

Data File : VW011181.D
Acq On : 09 Jul 2019 16:07
Operator : SY/VA
Sample : K3627-01RE
Misc : 4.46G/5ML/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TR-05-070819RE

Quant Time: Jul 10 04:31:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 09 07:16:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	26461	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.85	114	42555	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.63	117	31856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	10143	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.32	65	17351	52.18	ug/l	0.02
Spiked Amount	50.000		Recovery	=	104.36%	
35) Dibromofluoromethane	7.90	113	13879	54.72	ug/l	0.02
Spiked Amount	50.000		Recovery	=	109.44%	
50) Toluene-d8	10.33	98	49357	48.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.28%	
62) 4-Bromofluorobenzene	12.62	95	12862	34.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.46%	

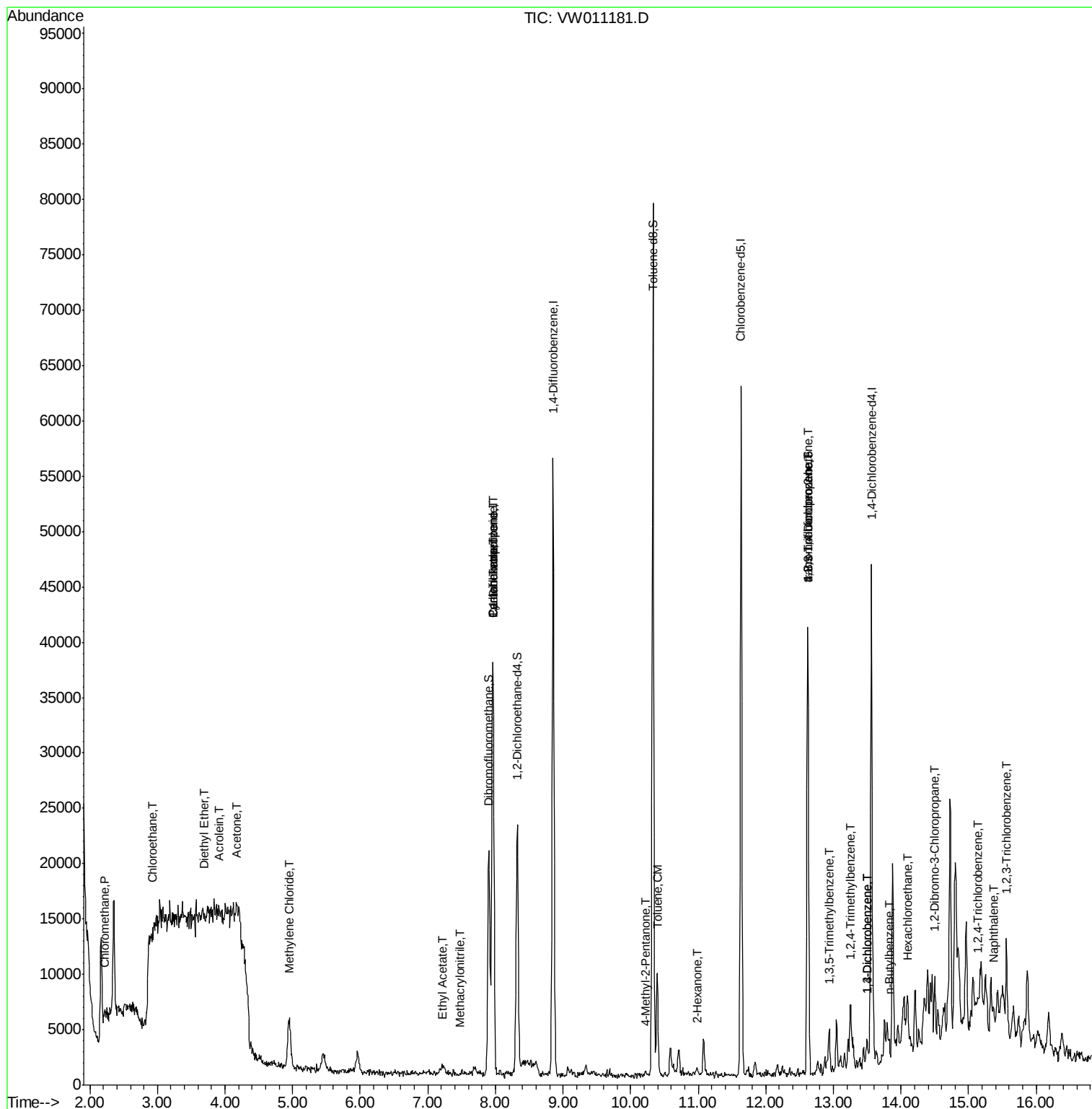
Target Compounds			Qvalue			
3) Chloromethane	2.21	50	352	1.384	ug/l #	50
6) Chloroethane	2.92	64	283	1.579	ug/l #	76
8) Diethyl Ether	3.69	74	314	1.919	ug/l	64
13) Acrolein	3.90	56	108	5.510	ug/l #	1
16) Acetone	4.17	43	3000	37.499	ug/l	91
18) Methyl Acetate	4.64	43	112	Below Cal	#	57
20) Methylene Chloride	4.95	84	2823	8.945	ug/l #	79
31) Cyclohexane	7.96	56	935	1.452	ug/l #	12
36) 1,1-Dichloropropene	7.96	75	2520	5.561	ug/l #	46
37) Ethyl Acetate	7.22	43	330	1.212	ug/l #	72
38) Carbon Tetrachloride	7.96	117	2642	6.877	ug/l #	17
41) Methacrylonitrile	7.48	41	157	1.008	ug/l #	52
51) 4-Methyl-2-Pentanone	10.22	43	521	1.940	ug/l #	81
52) Toluene	10.39	92	3787	4.985	ug/l	95
59) 2-Hexanone	10.98	43	649	3.485	ug/l	86
76) 1,2,3-Trichloropropane	12.62	75	6970	59.463	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	811	1.259	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.62	75	6970	134.495	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	3496	5.405	ug/l	91
87) 1,3-Dichlorobenzene	13.50	146	396	1.210	ug/l	88
88) 1,4-Dichlorobenzene	13.50	146	396	1.201	ug/l	88
89) n-Butylbenzene	13.82	91	1543	2.225	ug/l #	65
90) Hexachloroethane	14.11	117	269	2.117	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.49	75	61	2.213	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.13	180	516	2.522	ug/l #	50
95) Naphthalene	15.37	128	1515	3.865	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.56	180	529	2.930	ug/l #	68

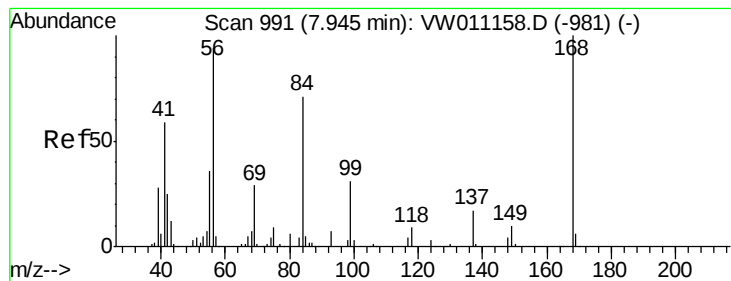
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 994

Delta R.T. 0.02 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

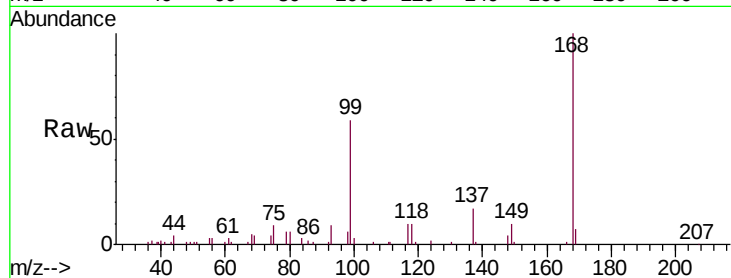
TR-05-070819RE

Tgt Ion:168 Resp: 26461

Ion Ratio Lower Upper

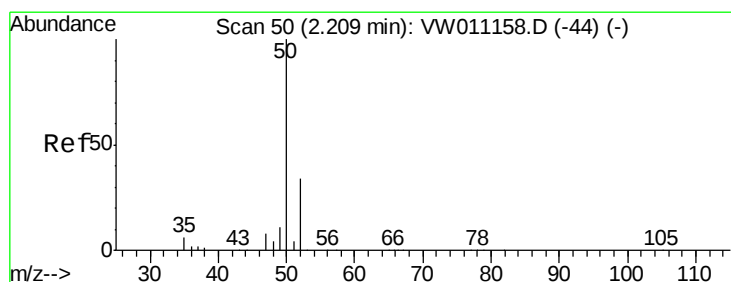
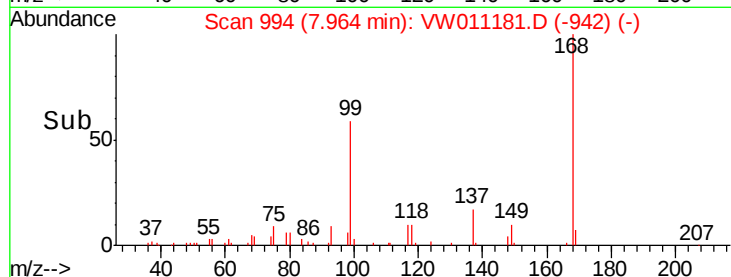
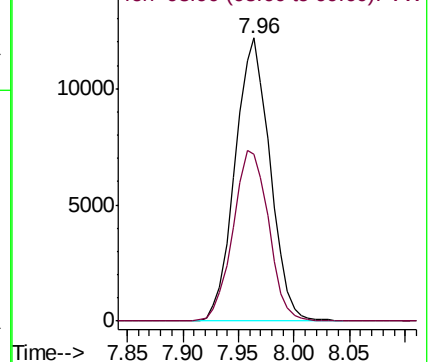
168 100

99 58.8 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.384 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW011181.D

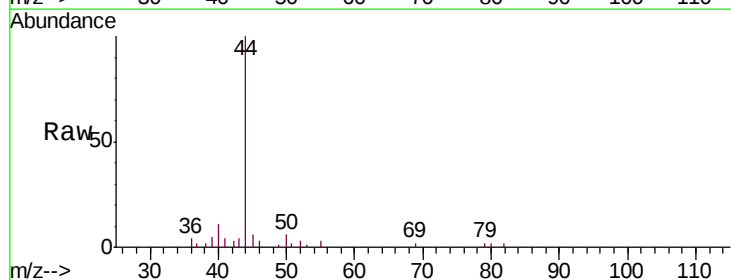
Acq: 09 Jul 2019 16:07

Tgt Ion: 50 Resp: 352

Ion Ratio Lower Upper

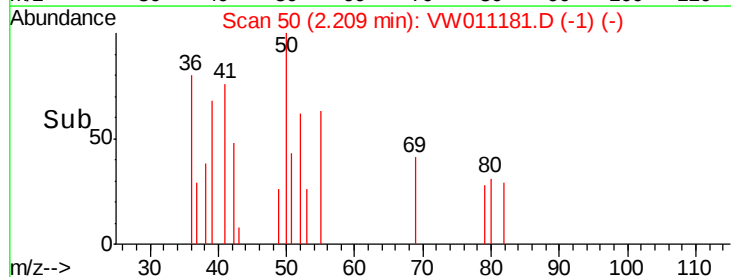
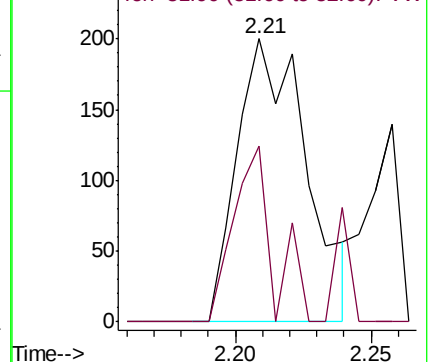
50 100

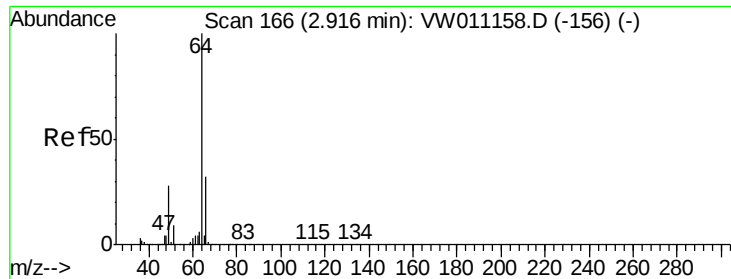
52 62.0 26.9 40.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#6

Chloroethane

Concen: 1.579 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

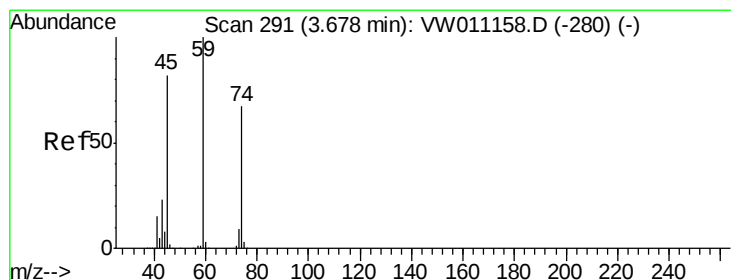
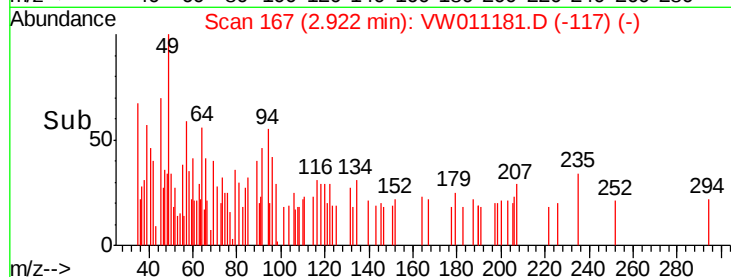
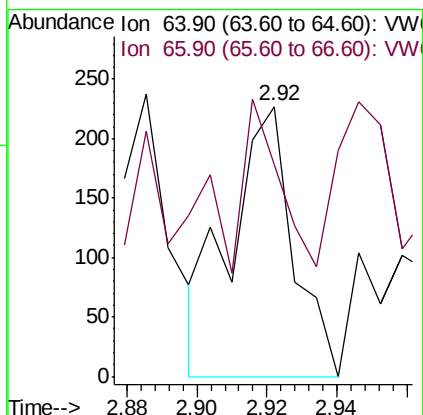
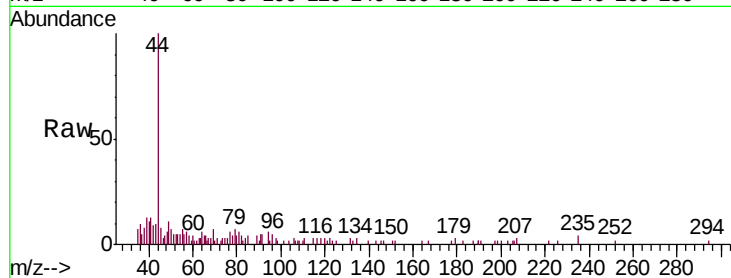
TR-05-070819RE

Tgt Ion: 64 Resp: 283

Ion Ratio Lower Upper

64 100

66 18.9 25.8 38.8#



#8

Diethyl Ether

Concen: 1.919 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW011181.D

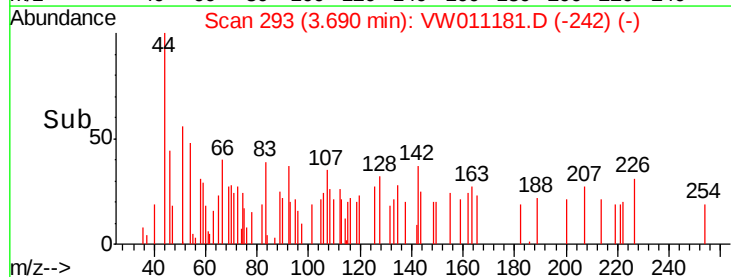
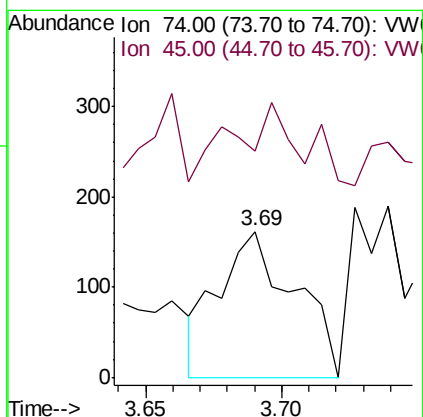
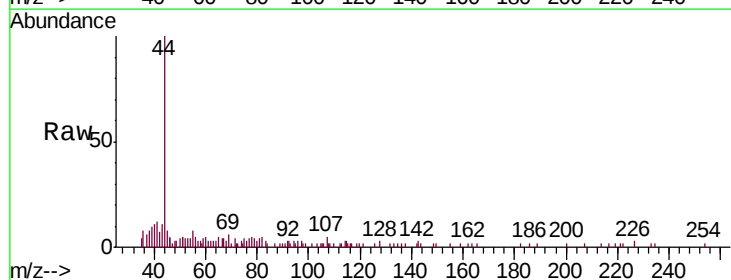
Acq: 09 Jul 2019 16:07

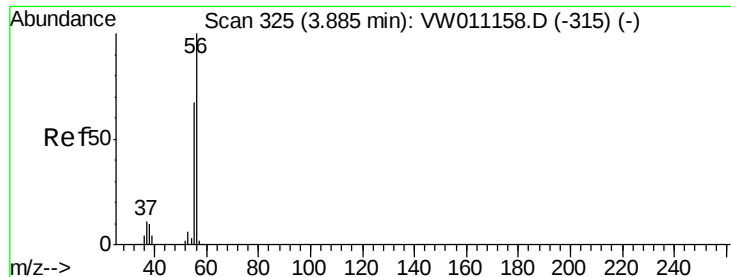
Tgt Ion: 74 Resp: 314

Ion Ratio Lower Upper

74 100

45 80.3 59.9 179.7





#13

Acrolein

Concen: 5.510 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.02 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

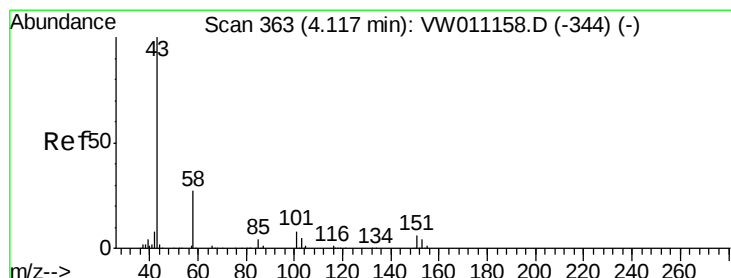
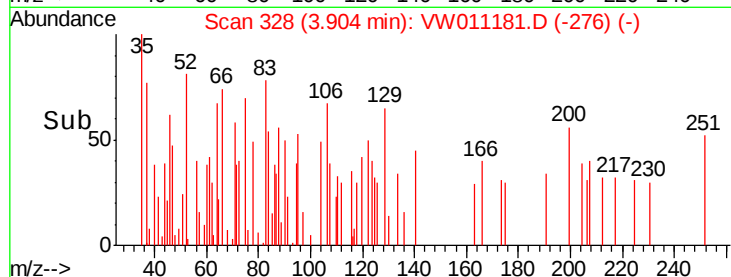
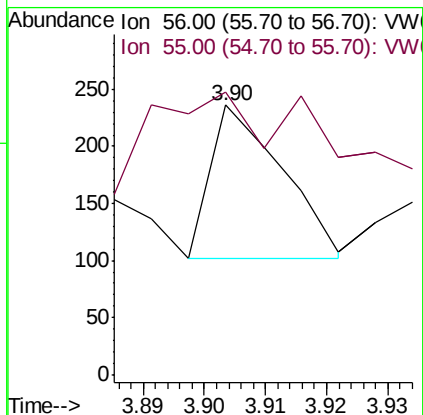
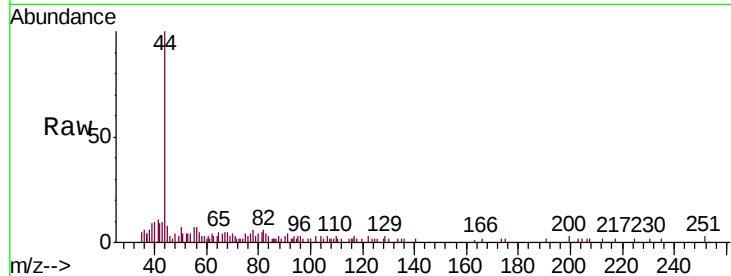
TR-05-070819RE

Tgt Ion: 56 Resp: 108

Ion Ratio Lower Upper

56 100

55 171.3 56.4 84.6#



#16

Acetone

Concen: 37.499 ug/l

RT: 4.17 min Scan# 371

Delta R.T. 0.05 min

Lab File: VW011181.D

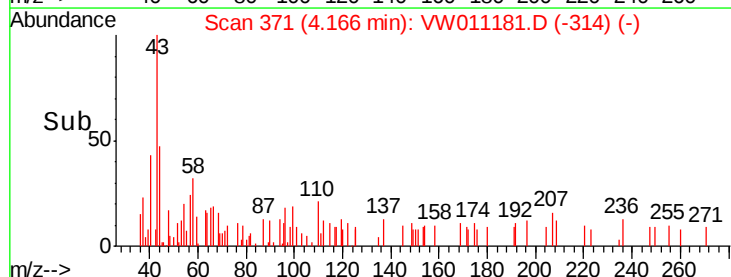
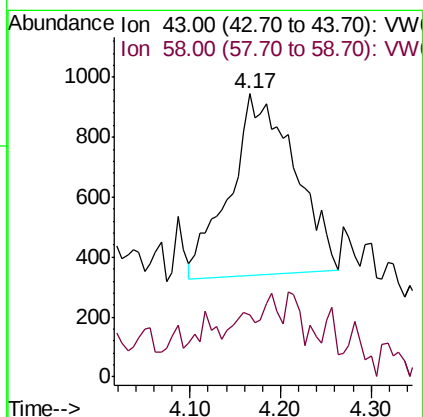
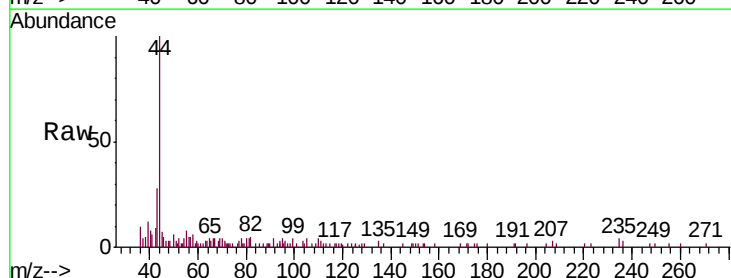
Acq: 09 Jul 2019 16:07

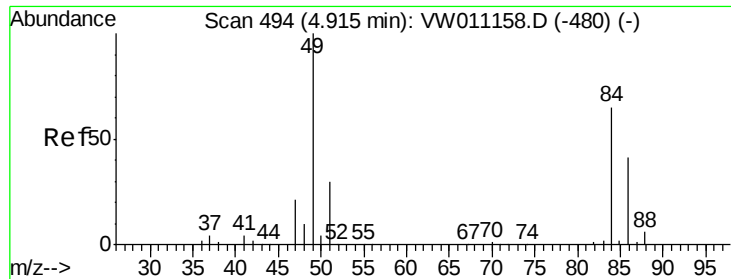
Tgt Ion: 43 Resp: 3000

Ion Ratio Lower Upper

43 100

58 22.3 21.8 32.6

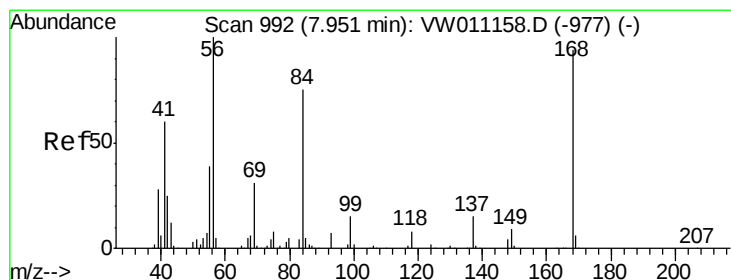
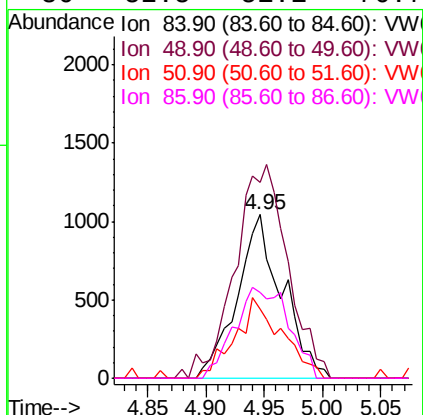
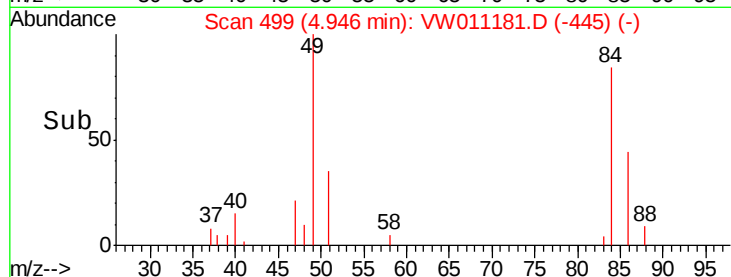
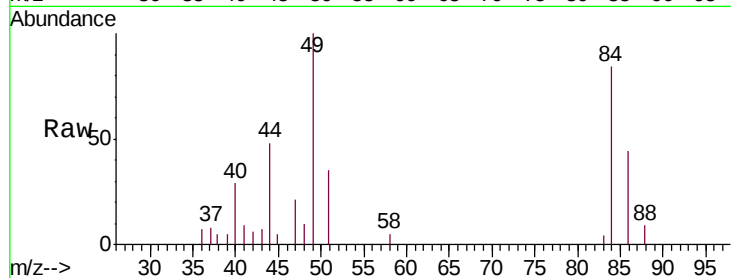




#20
Methylene Chloride
Concen: 8.945 ug/l
RT: 4.95 min Scan# 499
Delta R.T. 0.03 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

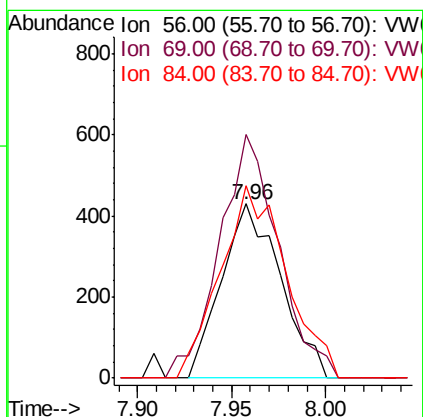
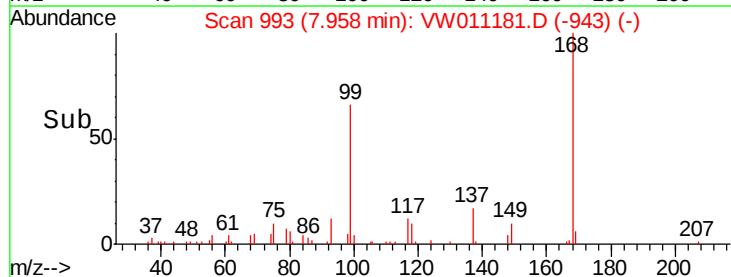
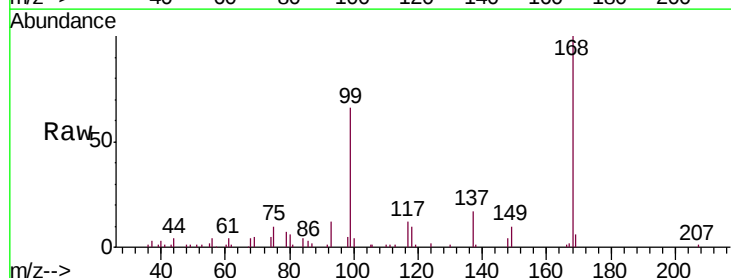
Instrument :
MSVOA_W
ClientSampleId :
TR-05-070819RE

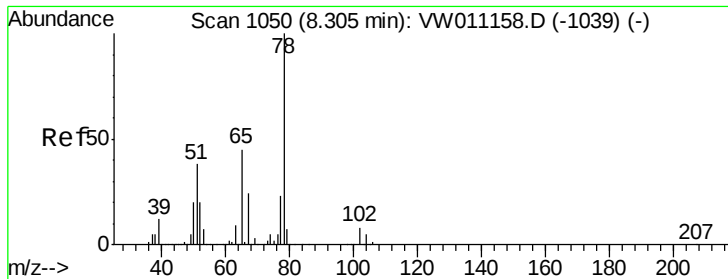
Tgt Ion: 84 Resp: 2823
Ion Ratio Lower Upper
84 100
49 119.7 123.8 185.6#
51 42.0 37.4 56.2
86 52.5 51.1 76.7



#31
Cyclohexane
Concen: 1.452 ug/l
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

Tgt Ion: 56 Resp: 935
Ion Ratio Lower Upper
56 100
69 140.1 24.6 36.8#
84 110.7 60.1 90.1#





#33

1,2-Dichloroethane-d4

Concen: 52.185 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.02 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

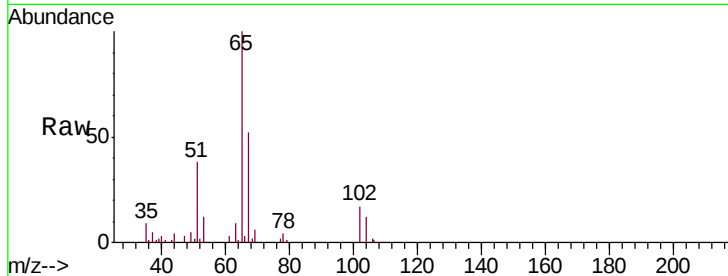
TR-05-070819RE

Tgt Ion: 65 Resp: 17351

Ion Ratio Lower Upper

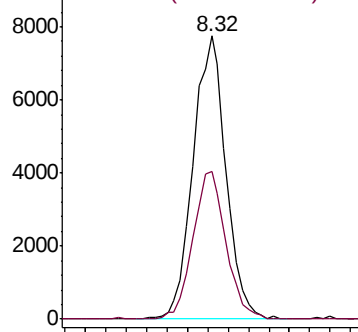
65 100

67 52.3 0.0 104.4

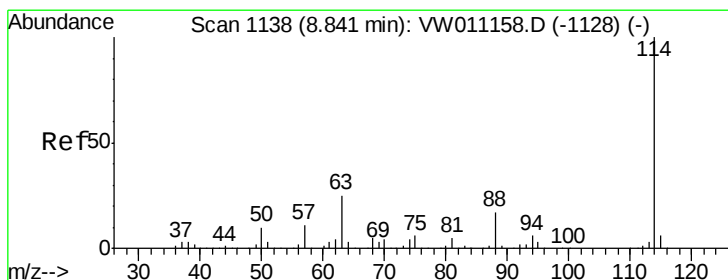
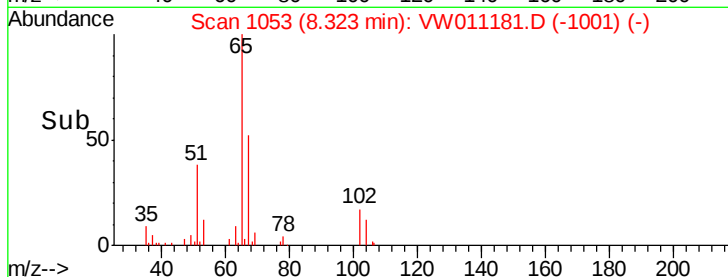


Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

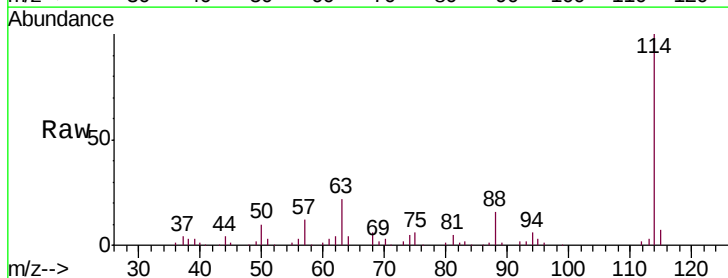
Tgt Ion: 114 Resp: 42555

Ion Ratio Lower Upper

114 100

63 22.1 0.0 50.8

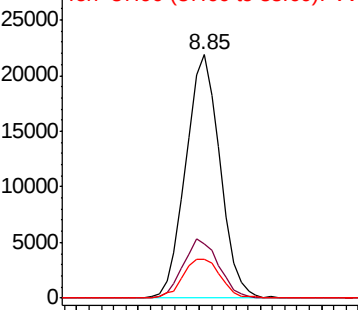
88 15.7 0.0 34.2



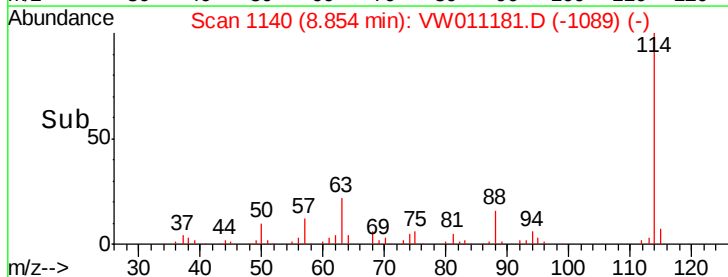
Abundance Ion 113.90 (113.60 to 114.60): V

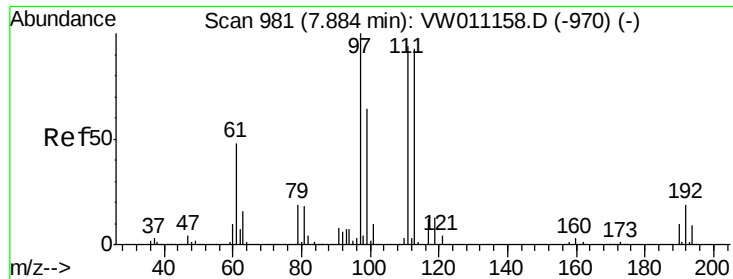
Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



Time-->

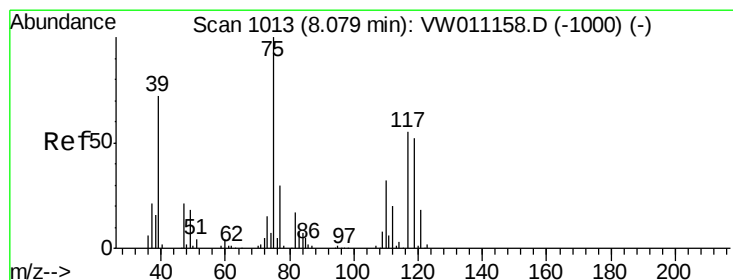
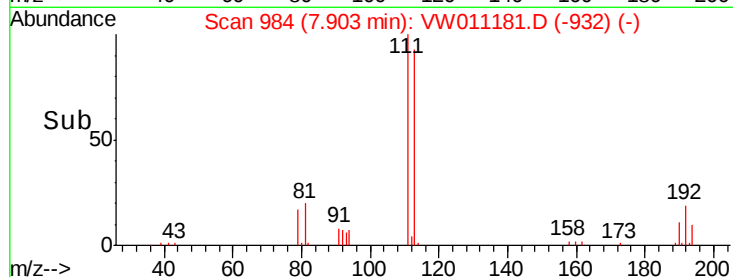
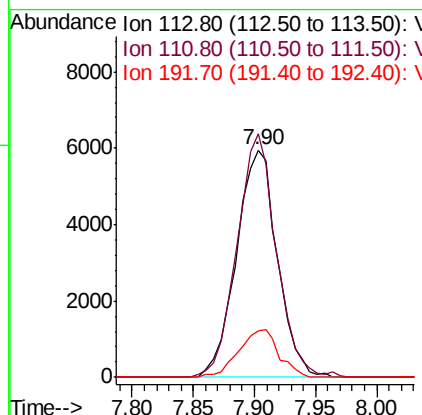
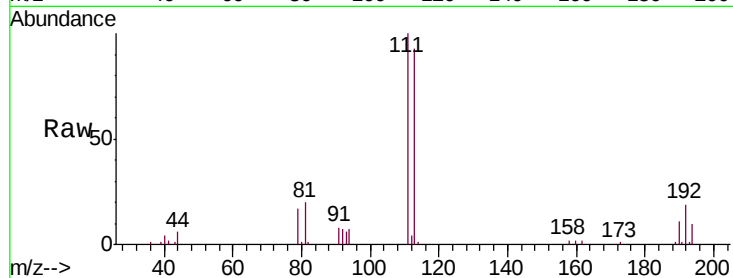




#35
Dibromofluoromethane
Concen: 54.718 ug/l
RT: 7.90 min Scan# 984
Delta R.T. 0.02 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

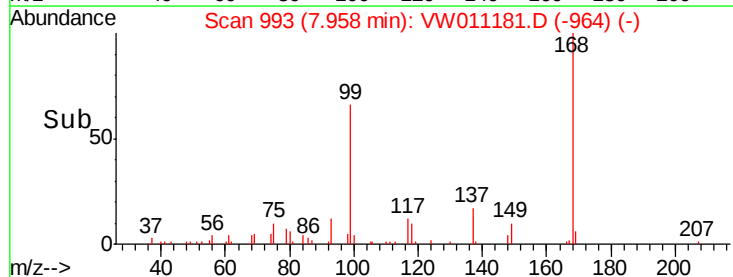
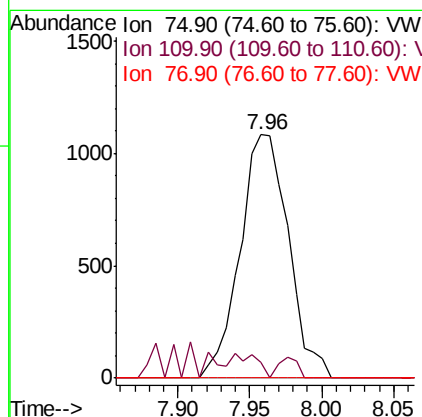
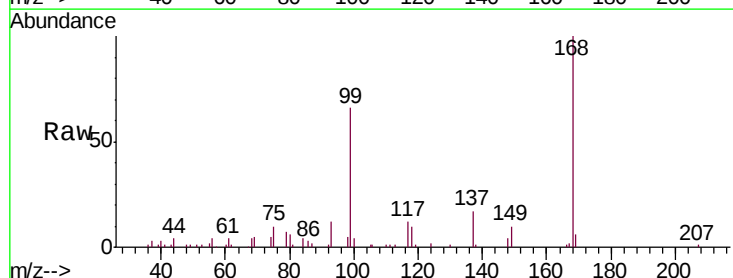
Instrument :
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TR-05-070819RE

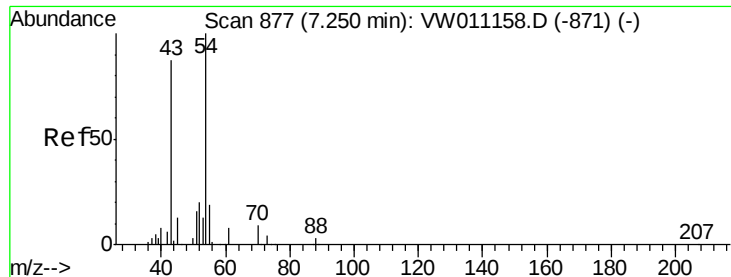
Tgt Ion:113 Resp: 13879
Ion Ratio Lower Upper
113 100
111 102.8 82.4 123.6
192 20.6 15.8 23.8



#36
1,1-Dichloropropene
Concen: 5.561 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.12 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

Tgt Ion: 75 Resp: 2520
Ion Ratio Lower Upper
75 100
110 3.4 15.9 47.6#
77 0.0 24.6 36.8#





#37

Ethyl Acetate

Concen: 1.212 ug/l

RT: 7.22 min Scan# 872

Delta R.T. -0.03 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

TR-05-070819RE

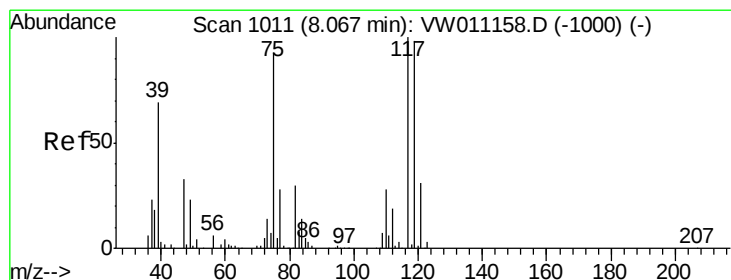
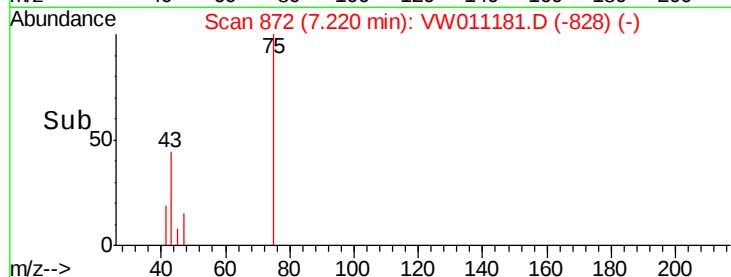
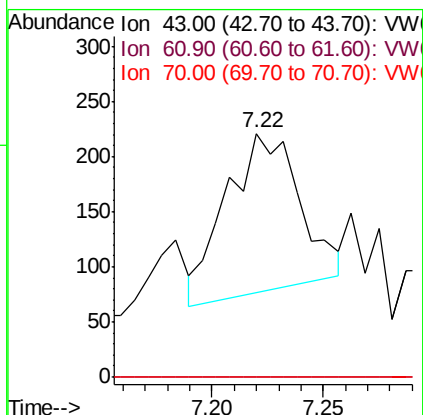
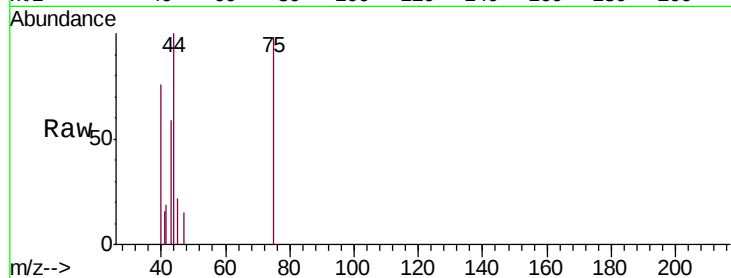
Tgt Ion: 43 Resp: 330

Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 6.877 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.11 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

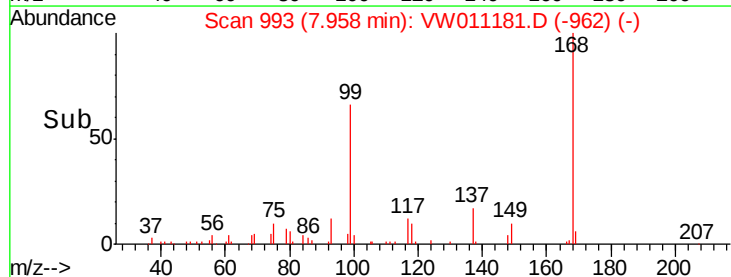
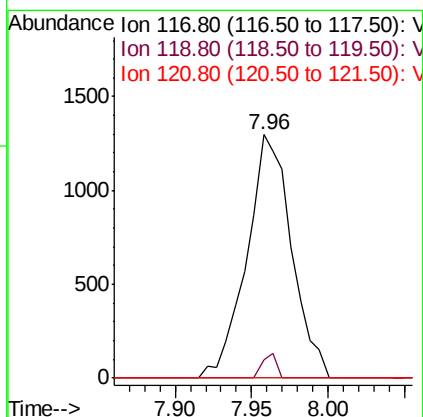
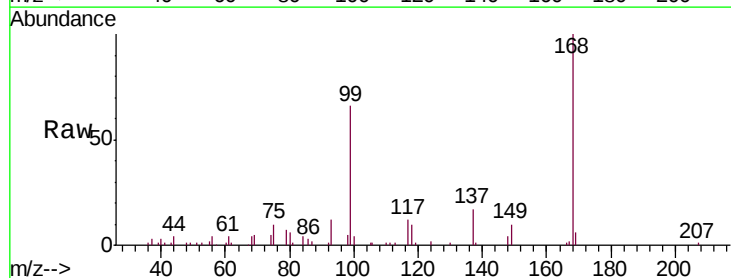
Tgt Ion: 117 Resp: 2642

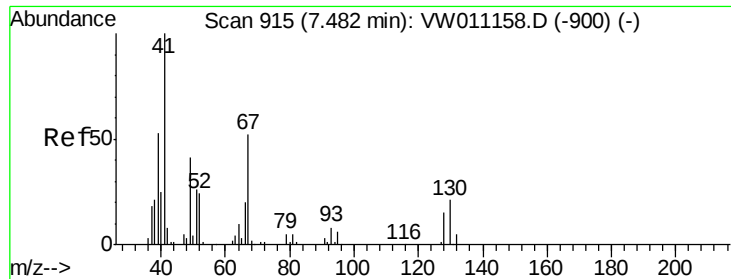
Ion Ratio Lower Upper

117 100

119 7.3 78.1 117.1#

121 0.0 25.1 37.7#

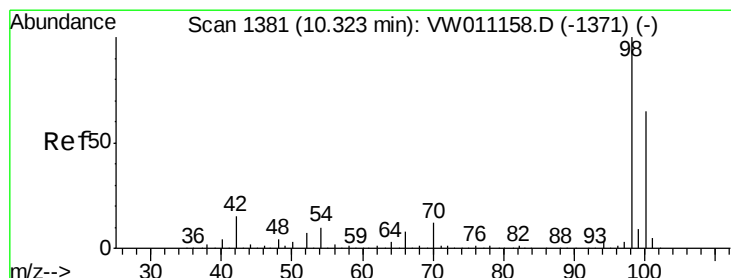
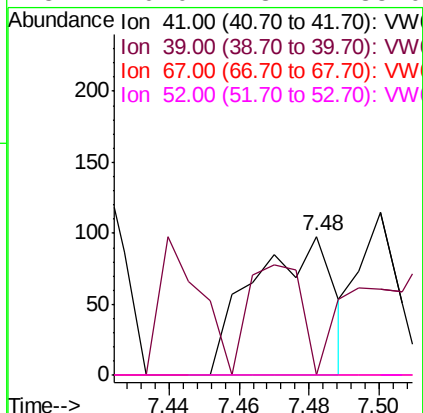
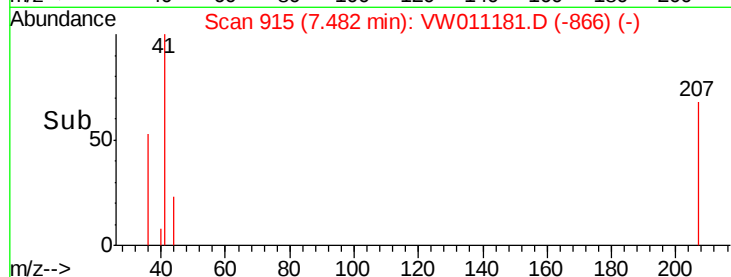
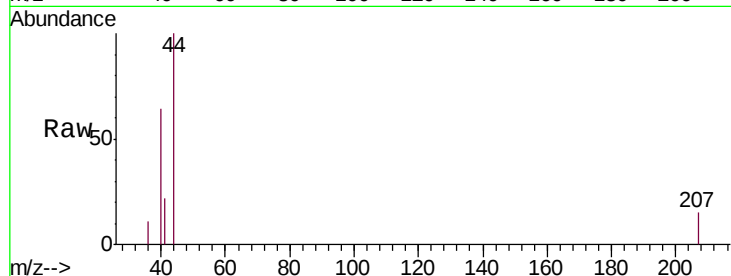




#41
Methacrylonitrile
Concen: 1.008 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

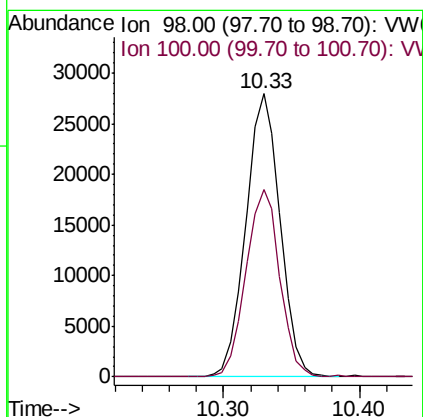
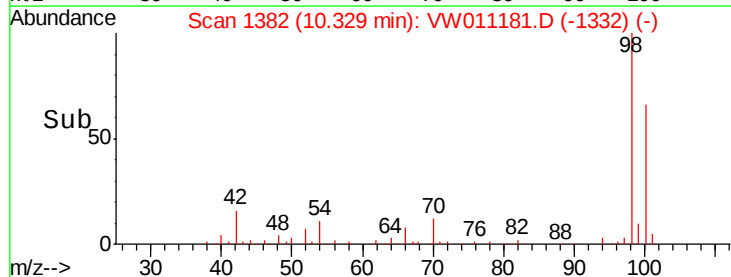
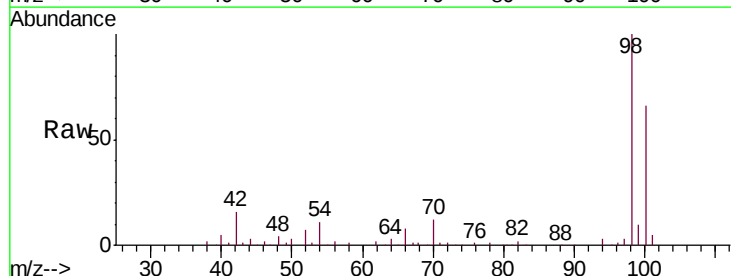
Instrument :
MSVOA_W
ClientSampled :
TR-05-070819RE

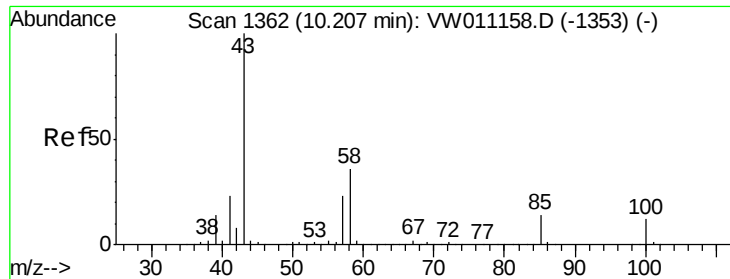
Tgt Ion: 41 Resp: 157
Ion Ratio Lower Upper
41 100
39 52.2 48.0 72.0
67 0.0 49.7 74.5#
52 0.0 23.4 35.0#



#50
Toluene-d8
Concen: 48.140 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

Tgt Ion: 98 Resp: 49357
Ion Ratio Lower Upper
98 100
100 65.5 52.4 78.6

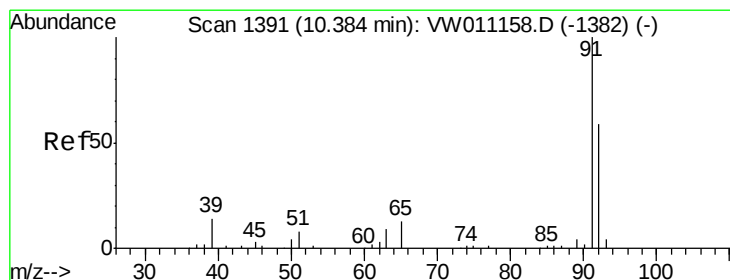
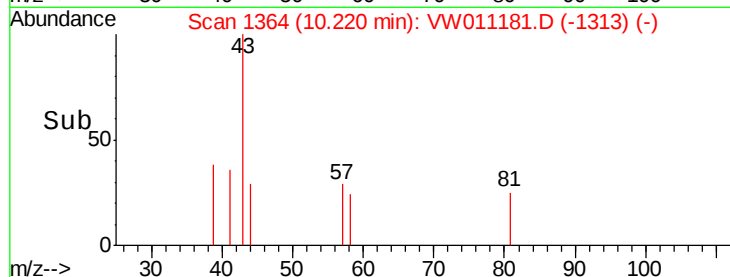
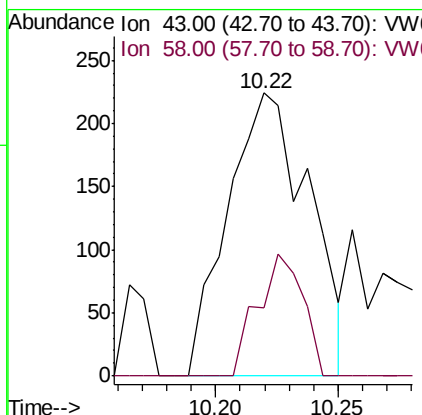
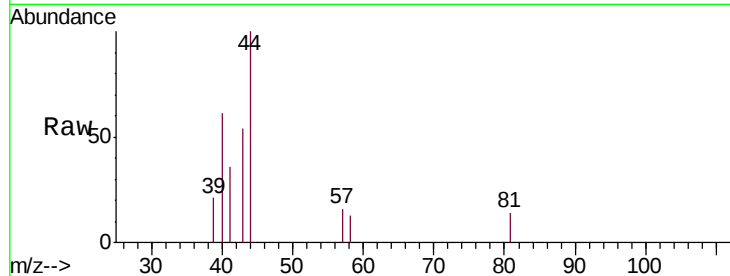




#51
4-Methyl-2-Pentanone
Concen: 1.940 ug/l
RT: 10.22 min Scan# 1364
Delta R.T. 0.01 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

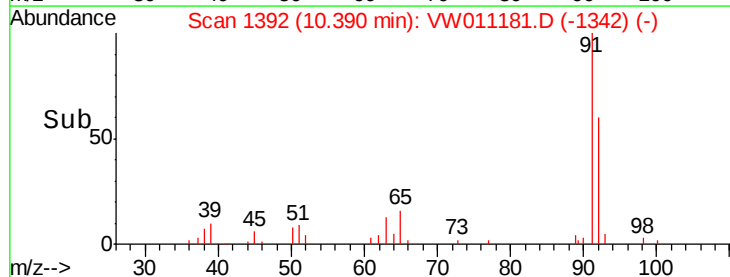
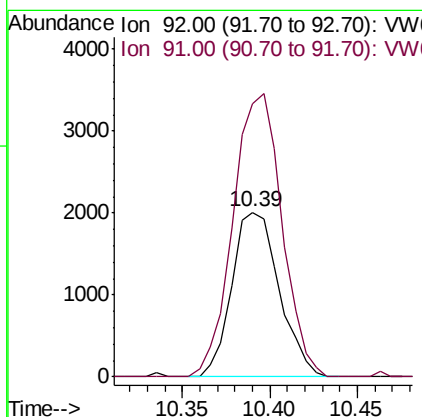
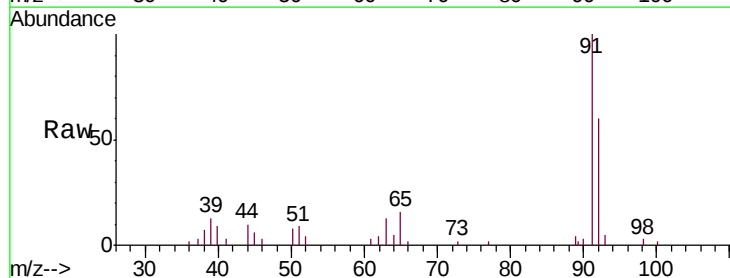
Instrument :
MSVOA_W
ClientSampleId :
TR-05-070819RE

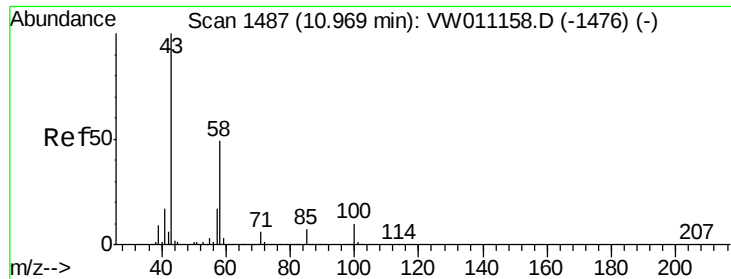
Tgt Ion: 43 Resp: 521
Ion Ratio Lower Upper
43 100
58 24.0 28.2 42.2#



#52
Toluene
Concen: 4.985 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. 0.01 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

Tgt Ion: 92 Resp: 3787
Ion Ratio Lower Upper
92 100
91 177.6 136.6 205.0

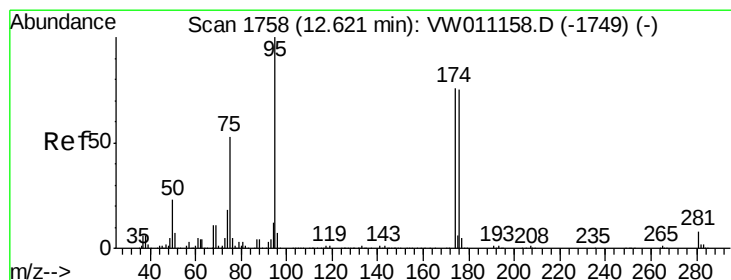
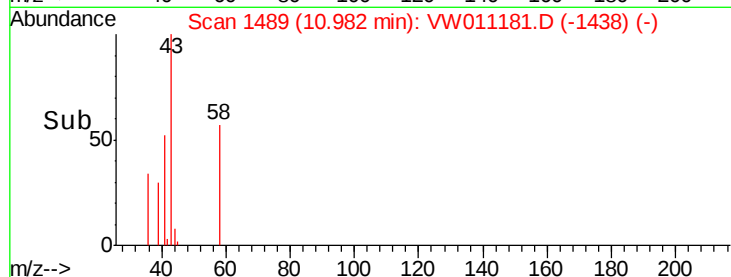
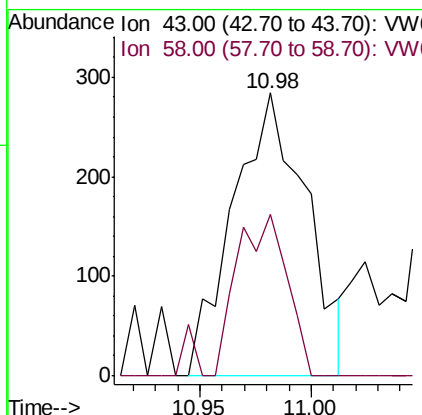
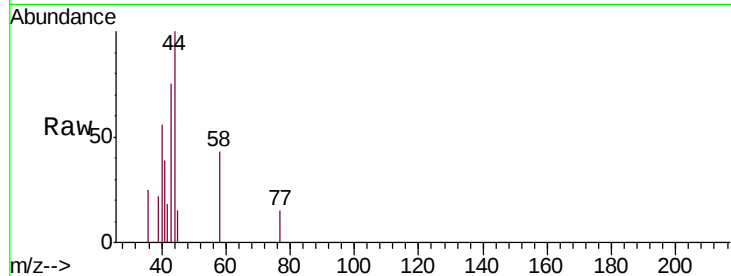




#59
2-Hexanone
Concen: 3.485 ug/l
RT: 10.98 min Scan# 1489
Delta R.T. 0.01 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

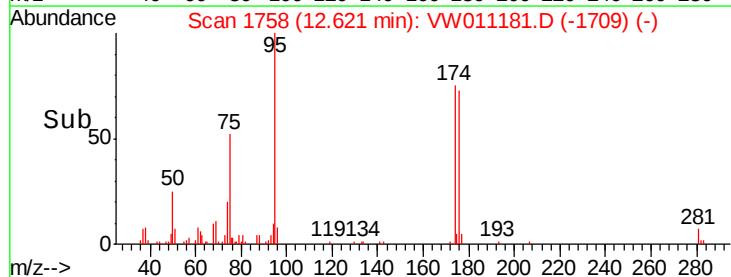
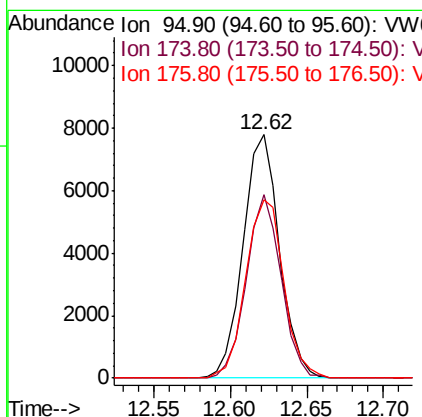
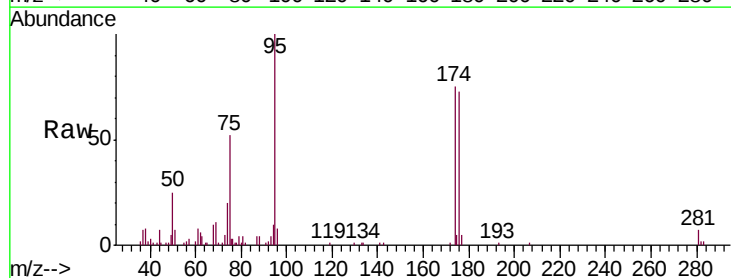
Instrument :
MSVOA_W
ClientSampleId :
TR-05-070819RE

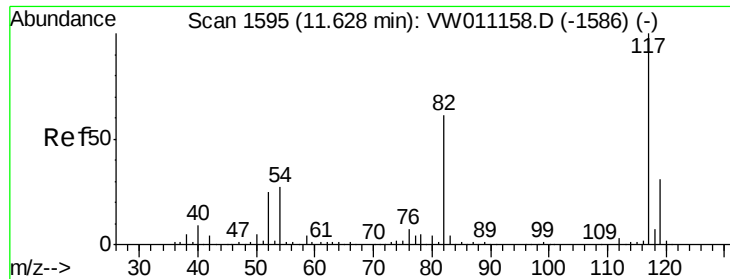
Tgt Ion: 43 Resp: 649
Ion Ratio Lower Upper
43 100
58 39.1 24.4 73.4



#62
4-Bromofluorobenzene
Concen: 34.226 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

Tgt Ion: 95 Resp: 12862
Ion Ratio Lower Upper
95 100
174 71.9 0.0 147.6
176 76.6 0.0 144.6

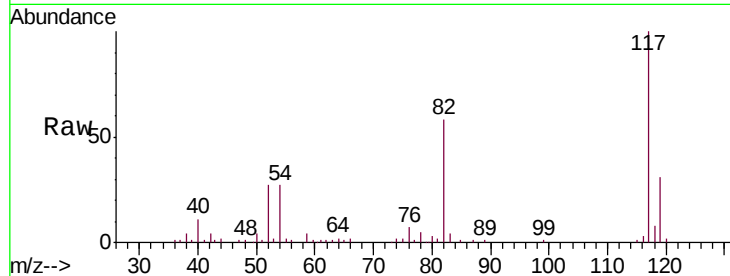




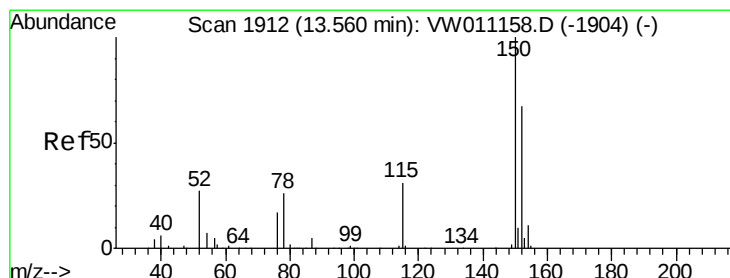
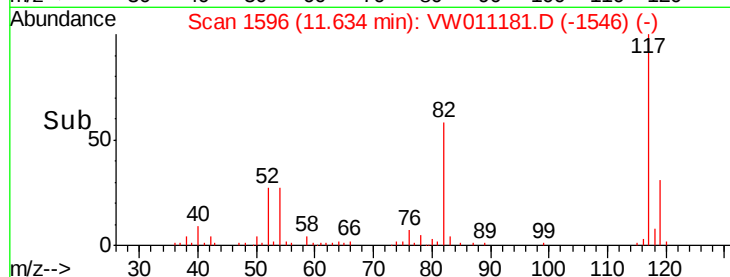
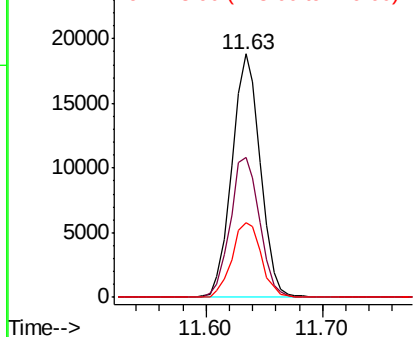
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

Instrument :
MSVOA_W
ClientSampleId :
TR-05-070819RE

Tgt Ion:117 Resp: 31856
Ion Ratio Lower Upper
117 100
82 57.5 48.9 73.3
119 30.8 25.0 37.6

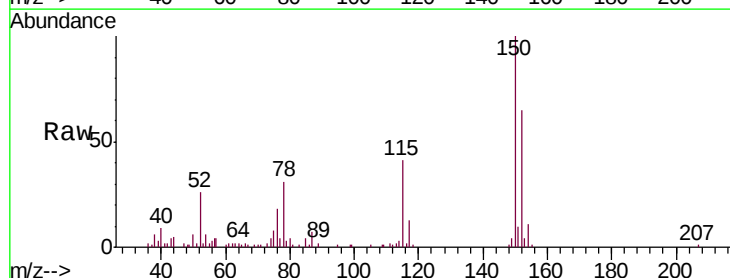


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

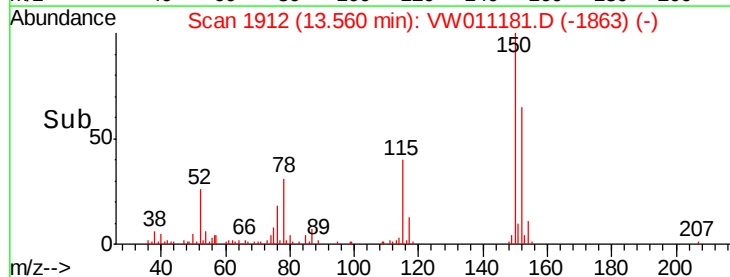
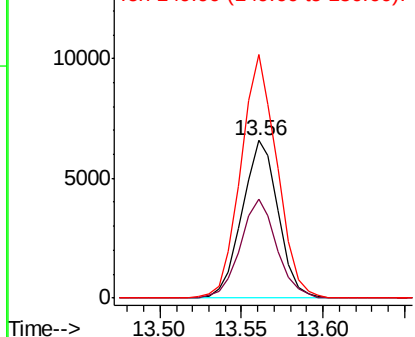


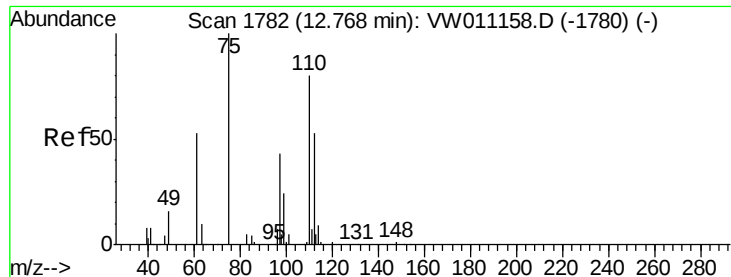
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011181.D
Acq: 09 Jul 2019 16:07

Tgt Ion:152 Resp: 10143
Ion Ratio Lower Upper
152 100
115 62.9 30.1 90.3
150 154.2 0.0 346.0



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





#76

1,2,3-Trichloropropane

Concen: 59.463 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

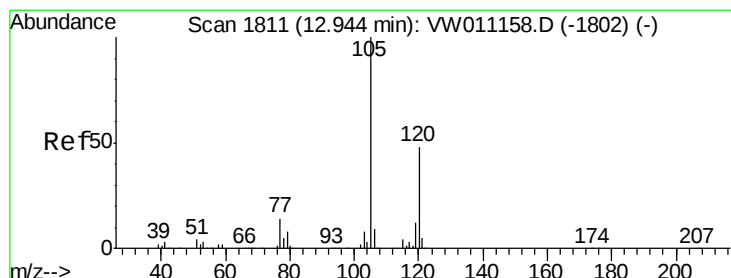
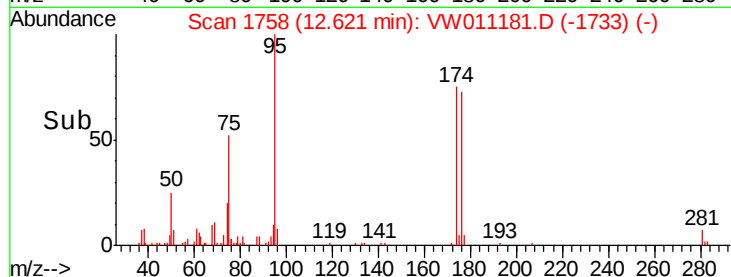
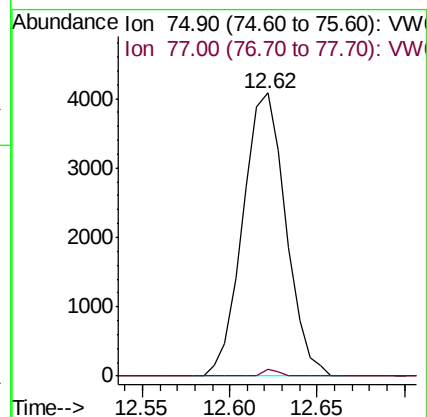
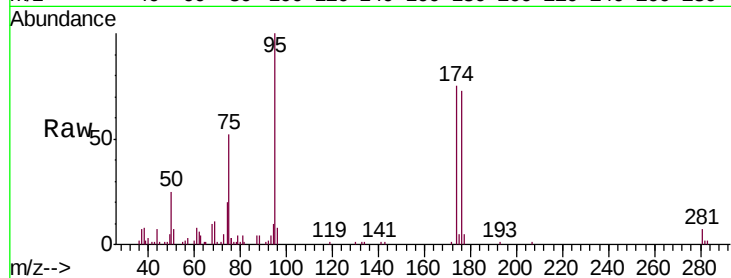
TR-05-070819RE

Tgt Ion: 75 Resp: 6970

Ion Ratio Lower Upper

75 100

77 0.8 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.259 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW011181.D

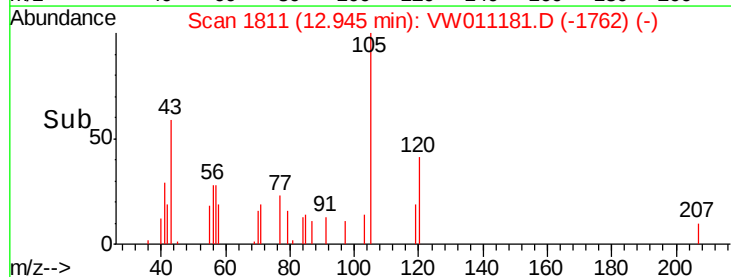
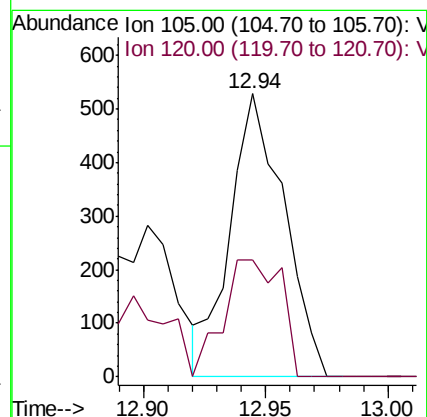
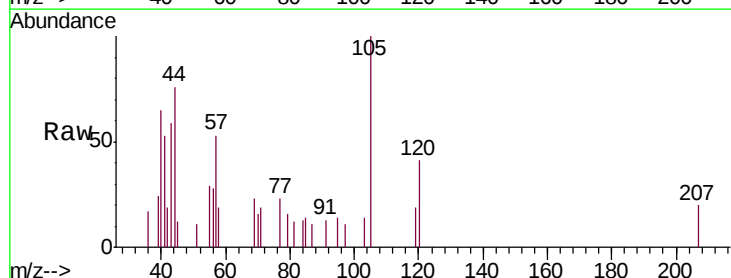
Acq: 09 Jul 2019 16:07

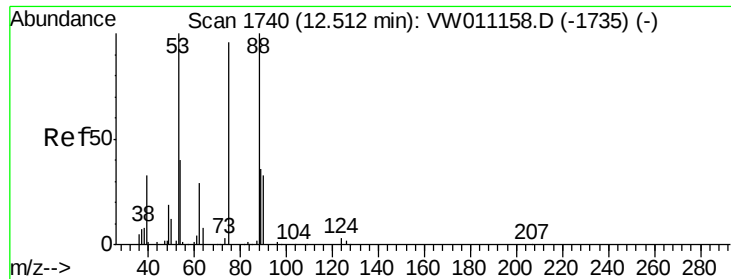
Tgt Ion: 105 Resp: 811

Ion Ratio Lower Upper

105 100

120 44.3 24.1 72.2

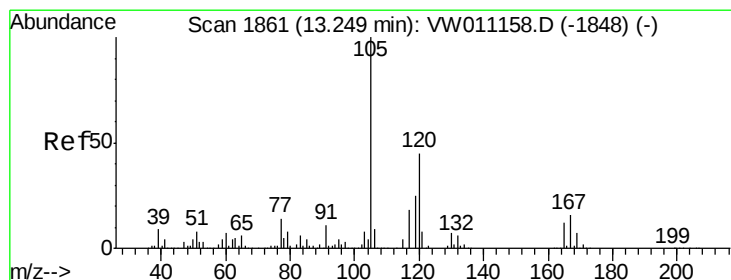
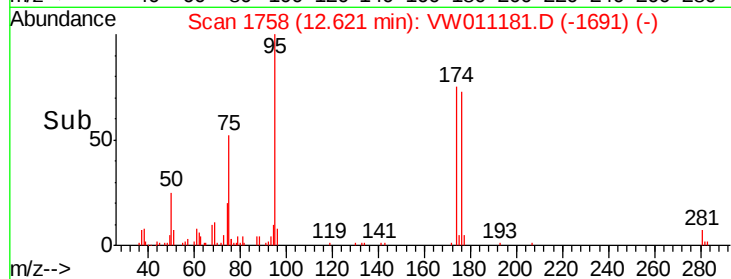
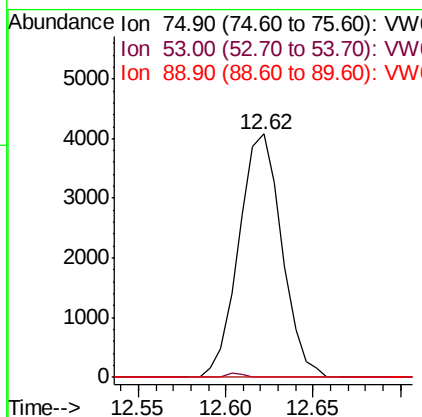
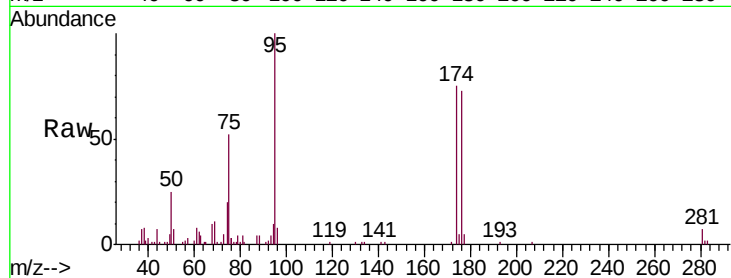




#81
 trans-1,4-Dichloro-2-butene
 Concen: 134.495 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW011181.D
 Acq: 09 Jul 2019 16:07

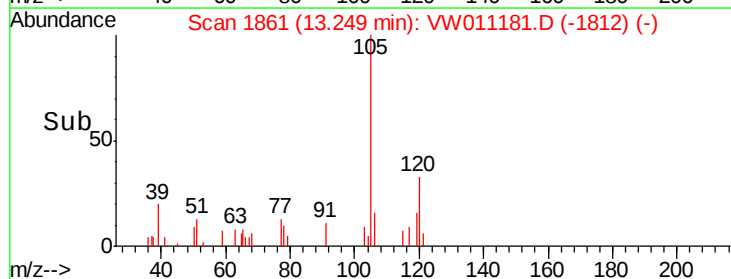
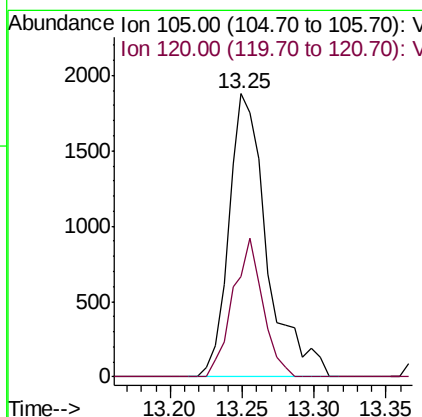
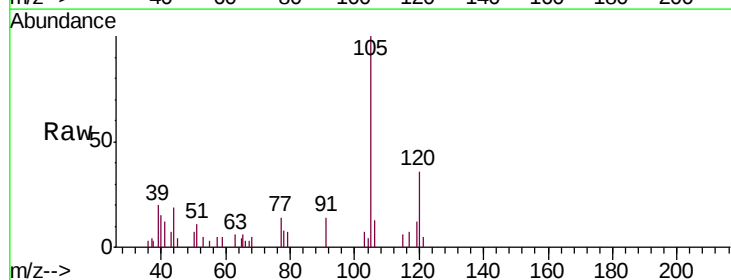
Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-070819RE

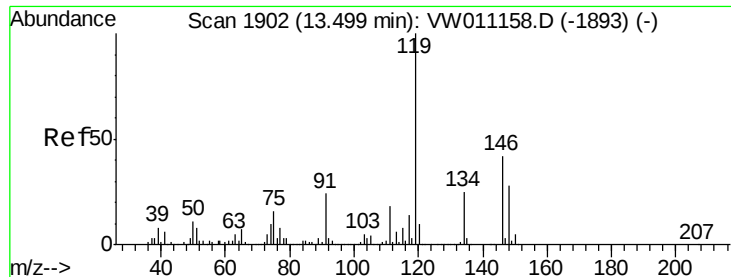
Tgt Ion: 75 Resp: 6970
 Ion Ratio Lower Upper
 75 100
 53 0.6 89.8 134.6#
 89 0.0 34.3 51.5#



#84
 1,2,4-Trimethylbenzene
 Concen: 5.405 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW011181.D
 Acq: 09 Jul 2019 16:07

Tgt Ion: 105 Resp: 3496
 Ion Ratio Lower Upper
 105 100
 120 38.5 22.3 66.9

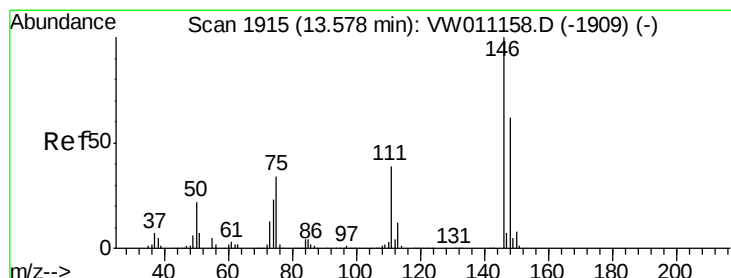
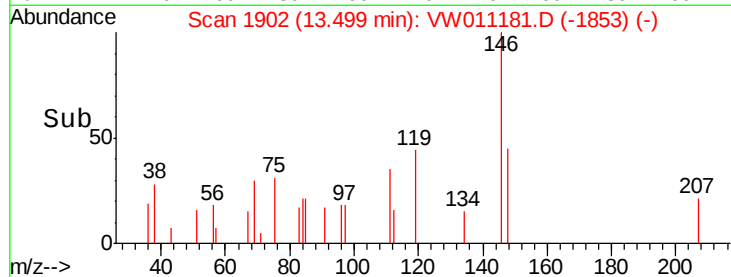
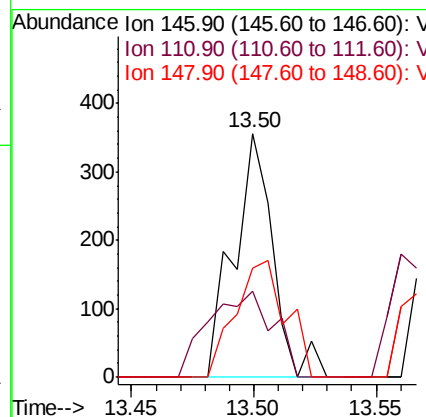
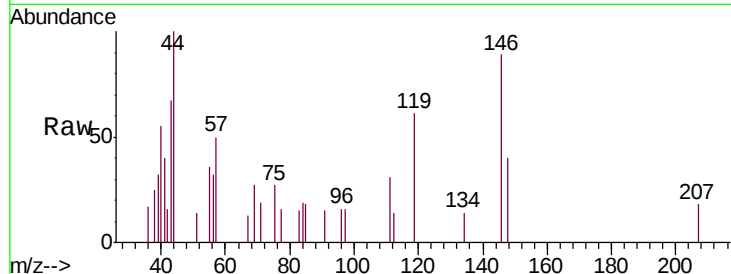




#87
 1,3-Dichlorobenzene
 Concen: 1.210 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011181.D
 Acq: 09 Jul 2019 16:07

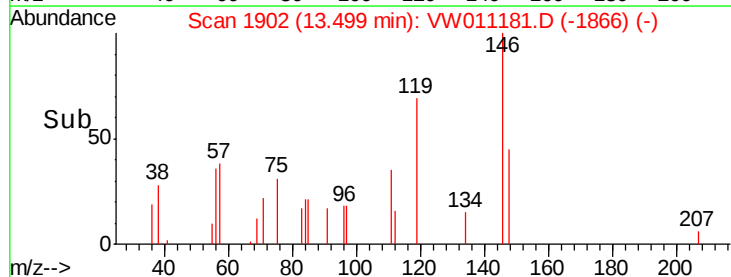
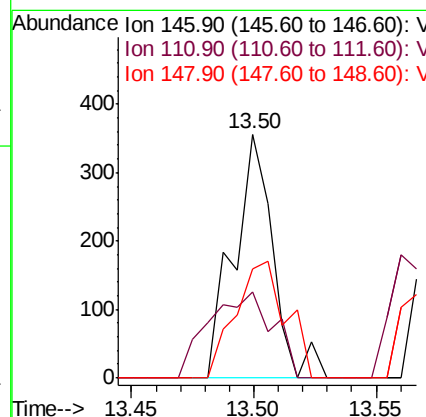
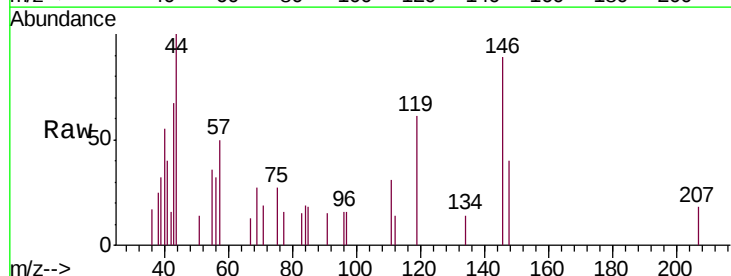
Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-070819RE

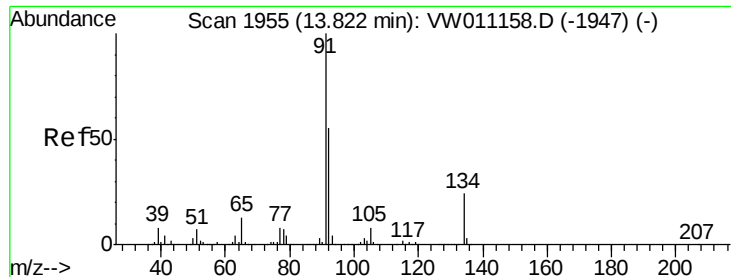
Tgt Ion:146 Resp: 396
 Ion Ratio Lower Upper
 146 100
 111 57.8 21.1 63.1
 148 61.9 32.6 97.7



#88
 1,4-Dichlorobenzene
 Concen: 1.201 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.08 min
 Lab File: VW011181.D
 Acq: 09 Jul 2019 16:07

Tgt Ion:146 Resp: 396
 Ion Ratio Lower Upper
 146 100
 111 57.8 19.9 59.7
 148 61.9 31.5 94.5





#89

n-Butylbenzene

Concen: 2.225 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

TR-05-070819RE

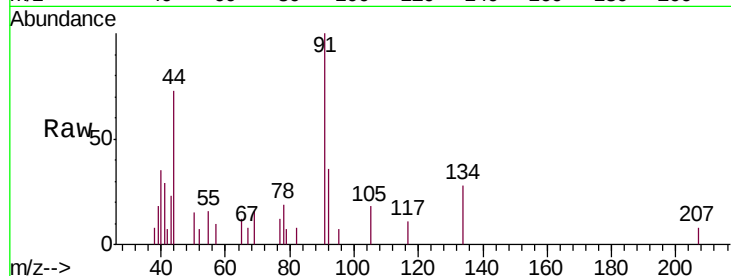
Tgt Ion: 91 Resp: 1543

Ion Ratio Lower Upper

91 100

92 33.0 26.9 80.7

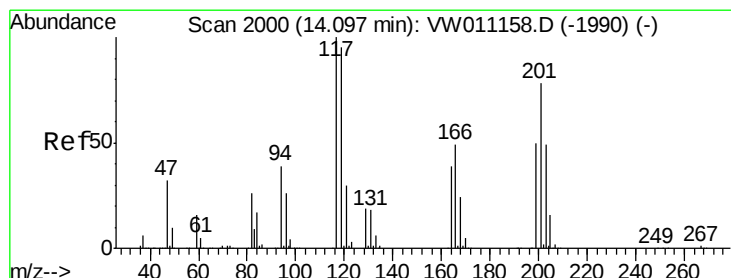
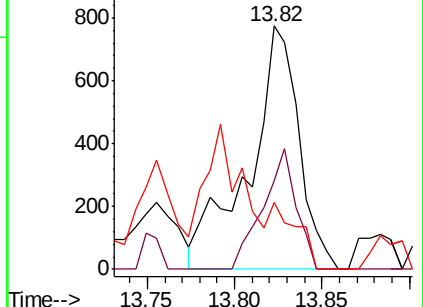
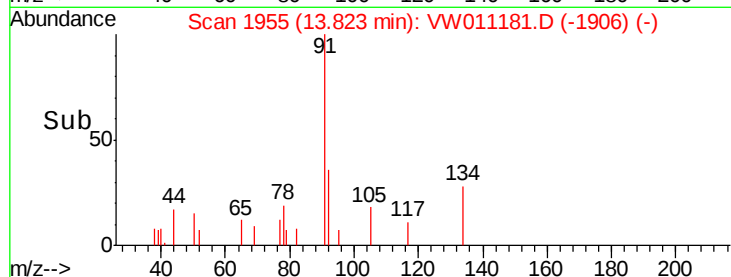
134 0.0 12.2 36.4#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 2.117 ug/l

RT: 14.11 min Scan# 2002

Delta R.T. 0.01 min

Lab File: VW011181.D

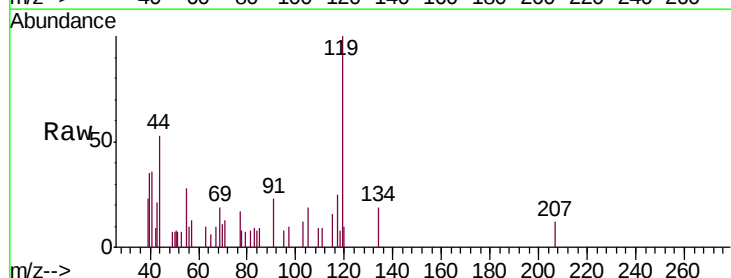
Acq: 09 Jul 2019 16:07

Tgt Ion: 117 Resp: 269

Ion Ratio Lower Upper

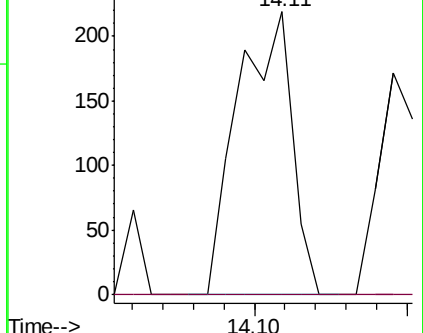
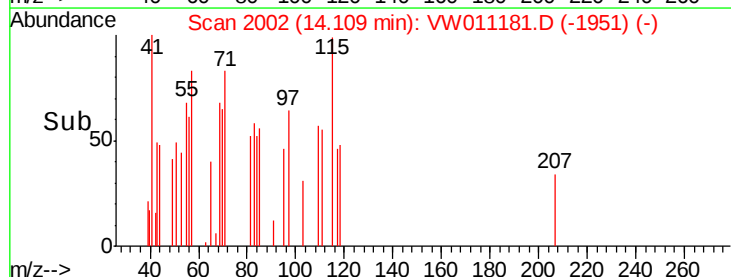
117 100

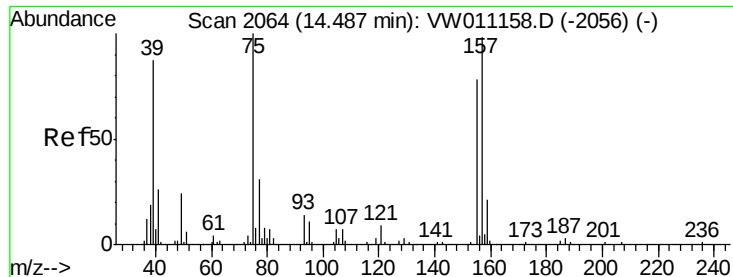
201 0.0 38.3 114.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

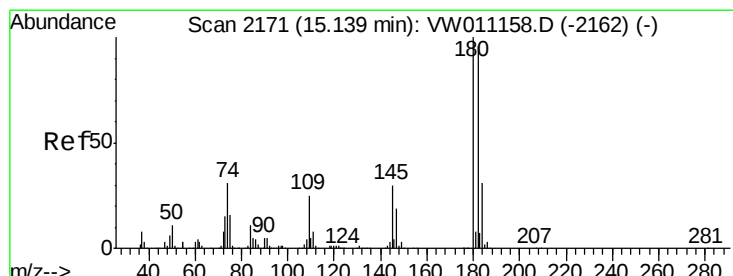
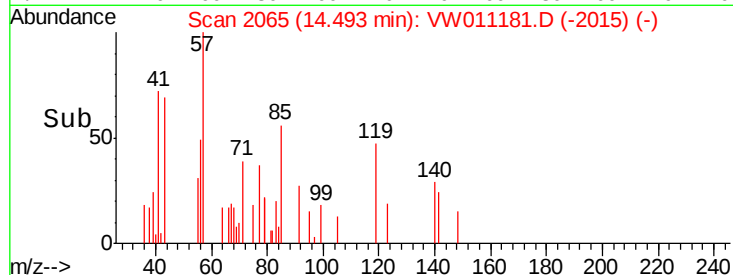
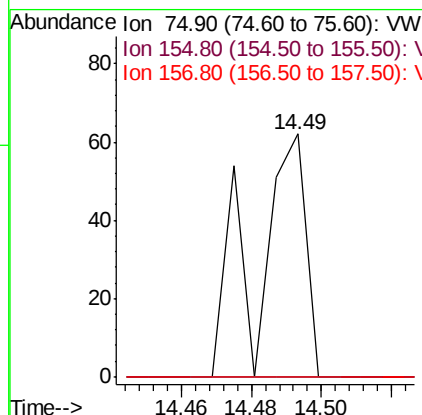
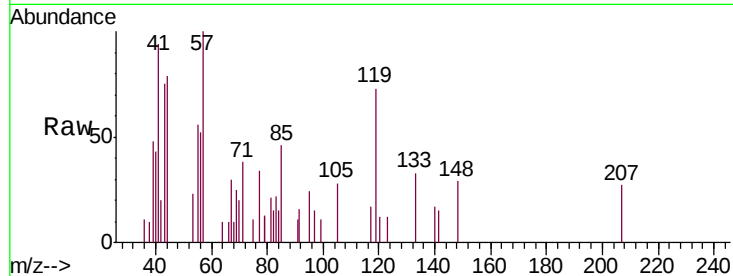




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.213 ug/l
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.01 min
 Lab File: VW011181.D
 Acq: 09 Jul 2019 16:07

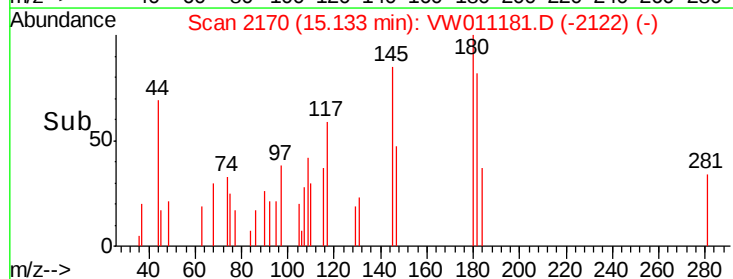
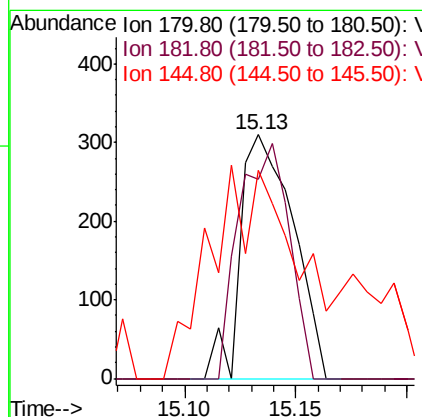
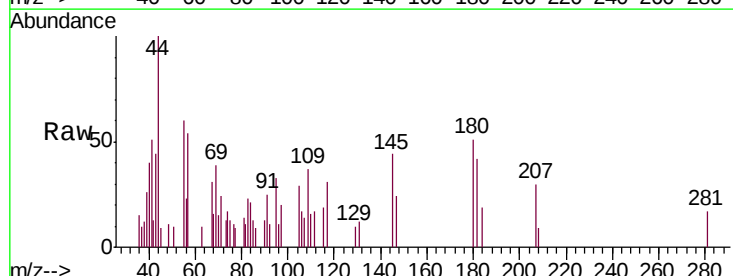
Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-070819RE

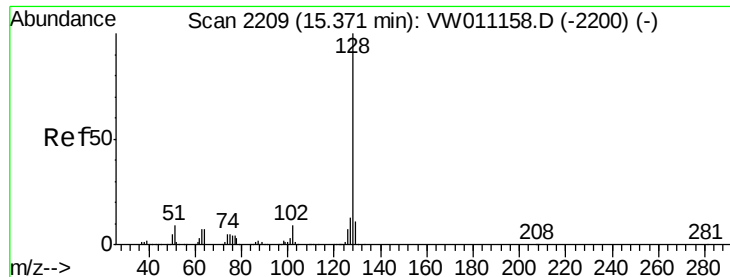
Tgt Ion: 75 Resp: 61
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.1 111.3#
 157 0.0 48.5 145.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.522 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW011181.D
 Acq: 09 Jul 2019 16:07

Tgt Ion: 180 Resp: 516
 Ion Ratio Lower Upper
 180 100
 182 91.7 48.3 144.9
 145 136.6 15.5 46.5#





#95

Naphthalene

Concen: 3.865 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

TR-05-070819RE

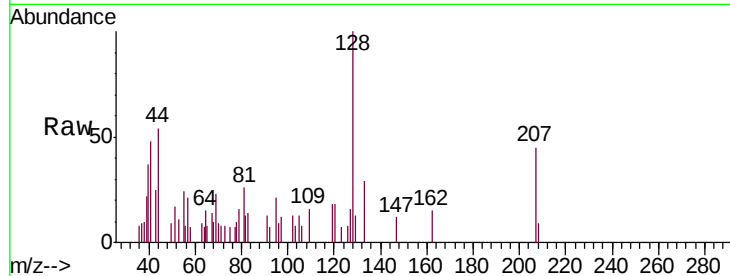
Tgt Ion:128 Resp: 1515

Ion Ratio Lower Upper

128 100

127 10.4 10.6 16.0#

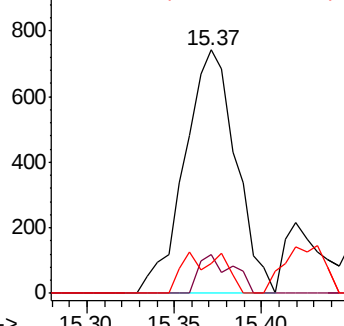
129 6.6 8.7 13.1#



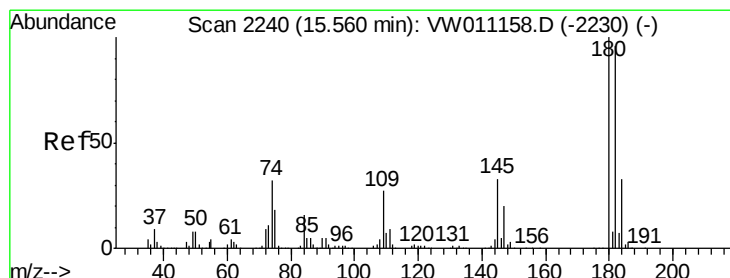
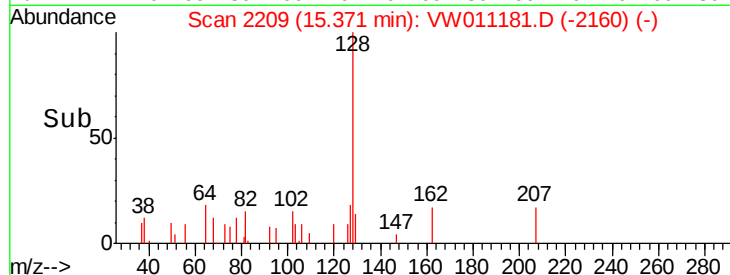
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.930 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW011181.D

Acq: 09 Jul 2019 16:07

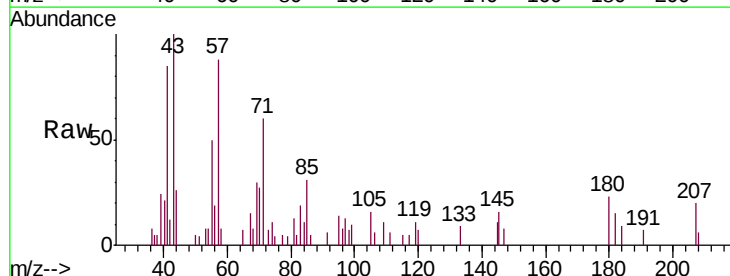
Tgt Ion:180 Resp: 529

Ion Ratio Lower Upper

180 100

182 80.3 47.6 142.8

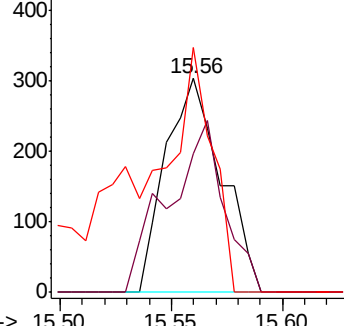
145 77.3 16.5 49.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time-->

