

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050919\
 Data File : VW010343.D
 Acq On : 09 May 2019 18:17
 Operator : SY/VA
 Sample : K2718-01
 Misc : 6.01G/5ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: May 10 02:23:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050919S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 13:55:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	110212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	161597	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	144254	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	49067	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	75870	64.75	ug/l	0.00
Spiked Amount			Recovery	=	129.50%	
35) Dibromofluoromethane	7.88	113	62256	65.83	ug/l	0.00
Spiked Amount			Recovery	=	131.66%	
50) Toluene-d8	10.32	98	202335	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
62) 4-Bromofluorobenzene	12.62	95	56309	41.54	ug/l	0.00
Spiked Amount			Recovery	=	83.08%	

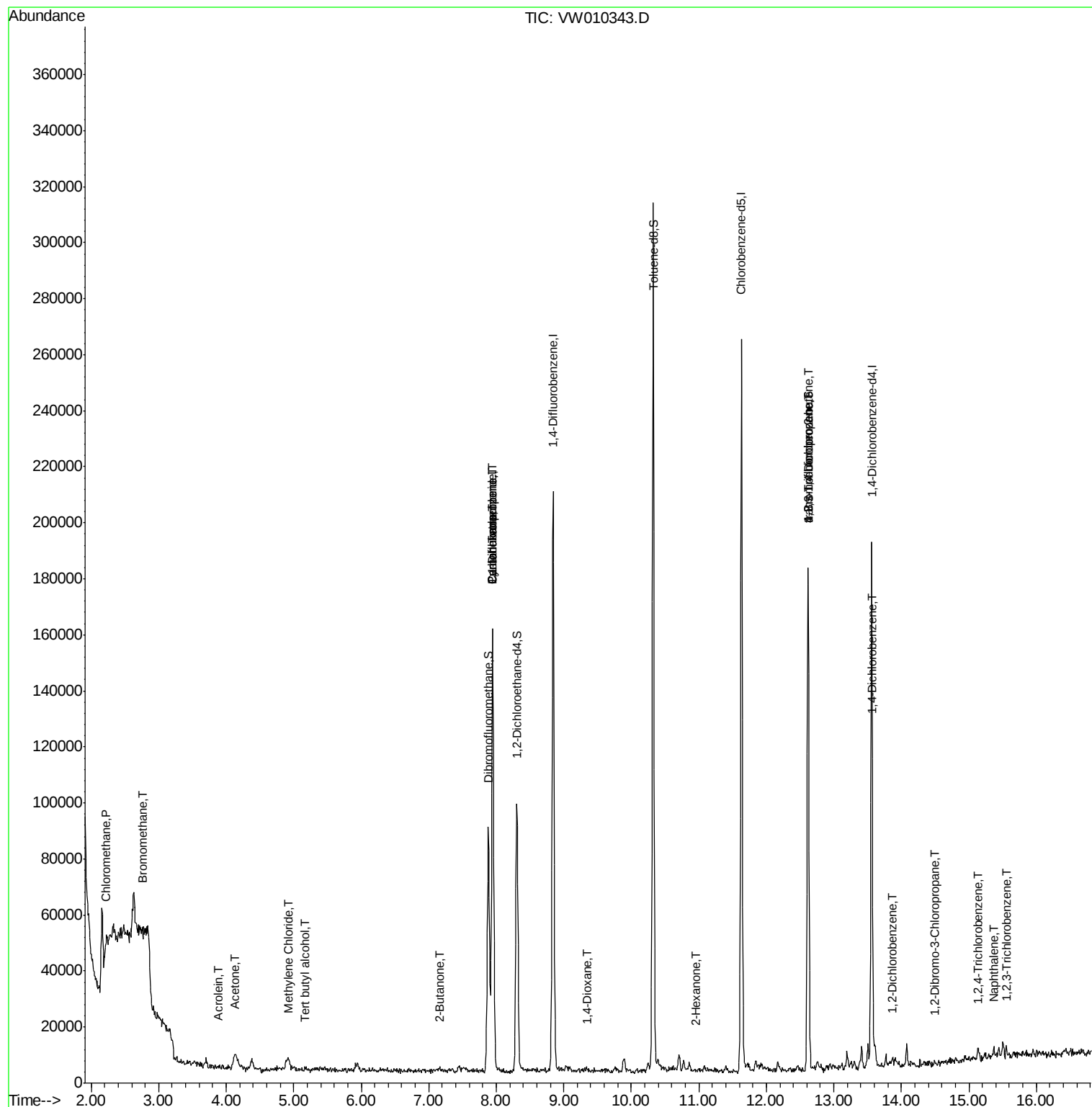
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	3399	3.013	ug/l #	81
5) Bromomethane	2.76	94	1519	1.879	ug/l #	35
11) Tert butyl alcohol	5.16	59	283	3.420	ug/l #	77
13) Acrolein	3.89	56	463	4.238	ug/l #	73
16) Acetone	4.13	43	15135	49.549	ug/l #	80
20) Methylene Chloride	4.91	84	2911	2.285	ug/l #	75
25) 2-Butanone	7.17	43	594	1.271	ug/l #	51
31) Cyclohexane	7.95	56	3236	1.348	ug/l #	23
36) 1,1-Dichloropropene	7.95	75	10078	5.752	ug/l #	46
38) Carbon Tetrachloride	7.95	117	11556	7.694	ug/l #	17
49) 1,4-Dioxane	9.35	88	44	4.095	ug/l #	1
59) 2-Hexanone	10.96	43	814	1.298	ug/l	91
76) 1,2,3-Trichloropropane	12.62	75	28936	50.580	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	28936	114.226	ug/l #	6
88) 1,4-Dichlorobenzene	13.58	146	1614	1.009	ug/l #	72
91) 1,2-Dichlorobenzene	13.87	146	1473	1.032	ug/l	84
92) 1,2-Dibromo-3-Chloropropan	14.50	75	161	1.135	ug/l #	50
93) 1,2,4-Trichlorobenzene	15.14	180	1218	1.250	ug/l #	84
95) Naphthalene	15.37	128	2525	4.647	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.56	180	921	1.046	ug/l	92

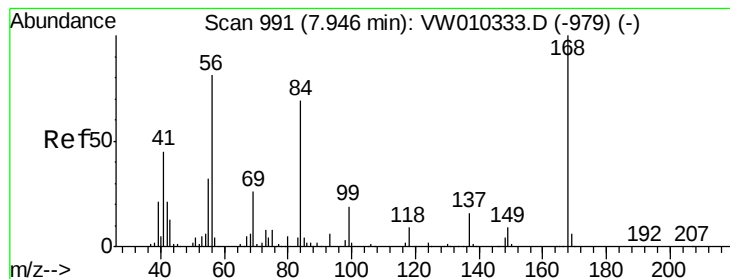
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 09 13:55:10 2019
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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: VW010343.D

Acq: 09 May 2019 18:17

Instrument :

MSVOA_W

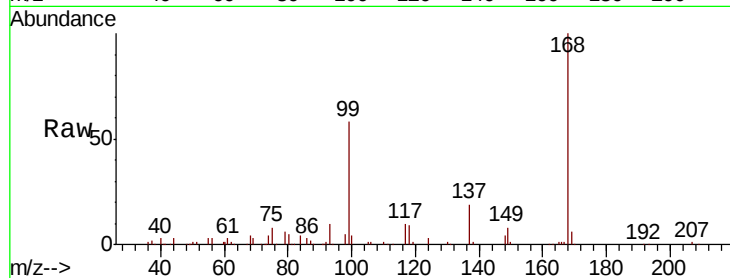
ClientSampled :

Tot Ion:168 Resp: 110212

Ion Ratio Lower Upper

168 100

99 58.0 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

60000

50000

40000

30000

20000

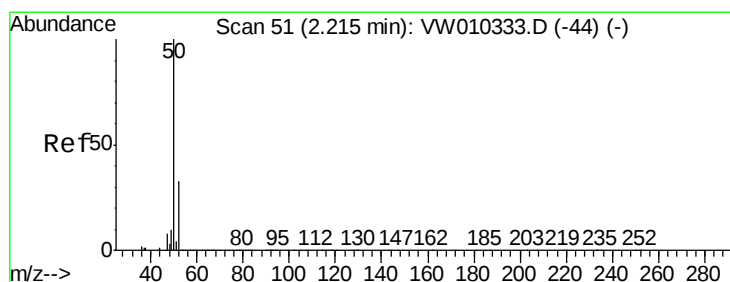
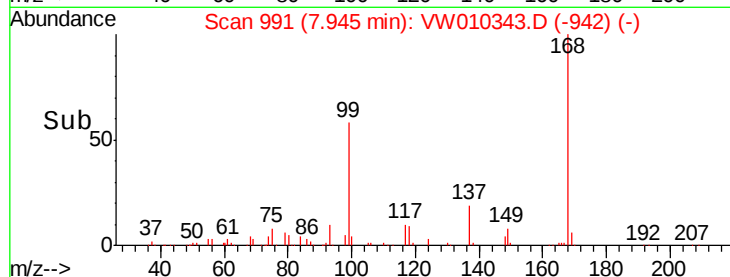
10000

0

7.90

8.00

Time-->



#3

Chloromethane

Concen: 3.013 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW010343.D

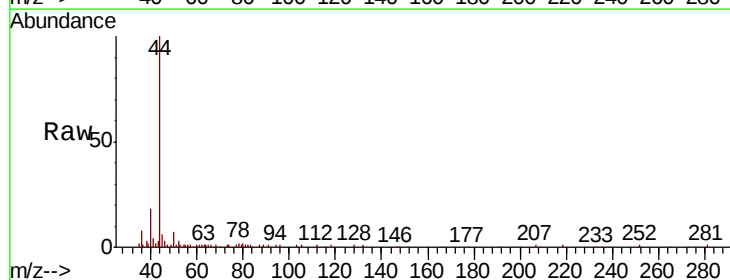
Acq: 09 May 2019 18:17

Tgt Ion: 50 Resp: 3399

Ion Ratio Lower Upper

50 100

52 41.9 25.0 37.6#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2000

1500

1000

500

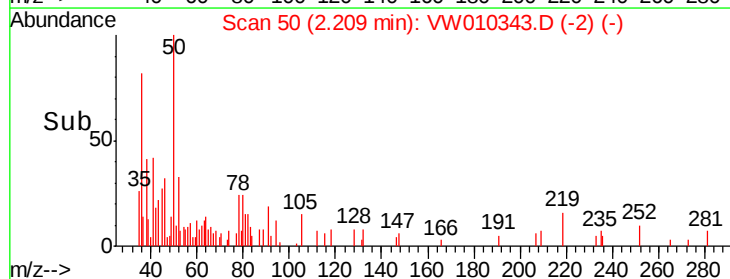
0

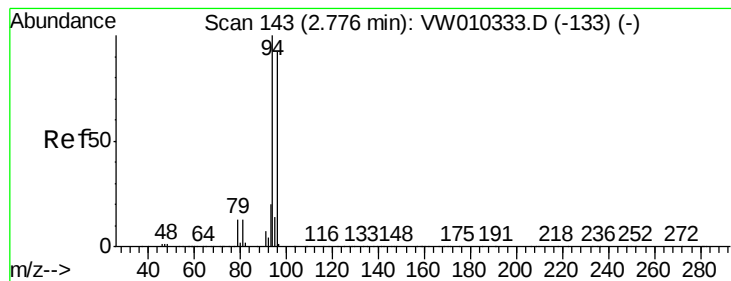
2.15

2.20

2.25

Time-->





#5

Bromomethane

Concen: 1.879 ug/l

RT: 2.76 min Scan# 140

Delta R.T. -0.02 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

Instrument :

MSVOA_W

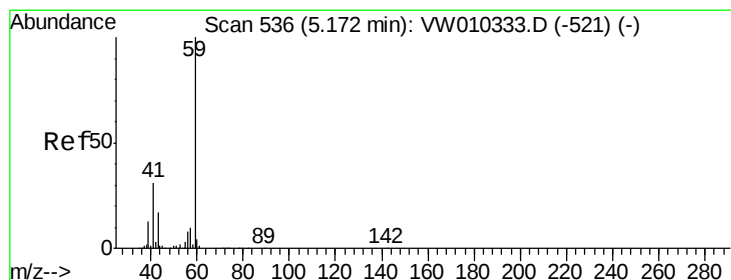
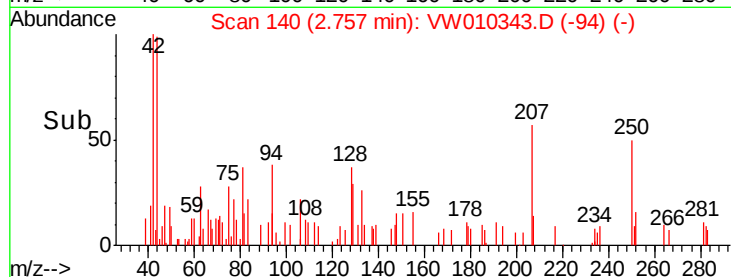
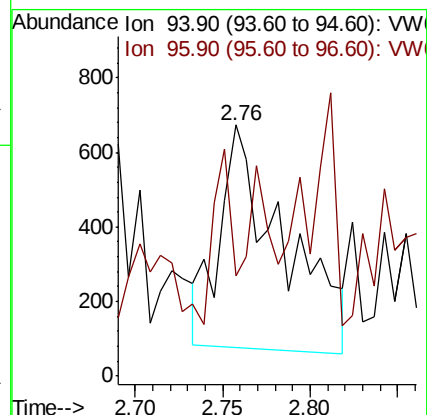
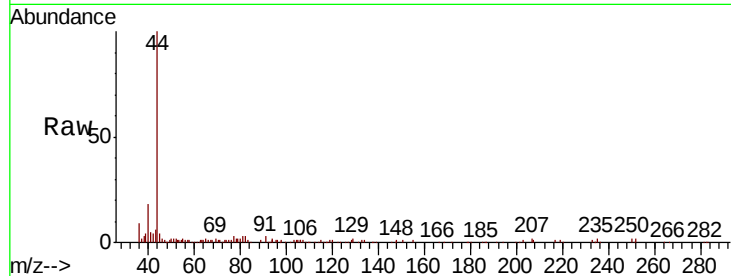
ClientSampled :

Tot Ion: 94 Resp: 1519

Ion Ratio Lower Upper

94 100

96 30.5 74.2 111.2#



#11

Tert butyl alcohol

Concen: 3.420 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW010343.D

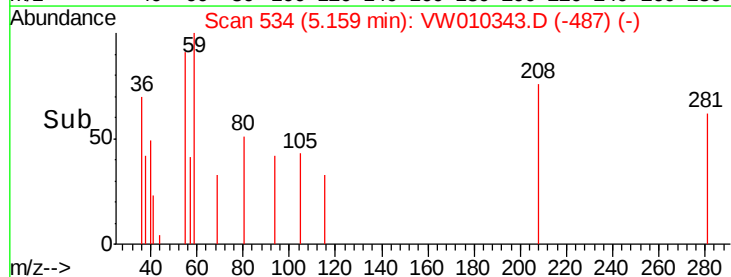
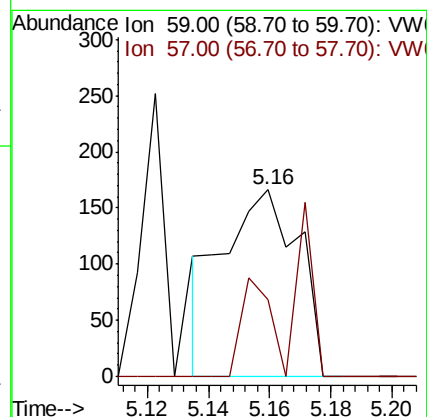
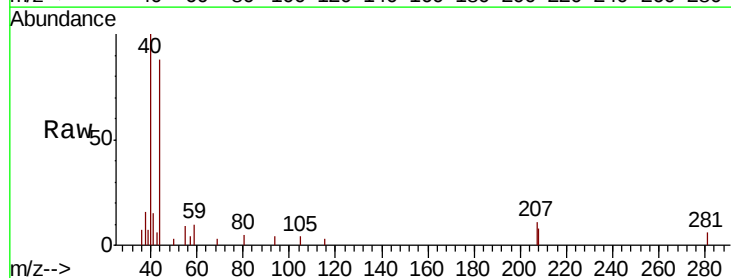
Acq: 09 May 2019 18:17

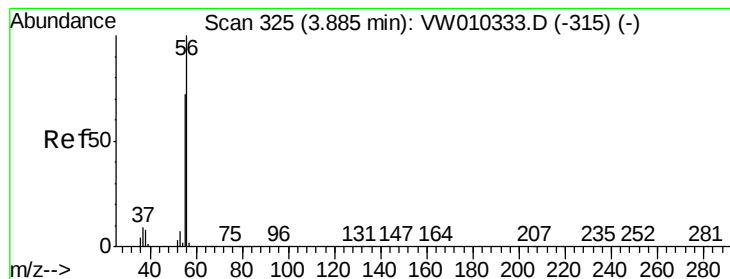
Tgt Ion: 59 Resp: 283

Ion Ratio Lower Upper

59 100

57 20.1 9.0 13.4#





#13

Acrolein

Concen: 4.238 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

Instrument :

MSVOA_W

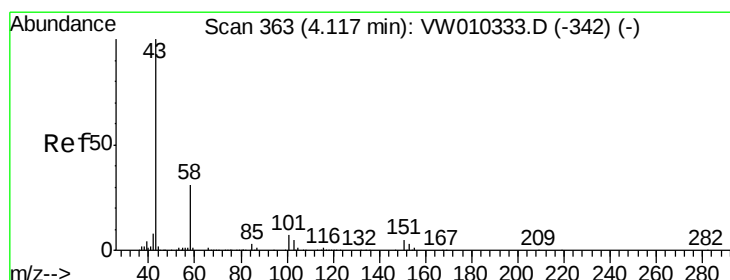
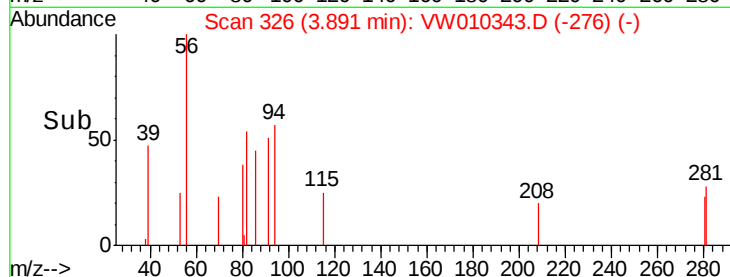
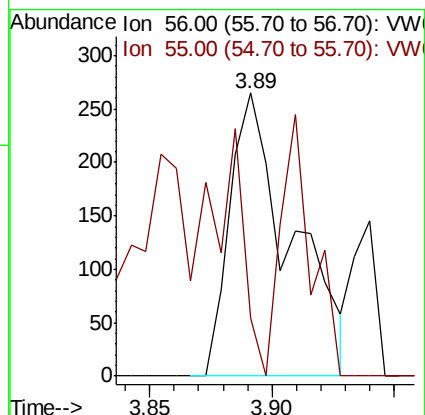
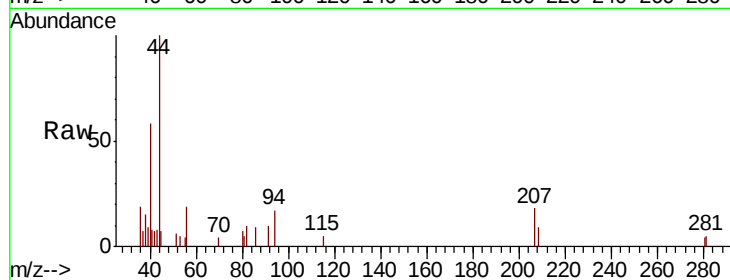
ClientSampled :

Tot Ion: 56 Resp: 463

Ion Ratio Lower Upper

56 100

55 46.0 54.2 81.2#



#16

Acetone

Concen: 49.549 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010343.D

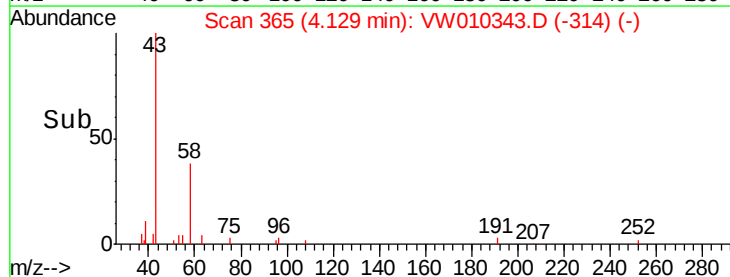
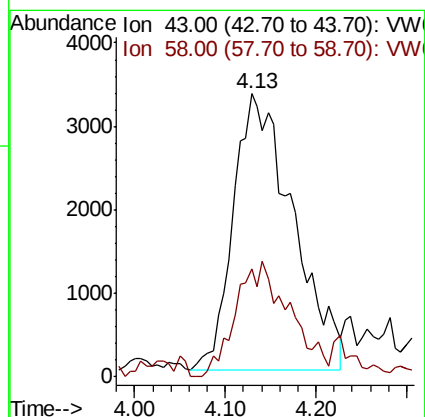
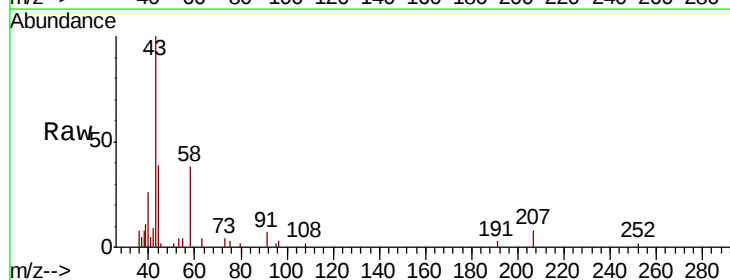
Acq: 09 May 2019 18:17

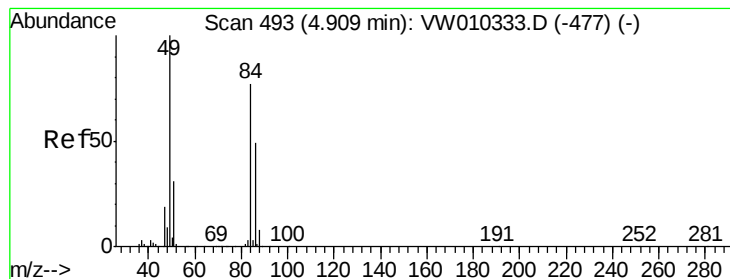
Tgt Ion: 43 Resp: 15135

Ion Ratio Lower Upper

43 100

58 39.1 22.7 34.1#





#20

Methylene Chloride

Concen: 2.285 ug/l

RT: 4.91 min Scan# 493

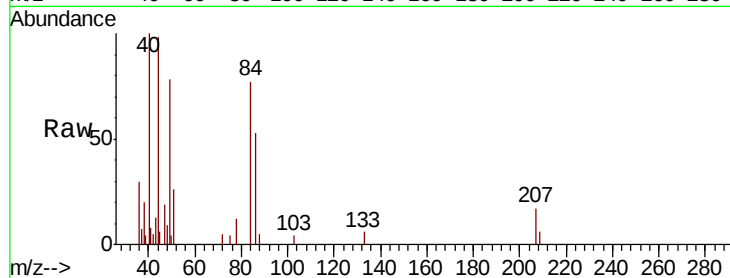
Delta R.T. -0.00 min

Lab File: VW010343.D

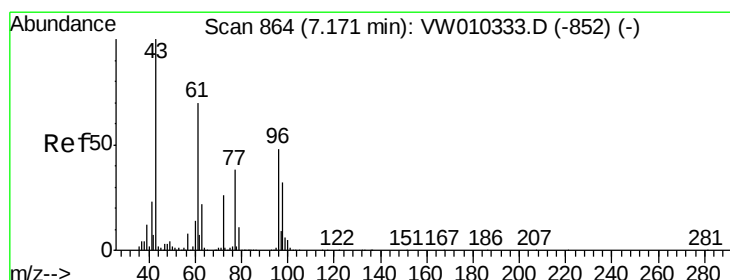
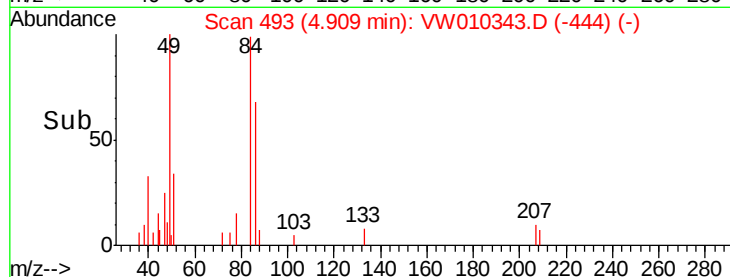
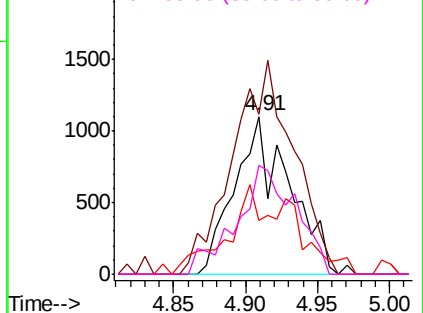
Acq: 09 May 2019 18:17

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:	84	Resp:	2911
Ion	Ratio	Lower	Upper
84	100		
49	101.5	112.3	168.5#
51	25.2	33.9	50.9#
86	69.1	50.2	75.4



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: 1.271 ug/l

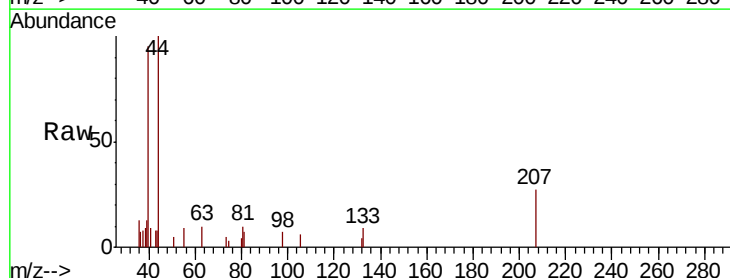
RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

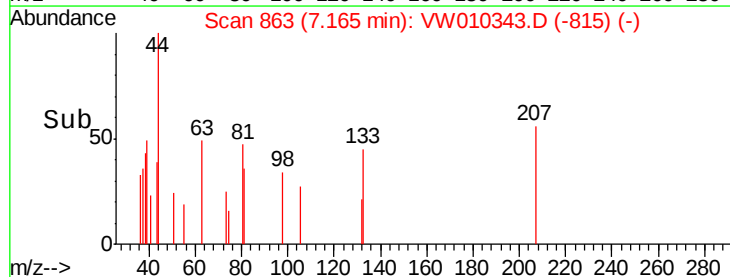
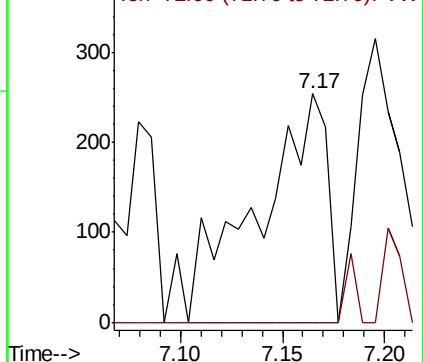
Lab File: VW010343.D

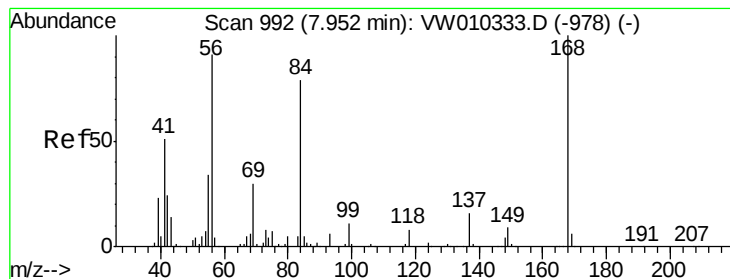
Acq: 09 May 2019 18:17

Tgt Ion:	43	Resp:	594
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.1	28.7#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#31

Cyclohexane

Concen: 1.348 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

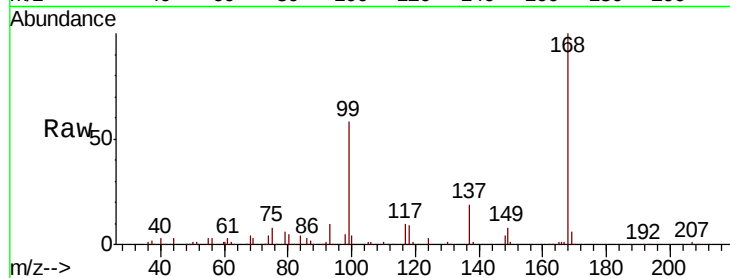
Lab File: VW010343.D

Acq: 09 May 2019 18:17

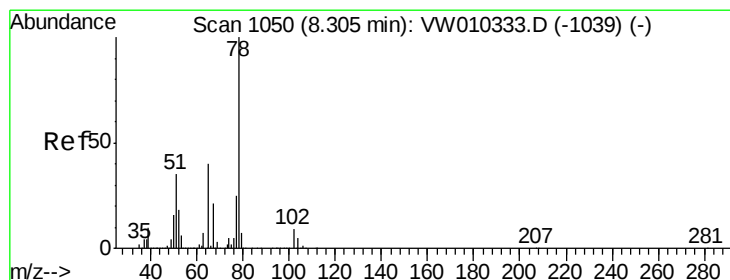
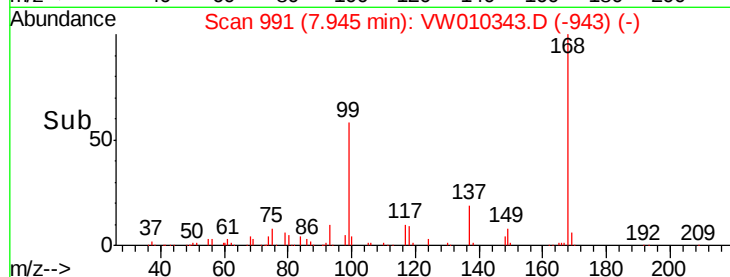
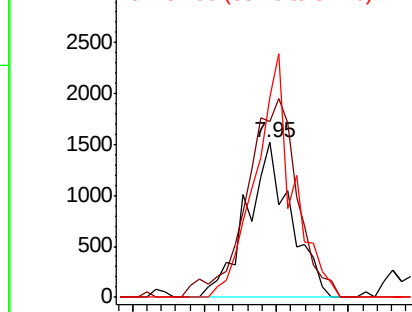
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 3236

Ion	Ratio	Lower	Upper
56	100		
69	113.6	26.6	40.0#
84	129.0	66.2	99.2#



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: 64.752 ug/l

RT: 8.31 min Scan# 1050

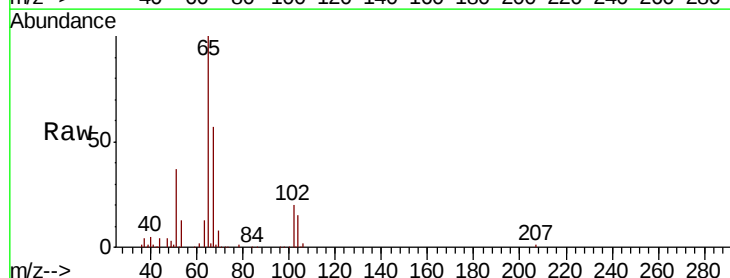
Delta R.T. -0.00 min

Lab File: VW010343.D

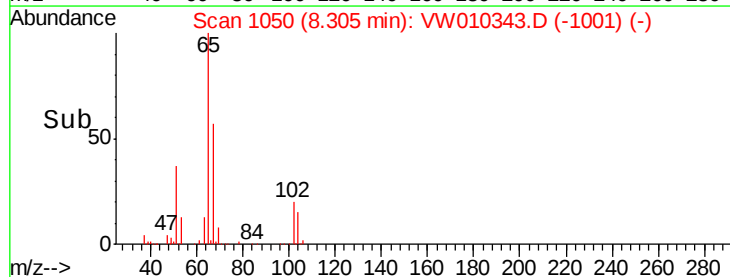
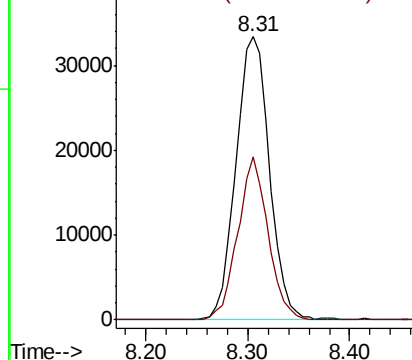
Acq: 09 May 2019 18:17

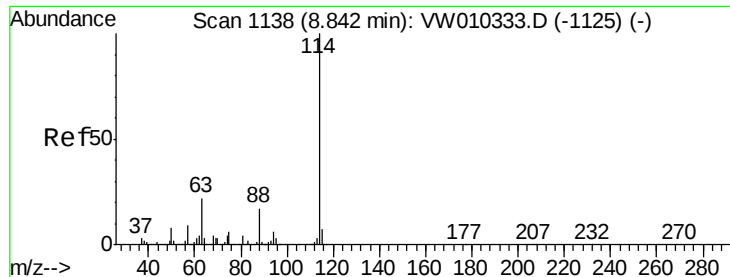
Tgt Ion: 65 Resp: 75870

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	100.8



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

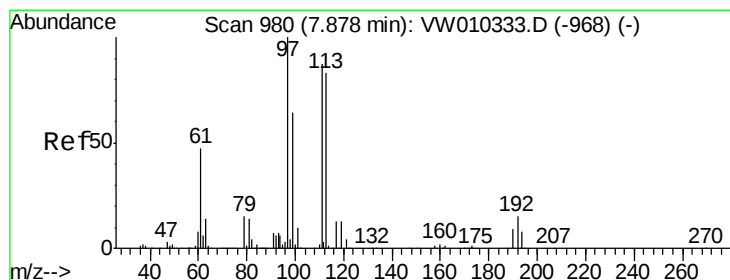
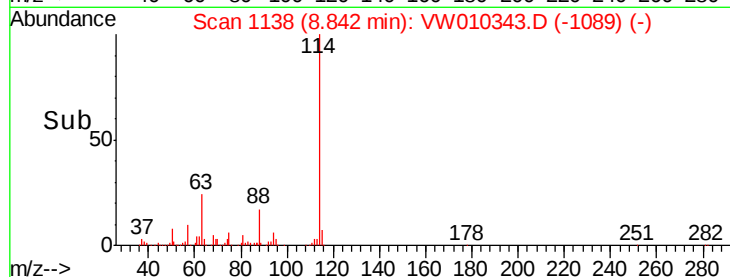
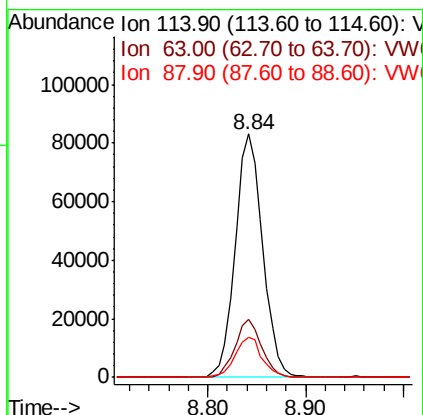
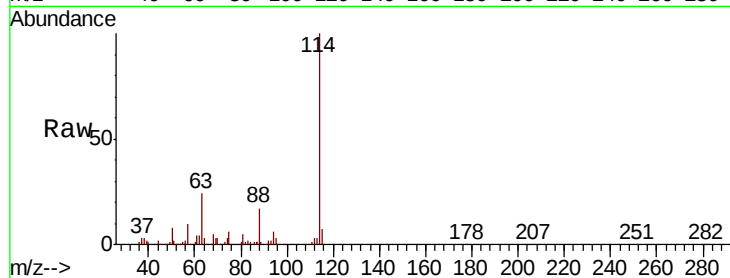




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010343.D
 Acq: 09 May 2019 18:17

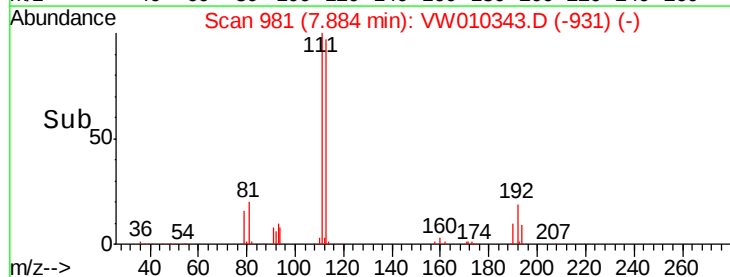
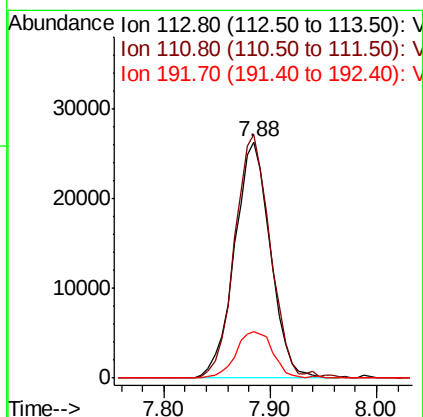
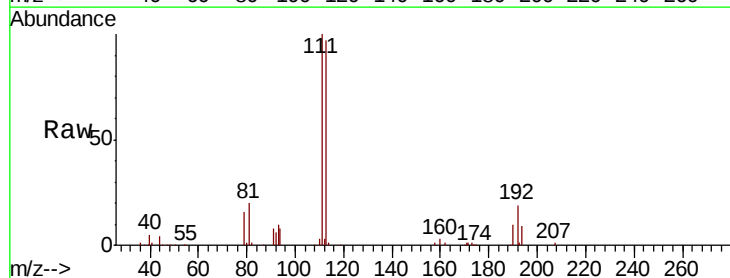
Instrument :
 MSVOA_W
 ClientSampleId :

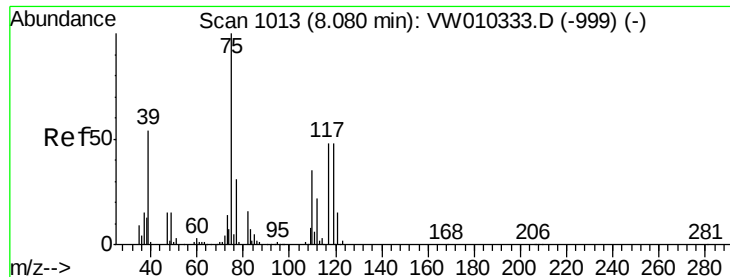
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	46.2
88	16.7	0.0	32.6



#35
 Dibromofluoromethane
 Concen: 65.834 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW010343.D
 Acq: 09 May 2019 18:17

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.6	123.8
192	20.4	15.4	23.2

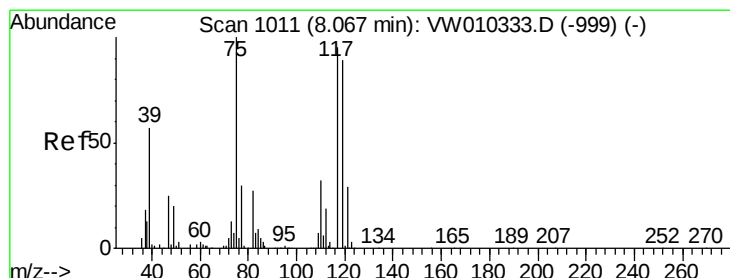
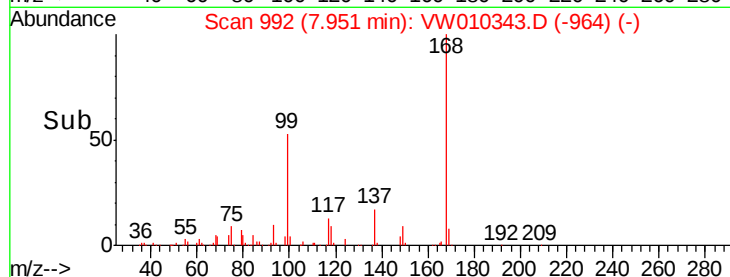
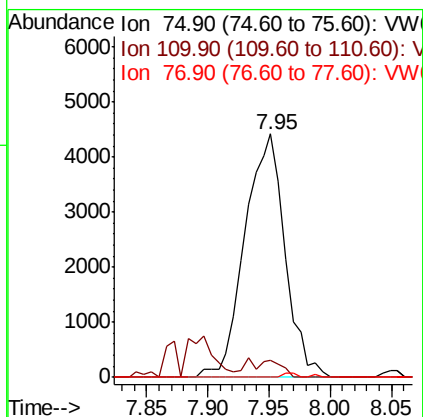
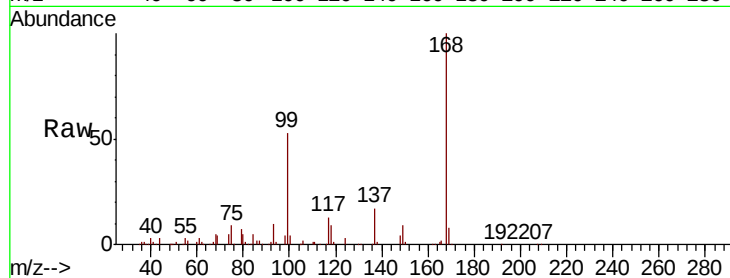




#36
 1,1-Dichloropropene
 Concen: 5.752 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW010343.D
 Acq: 09 May 2019 18:17

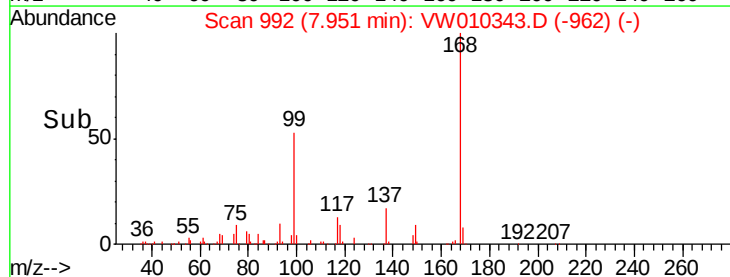
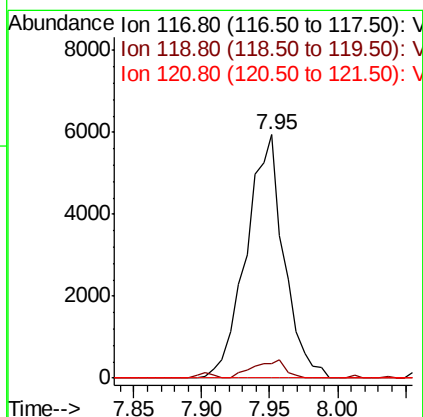
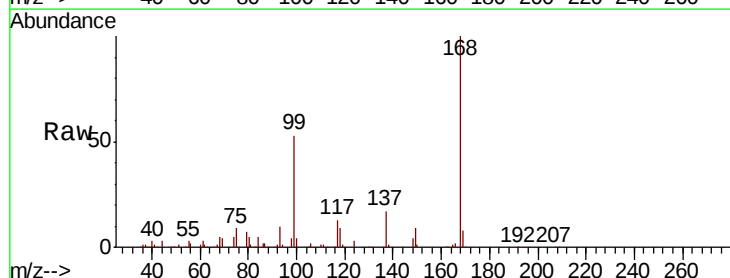
Instrument :
 MSVOA_W
 ClientSampleId :

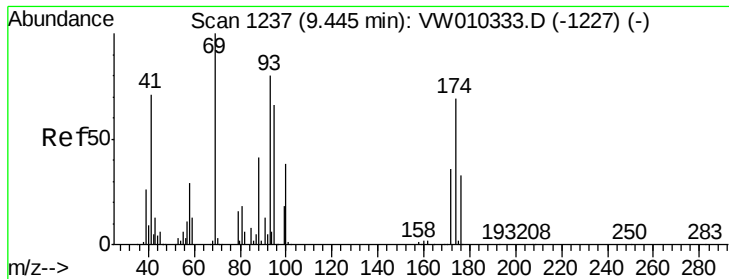
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.7	16.6	49.8#
77	0.5	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.694 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW010343.D
 Acq: 09 May 2019 18:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	75.3	112.9#
121	0.0	24.4	36.6#

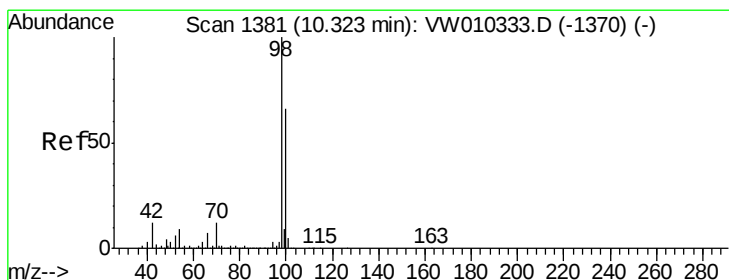
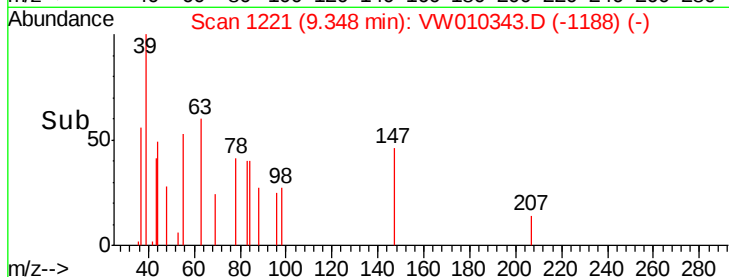
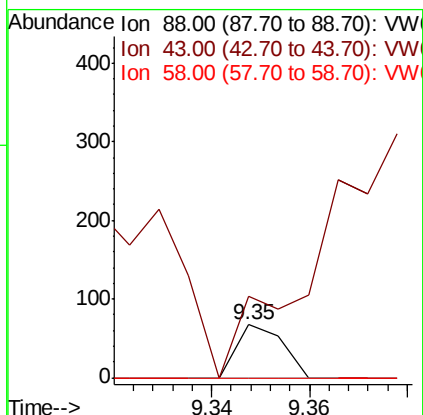
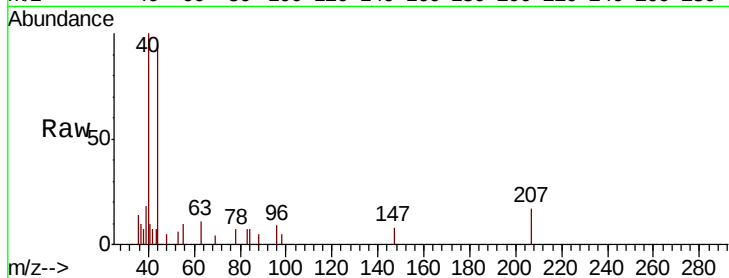




#49
1,4-Dioxane
Concen: 4.095 ug/l
RT: 9.35 min Scan# 1221
Delta R.T. -0.10 min
Lab File: VW010343.D
Acq: 09 May 2019 18:17

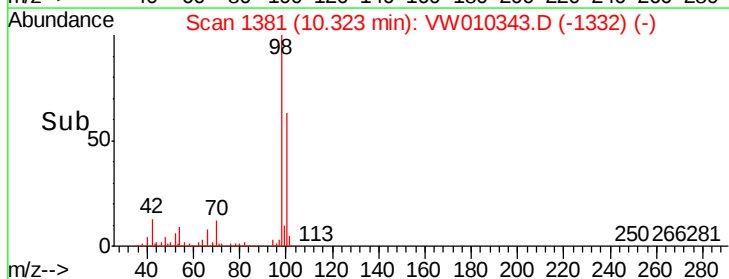
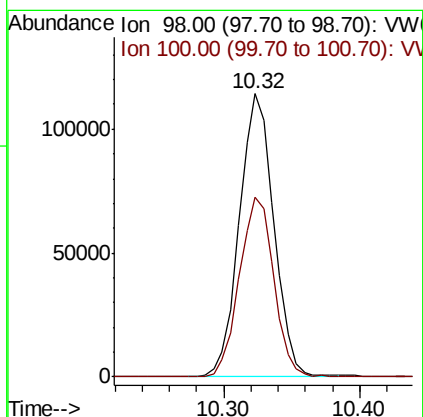
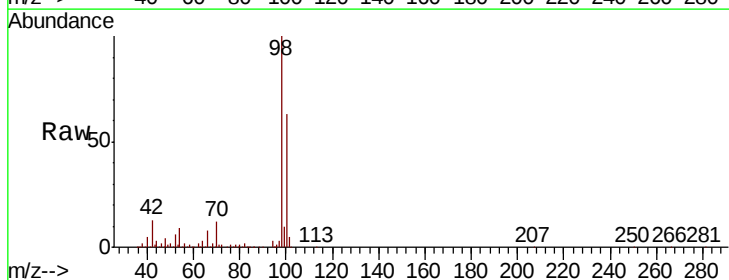
Instrument :
MSVOA_W
ClientSampleId :

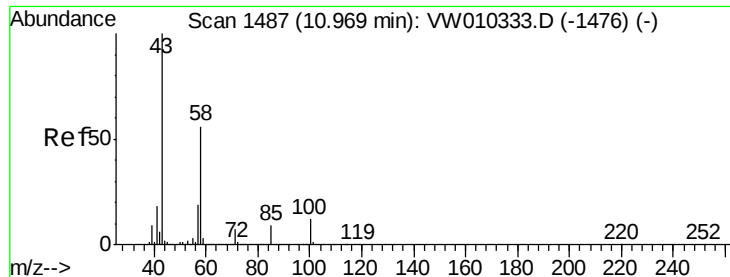
Tot Ion: 88 Resp: 44
Ion Ratio Lower Upper
88 100
43 784.1 31.9 47.9#
58 0.0 61.8 92.6#



#50
Toluene-d8
Concen: 52.545 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010343.D
Acq: 09 May 2019 18:17

Tgt Ion: 98 Resp: 202335
Ion Ratio Lower Upper
98 100
100 63.5 52.3 78.5





#59

2-Hexanone

Concen: 1.298 ug/l

RT: 10.96 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

Instrument :

MSVOA_W

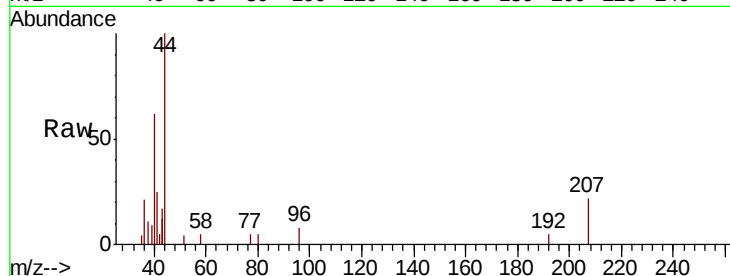
ClientSampled :

Tot Ion: 43 Resp: 814

Ion Ratio Lower Upper

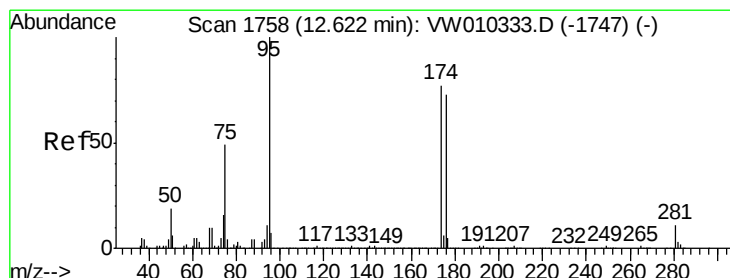
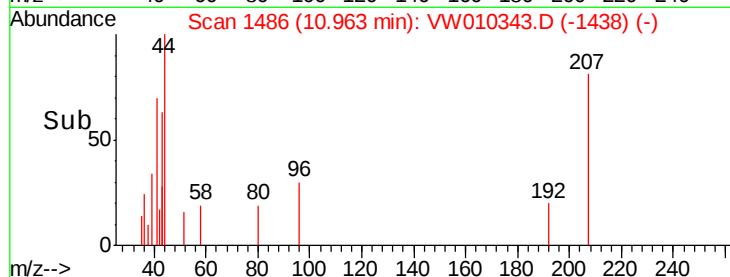
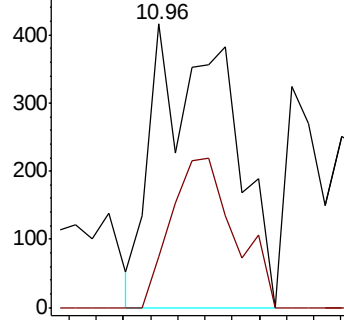
43 100

58 43.9 24.9 74.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 41.542 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

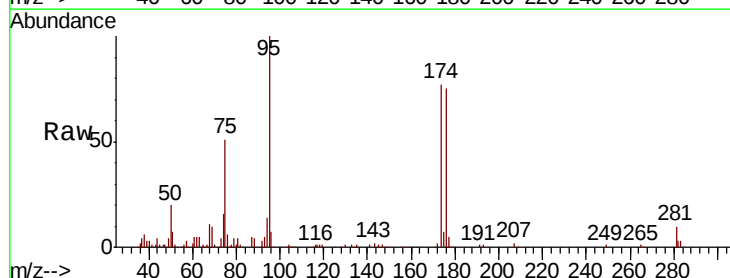
Tgt Ion: 95 Resp: 56309

Ion Ratio Lower Upper

95 100

174 79.5 0.0 151.4

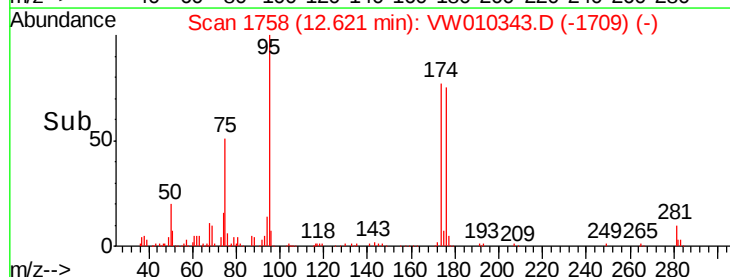
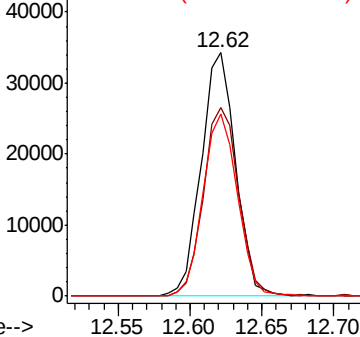
176 75.0 0.0 146.2

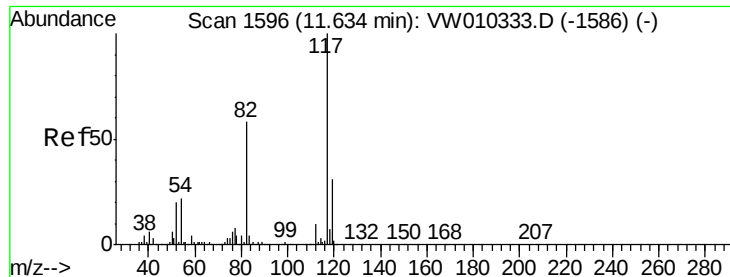


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

Instrument :

MSVOA_W

ClientSampleId :

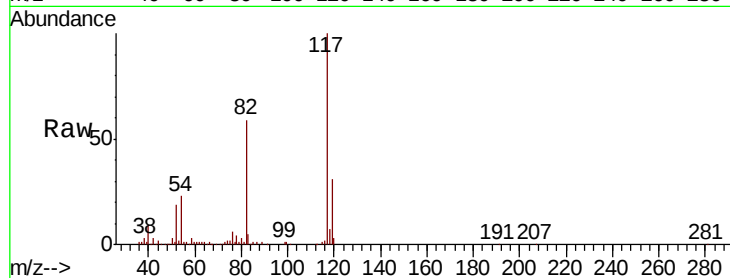
Tot Ion:117 Resp: 144254

Ion Ratio Lower Upper

117 100

82 58.6 45.2 67.8

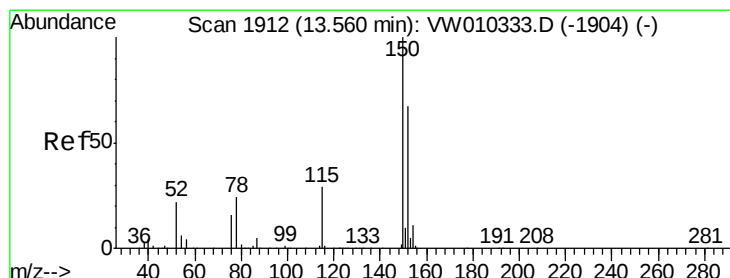
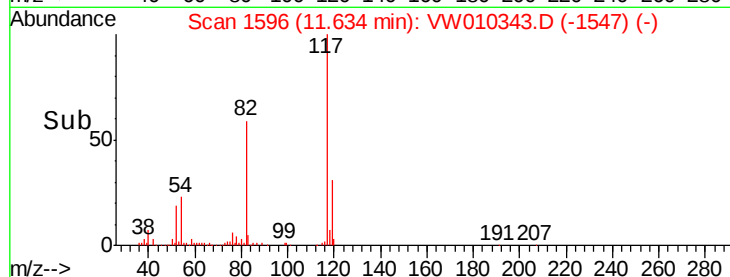
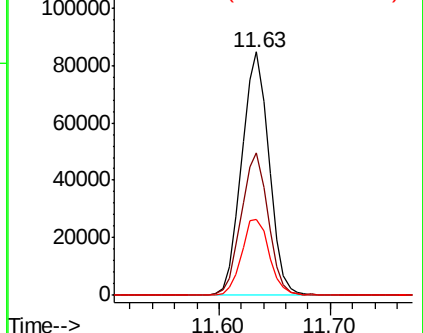
119 31.3 25.4 38.2



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: VW010343.D

Acq: 09 May 2019 18:17

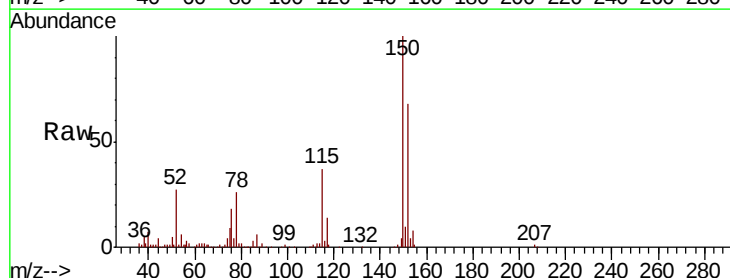
Tgt Ion:152 Resp: 49067

Ion Ratio Lower Upper

152 100

115 58.1 30.4 91.2

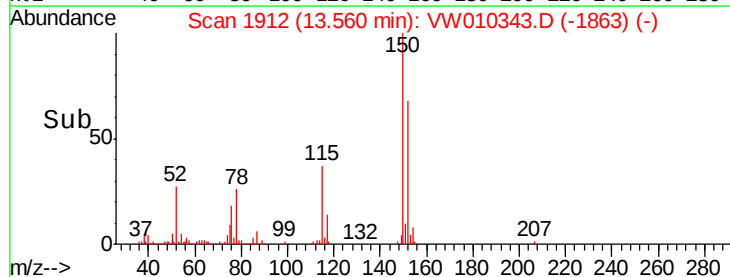
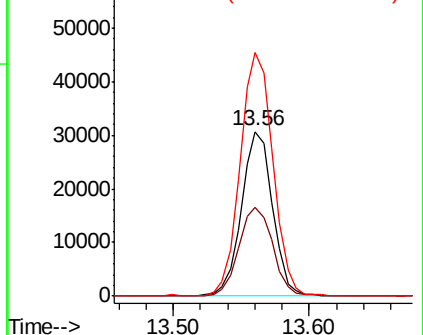
150 155.3 0.0 347.0

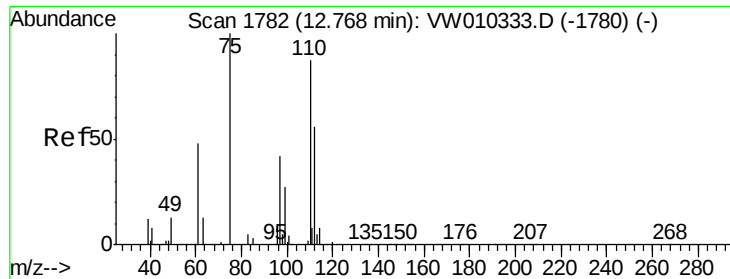


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



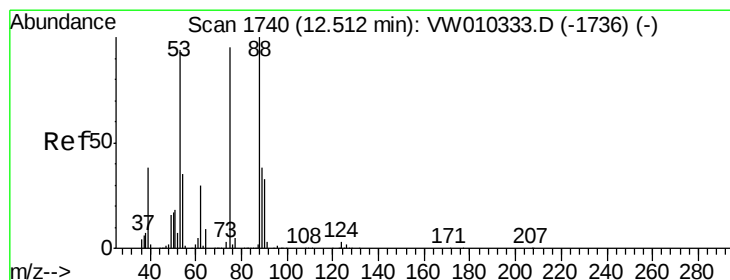
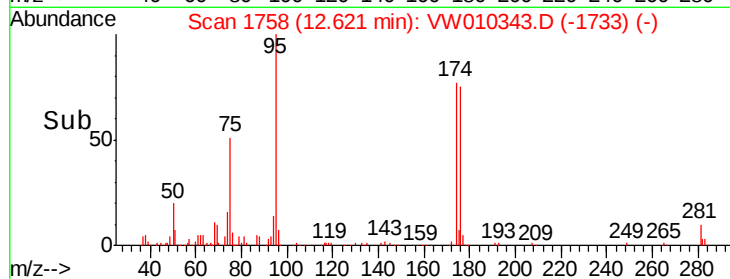
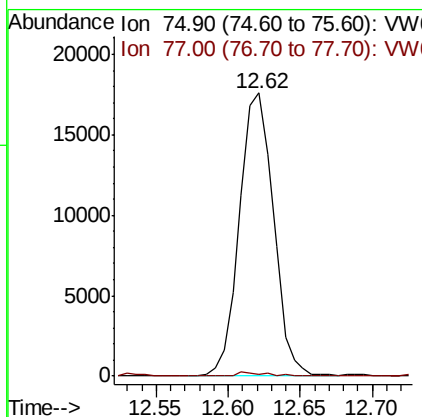
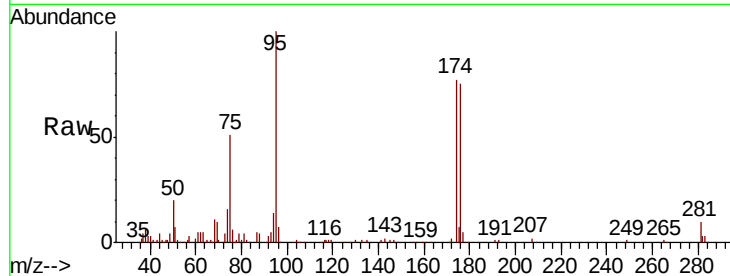


#76

1,2,3-Trichloropropane
Concen: 50.580 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW010343.D
Acq: 09 May 2019 18:17

Instrument :
MSVOA_W
ClientSampleId :

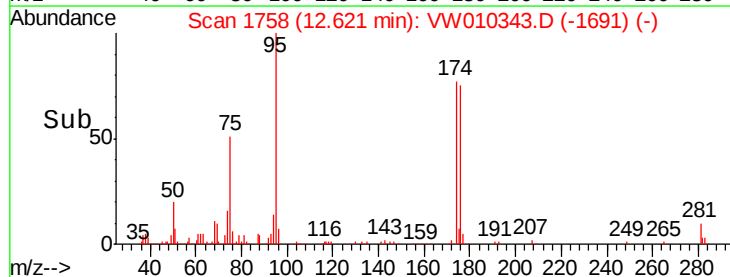
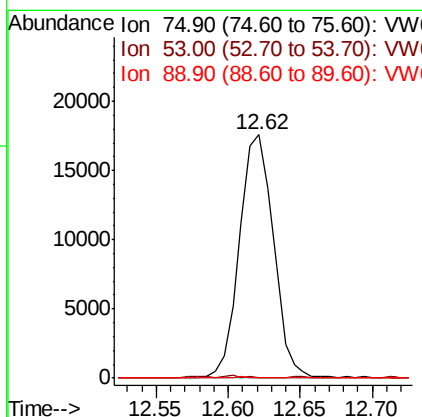
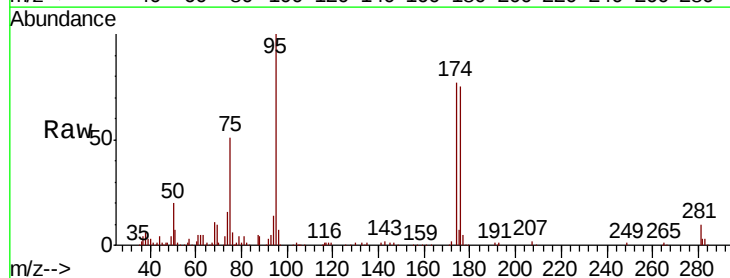
Tot Ion: 75 Resp: 28936
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#

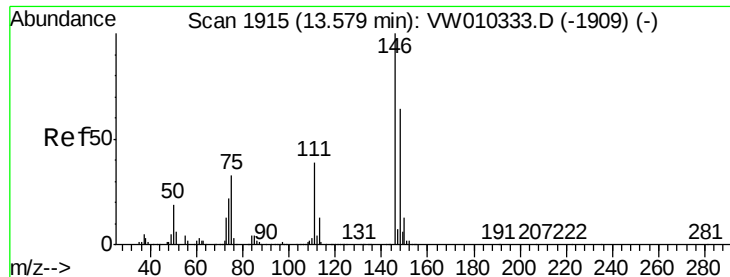


#81

trans-1,4-Dichloro-2-butene
Concen: 114.226 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW010343.D
Acq: 09 May 2019 18:17

Tgt Ion: 75 Resp: 28936
Ion Ratio Lower Upper
75 100
53 0.7 89.8 134.8#
89 0.2 36.6 54.8#





#88

1,4-Dichlorobenzene

Concen: 1.009 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

Instrument :

MSVOA_W

ClientSampleId :

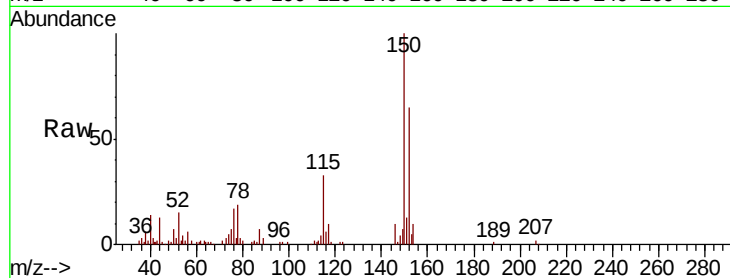
Tot Ion:146 Resp: 1614

Ion Ratio Lower Upper

146 100

111 82.5 20.1 60.3#

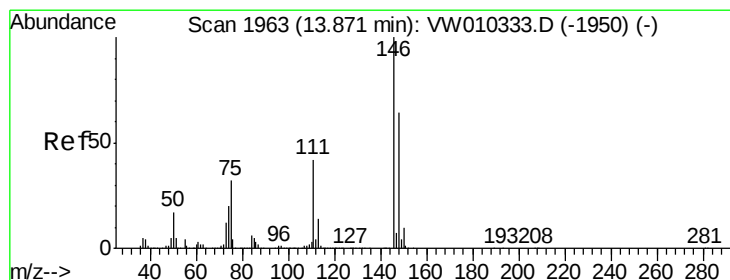
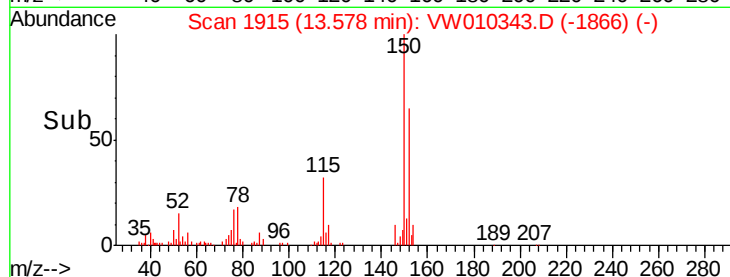
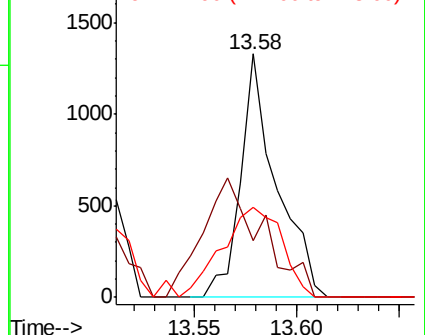
148 61.8 31.8 95.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 1.032 ug/l

RT: 13.87 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

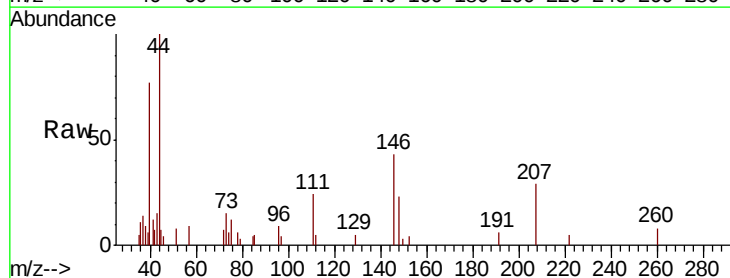
Tgt Ion:146 Resp: 1473

Ion Ratio Lower Upper

146 100

111 49.9 20.9 62.8

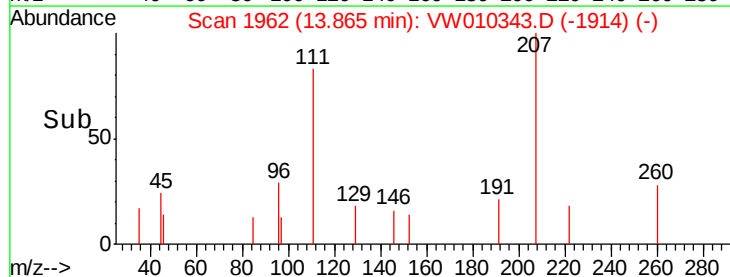
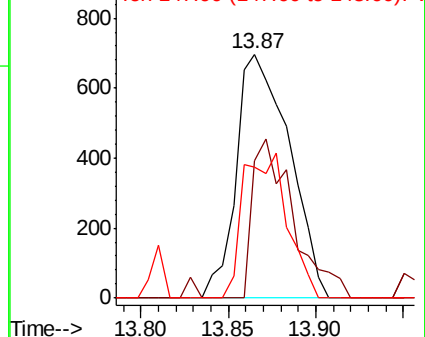
148 49.6 31.9 95.7

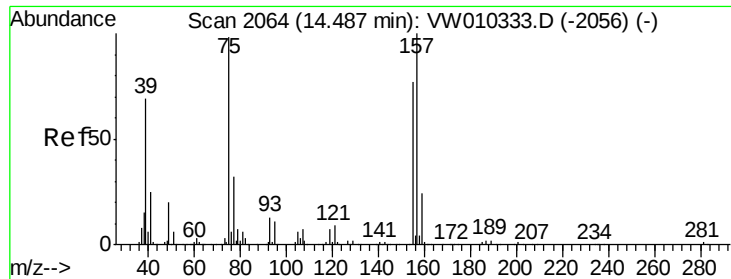


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.135 ug/l

RT: 14.50 min Scan# 2066

Delta R.T. 0.01 min

Lab File: VW010343.D

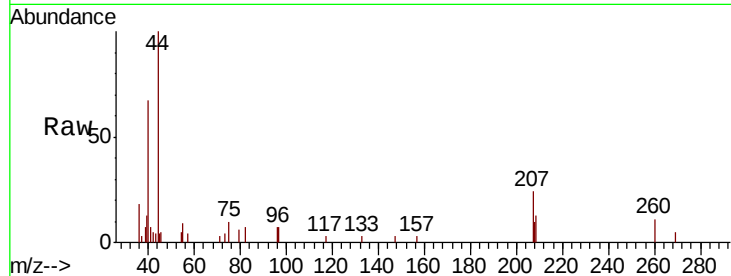
Acq: 09 May 2019 18:17

Instrument :

MSVOA_W

ClientSampled :

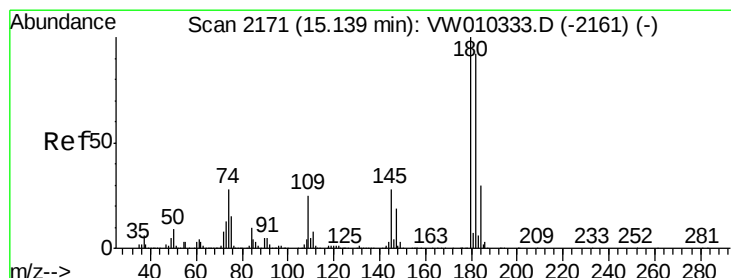
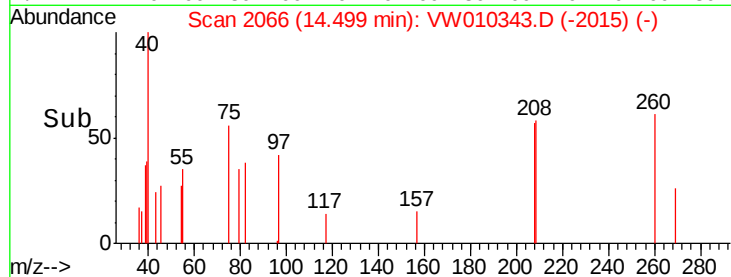
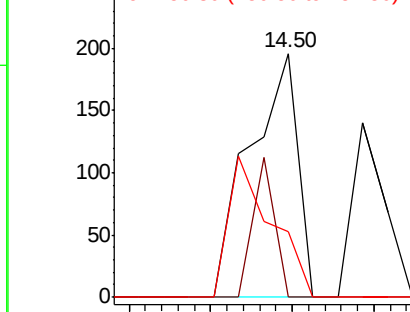
Tot Ion	Ratio	Lower	Upper
75	100		
155	25.5	37.1	111.5#
157	51.6	47.3	141.9



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: 1.250 ug/l

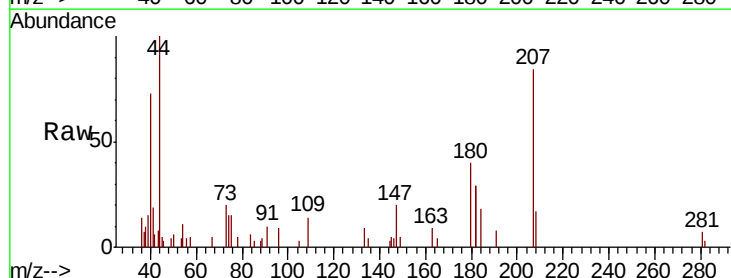
RT: 15.14 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

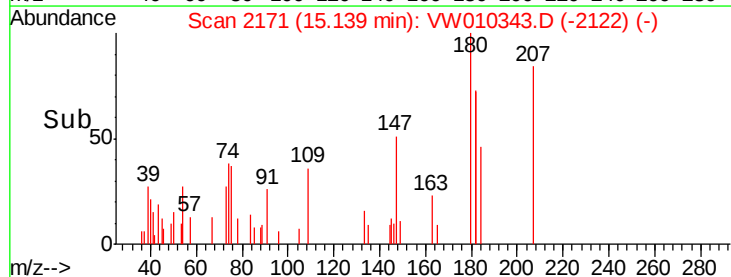
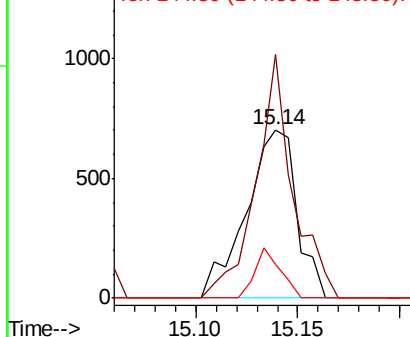
Tgt Ion	Ratio	Lower	Upper
180	100		
182	105.5	47.1	141.4
145	15.0	15.2	45.6#

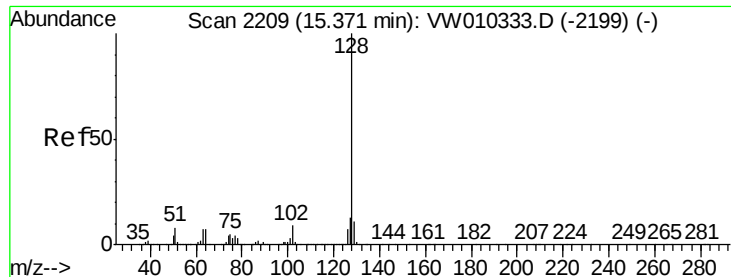


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.647 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

Instrument :

MSVOA_W

ClientSampleId :

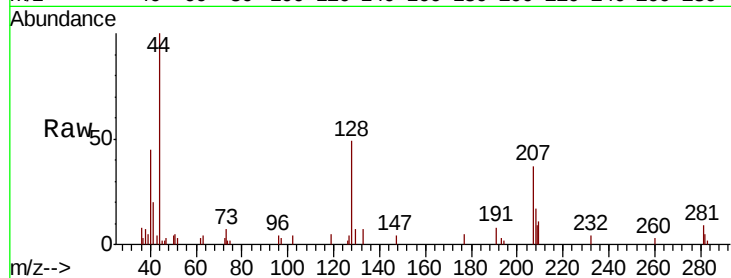
Tot Ion:128 Resp: 2525

Ion Ratio Lower Upper

128 100

127 18.4 10.6 15.8#

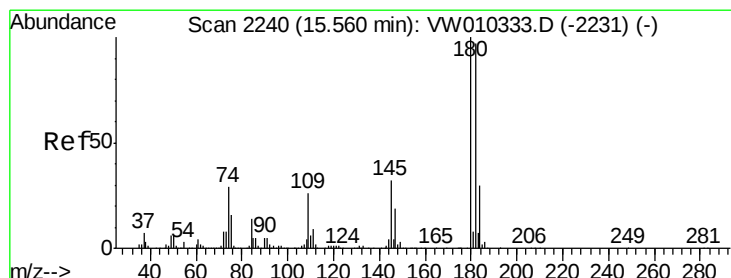
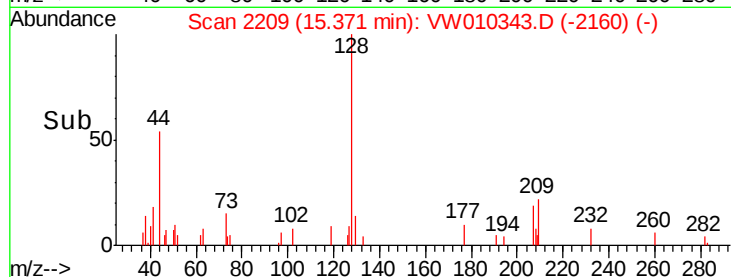
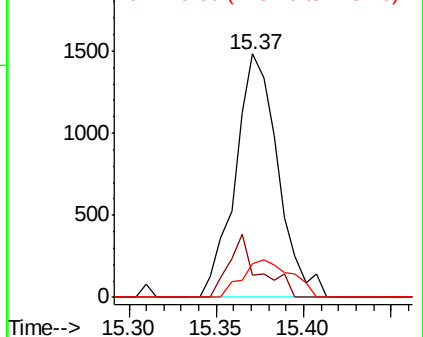
129 17.6 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 1.046 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW010343.D

Acq: 09 May 2019 18:17

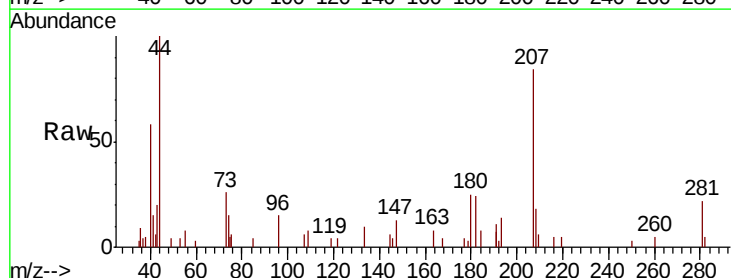
Tgt Ion:180 Resp: 921

Ion Ratio Lower Upper

180 100

182 102.1 47.8 143.3

145 25.2 16.4 49.2



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

