

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082819\
 Data File : VW012249.D
 Acq On : 28 Aug 2019 13:06
 Operator : SY/VA
 Sample : K4560-01
 Misc : 5.91G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 28 17:25:31 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	240362	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	387374	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	286333	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	83375	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	142744	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	
35) Dibromofluoromethane	7.88	113	118482	51.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.48%	
50) Toluene-d8	10.32	98	463231	49.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.82%	
62) 4-Bromofluorobenzene	12.62	95	120178	36.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.72%	

Target Compounds

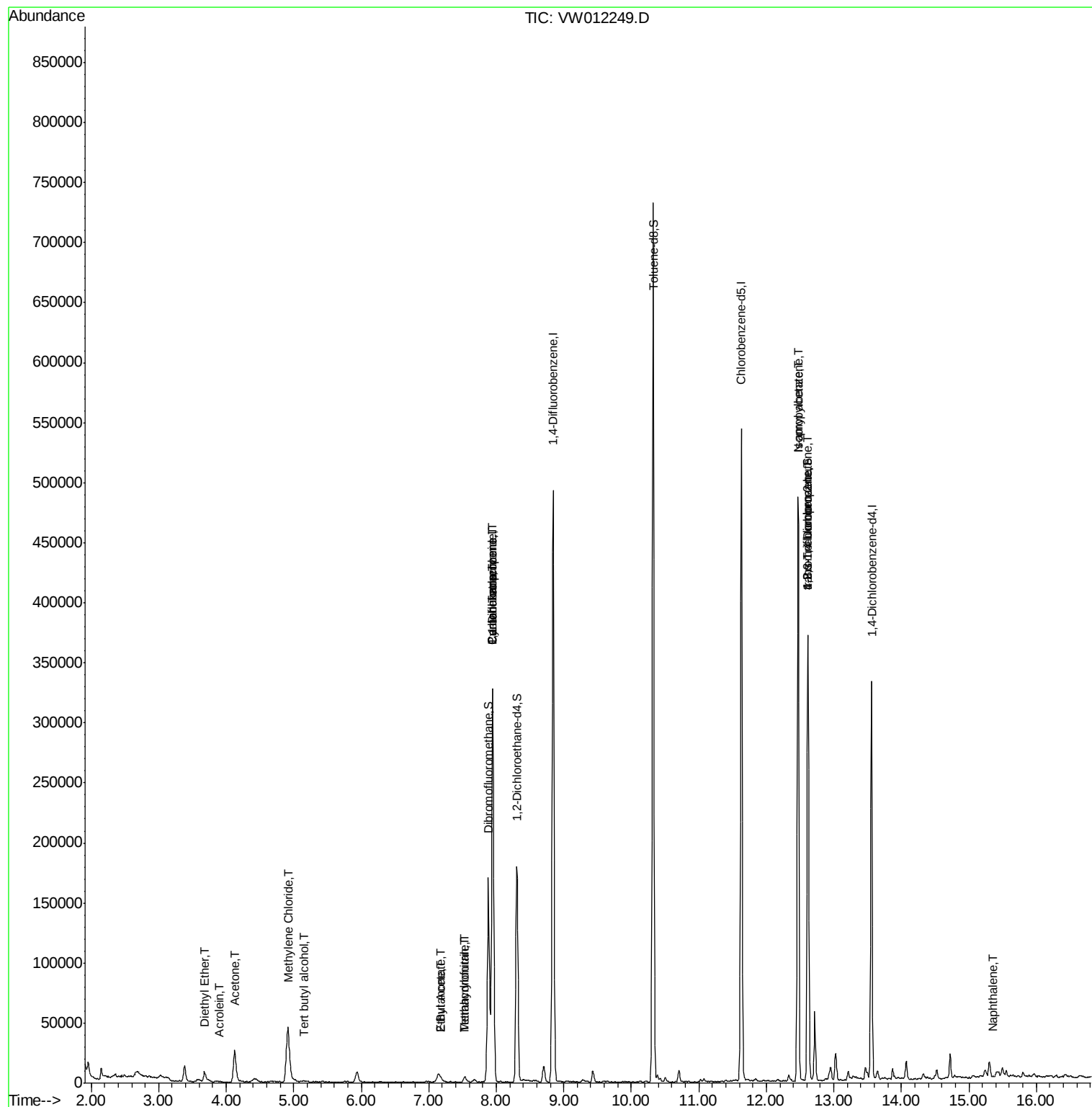
						Qvalue
8) Diethyl Ether	3.68	74	4306	3.219	ug/l	97
11) Tert butyl alcohol	5.17	59	791	4.600	ug/l #	78
13) Acrolein	3.90	56	177	1.094	ug/l #	82
16) Acetone	4.12	43	48427	66.303	ug/l	98
20) Methylene Chloride	4.91	84	33601	12.169	ug/l	96
25) 2-Butanone	7.18	43	5440	5.481	ug/l	98
29) Tetrahydrofuran	7.54	42	4096	6.879	ug/l	96
31) Cyclohexane	7.95	56	5663	1.100	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	20540	5.131	ug/l #	52
37) Ethyl Acetate	7.18	43	5440	2.480	ug/l #	73
38) Carbon Tetrachloride	7.95	117	23706	6.842	ug/l #	16
41) Methacrylonitrile	7.53	41	2608	2.023	ug/l #	53
73) Isopropylbenzene	12.47	105	20092	3.216	ug/l #	65
74) N-amyl acetate	12.47	43	14532	7.699	ug/l #	28
76) 1,2,3-Trichloropropane	12.62	75	63879	78.667	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	63879	172.481	ug/l #	6
95) Naphthalene	15.36	128	817	4.558	ug/l #	78

(#) = 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: VW012249.D

Acq: 28 Aug 2019 13:06

Instrument :

MSVOA_W

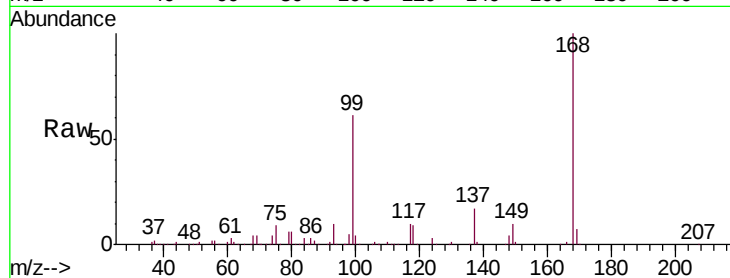
ClientSampled :

Tot Ion:168 Resp: 240362

Ion Ratio Lower Upper

168 100

99 61.0 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

120000

100000

80000

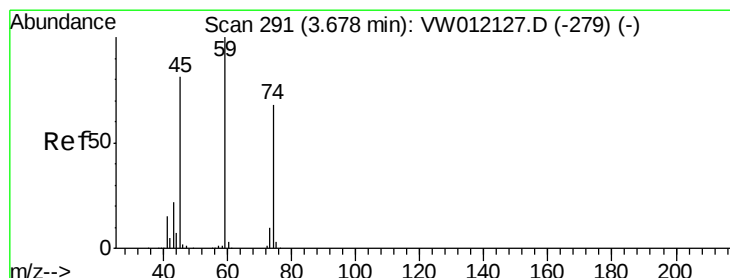
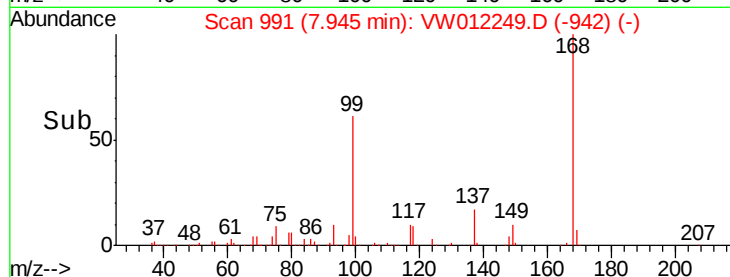
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 3.219 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012249.D

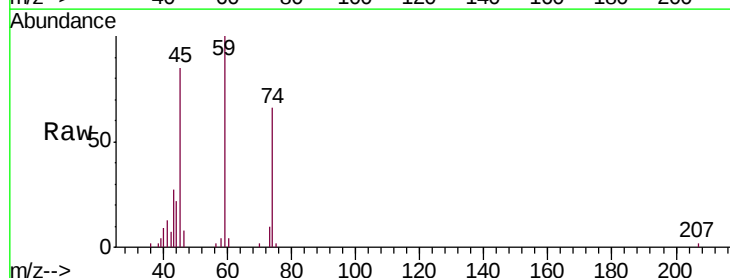
Acq: 28 Aug 2019 13:06

Tgt Ion: 74 Resp: 4306

Ion Ratio Lower Upper

74 100

45 115.4 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

2500

2000

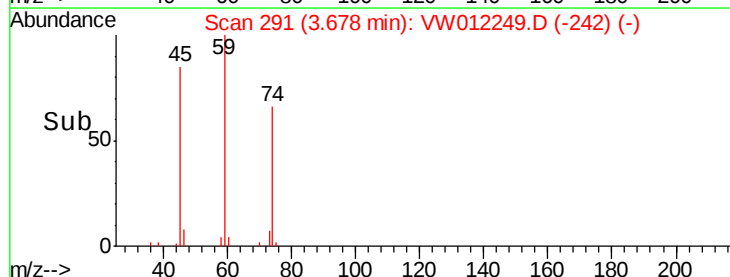
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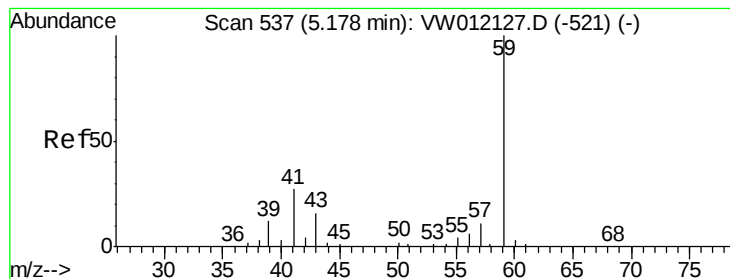
1000

500

0

Time-->



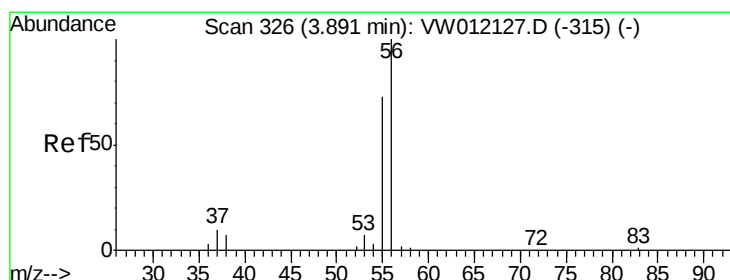
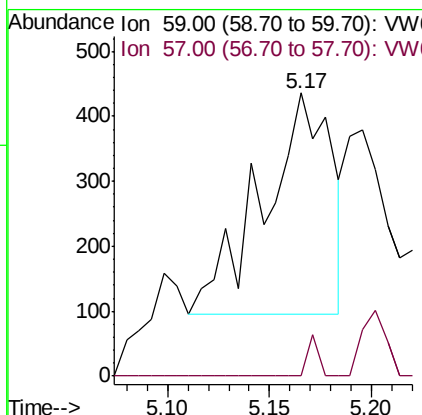
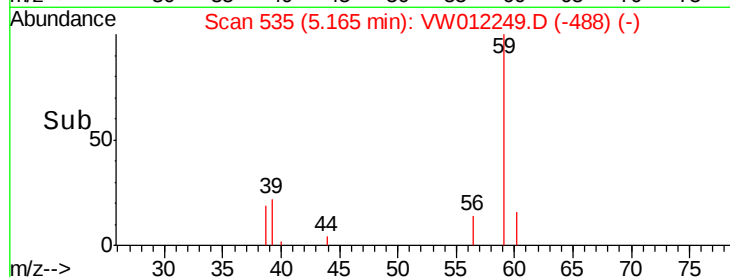
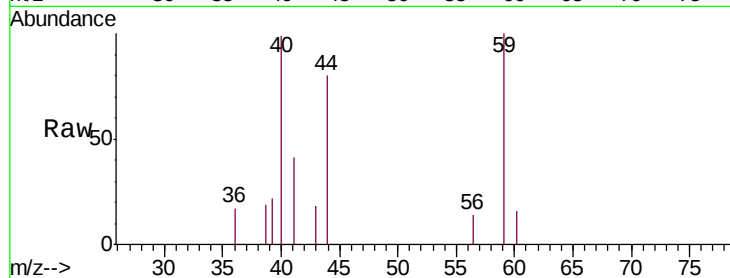


#11

Tert butyl alcohol
 Concen: 4.600 ug/l
 RT: 5.17 min Scan# 535
 Delta R.T. -0.01 min
 Lab File: VW012249.D
 Acq: 28 Aug 2019 13:06

Instrument :
 MSVOA_W
 ClientSampled :

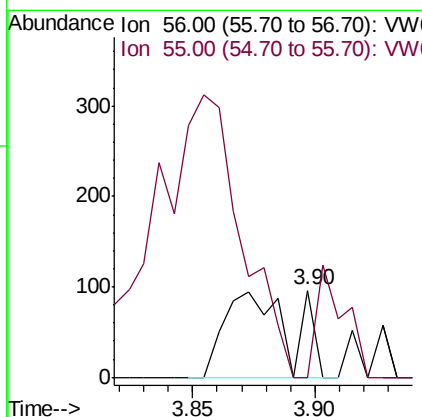
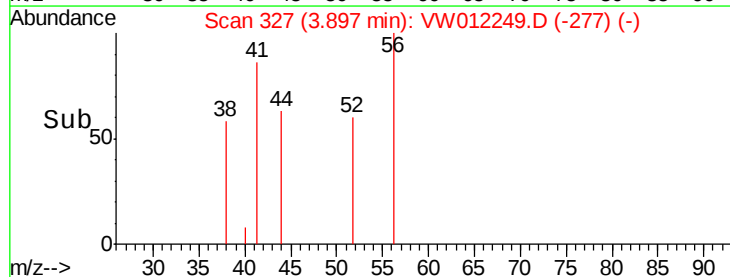
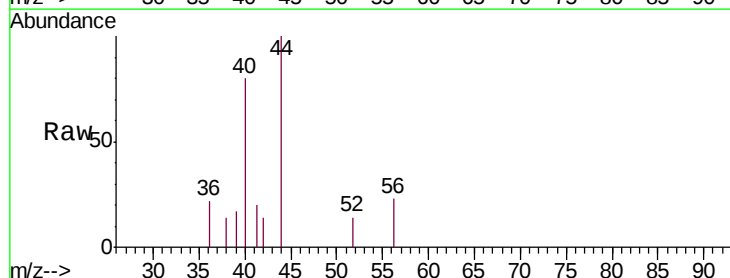
Tot Ion: 59 Resp: 791
 Ion Ratio Lower Upper
 59 100
 57 2.9 9.0 13.4#

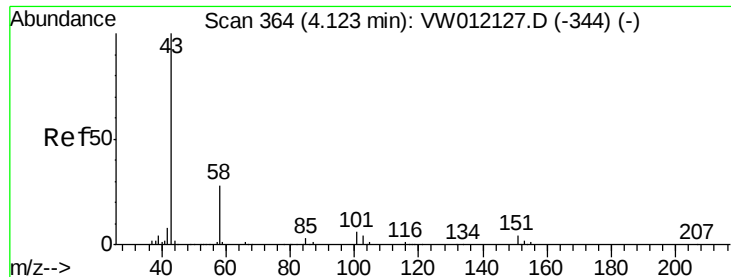


#13

Acrolein
 Concen: 1.094 ug/l
 RT: 3.90 min Scan# 327
 Delta R.T. 0.01 min
 Lab File: VW012249.D
 Acq: 28 Aug 2019 13:06

Tgt Ion: 56 Resp: 177
 Ion Ratio Lower Upper
 56 100
 55 55.4 55.8 83.8#

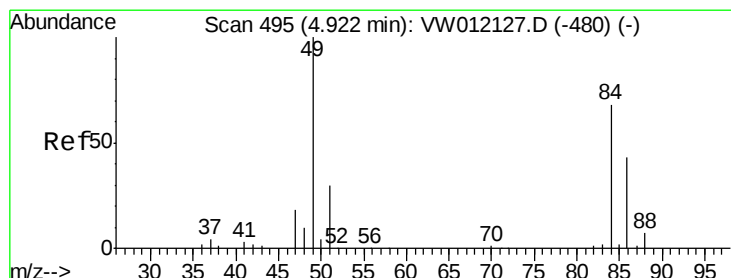
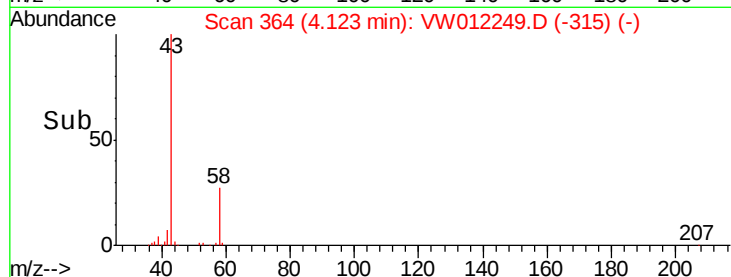
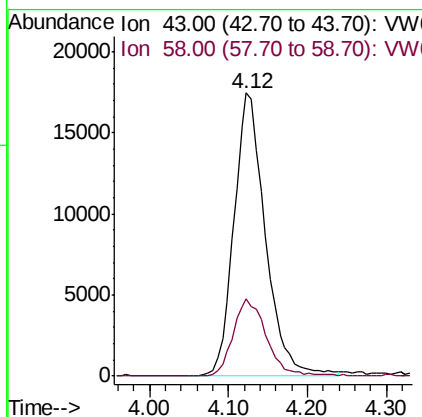
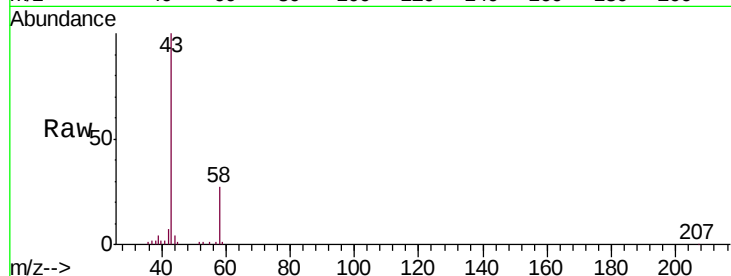




#16
Acetone
Concen: 66.303 ug/l
RT: 4.12 min Scan# 364
Delta R.T. -0.00 min
Lab File: VW012249.D
Acq: 28 Aug 2019 13:06

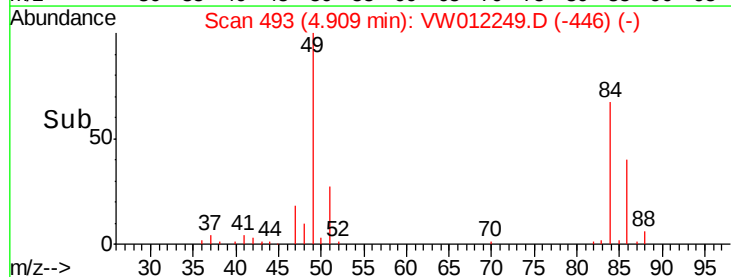
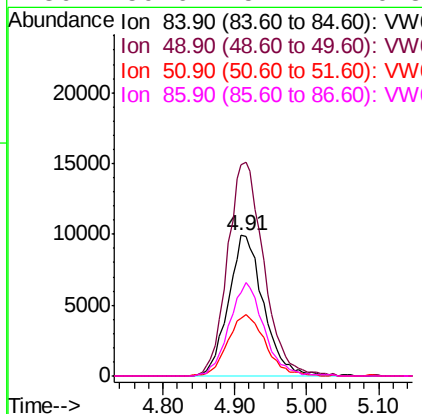
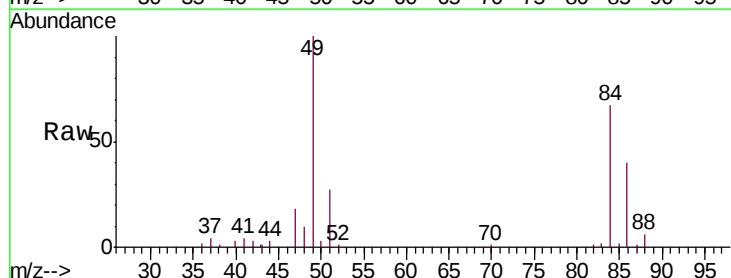
Instrument :
MSVOA_W
ClientSampleId :

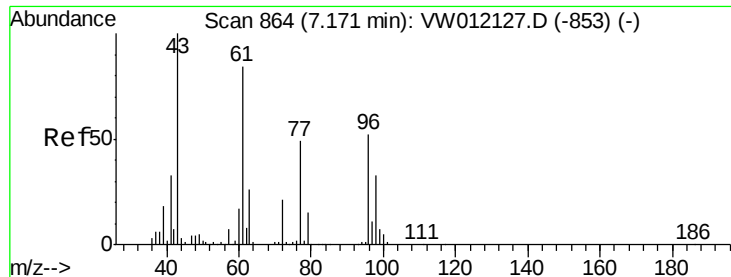
Tot Ion: 43 Resp: 48427
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6



#20
Methylene Chloride
Concen: 12.169 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012249.D
Acq: 28 Aug 2019 13:06

Tgt Ion: 84 Resp: 33601
Ion Ratio Lower Upper
84 100
49 150.1 117.8 176.8
51 40.7 35.6 53.4
86 59.6 51.2 76.8





#25

2-Butanone

Concen: 5.481 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012249.D

Acq: 28 Aug 2019 13:06

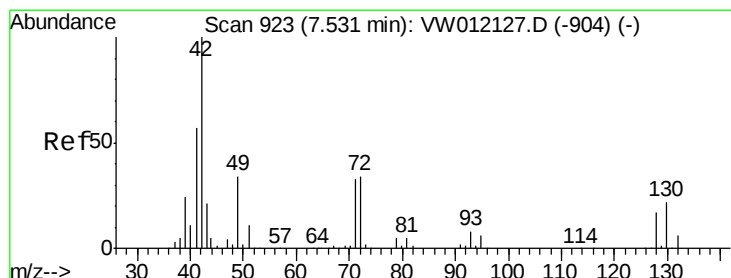
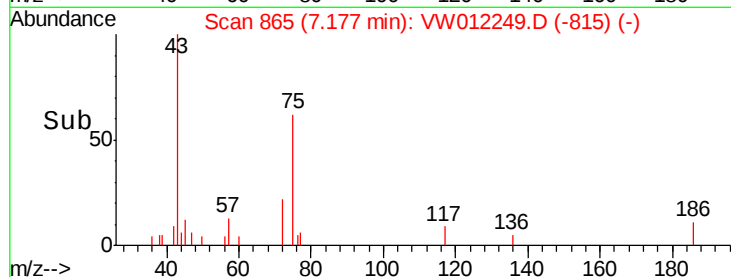
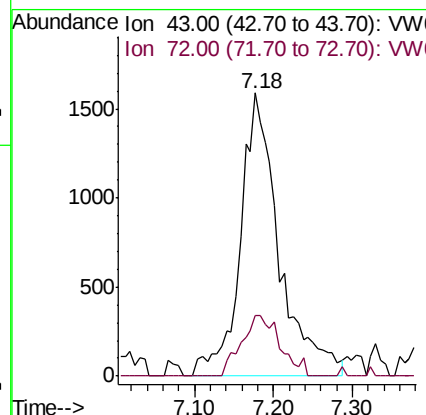
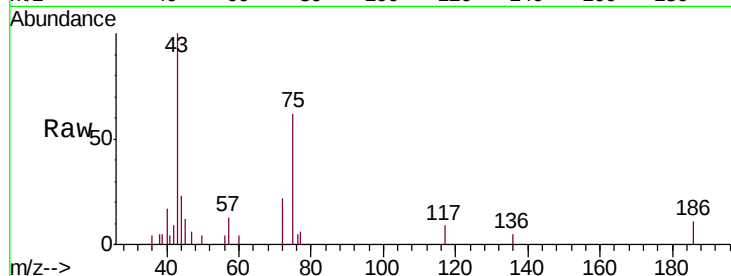
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 5440

Ion Ratio Lower Upper

43 100

72 21.5 16.6 24.8



#29

Tetrahydrofuran

Concen: 6.879 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012249.D

Acq: 28 Aug 2019 13:06

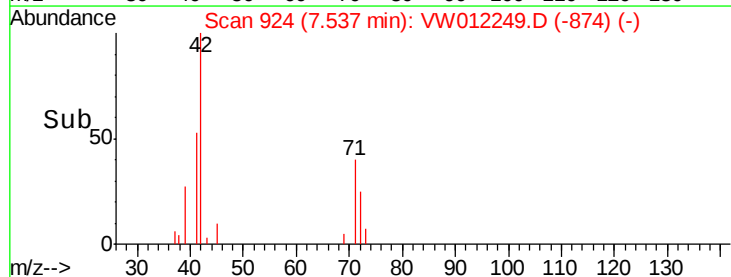
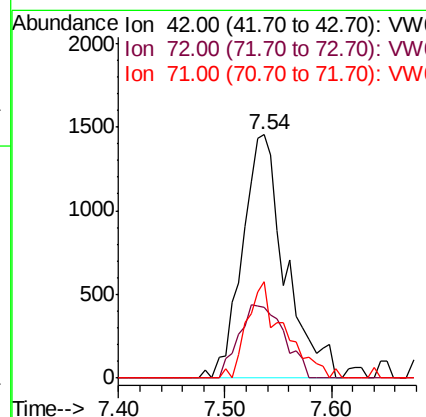
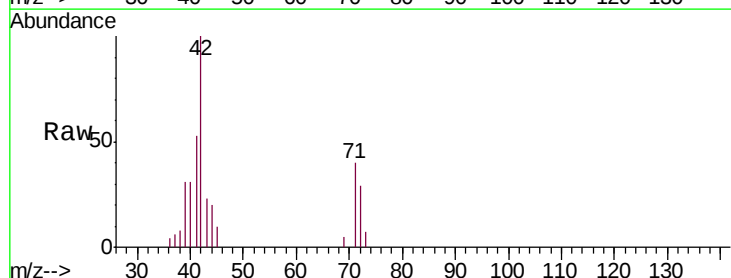
Tgt Ion: 42 Resp: 4096

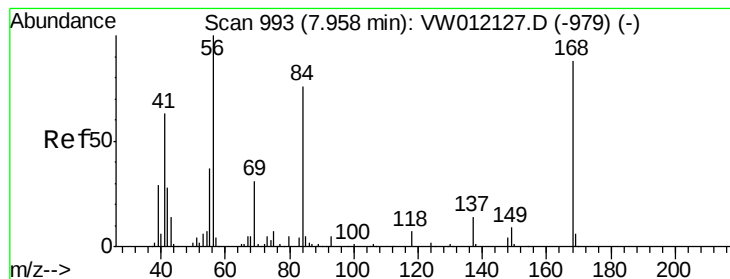
Ion Ratio Lower Upper

42 100

72 31.8 27.3 40.9

71 34.4 25.5 38.3





#31

Cyclohexane

Concen: 1.100 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

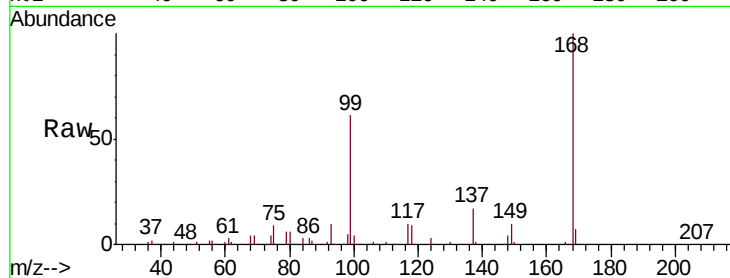
Lab File: VW012249.D

Acq: 28 Aug 2019 13:06

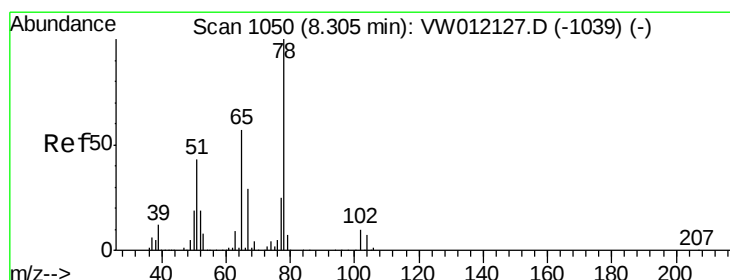
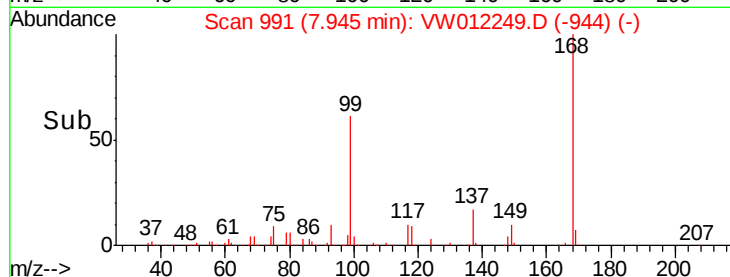
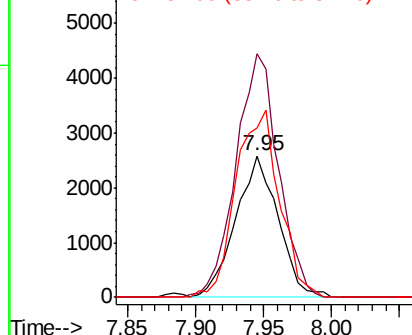
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 5663

Ion	Ratio	Lower	Upper
56	100		
69	172.4	24.9	37.3#
84	120.4	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: 49.957 ug/l

RT: 8.30 min Scan# 1050

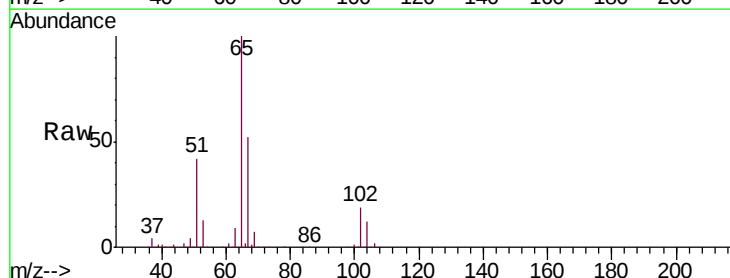
Delta R.T. -0.00 min

Lab File: VW012249.D

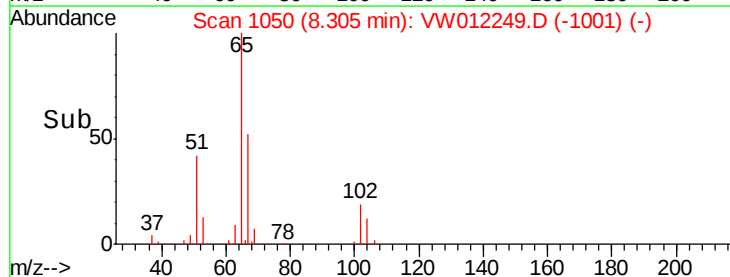
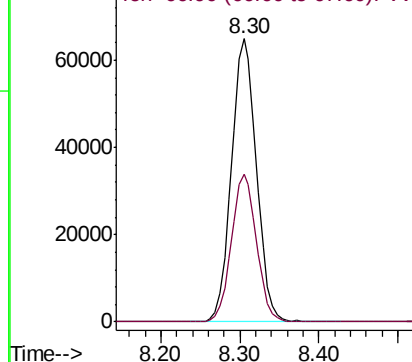
Acq: 28 Aug 2019 13:06

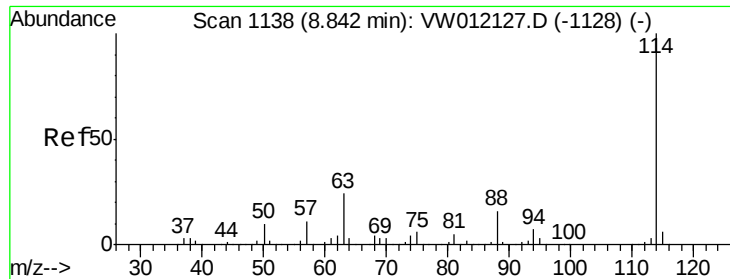
Tgt Ion: 65 Resp: 142744

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	102.6



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

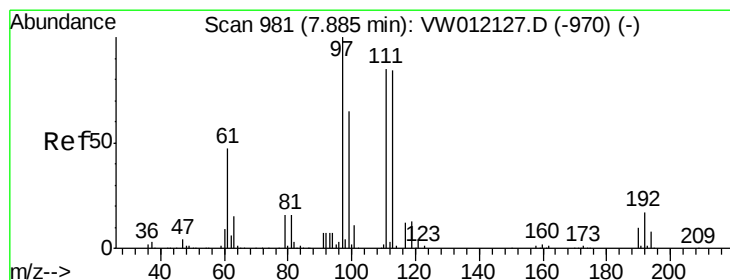
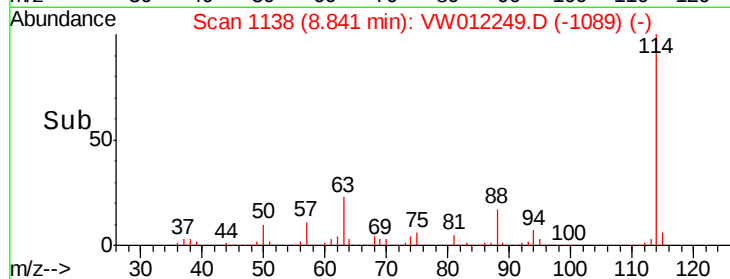
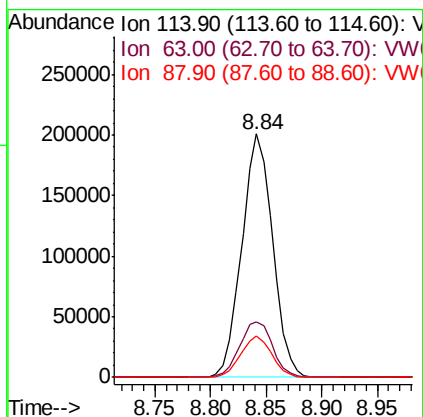
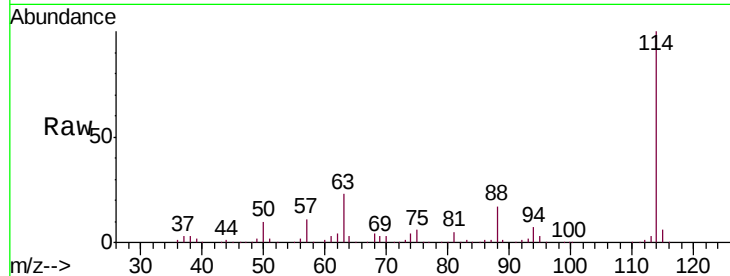




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012249.D
 Acq: 28 Aug 2019 13:06

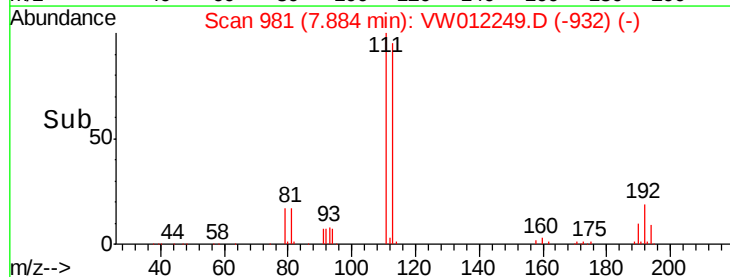
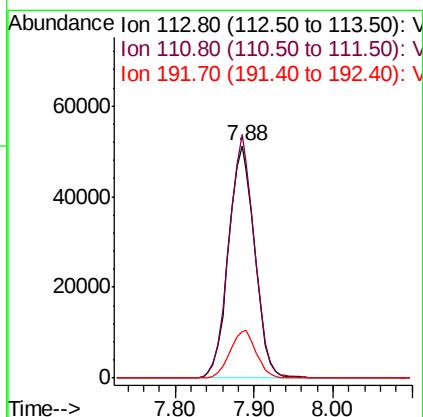
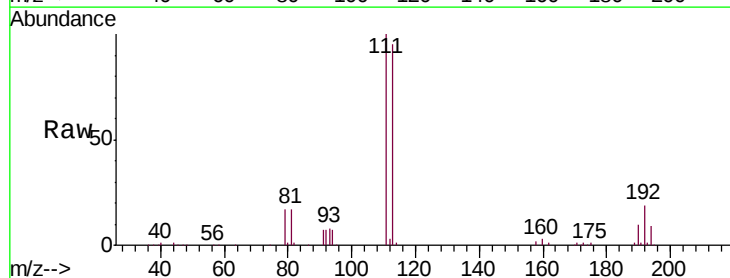
Instrument :
 MSVOA_W
 ClientSampled :

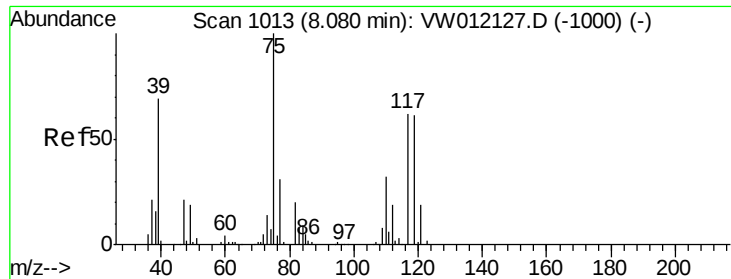
Tot Ion:114 Resp: 387374
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 48.6
 88 16.9 0.0 32.2



#35
 Dibromofluoromethane
 Concen: 51.241 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012249.D
 Acq: 28 Aug 2019 13:06

Tgt Ion:113 Resp: 118482
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.7 124.1
 192 20.6 16.2 24.2

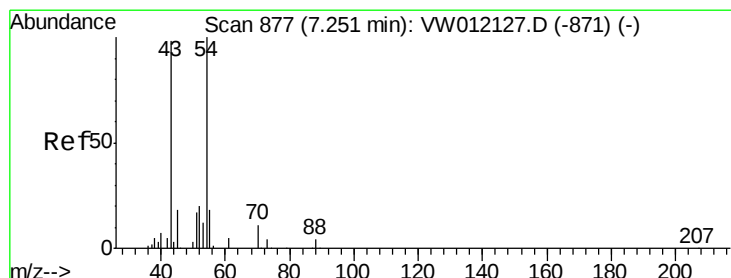
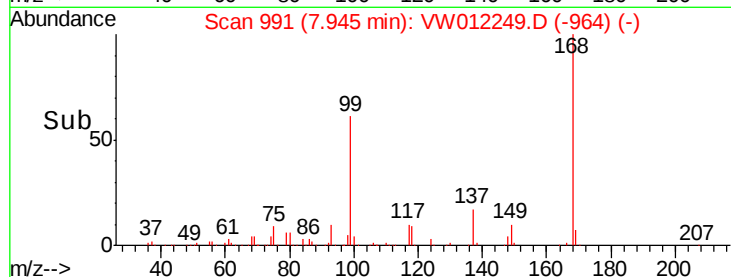
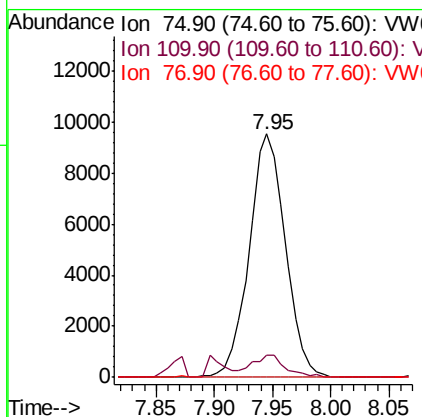
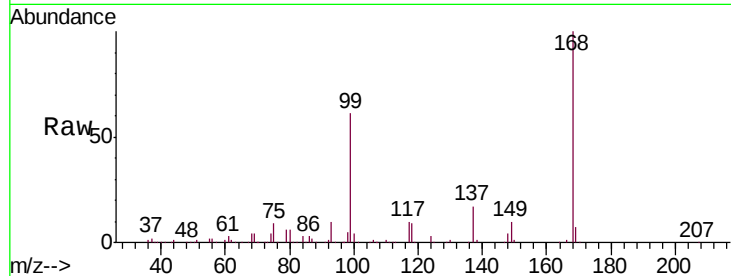




#36
 1,1-Dichloropropene
 Concen: 5.131 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012249.D
 Acq: 28 Aug 2019 13:06

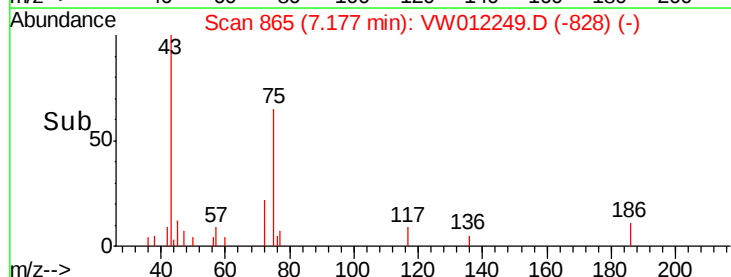
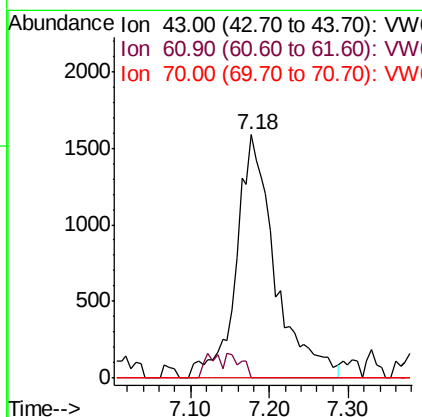
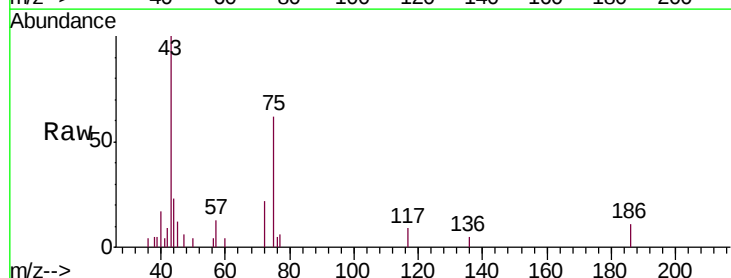
Instrument :
 MSVOA_W
 ClientSampled :

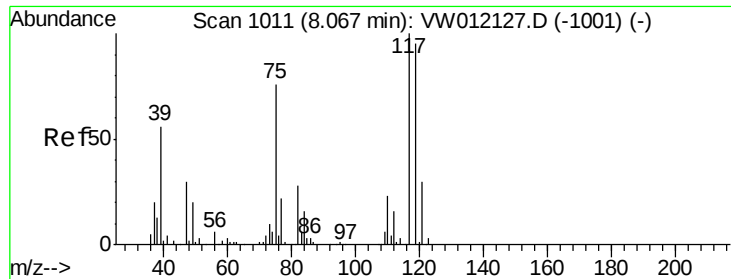
Tot Ion: 75 Resp: 20540
 Ion Ratio Lower Upper
 75 100
 110 8.8 15.6 46.8#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 2.480 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. -0.07 min
 Lab File: VW012249.D
 Acq: 28 Aug 2019 13:06

Tgt Ion: 43 Resp: 5440
 Ion Ratio Lower Upper
 43 100
 61 0.0 9.2 13.8#
 70 0.0 6.9 10.3#





#38

Carbon Tetrachloride

Concen: 6.842 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW012249.D

Acq: 28 Aug 2019 13:06

Instrument :

MSVOA_W

ClientSampled :

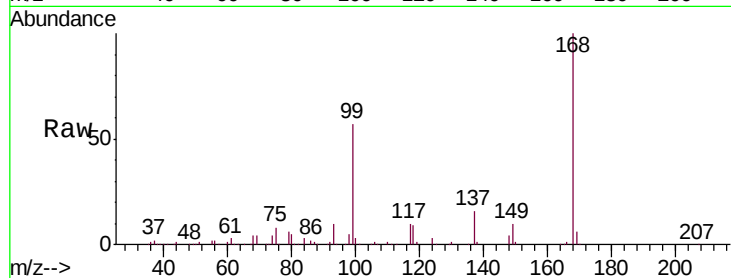
Tot Ion:117 Resp: 23706

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

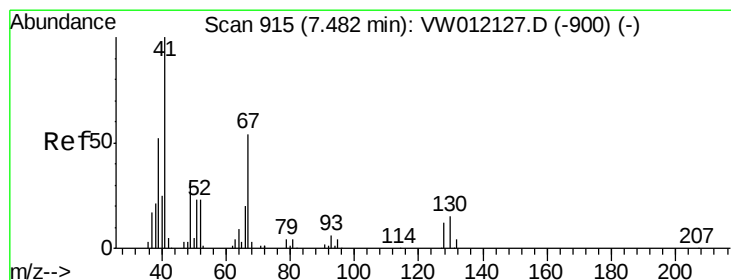
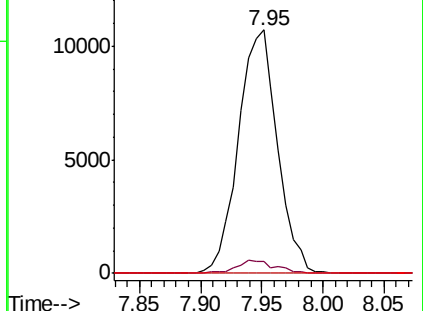
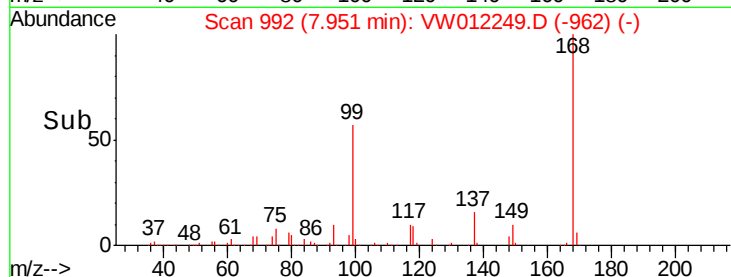
121 0.0 23.8 35.8#



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



#41

Methacrylonitrile

Concen: 2.023 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW012249.D

Acq: 28 Aug 2019 13:06

Tgt Ion: 41 Resp: 2608

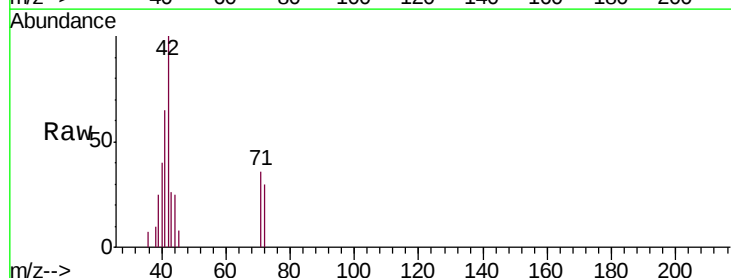
Ion Ratio Lower Upper

41 100

39 47.5 45.8 68.8

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

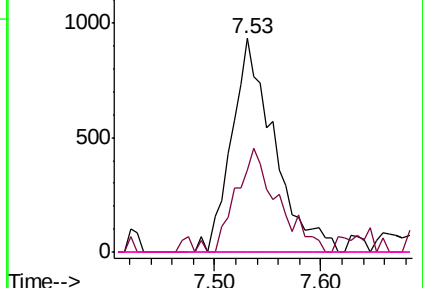
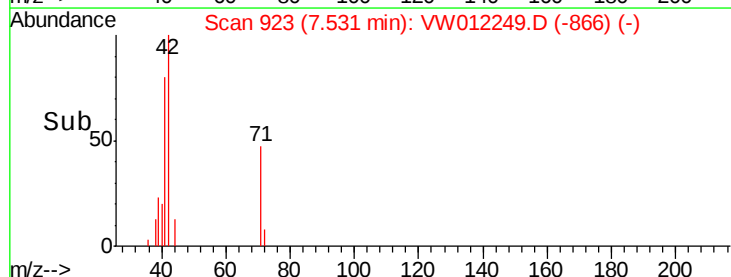


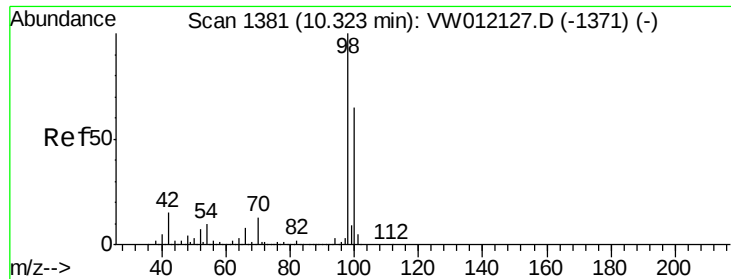
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW

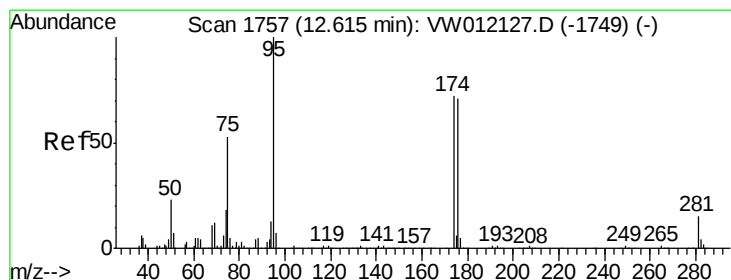
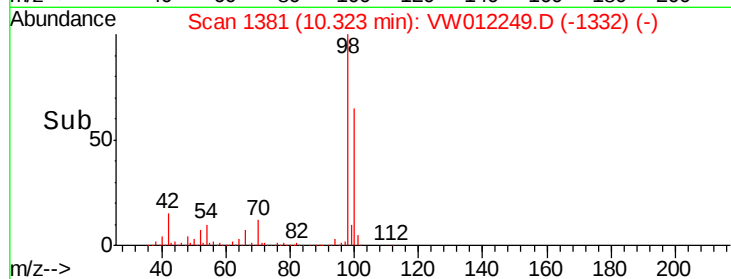
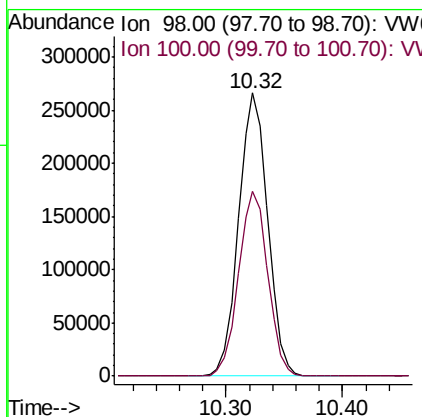
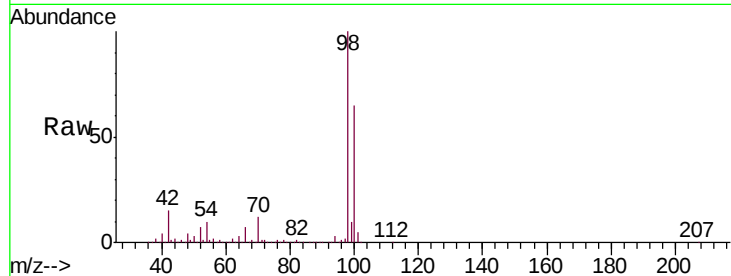




#50
Toluene-d8
Concen: 49.409 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012249.D
Acq: 28 Aug 2019 13:06

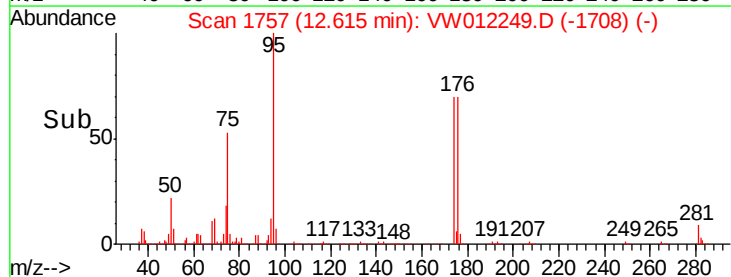
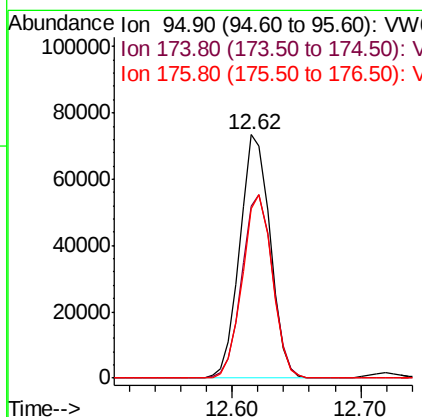
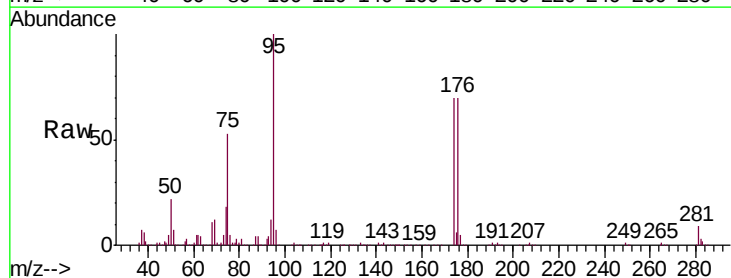
Instrument :
MSVOA_W
ClientSampleId :

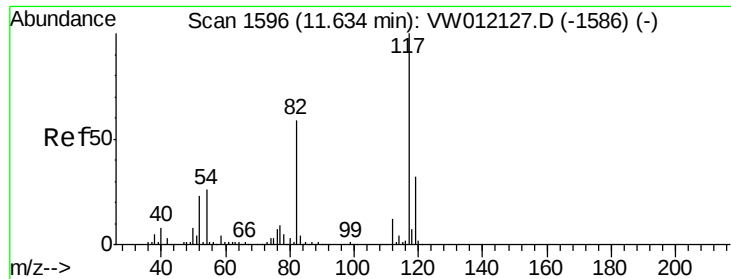
Tot Ion: 98 Resp: 463231
Ion Ratio Lower Upper
98 100
100 66.1 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 36.364 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012249.D
Acq: 28 Aug 2019 13:06

Tgt Ion: 95 Resp: 120178
Ion Ratio Lower Upper
95 100
174 75.6 0.0 150.8
176 73.8 0.0 148.6

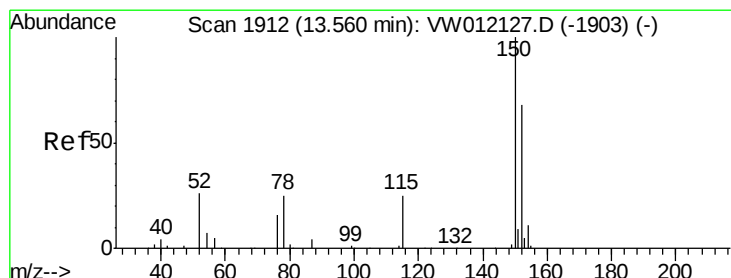
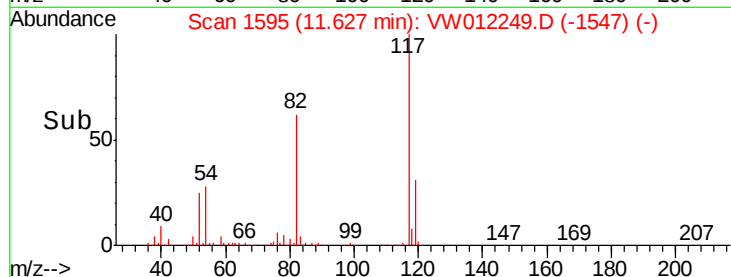
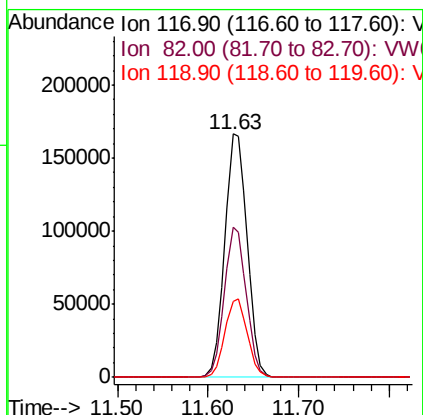
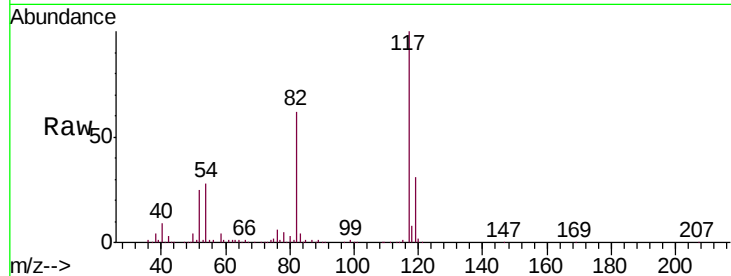




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012249.D
Acq: 28 Aug 2019 13:06

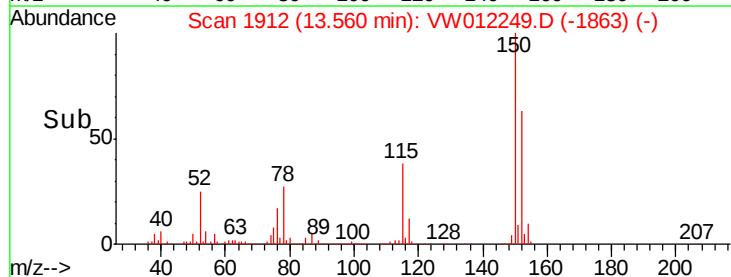
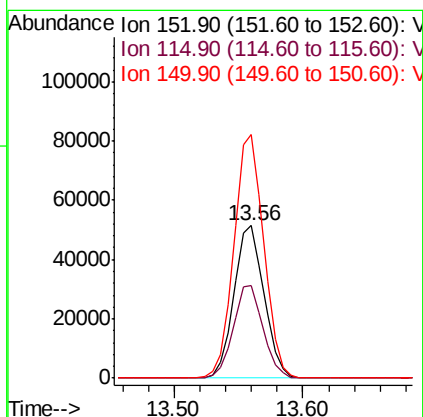
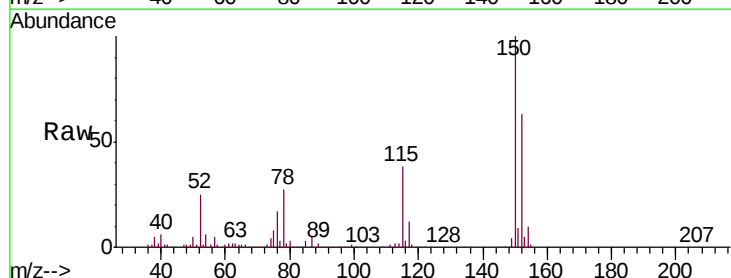
Instrument :
MSVOA_W
ClientSampleId :

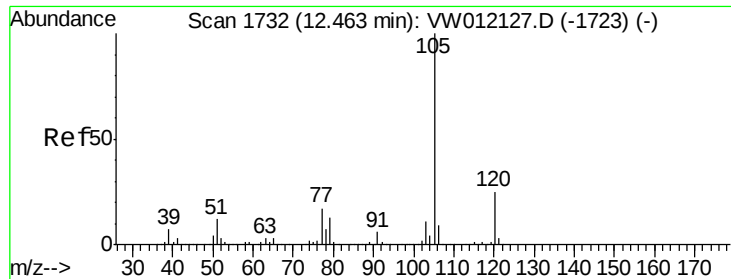
Tot Ion:117 Resp: 286333
Ion Ratio Lower Upper
117 100
82 61.9 47.4 71.2
119 30.9 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012249.D
Acq: 28 Aug 2019 13:06

Tgt Ion:152 Resp: 83375
Ion Ratio Lower Upper
152 100
115 60.1 30.1 90.3
150 158.4 0.0 345.8





#73

Isopropylbenzene

Concen: 3.216 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW012249.D

Acq: 28 Aug 2019 13:06

Instrument :

MSVOA_W

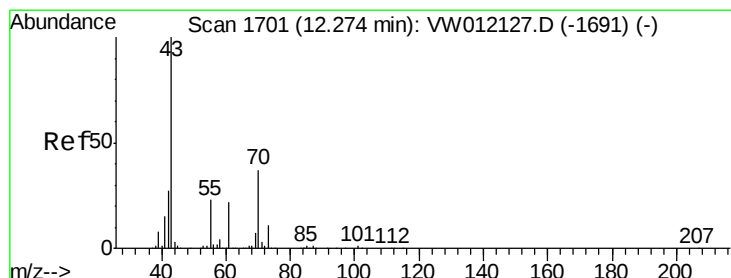
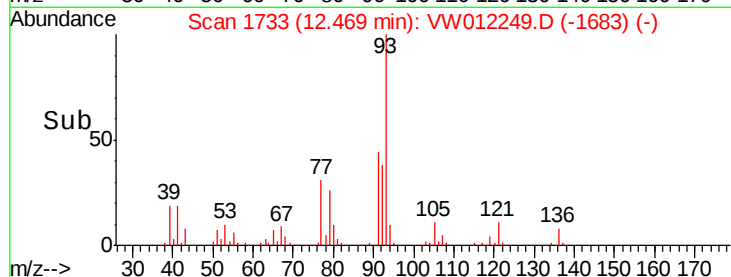
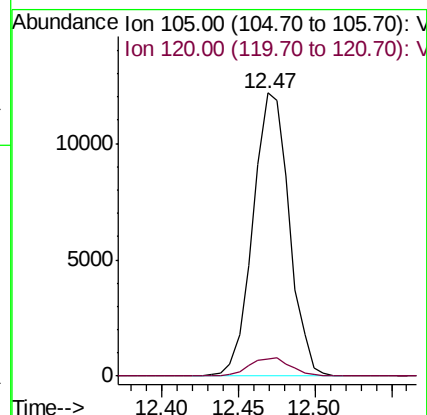
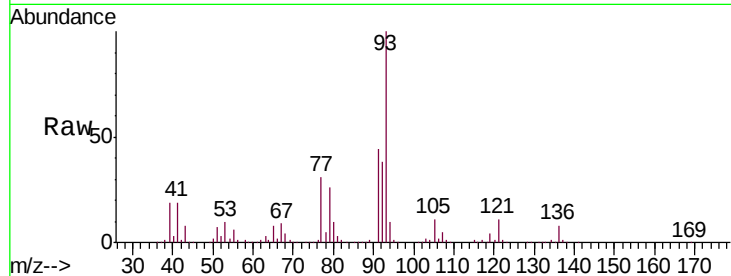
ClientSampled :

Tot Ion:105 Resp: 20092

Ion Ratio Lower Upper

105 100

120 7.2 12.5 37.5#



#74

N-ethyl acetate

Concen: 7.699 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.19 min

Lab File: VW012249.D

Acq: 28 Aug 2019 13:06

Tgt Ion: 43 Resp: 14532

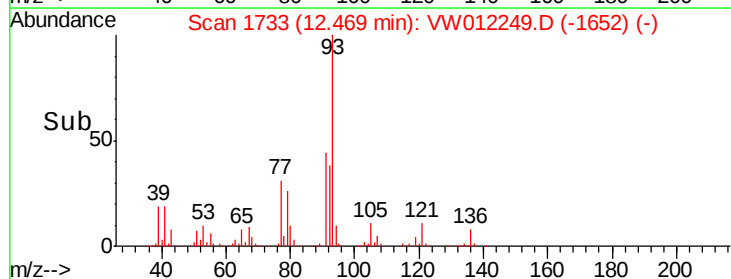
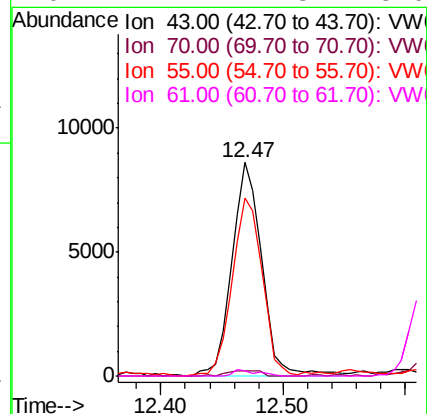
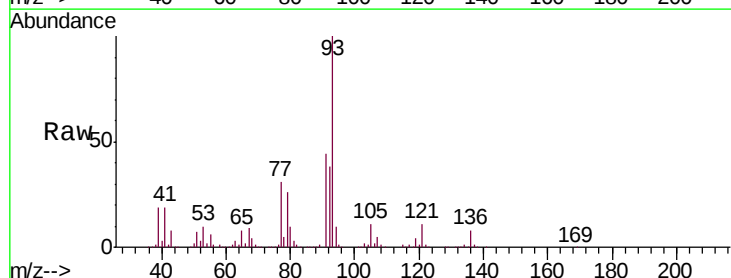
Ion Ratio Lower Upper

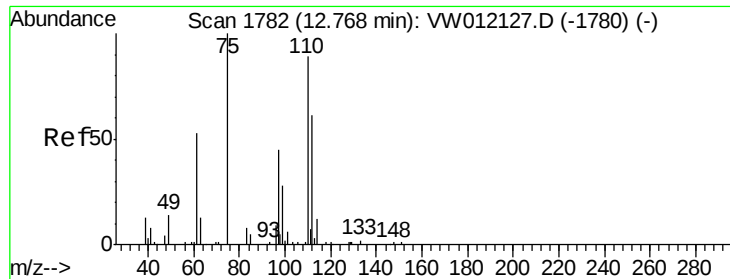
43 100

70 2.8 28.6 43.0#

55 83.3 17.8 26.6#

61 2.4 17.3 25.9#

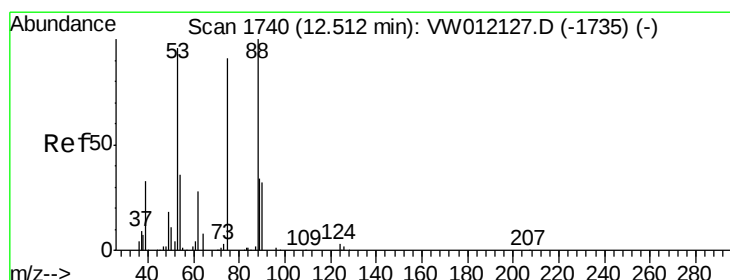
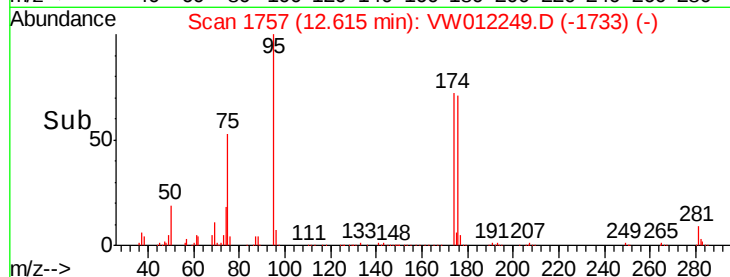
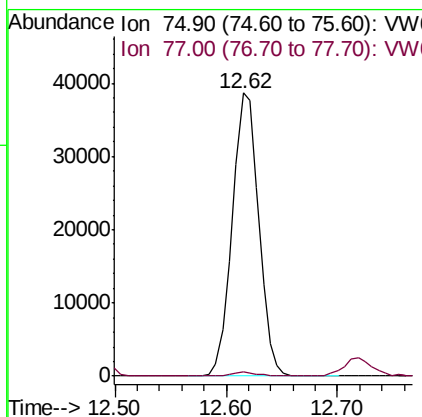
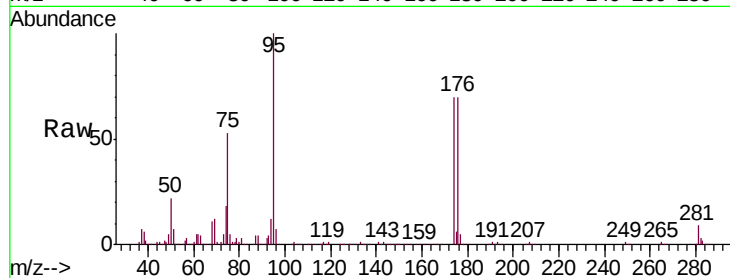




#76
 1,2,3-Trichloropropane
 Concen: 78.667 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012249.D
 Acq: 28 Aug 2019 13:06

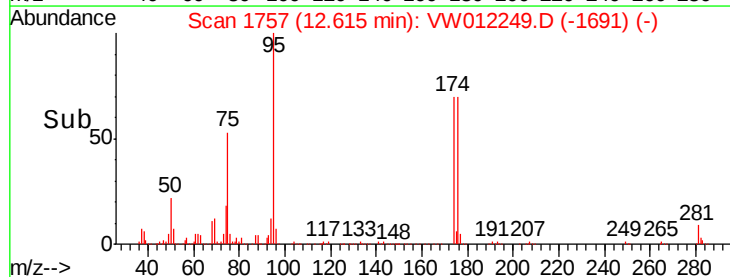
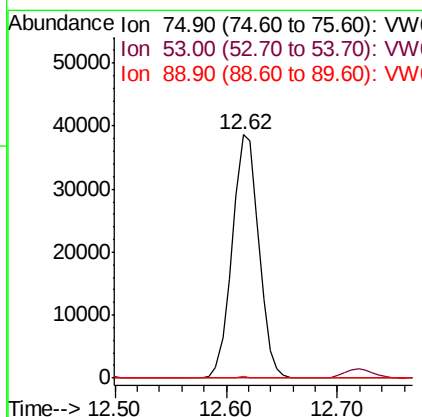
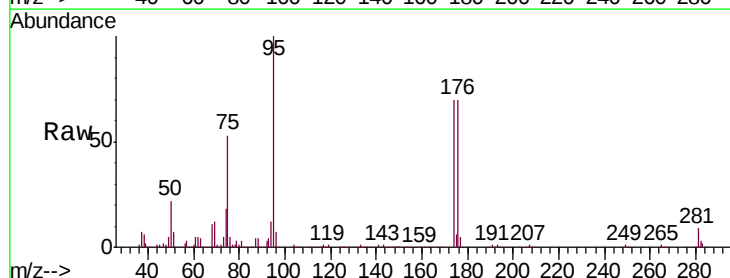
Instrument :
 MSVOA_W
 ClientSampleId :

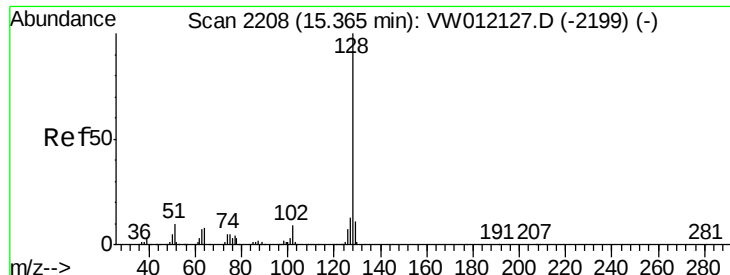
Tot Ion: 75 Resp: 63879
 Ion Ratio Lower Upper
 75 100
 77 1.6 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 172.481 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW012249.D
 Acq: 28 Aug 2019 13:06

Tgt Ion: 75 Resp: 63879
 Ion Ratio Lower Upper
 75 100
 53 0.0 89.4 134.0#
 89 0.3 34.5 51.7#





#95

Naphthalene

Concen: 4.558 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

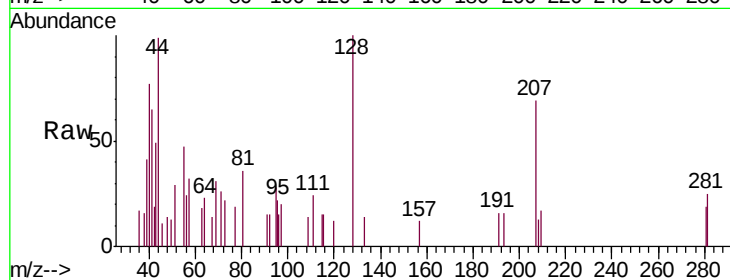
Lab File: VW012249.D

Acq: 28 Aug 2019 13:06

Instrument :

MSVOA_W

ClientSampleId :



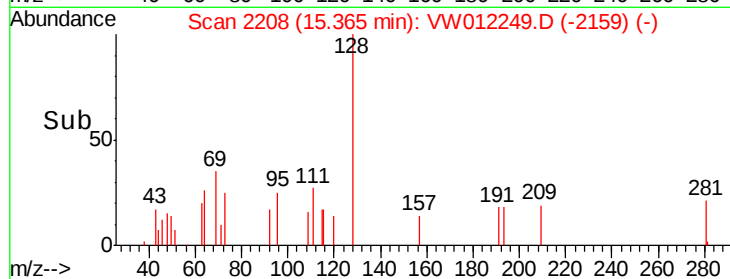
Tot Ion:128 Resp: 817

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 8.1 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

