower Upper
91 100
126 0.0 15.9 47.6#



#83
tert-Butylbenzene
Concen: 1.306 ug/l
RT: 13.16 min Scan# 1847
Delta R.T. -0.04 min
Lab File: VW012922.D
Acq: 11 Sep 2019 17:18

Tgt Ion: 119 Resp: 40
Ion Ratio Lower Upper
119 100
91 0.0 34.2 102.5#
134 0.0 12.3 36.9#

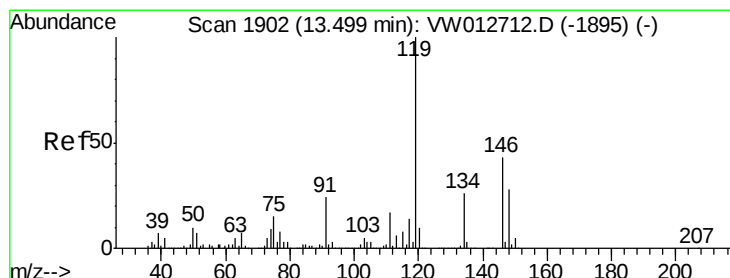
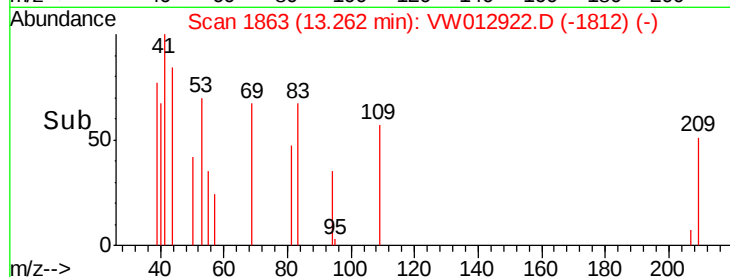
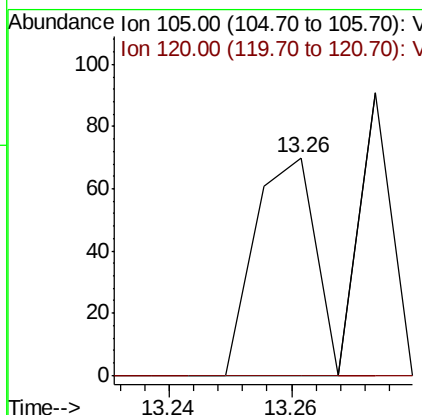
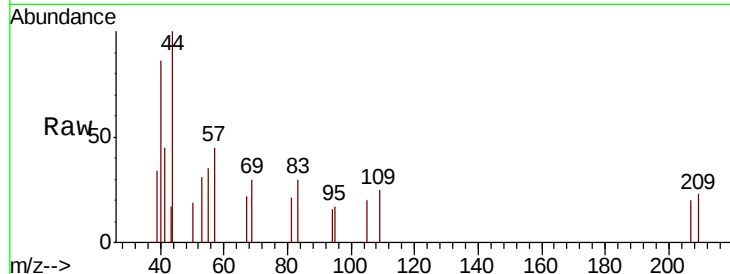




#84
 1,2,4-Trimethylbenzene
 Concen: 1.376 ug/l
 RT: 13.26 min Scan# 1863
 Delta R.T. 0.01 min
 Lab File: VW012922.D
 Acq: 11 Sep 2019 17:18

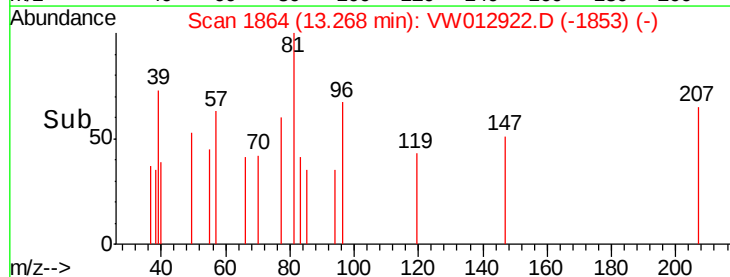
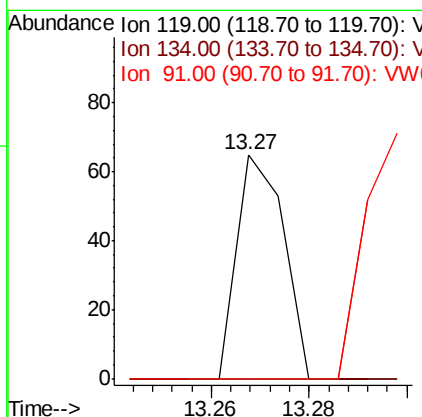
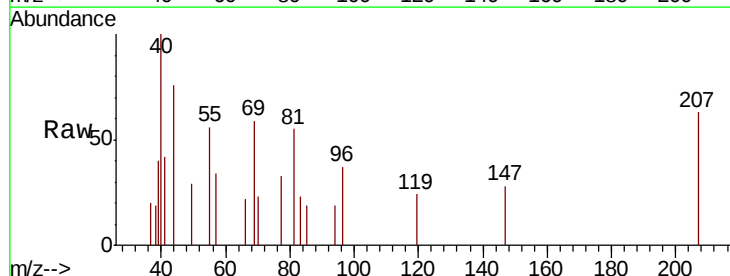
Instrument :
 MSVOA_W
 ClientSampled :
 T1-1-(0)

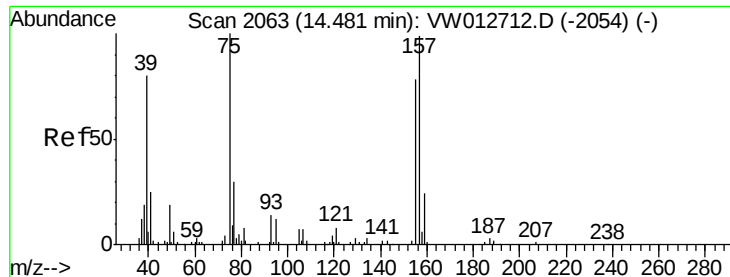
Tgt Ion:105 Resp: 48
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.1 66.3#



#86
 p-Isopropyltoluene
 Concen: 1.108 ug/l
 RT: 13.27 min Scan# 1864
 Delta R.T. -0.23 min
 Lab File: VW012922.D
 Acq: 11 Sep 2019 17:18

Tgt Ion:119 Resp: 43
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.7 38.1#
 91 0.0 12.2 36.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 31.779 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.02 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

T1-1-(0)

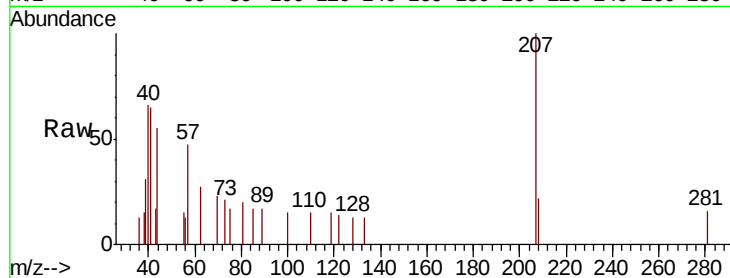
Tgt Ion: 75 Resp: 48

Ion Ratio Lower Upper

75 100

155 0.0 40.6 122.0#

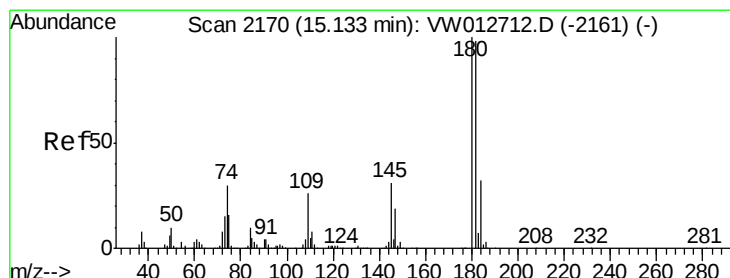
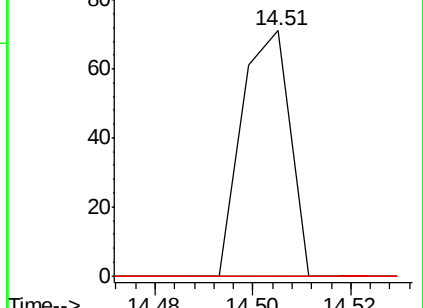
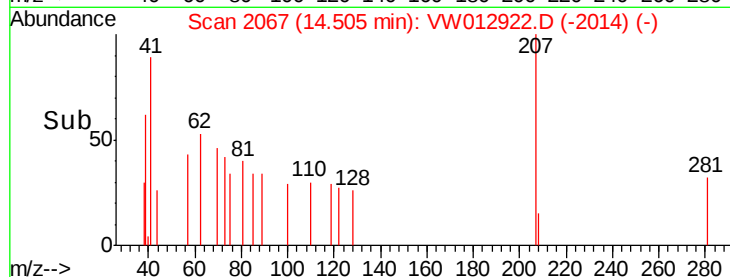
157 0.0 52.5 157.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 1.657 ug/l

RT: 15.07 min Scan# 2159

Delta R.T. -0.07 min

Lab File: VW012922.D

Acq: 11 Sep 2019 17:18

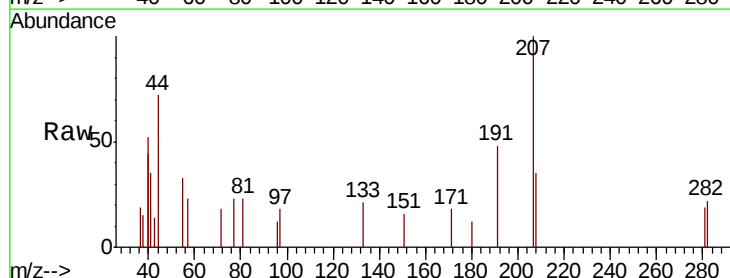
Tgt Ion: 180 Resp: 19

Ion Ratio Lower Upper

180 100

182 0.0 48.7 146.1#

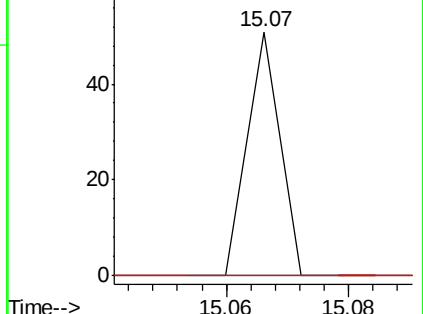
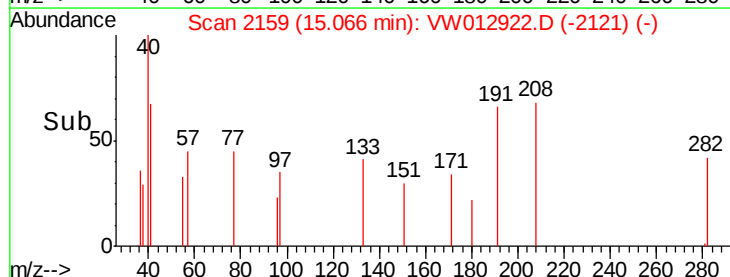
145 0.0 15.0 45.1#

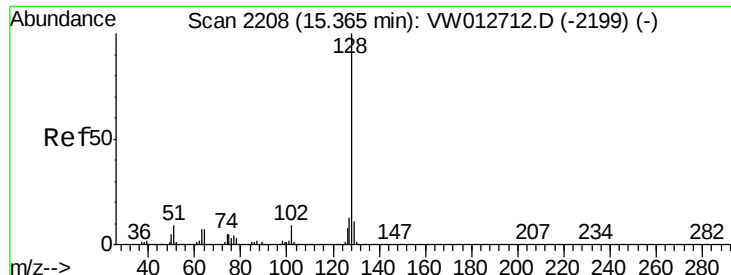


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 5.425 ug/l

RT: 15.28 min Scan# 2194

Delta R.T. -0.08 min

Lab File: VW012922.D

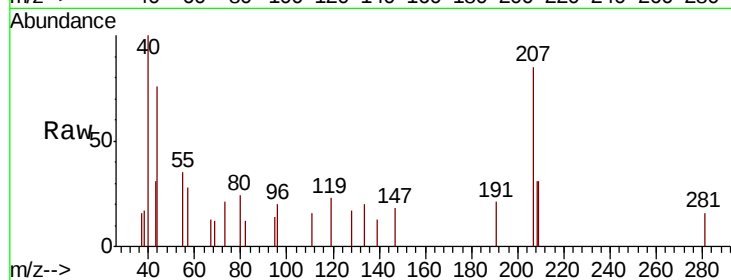
Acq: 11 Sep 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

T1-1-(0)



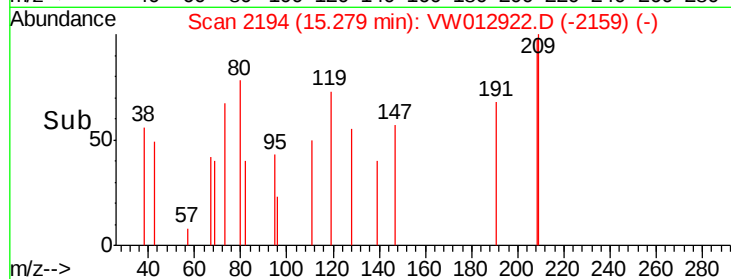
Tgt Ion:128 Resp: 26

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

