

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW012919\
 Data File : VW008448.D
 Acq On : 29 Jan 2019 13:28
 Operator : SY/VA
 Sample : K1010-07RE
 Misc : 4.53G/5ML/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-ARE

Quant Time: Jan 30 03:12:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 25 11:07:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	393239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	638162	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	516898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	181371	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	206488	53.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.90%	
35) Dibromofluoromethane	7.88	113	204790	54.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.76%	
50) Toluene-d8	10.32	98	719651	48.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.18%	
62) 4-Bromofluorobenzene	12.62	95	223999	38.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.88%	

Target Compounds

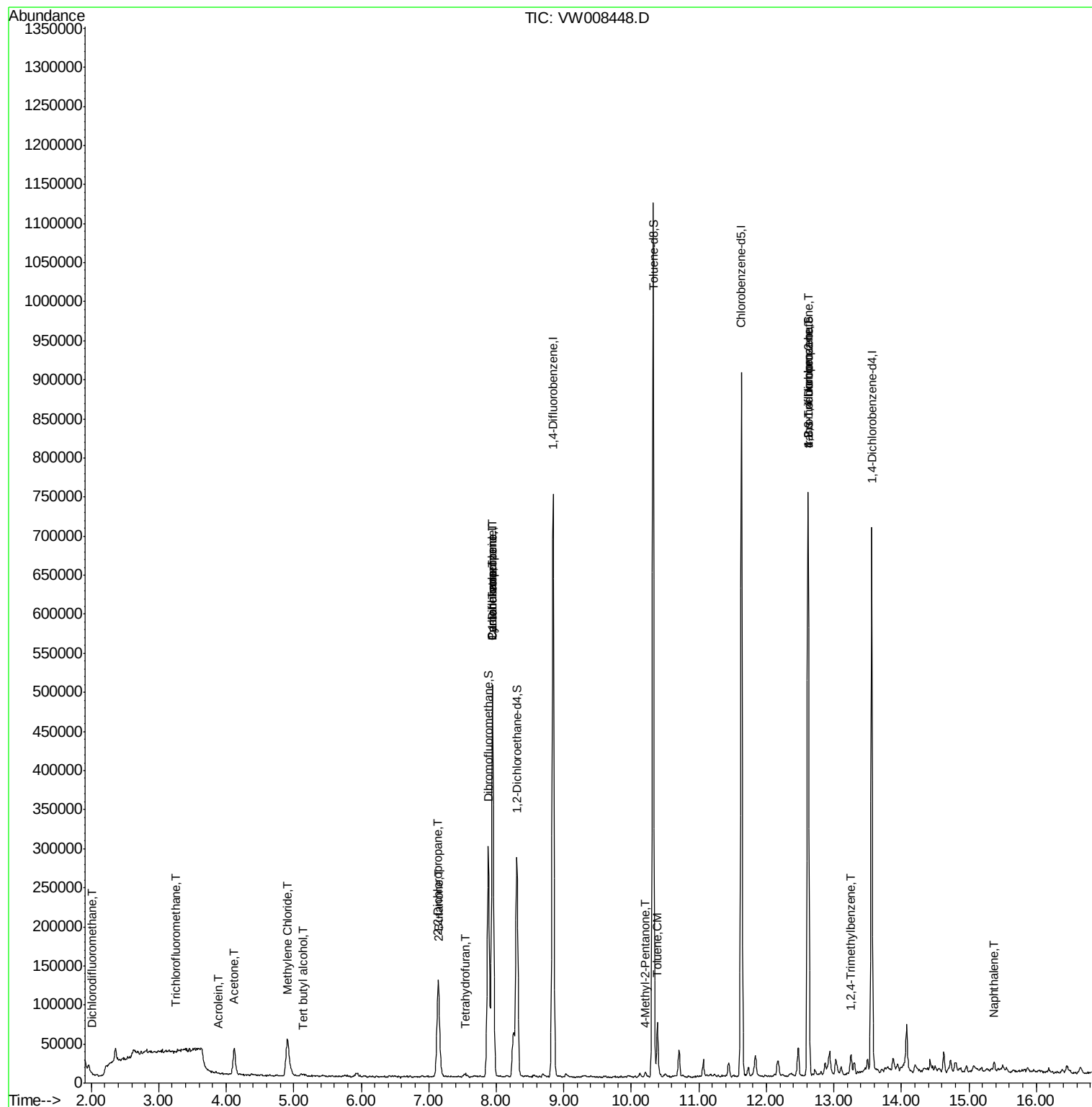
						Qvalue
2) Dichlorodifluoromethane	2.01	85	200	3.335	ug/l	83
7) Trichlorofluoromethane	3.25	101	814	4.932	ug/l #	75
11) Tert butyl alcohol	5.14	59	387	1.244	ug/l #	70
13) Acrolein	3.89	56	42	4.336	ug/l #	1
16) Acetone	4.12	43	57405	66.170	ug/l	97
20) Methylene Chloride	4.90	84	38145	9.540	ug/l	89
25) 2-Butanone	7.15	43	6711	5.569	ug/l #	83
26) 2,2-Dichloropropane	7.13	77	8365	1.688	ug/l #	58
29) Tetrahydrofuran	7.53	42	2931	3.838	ug/l #	77
31) Cyclohexane	7.95	56	8030	1.059	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	27672	4.590	ug/l #	50
38) Carbon Tetrachloride	7.95	117	37040	6.106	ug/l #	17
51) 4-Methyl-2-Pentanone	10.21	43	4059	1.483	ug/l	88
52) Toluene	10.39	92	29959	2.713	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	110026	69.774	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	110026	137.809	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.26	105	15245	1.327	ug/l	97
95) Naphthalene	15.37	128	10084	1.525	ug/l #	91

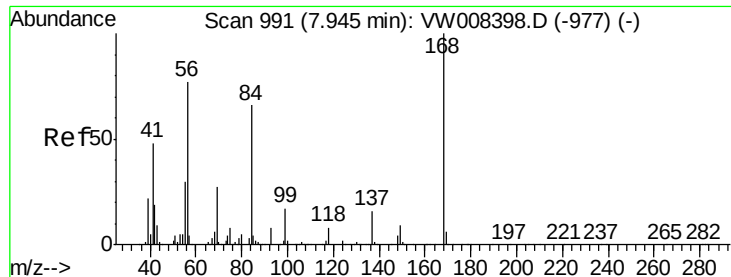
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008448.D

Acq: 29 Jan 2019 13:28

Instrument :

MSVOA_W

ClientSampleId :

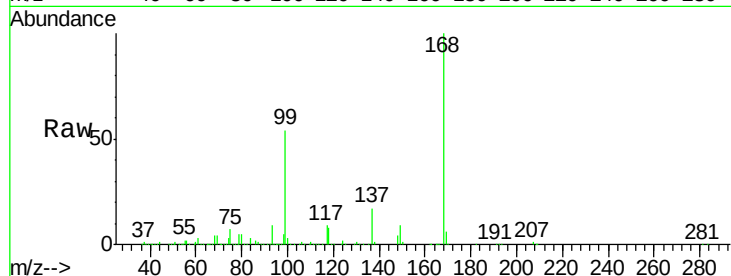
OK-03-012819-ARE

Tgt Ion:168 Resp: 393239

Ion Ratio Lower Upper

168 100

99 53.5 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

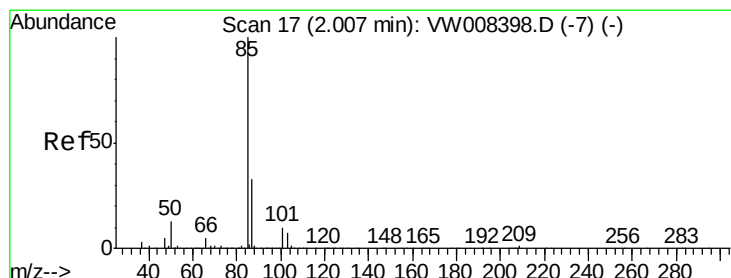
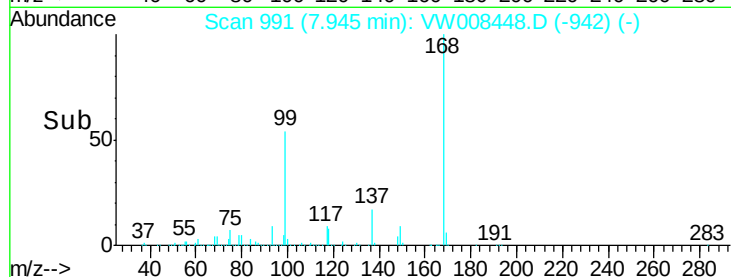
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 3.335 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW008448.D

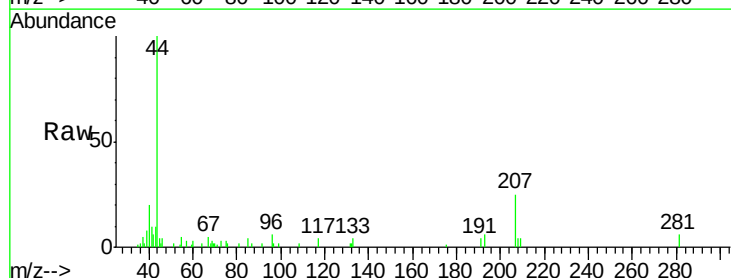
Acq: 29 Jan 2019 13:28

Tgt Ion: 85 Resp: 200

Ion Ratio Lower Upper

85 100

87 42.9 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

200

150

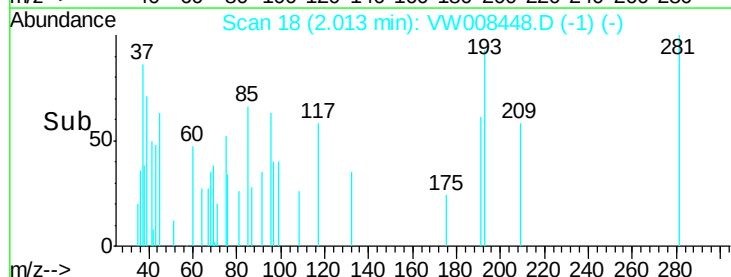
100

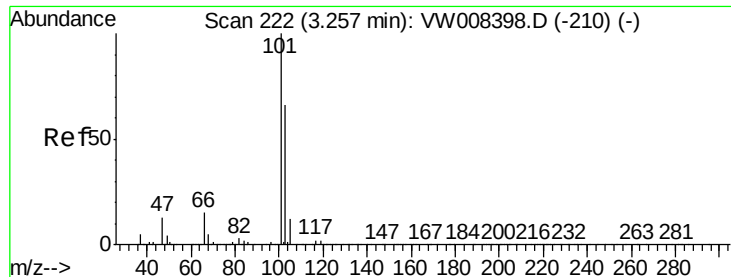
50

0

1.98 2.00 2.02

Time-->



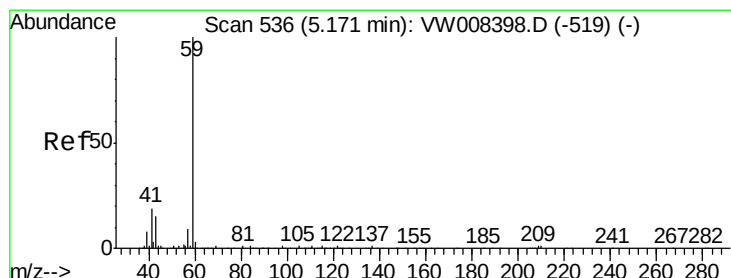
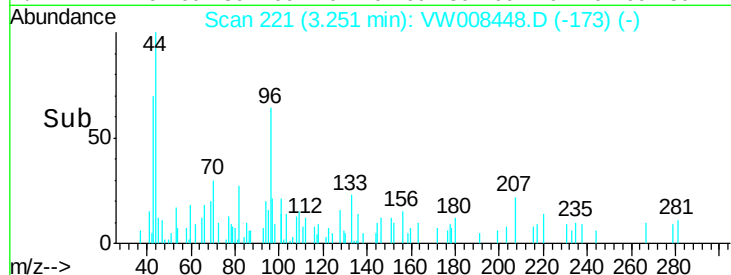
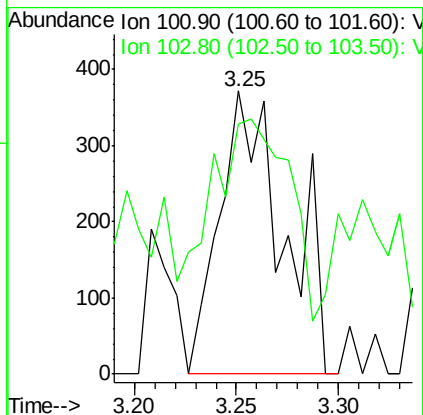
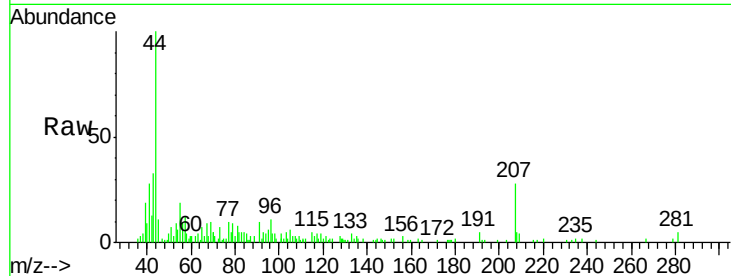


#7

Trichlorofluoromethane
 Concen: 4.932 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW008448.D
 Acq: 29 Jan 2019 13:28

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-ARE

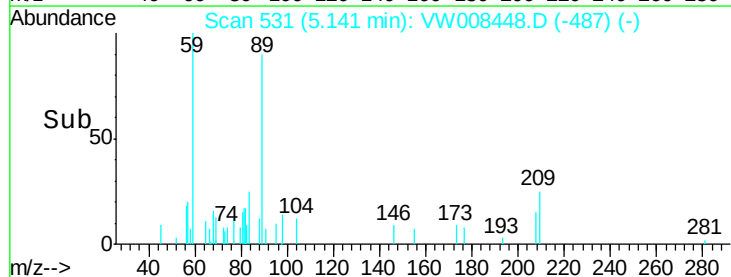
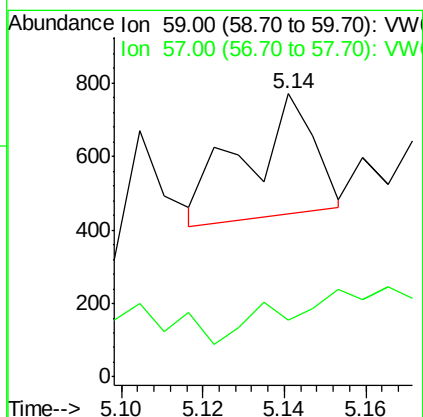
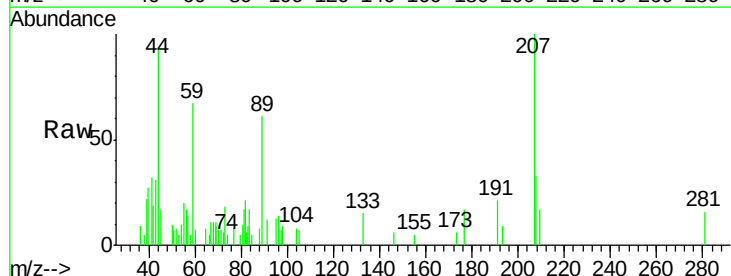
Tgt Ion: 101 Resp: 814
 Ion Ratio Lower Upper
 101 100
 103 45.4 52.5 78.7#

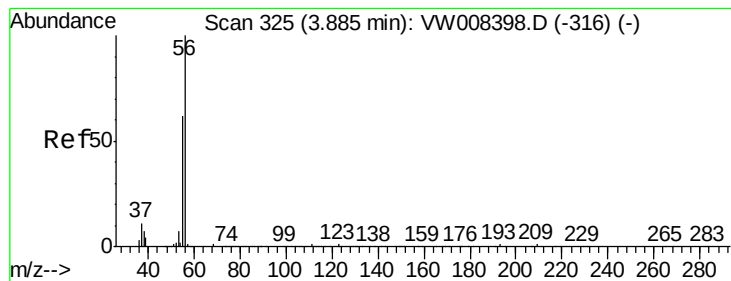


#11

Tert butyl alcohol
 Concen: 1.244 ug/l
 RT: 5.14 min Scan# 531
 Delta R.T. -0.03 min
 Lab File: VW008448.D
 Acq: 29 Jan 2019 13:28

Tgt Ion: 59 Resp: 387
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#





#13

Acrolein

Concen: 4.336 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW008448.D

Acq: 29 Jan 2019 13:28

Instrument :

MSVOA_W

ClientSampleId :

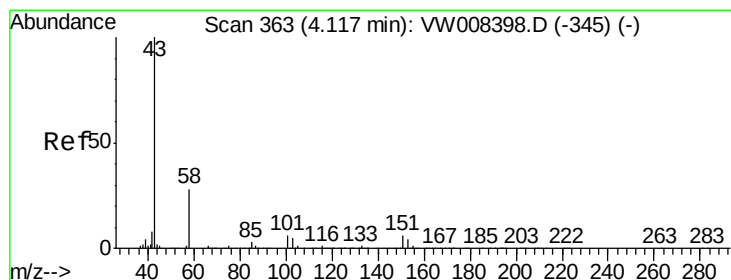
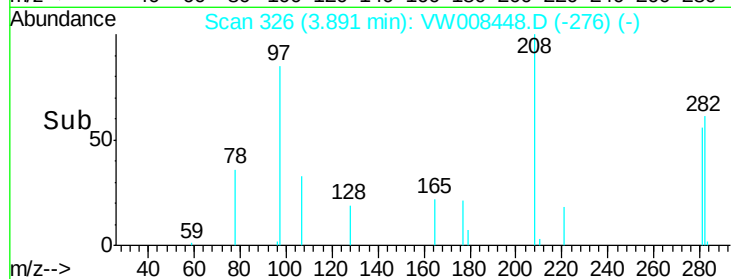
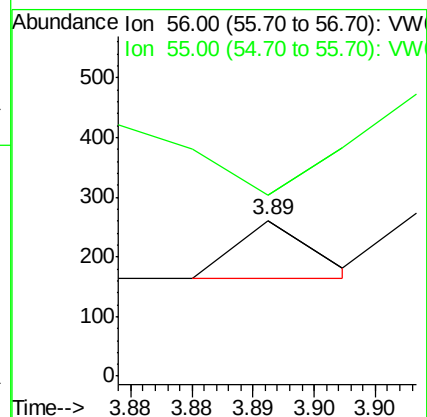
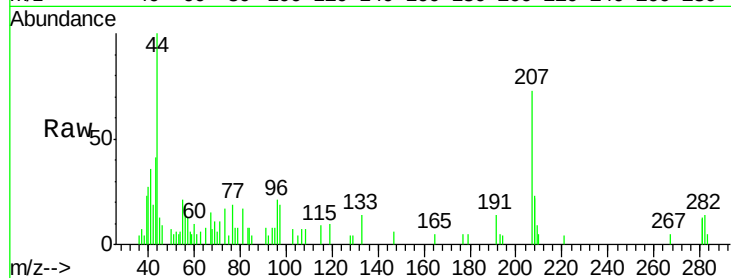
OK-03-012819-ARE

Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

56 100

55 276.2 56.7 85.1#



#16

Acetone

Concen: 66.170 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008448.D

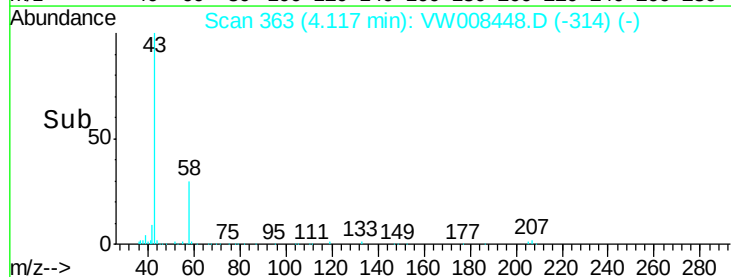
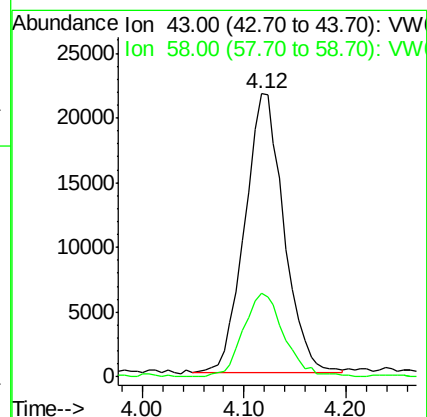
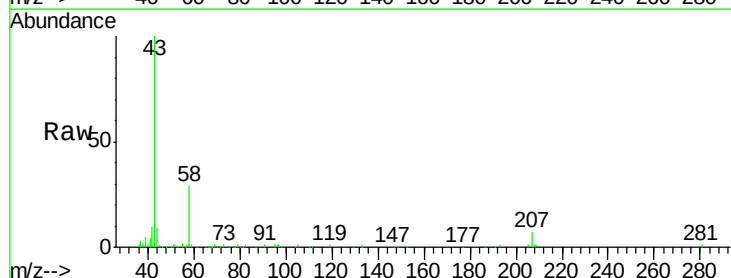
Acq: 29 Jan 2019 13:28

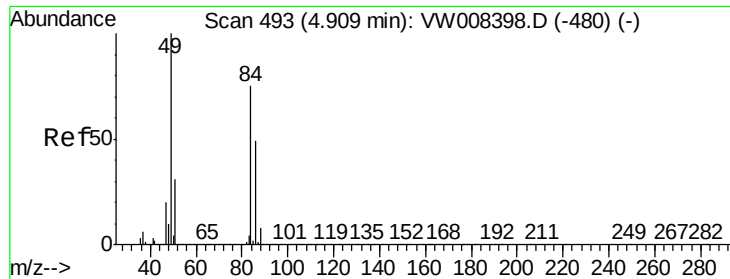
Tgt Ion: 43 Resp: 57405

Ion Ratio Lower Upper

43 100

58 29.9 22.6 34.0

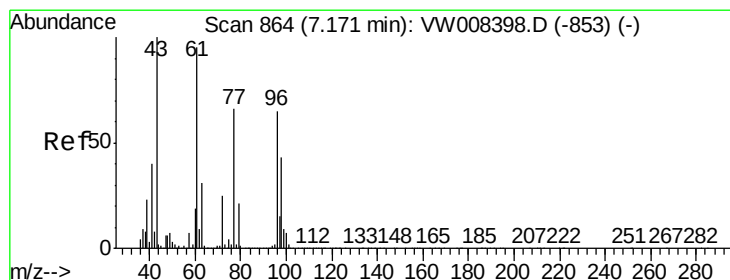
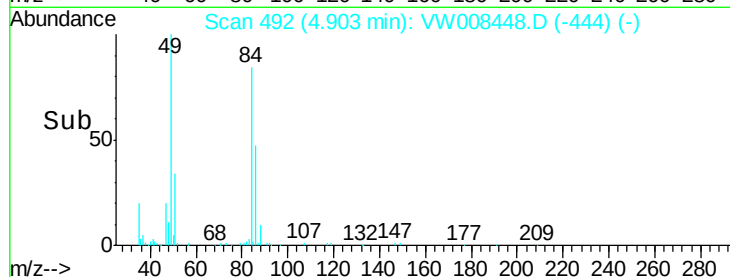
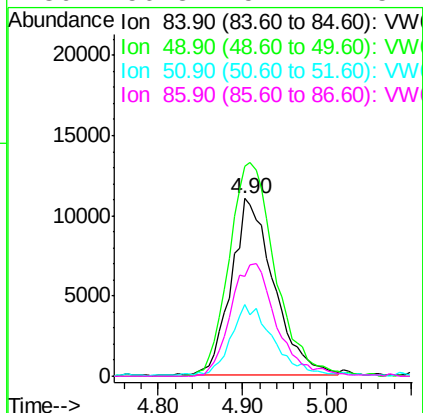
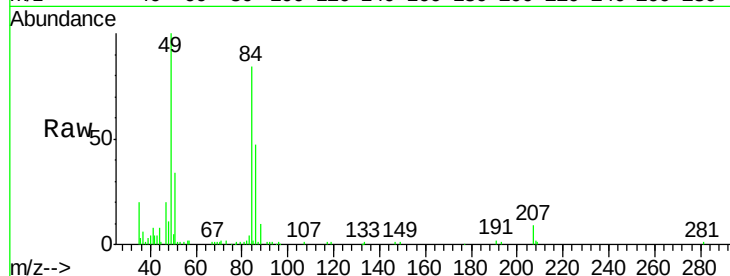




#20
Methylene Chloride
Concen: 9.540 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW008448.D
Acq: 29 Jan 2019 13:28

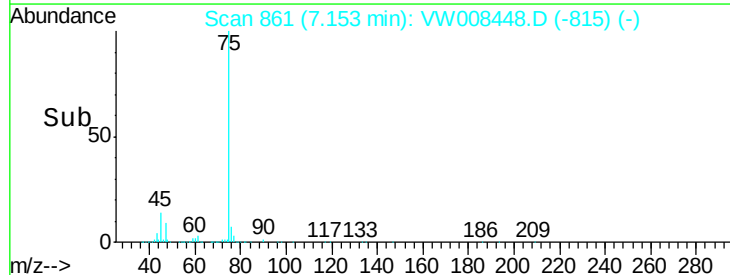
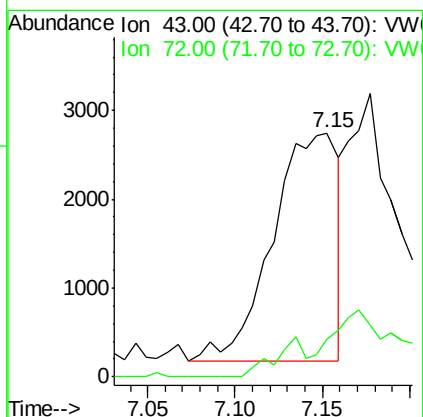
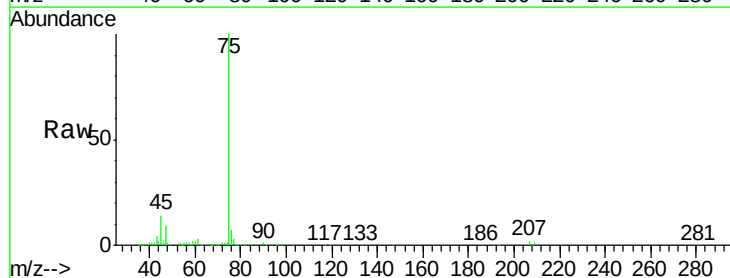
Instrument :
MSVOA_W
ClientSampleId :
OK-03-012819-ARE

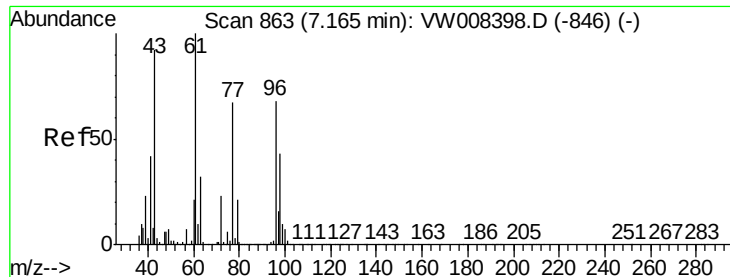
Tgt Ion:	84	Resp:	38145
Ion	Ratio	Lower	Upper
84	100		
49	118.2	106.8	160.2
51	39.0	32.9	49.3
86	56.3	52.2	78.2



#25
2-Butanone
Concen: 5.569 ug/l
RT: 7.15 min Scan# 861
Delta R.T. -0.02 min
Lab File: VW008448.D
Acq: 29 Jan 2019 13:28

Tgt Ion:	43	Resp:	6711
Ion	Ratio	Lower	Upper
43	100		
72	16.5	20.1	30.1#

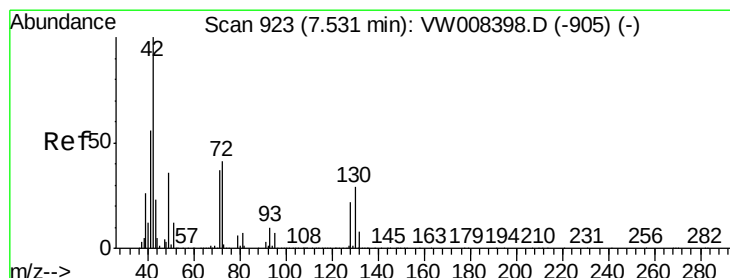
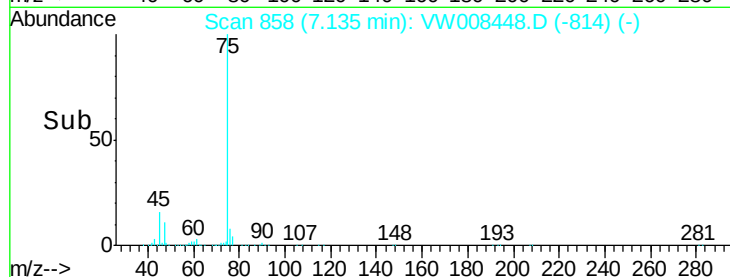
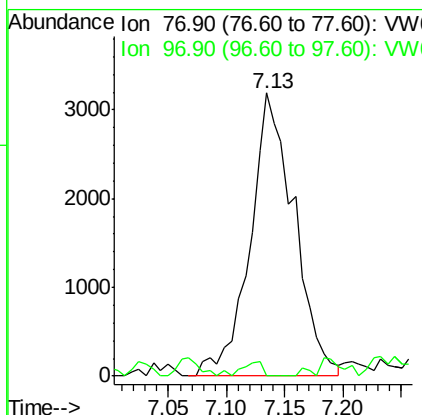
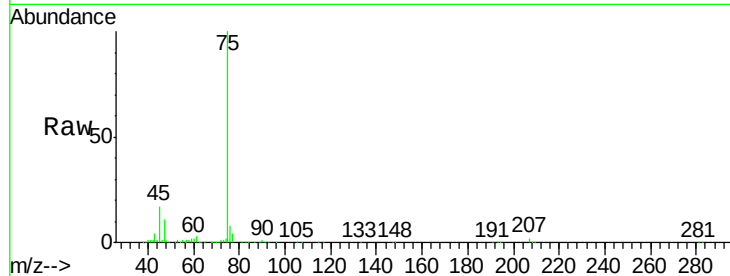




#26
 2,2-Dichloropropane
 Concen: 1.688 ug/l
 RT: 7.13 min Scan# 858
 Delta R.T. -0.03 min
 Lab File: VW008448.D
 Acq: 29 Jan 2019 13:28

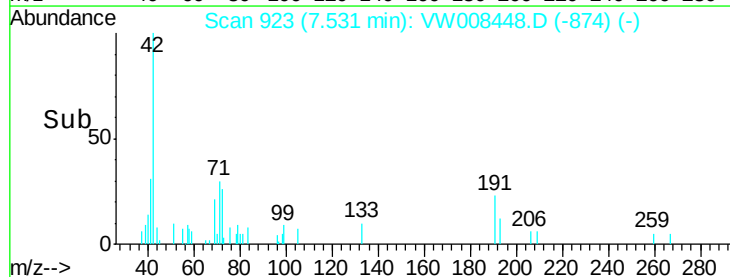
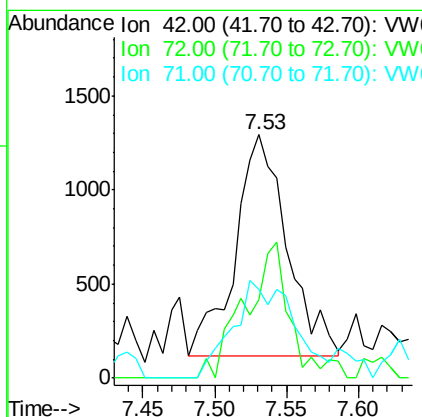
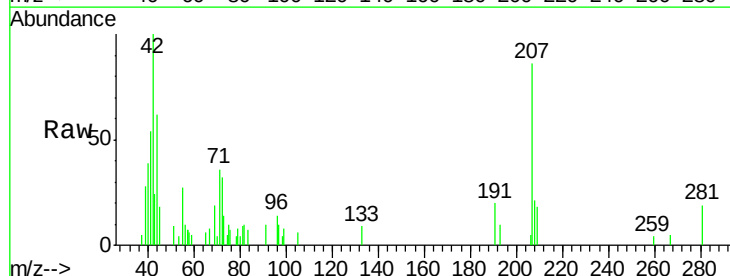
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-ARE

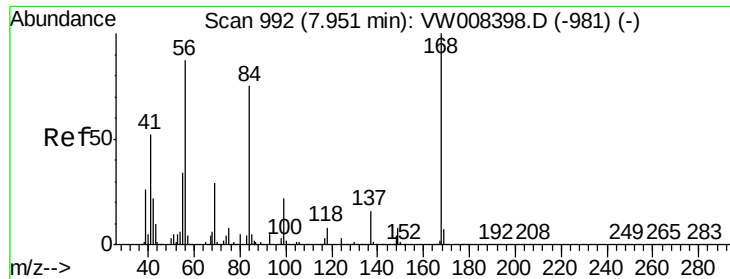
Tgt Ion: 77 Resp: 8365
 Ion Ratio Lower Upper
 77 100
 97 2.4 11.5 34.5#



#29
 Tetrahydrofuran
 Concen: 3.838 ug/l
 RT: 7.53 min Scan# 923
 Delta R.T. 0.00 min
 Lab File: VW008448.D
 Acq: 29 Jan 2019 13:28

Tgt Ion: 42 Resp: 2931
 Ion Ratio Lower Upper
 42 100
 72 53.7 31.9 47.9#
 71 51.8 29.9 44.9#

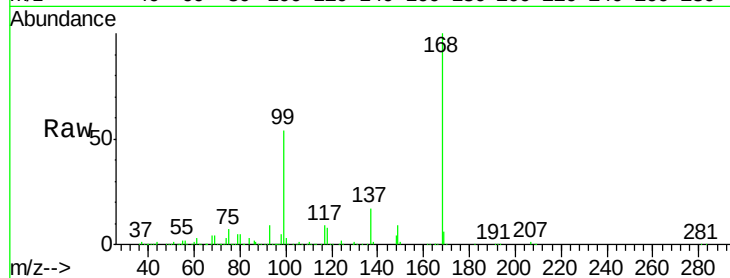




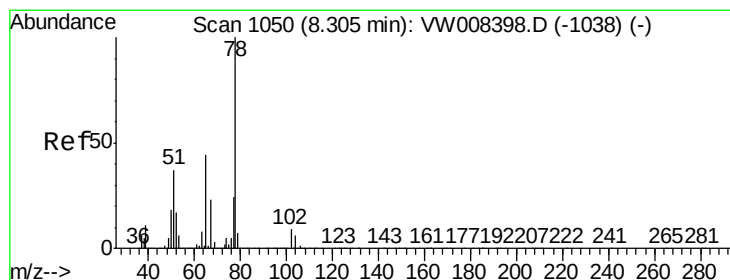
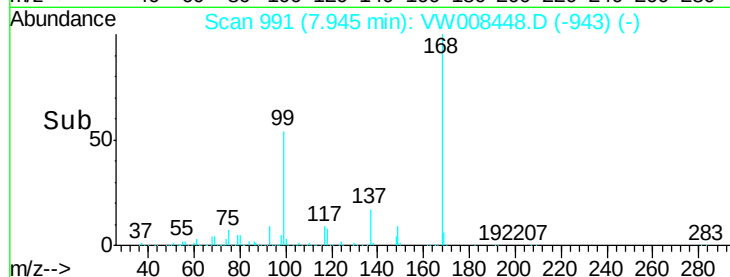
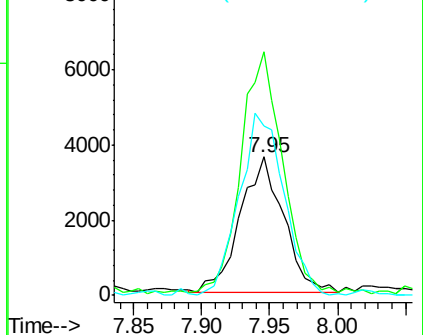
#31
Cyclohexane
Concen: 1.059 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008448.D
Acq: 29 Jan 2019 13:28

Instrument :
MSVOA_W
ClientSampleId :
OK-03-012819-ARE

Tgt Ion: 56 Resp: 8030
Ion Ratio Lower Upper
56 100
69 177.7 26.4 39.6#
84 123.1 69.1 103.7#

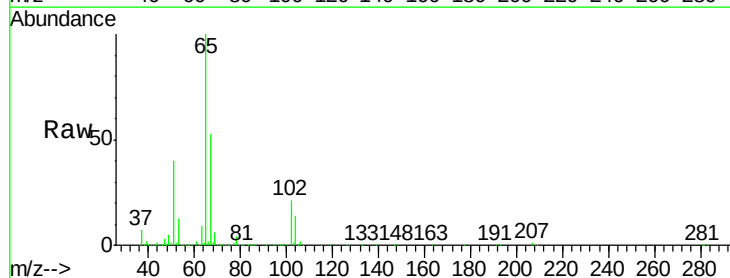


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

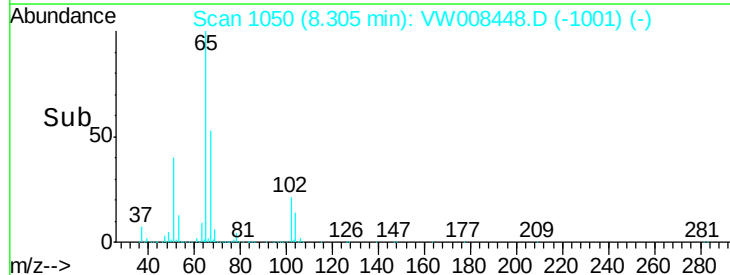
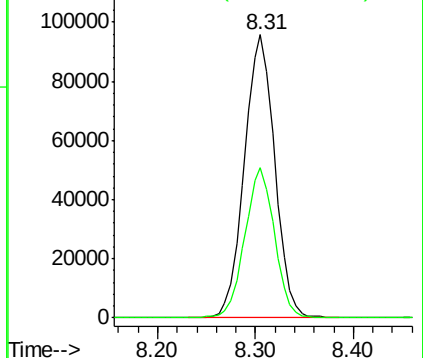


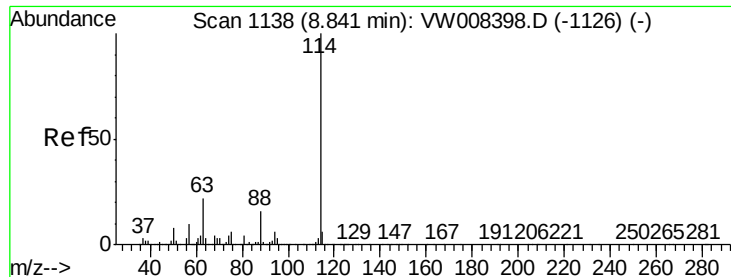
#33
1,2-Dichloroethane-d4
Concen: 53.450 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VW008448.D
Acq: 29 Jan 2019 13:28

Tgt Ion: 65 Resp: 206488
Ion Ratio Lower Upper
65 100
67 52.1 0.0 104.0



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: VW008448.D

Acq: 29 Jan 2019 13:28

Instrument :

MSVOA_W

ClientSampleId :

OK-03-012819-ARE

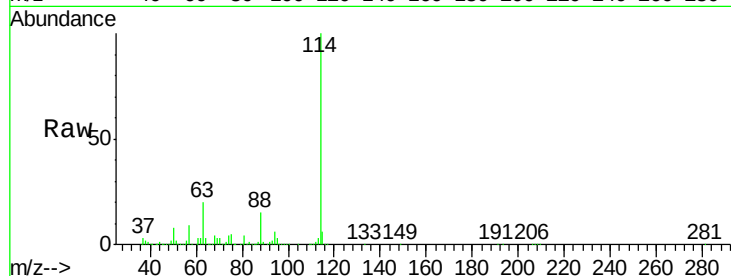
Tgt Ion:114 Resp: 638162

Ion Ratio Lower Upper

114 100

63 20.0 0.0 43.6

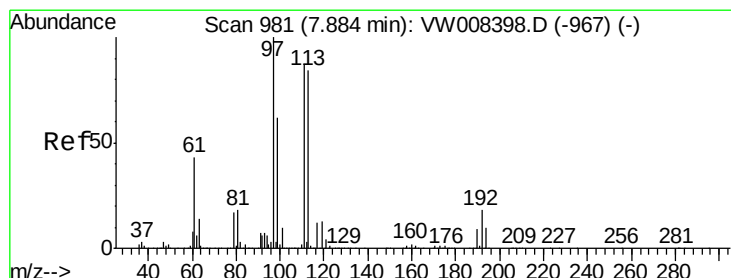
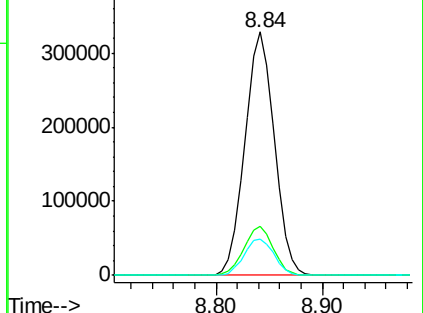
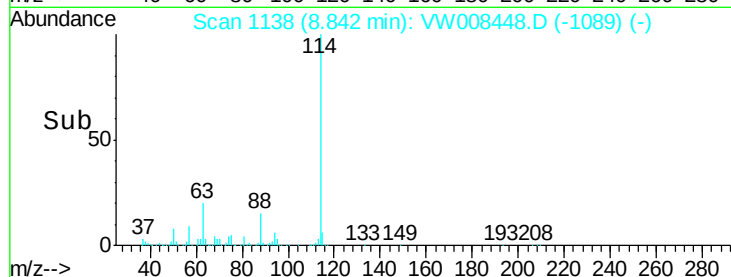
88 15.1 0.0 31.8



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: 54.881 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008448.D

Acq: 29 Jan 2019 13:28

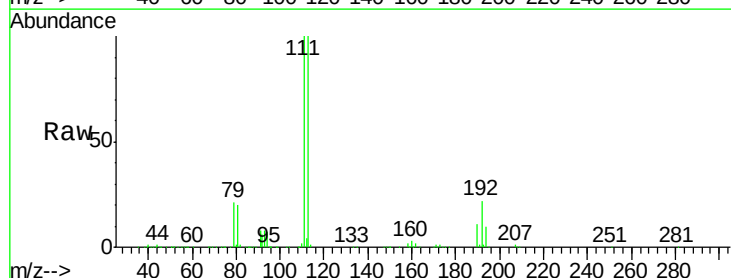
Tgt Ion:113 Resp: 204790

Ion Ratio Lower Upper

113 100

111 101.4 81.0 121.4

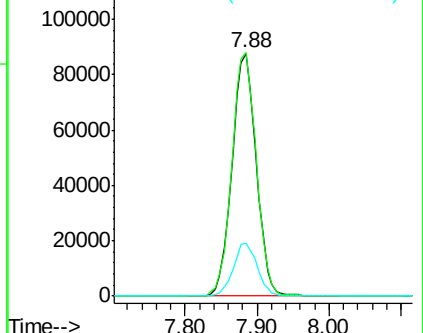
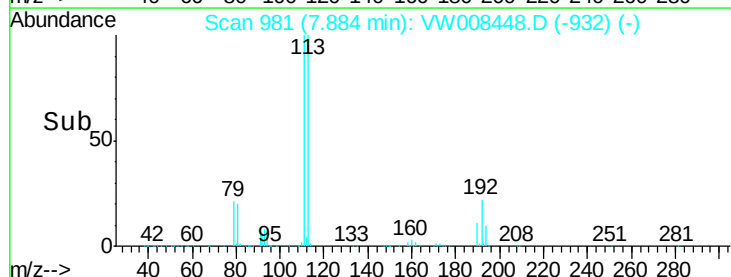
192 21.6 16.8 25.2

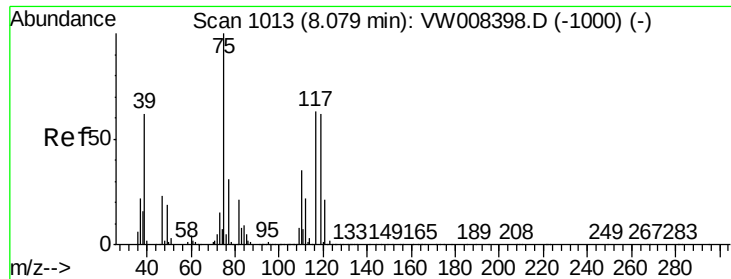


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

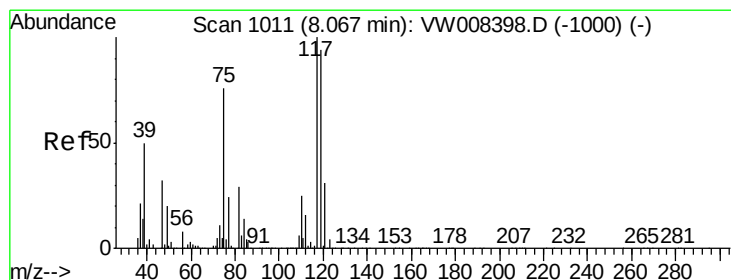
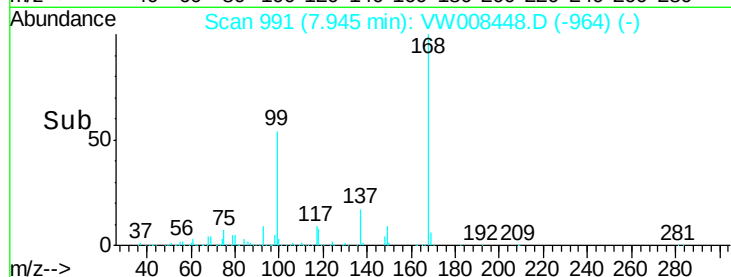
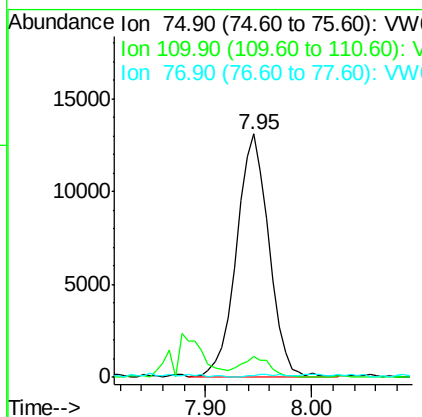
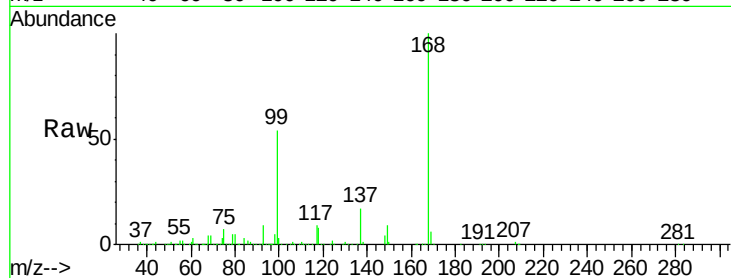




#36
 1,1-Dichloropropene
 Concen: 4.590 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008448.D
 Acq: 29 Jan 2019 13:28

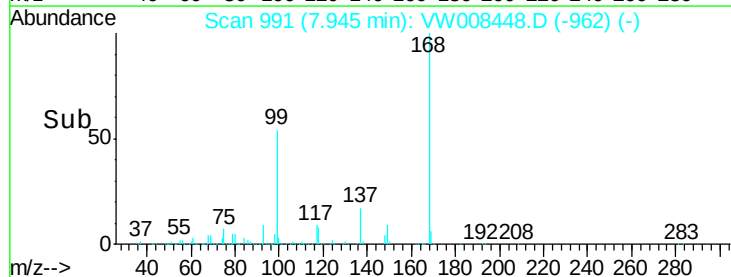
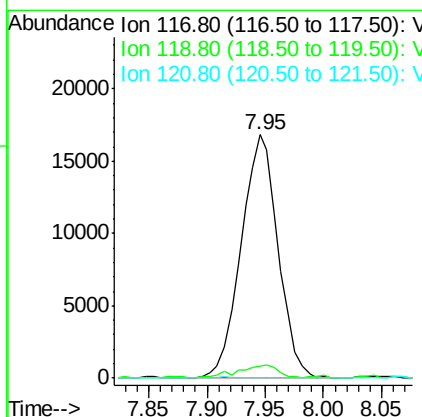
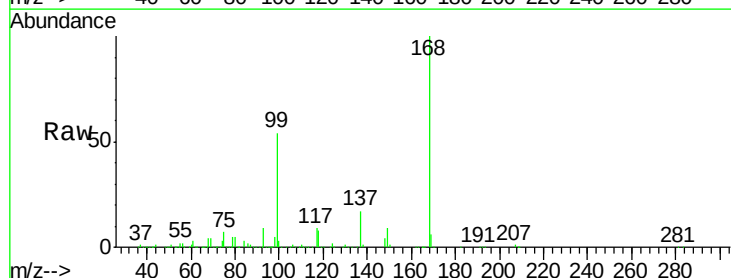
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-ARE

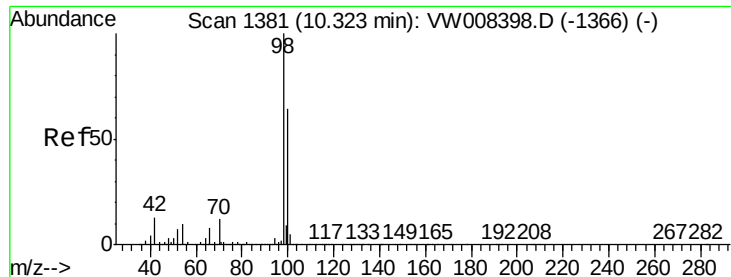
Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	17.3	52.0#
77	1.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.106 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW008448.D
 Acq: 29 Jan 2019 13:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	75.0	112.4#
121	0.0	24.9	37.3#





#50

Toluene-d8

Concen: 48.093 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008448.D

Acq: 29 Jan 2019 13:28

Instrument :

MSVOA_W

ClientSampleId :

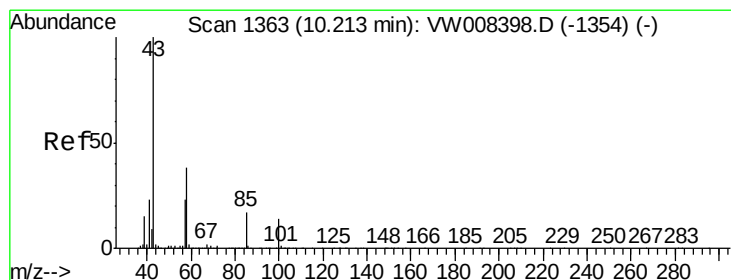
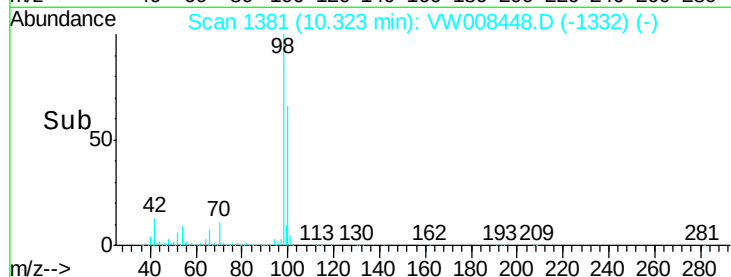
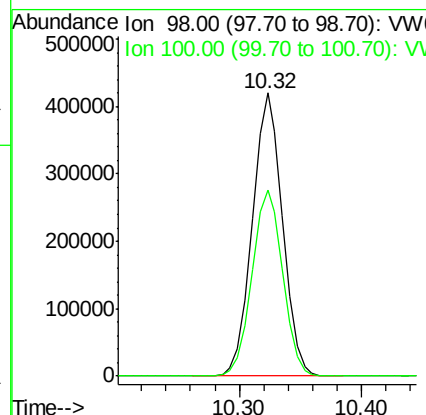
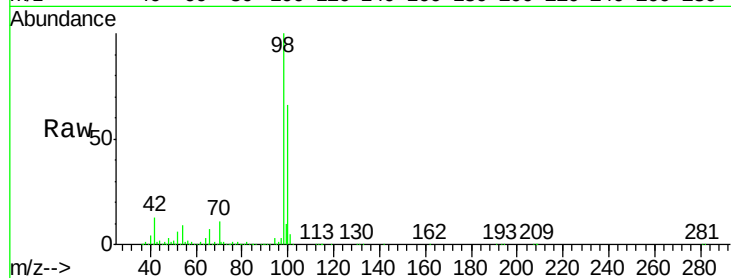
OK-03-012819-ARE

Tgt Ion: 98 Resp: 719651

Ion Ratio Lower Upper

98 100

100 66.9 52.6 78.8



#51

4-Methyl-2-Pentanone

Concen: 1.483 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW008448.D

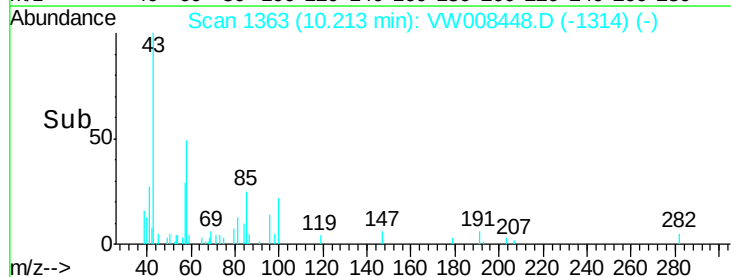
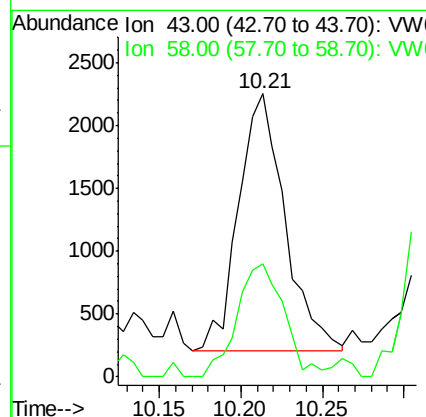
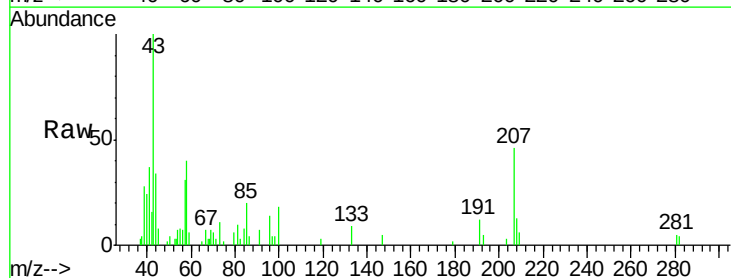
Acq: 29 Jan 2019 13:28

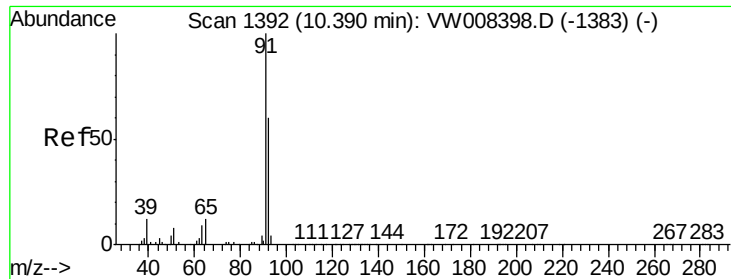
Tgt Ion: 43 Resp: 4059

Ion Ratio Lower Upper

43 100

58 44.5 29.7 44.5





#52

Toluene

Concen: 2.713 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW008448.D

Acq: 29 Jan 2019 13:28

Instrument :

MSVOA_W

ClientSampleId :

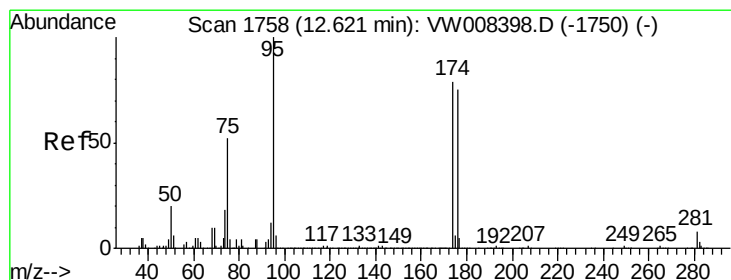
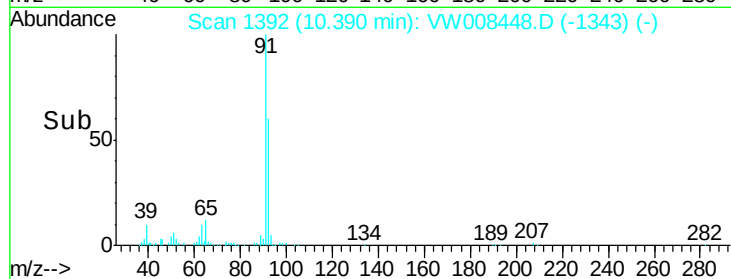
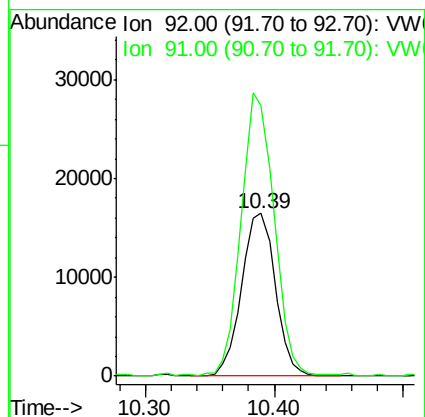
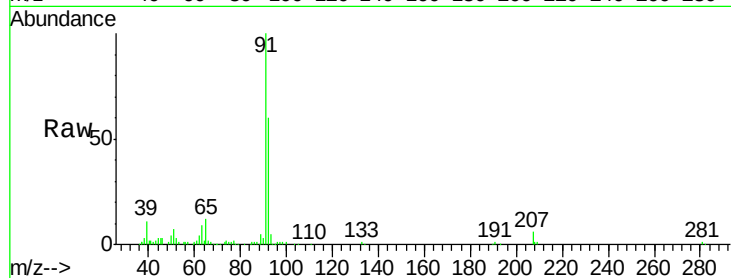
OK-03-012819-ARE

Tgt Ion: 92 Resp: 29959

Ion Ratio Lower Upper

92 100

91 168.6 135.5 203.3



#62

4-Bromofluorobenzene

Concen: 38.944 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008448.D

Acq: 29 Jan 2019 13:28

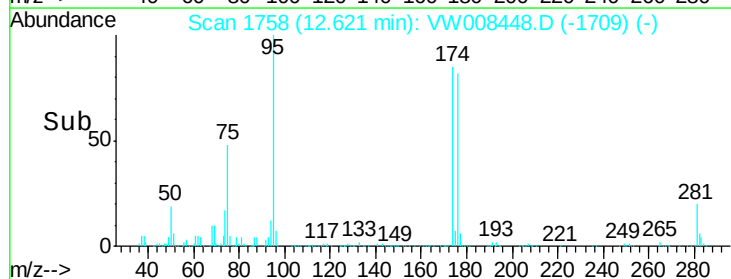
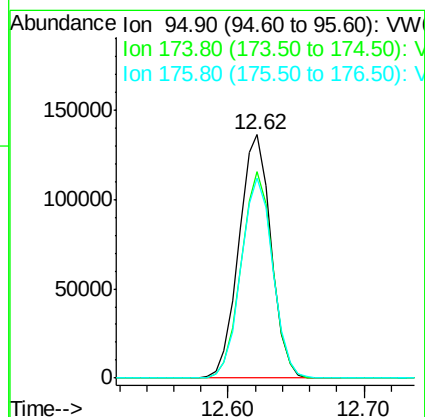
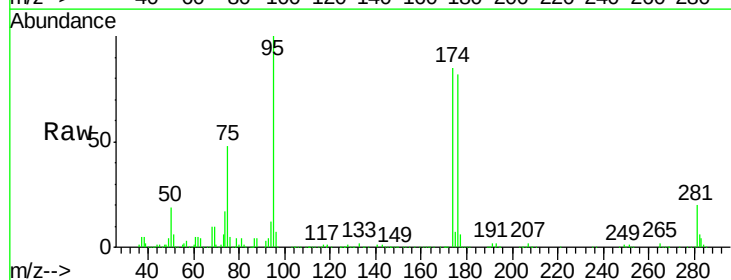
Tgt Ion: 95 Resp: 223999

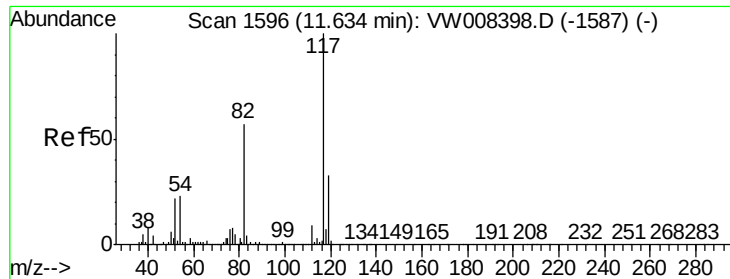
Ion Ratio Lower Upper

95 100

174 83.3 0.0 157.6

176 81.6 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008448.D

Acq: 29 Jan 2019 13:28

Instrument :

MSVOA_W

ClientSampleId :

OK-03-012819-ARE

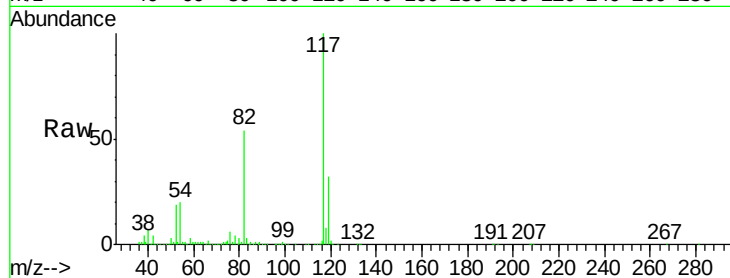
Tgt Ion:117 Resp: 516898

Ion Ratio Lower Upper

117 100

82 54.2 45.4 68.0

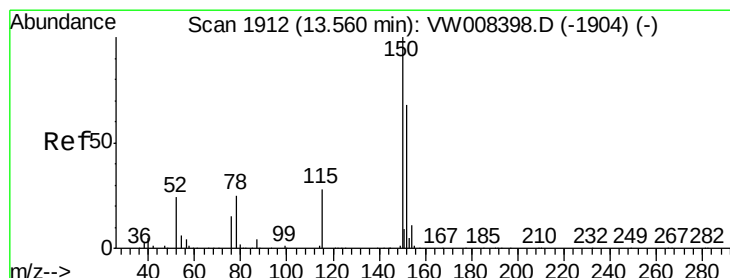
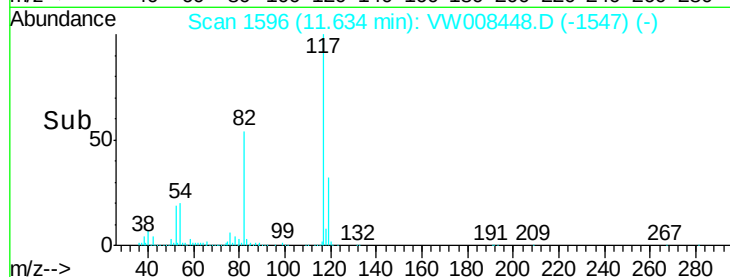
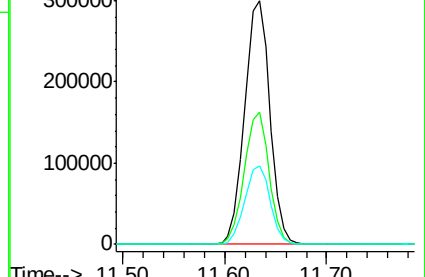
119 32.1 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008448.D

Acq: 29 Jan 2019 13:28

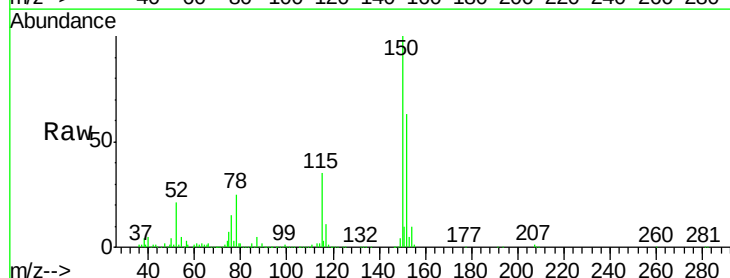
Tgt Ion:152 Resp: 181371

Ion Ratio Lower Upper

152 100

115 57.0 29.9 89.7

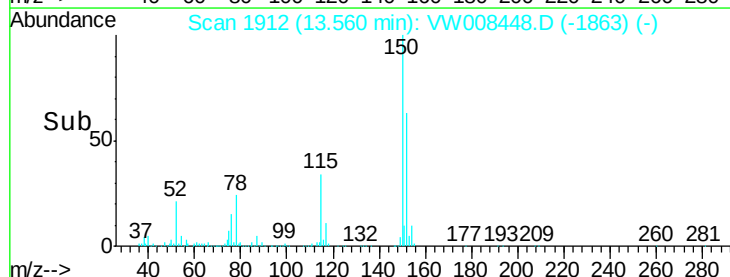
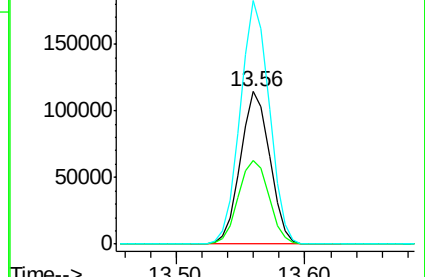
150 157.4 0.0 351.4

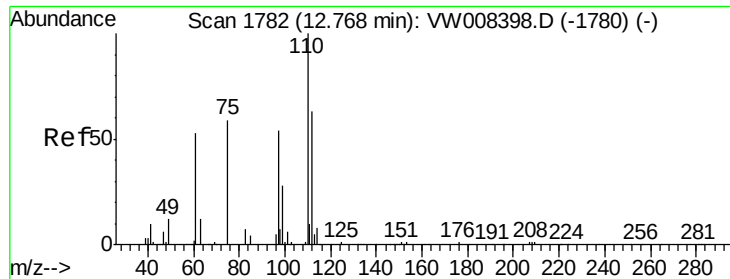


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

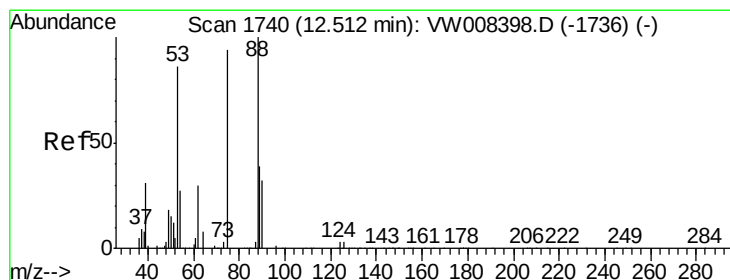
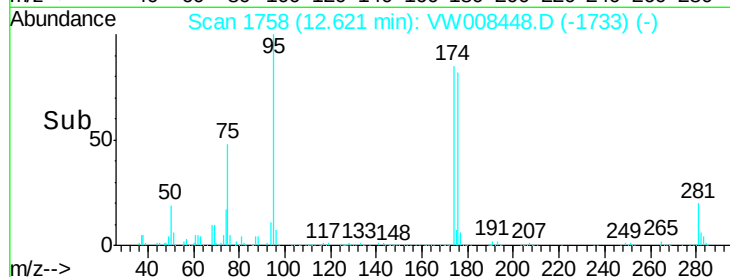
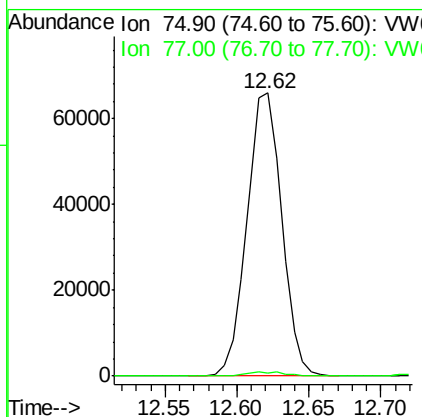
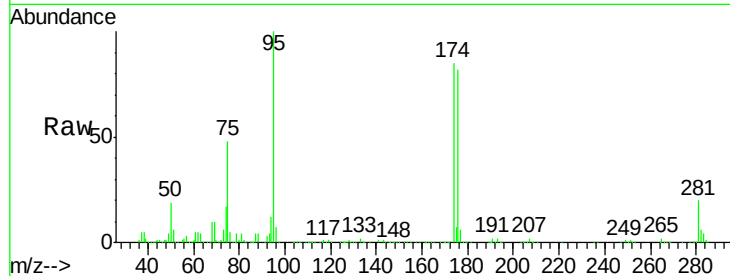




#76
 1,2,3-Trichloropropane
 Concen: 69.774 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008448.D
 Acq: 29 Jan 2019 13:28

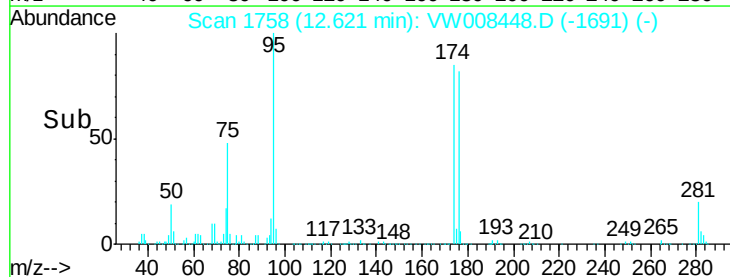
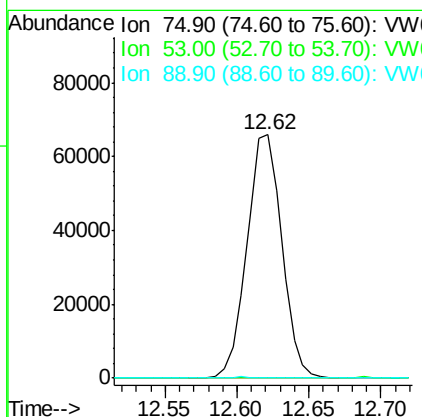
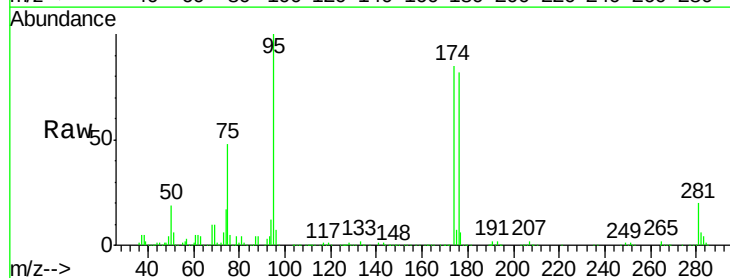
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-ARE

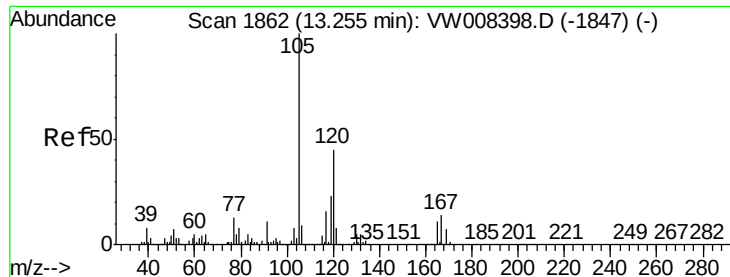
Tgt Ion: 75 Resp: 110026
 Ion Ratio Lower Upper
 75 100
 77 1.4 180.7 542.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 137.809 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW008448.D
 Acq: 29 Jan 2019 13:28

Tgt Ion: 75 Resp: 110026
 Ion Ratio Lower Upper
 75 100
 53 0.3 76.0 114.0#
 89 0.3 35.4 53.0#

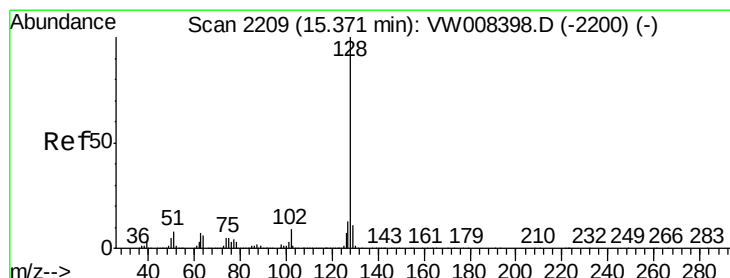
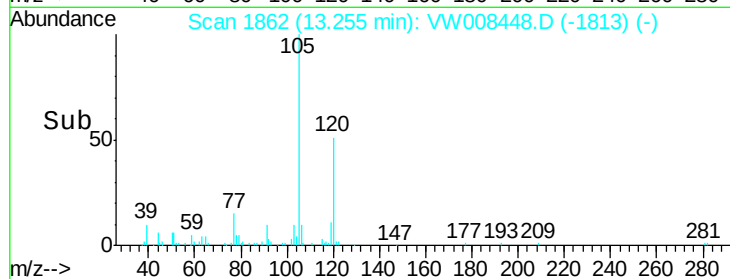
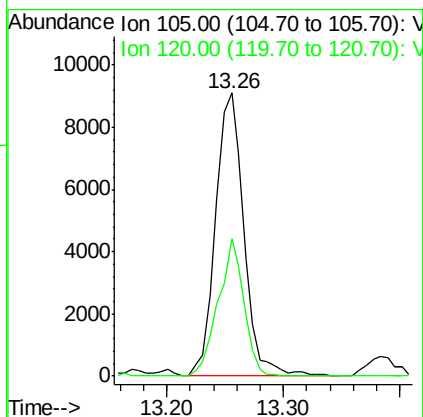
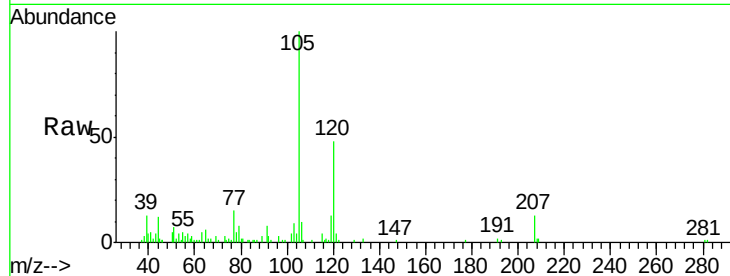




#84
1,2,4-Trimethylbenzene
Concen: 1.327 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW008448.D
Acq: 29 Jan 2019 13:28

Instrument :
MSVOA_W
ClientSampleId :
OK-03-012819-ARE

Tgt Ion:105 Resp: 15245
Ion Ratio Lower Upper
105 100
120 43.9 23.1 69.2



#95
Naphthalene
Concen: 1.525 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008448.D
Acq: 29 Jan 2019 13:28

Tgt Ion:128 Resp: 10084
Ion Ratio Lower Upper
128 100
127 16.4 10.6 15.8#
129 14.8 8.7 13.1#

