

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090418\
 Data File : VW005117.D
 Acq On : 05 Sep 2018 08:57
 Operator : SY/AP
 Sample : J4712-09
 Misc : 6.27G/5ML/MSVOA W/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 05 10:43:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090118S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 01 03:35:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	603793	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	934401	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	801539	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	286261	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	172055	34.38	ug/l	0.00
Spiked Amount			Recovery	=	68.76%	
35) Dibromofluoromethane	7.89	113	165260	30.61	ug/l	0.00
Spiked Amount			Recovery	=	61.22%	
50) Toluene-d8	10.33	98	644364	25.90	ug/l	0.00
Spiked Amount			Recovery	=	51.80%	
62) 4-Bromofluorobenzene	12.62	95	196580	22.41	ug/l	0.00
Spiked Amount			Recovery	=	44.82%	

Target Compounds

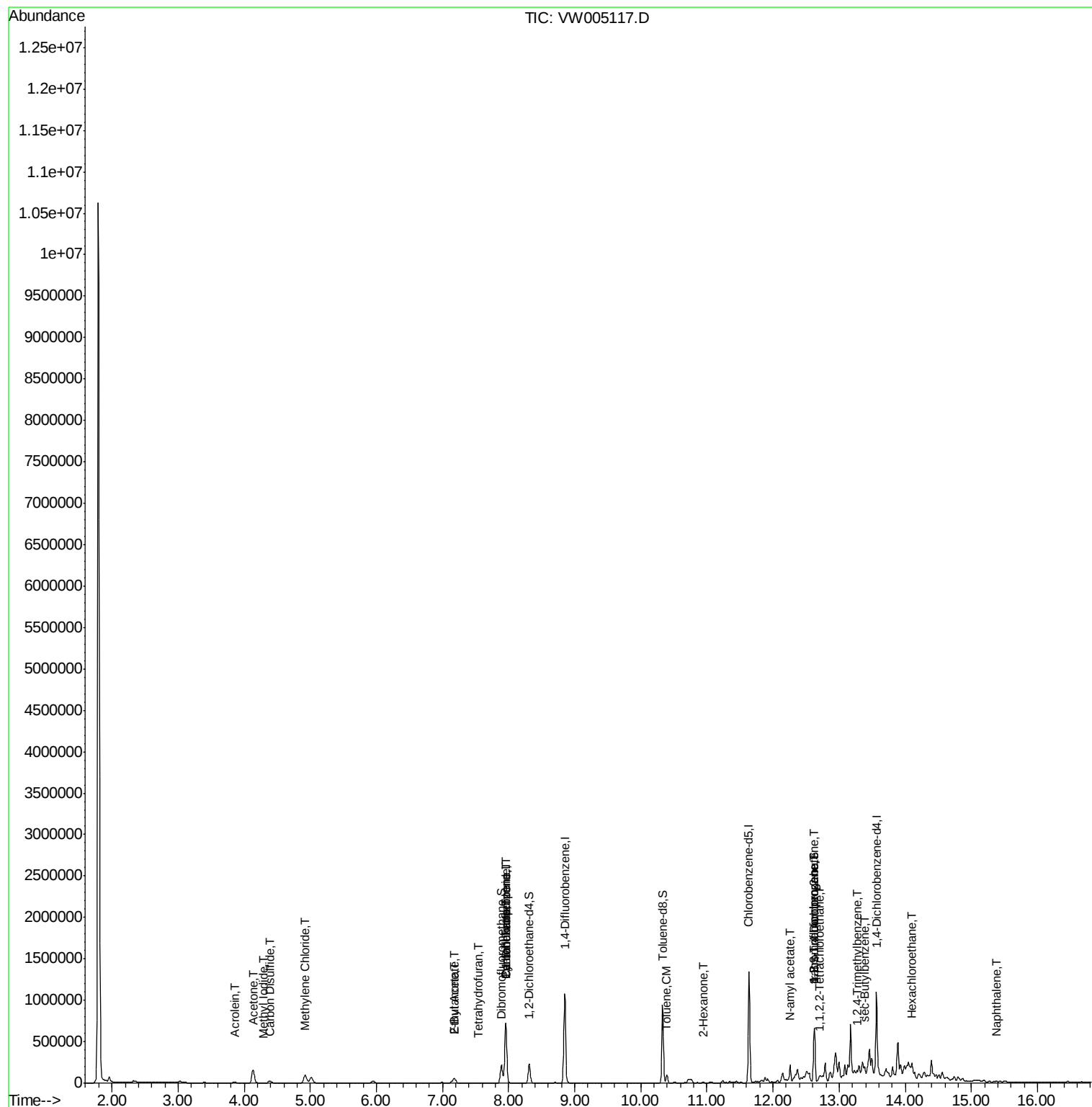
					Qvalue
5) Bromomethane	2.78	94	515	Below Cal	# 73
10) Methyl Iodide	4.29	142	289	3.852 ug/l	# 44
11) Tert butyl alcohol	5.20	59	480	Below Cal	# 72
13) Acrolein	3.86	56	399	1.228 ug/l	# 1
16) Acetone	4.14	43	279154	278.103 ug/l	96
17) Carbon Disulfide	4.39	76	52970	3.114 ug/l	99
20) Methylene Chloride	4.92	84	75225	7.809 ug/l	94
25) 2-Butanone	7.18	43	87363	50.179 ug/l	99
29) Tetrahydrofuran	7.54	42	1182	1.329 ug/l	# 67
31) Cyclohexane	7.95	56	11368	1.156 ug/l	# 1
36) 1,1-Dichloropropene	7.95	75	41836	4.701 ug/l	# 47
37) Ethyl Acetate	7.18	43	87363	26.250 ug/l	# 66
38) Carbon Tetrachloride	7.96	117	54303	6.417 ug/l	# 16
52) Toluene	10.39	92	41187	2.231 ug/l	98
59) 2-Hexanone	10.95	43	4970	1.810 ug/l	# 24
74) N-amyl acetate	12.26	43	40736	11.721 ug/l	# 69
75) 1,1,2,2-Tetrachloroethane	12.70	83	4654	1.515 ug/l	# 86
76) 1,2,3-Trichloropropane	12.62	75	91125	42.409 ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.62	75	91125	102.073 ug/l	# 14
84) 1,2,4-Trimethylbenzene	13.26	105	19851	1.117 ug/l	100
85) sec-Butylbenzene	13.39	105	25027	1.168 ug/l	# 61
90) Hexachloroethane	14.11	117	5143	1.633 ug/l	# 5
95) Naphthalene	15.38	128	13405	5.175 ug/l	# 95

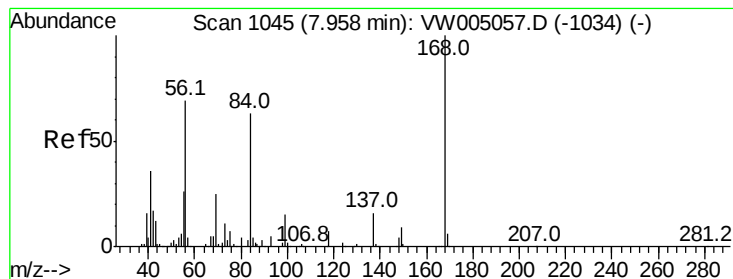
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Sep 01 03:35:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. 0.00 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :

MSVOA_W

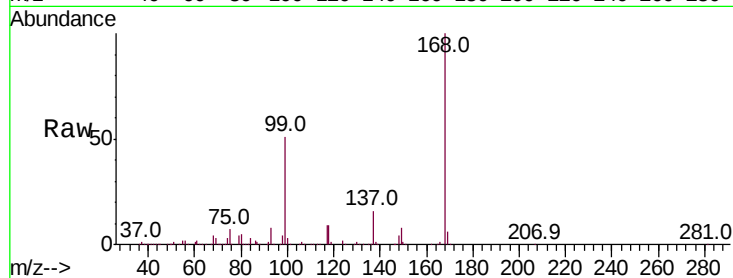
ClientSampled :

Tot Ion:168 Resp: 603793

Ion Ratio Lower Upper

168 100

99 50.8 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

250000

200000

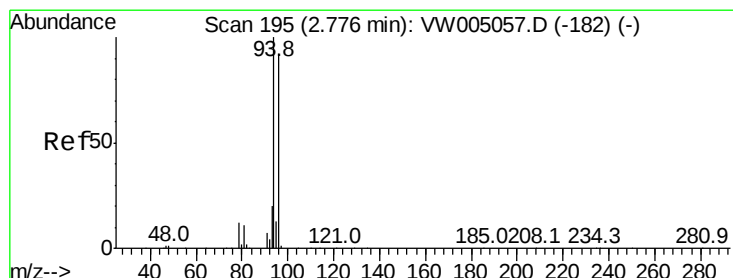
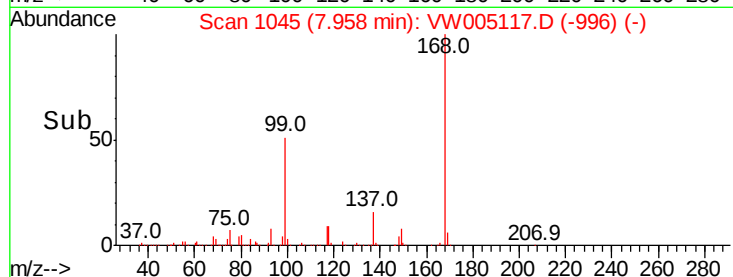
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 195

Delta R.T. 0.00 min

Lab File: VW005117.D

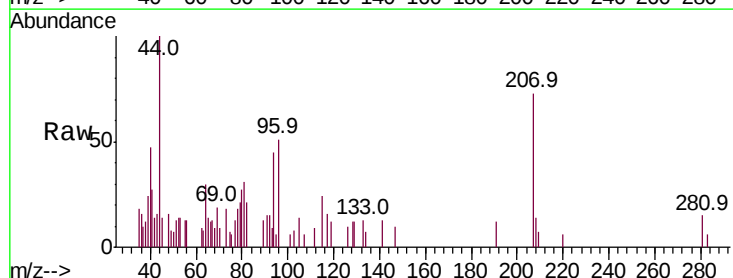
Acq: 05 Sep 2018 08:57

Tgt Ion: 94 Resp: 515

Ion Ratio Lower Upper

94 100

96 116.9 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

500

400

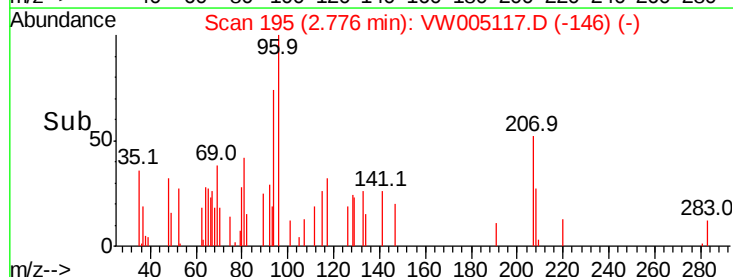
300

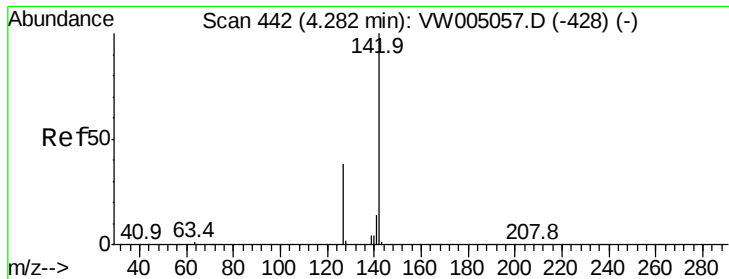
200

100

0

Time-->





#10

Methvl Iodide

Concen: 3.852 ug/l

RT: 4.29 min Scan# 443

Delta R.T. 0.01 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :

MSVOA_W

ClientSampled :

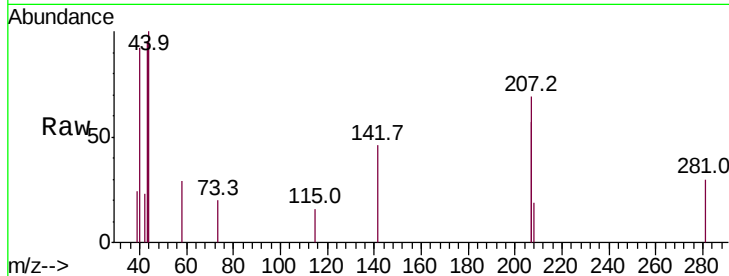
Tot Ion:142 Resp: 289

Ion Ratio Lower Upper

142 100

127 0.0 30.8 46.2#

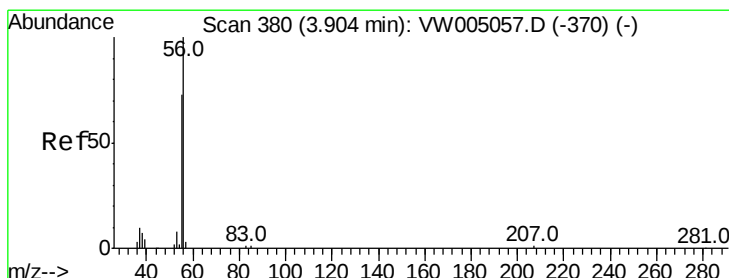
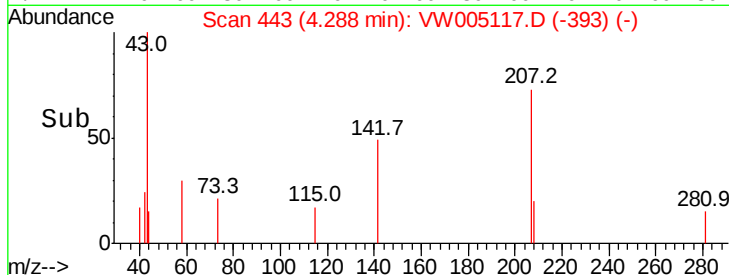
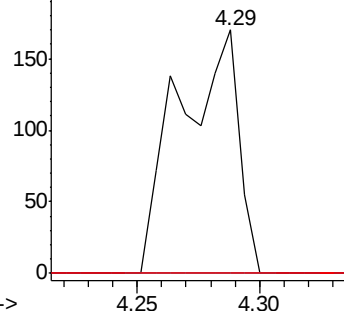
141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#13

Acrolein

Concen: 1.228 ug/l

RT: 3.86 min Scan# 372

Delta R.T. -0.05 min

Lab File: VW005117.D

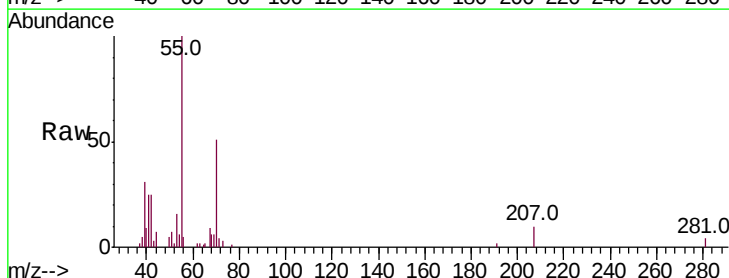
Acq: 05 Sep 2018 08:57

Tgt Ion: 56 Resp: 399

Ion Ratio Lower Upper

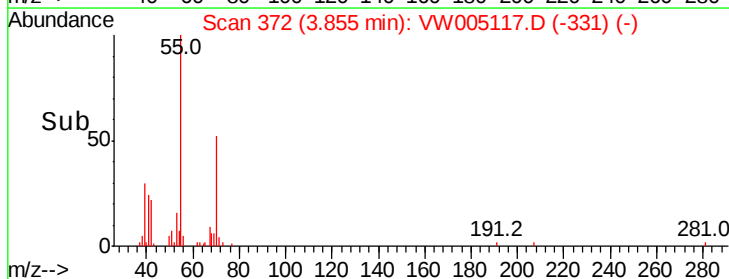
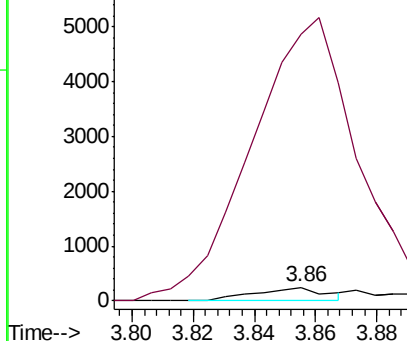
56 100

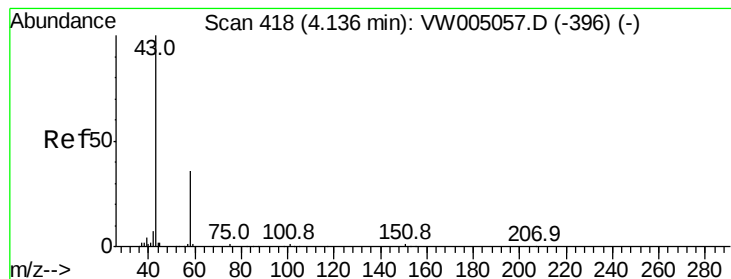
55 3201.5 58.1 87.1#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW





#16

Acetone

Concen: 278.103 ug/l

RT: 4.14 min Scan# 418

Delta R.T. 0.00 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :

MSVOA_W

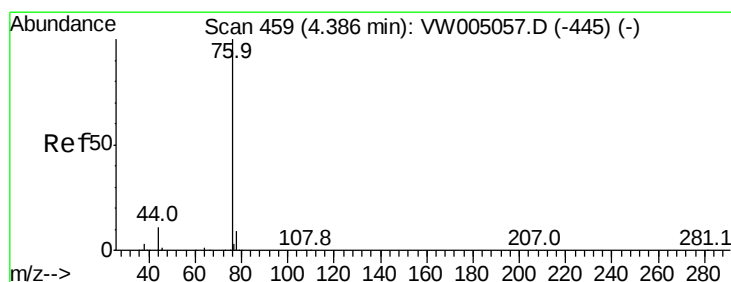
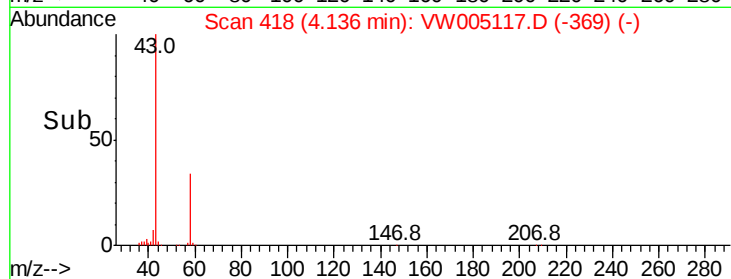
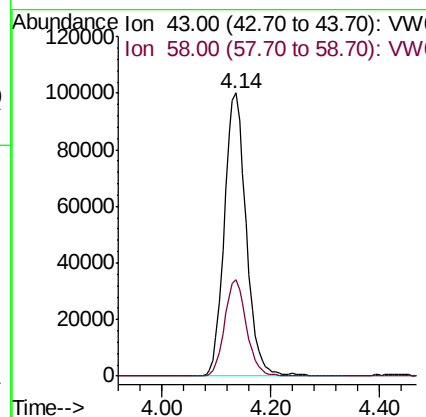
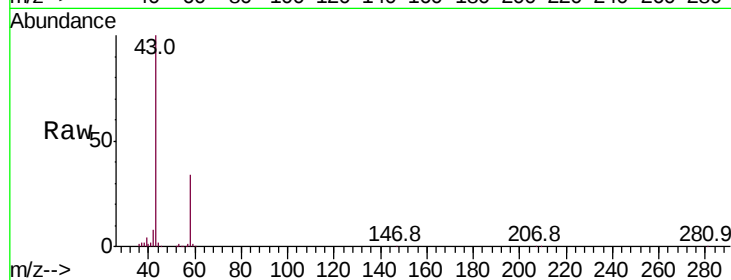
ClientSampled :

Tot Ion: 43 Resp: 279154

Ion Ratio Lower Upper

43 100

58 33.9 29.0 43.6



#17

Carbon Disulfide

Concen: 3.114 ug/l

RT: 4.39 min Scan# 459

Delta R.T. 0.00 min

Lab File: VW005117.D

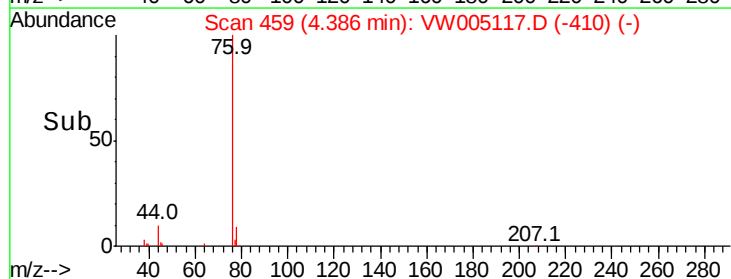
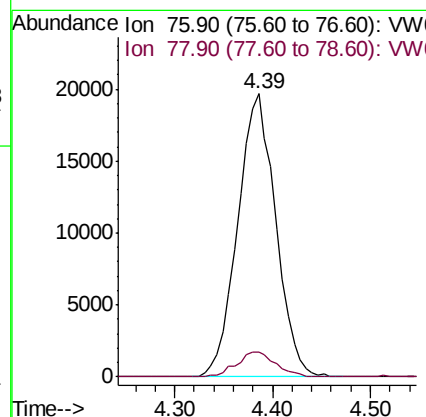
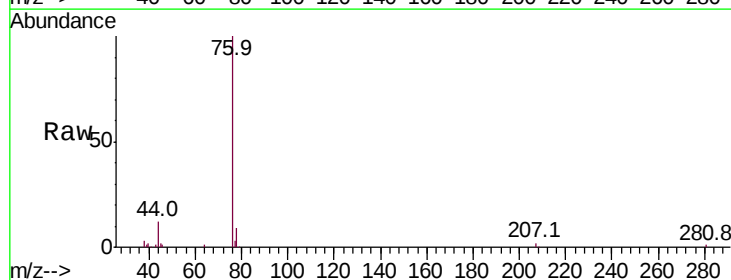
Acq: 05 Sep 2018 08:57

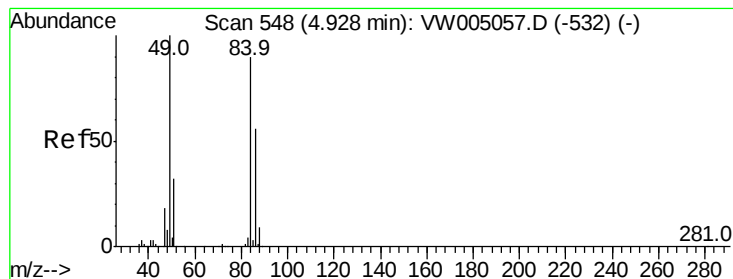
Tgt Ion: 76 Resp: 52970

Ion Ratio Lower Upper

76 100

78 8.6 7.3 10.9





#20

Methvlene Chloride

Concen: 7.809 ug/l

RT: 4.92 min Scan# 547

Delta R.T. -0.01 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 75225

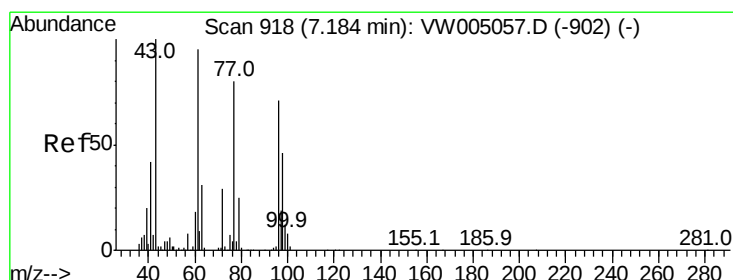
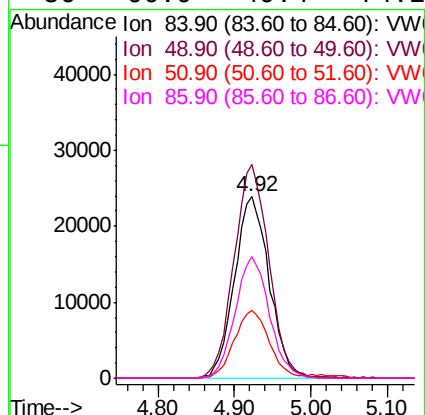
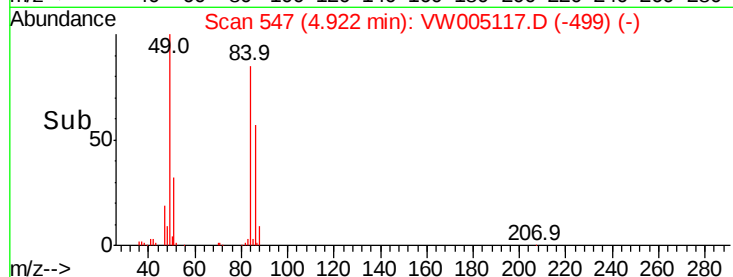
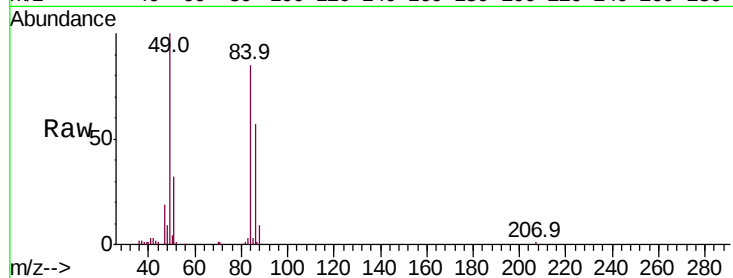
Ion Ratio Lower Upper

84 100

49 117.6 88.7 133.1

51 37.3 28.6 42.8

86 66.9 49.4 74.2



#25

2-Butanone

Concen: 50.179 ug/l

RT: 7.18 min Scan# 917

Delta R.T. -0.01 min

Lab File: VW005117.D

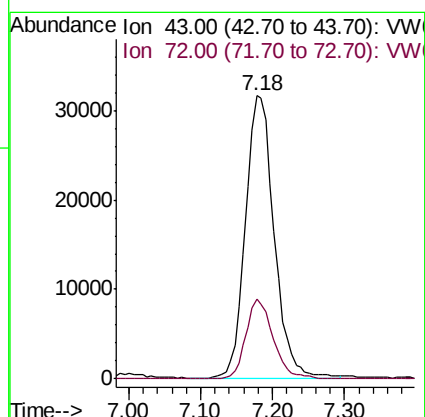
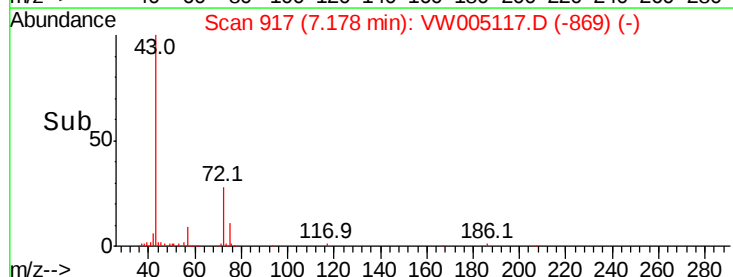
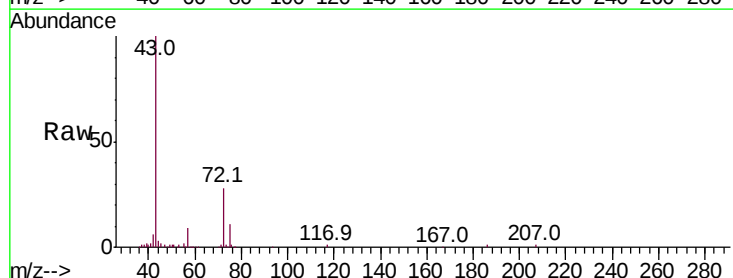
Acq: 05 Sep 2018 08:57

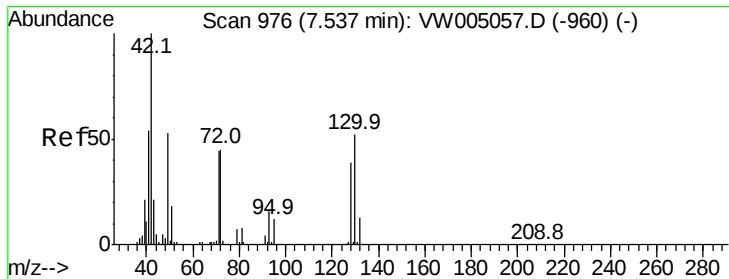
Tgt Ion: 43 Resp: 87363

Ion Ratio Lower Upper

43 100

72 28.2 23.1 34.7

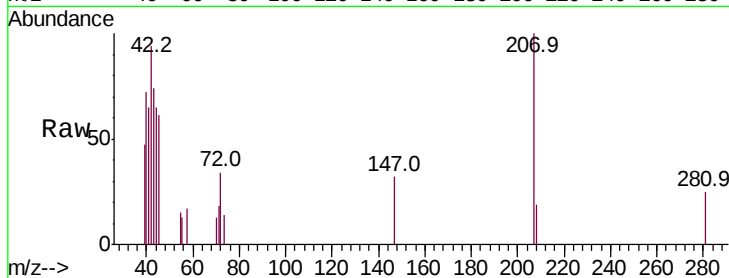




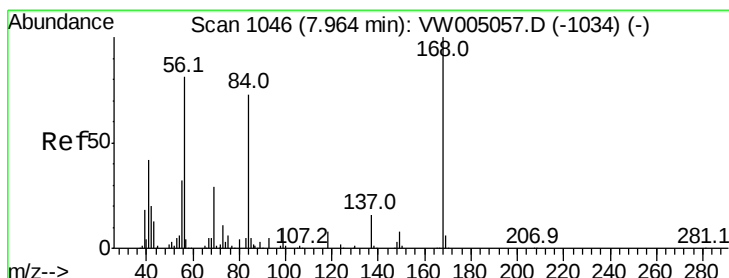
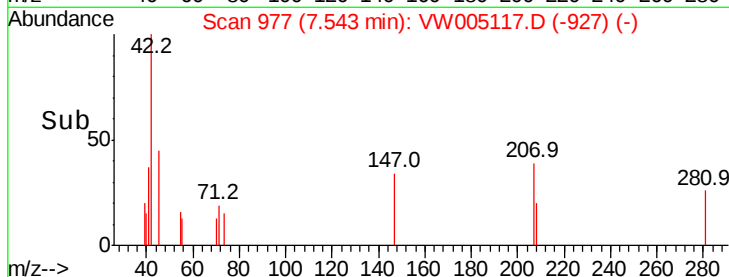
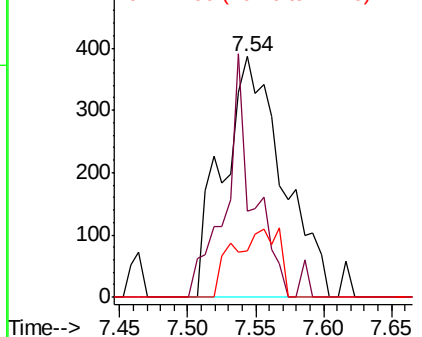
#29
Tetrahydrofuran
Concen: 1.329 ug/l
RT: 7.54 min Scan# 977
Delta R.T. 0.01 min
Lab File: VW005117.D
Acq: 05 Sep 2018 08:57

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 42 Resp: 1182
Ion Ratio Lower Upper
42 100
72 45.7 37.0 55.4
71 0.0 35.0 52.6#

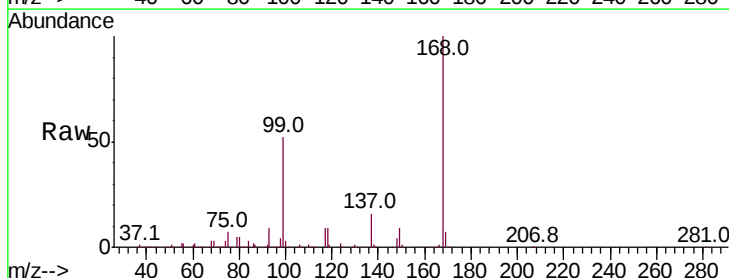


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

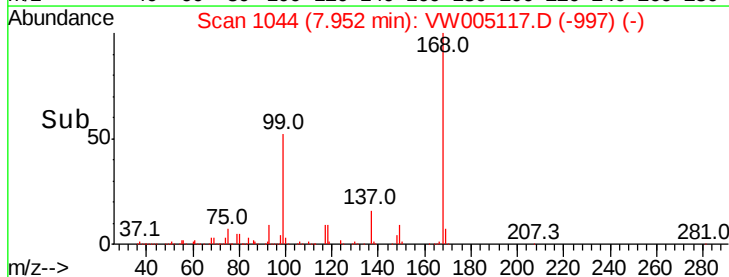
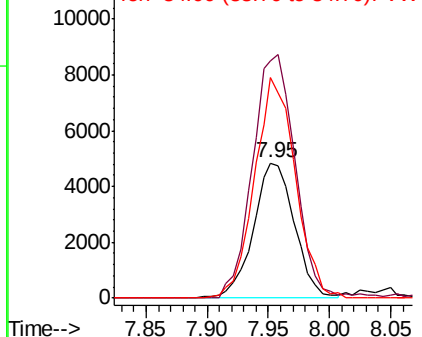


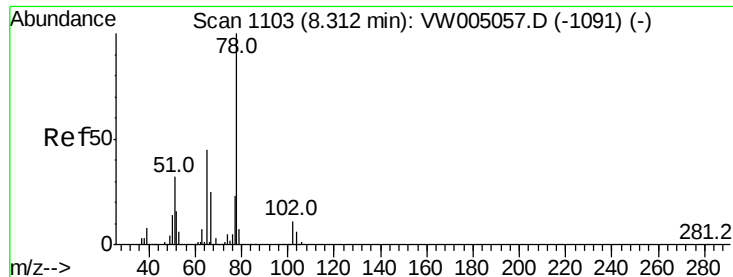
#31
Cyclohexane
Concen: 1.156 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VW005117.D
Acq: 05 Sep 2018 08:57

Tgt Ion: 56 Resp: 11368
Ion Ratio Lower Upper
56 100
69 175.7 28.2 42.2#
84 163.4 71.8 107.8#



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





#33

1,2-Dichloroethane-d4

Concen: 34.375 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

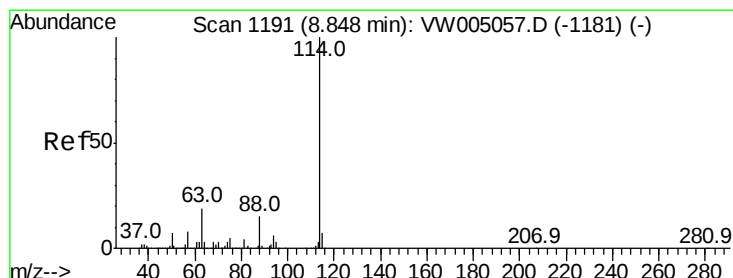
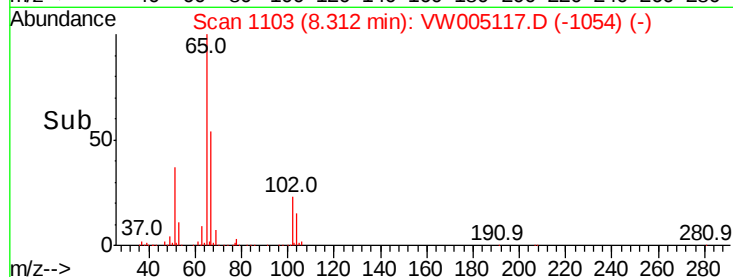
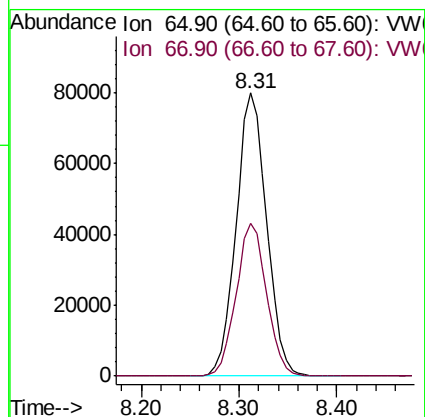
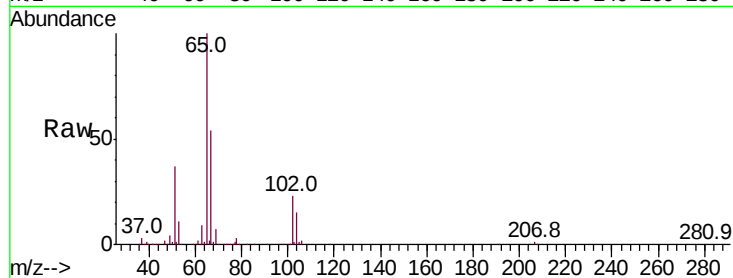
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 65 Resp: 172055

Ion Ratio Lower Upper

65 100

67 54.2 0.0 109.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

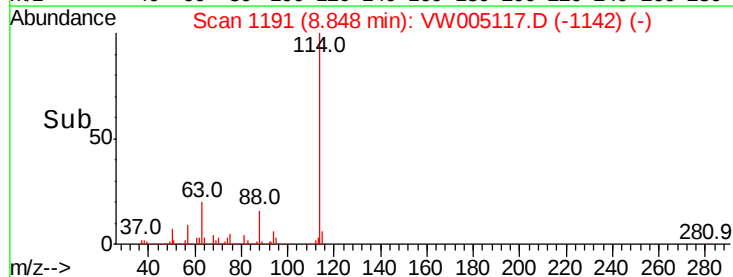
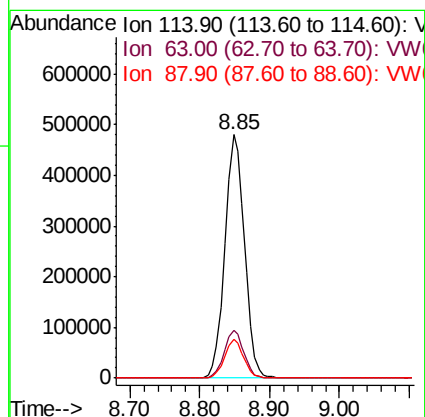
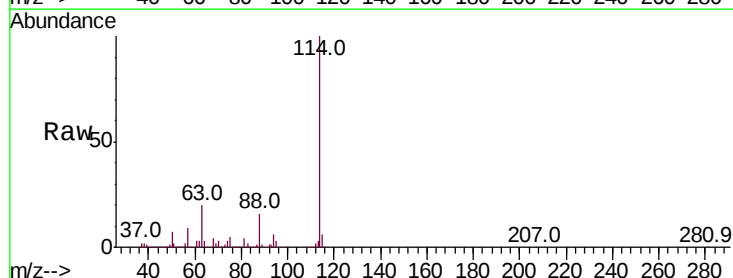
Tgt Ion: 114 Resp: 934401

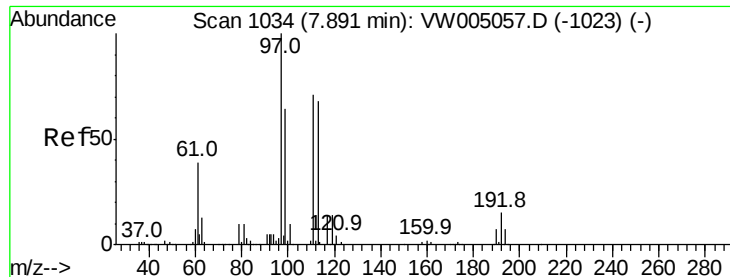
Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.0

88 15.8 0.0 30.2

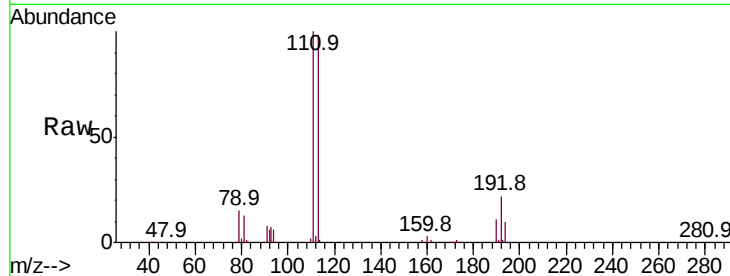




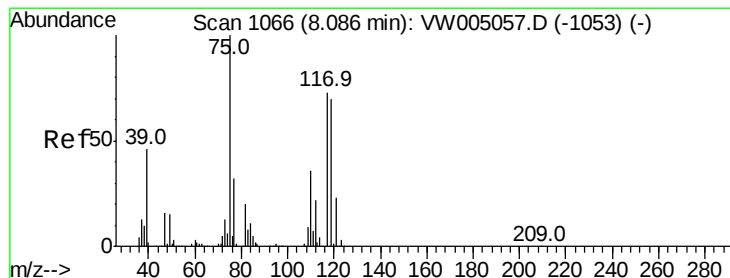
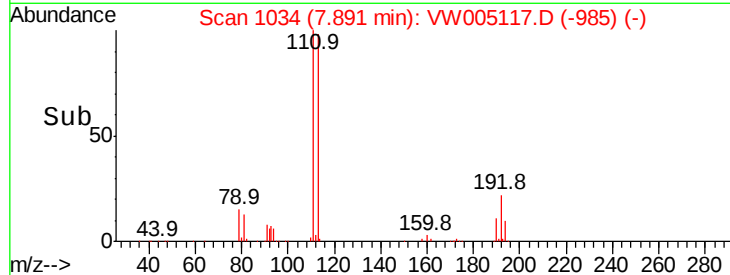
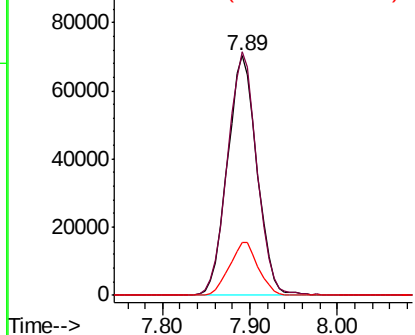
#35
 Dibromofluoromethane
 Concen: 30.605 ug/l
 RT: 7.89 min Scan# 1034
 Delta R.T. 0.00 min
 Lab File: VW005117.D
 Acq: 05 Sep 2018 08:57

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:113 Resp: 165260
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.2 123.2
 192 21.6 18.1 27.1

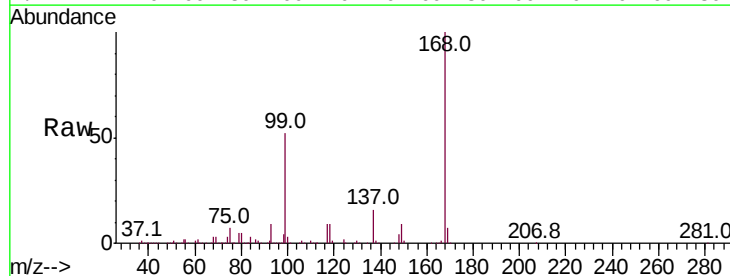


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

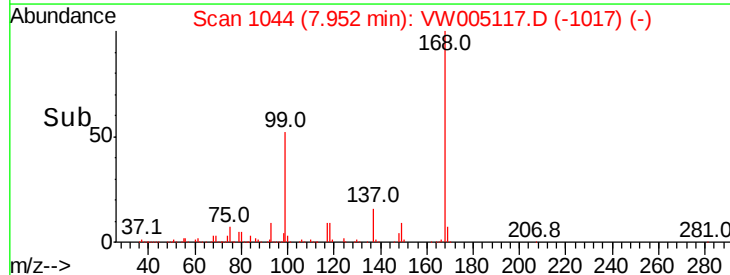
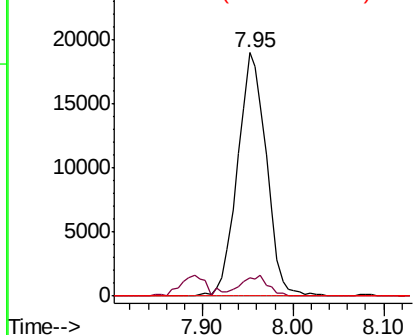


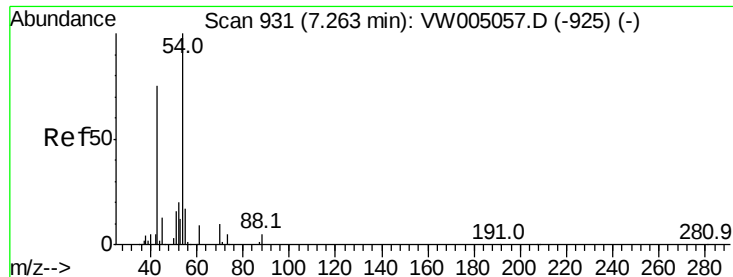
#36
 1,1-Dichloropropene
 Concen: 4.701 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.13 min
 Lab File: VW005117.D
 Acq: 05 Sep 2018 08:57

Tgt Ion: 75 Resp: 41836
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.9 56.7#
 77 0.0 25.5 38.3#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

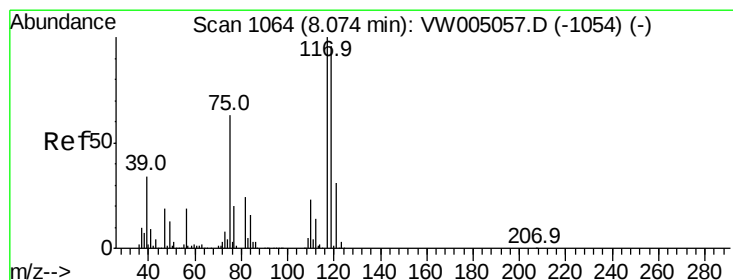
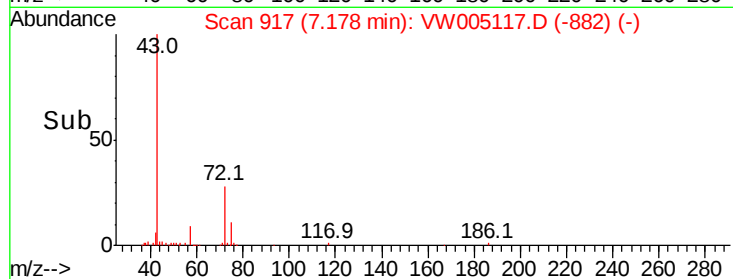
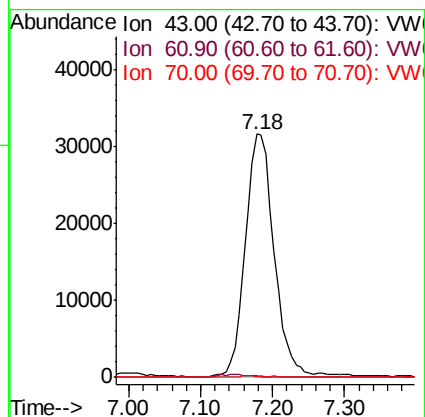
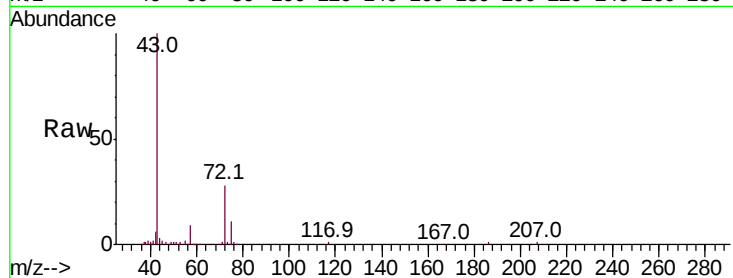




#37
Ethyl Acetate
Concen: 26.250 ug/l
RT: 7.18 min Scan# 917
Delta R.T. -0.09 min
Lab File: VW005117.D
Acq: 05 Sep 2018 08:57

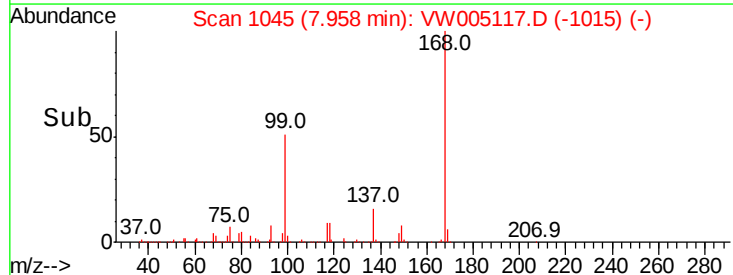
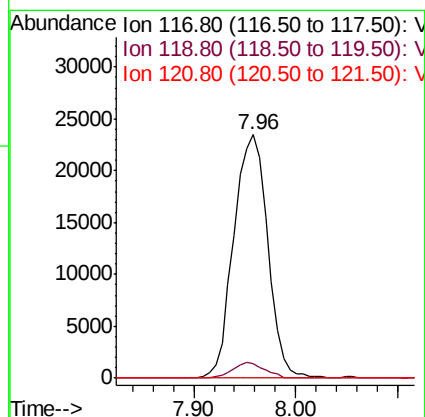
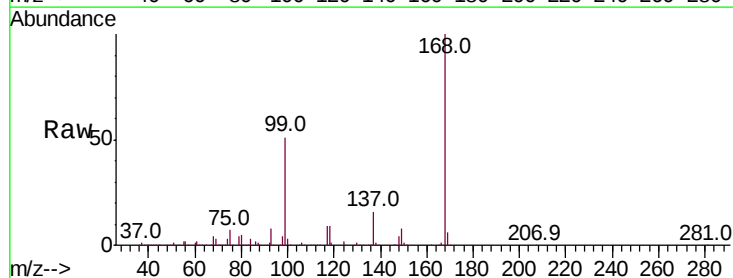
Instrument :
MSVOA_W
ClientSampleId :

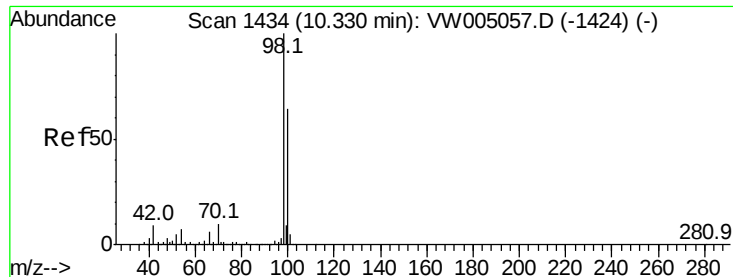
Tot Ion: 43 Resp: 87363
Ion Ratio Lower Upper
43 100
61 0.0 12.1 18.1#
70 0.0 9.4 14.2#



#38
Carbon Tetrachloride
Concen: 6.417 ug/l
RT: 7.96 min Scan# 1045
Delta R.T. -0.12 min
Lab File: VW005117.D
Acq: 05 Sep 2018 08:57

Tgt Ion: 117 Resp: 54303
Ion Ratio Lower Upper
117 100
119 5.7 76.6 115.0#
121 0.0 24.8 37.2#





#50

Toluene-d8

Concen: 25.898 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :

MSVOA_W

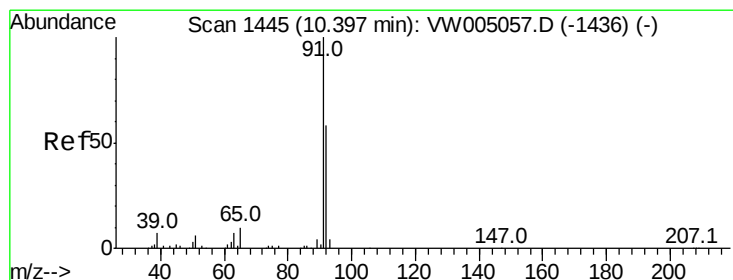
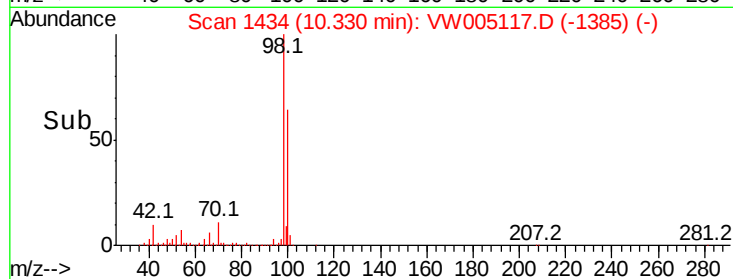
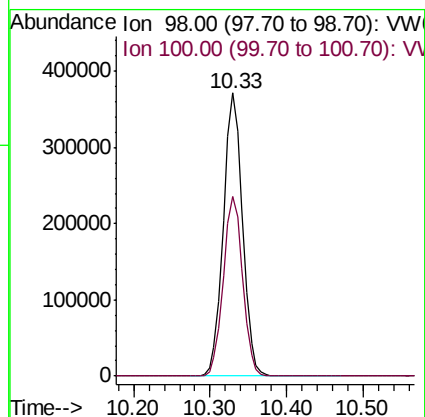
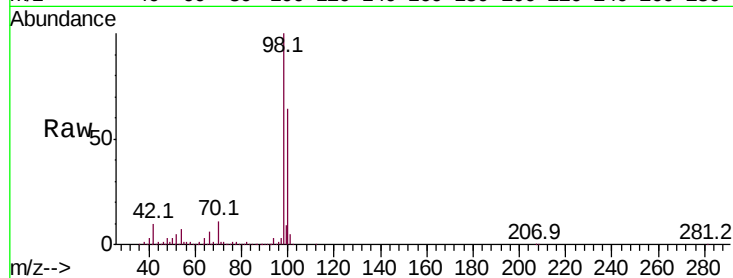
ClientSampled :

Tot Ion: 98 Resp: 644364

Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5



#52

Toluene

Concen: 2.231 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. -0.01 min

Lab File: VW005117.D

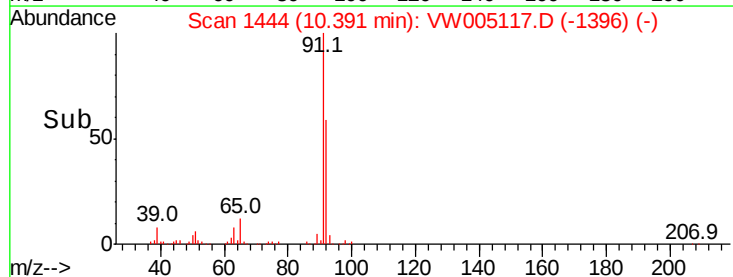
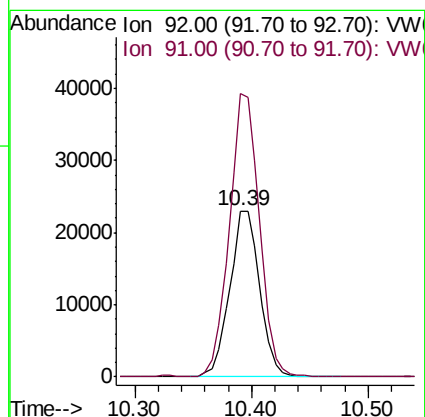
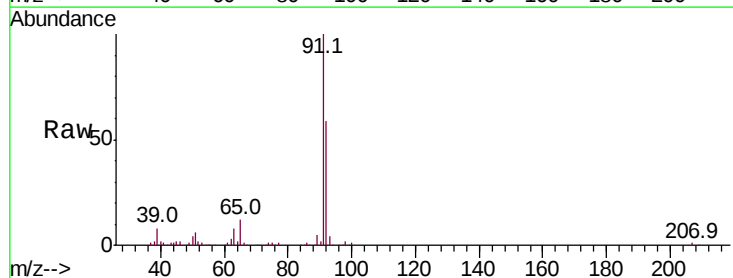
Acq: 05 Sep 2018 08:57

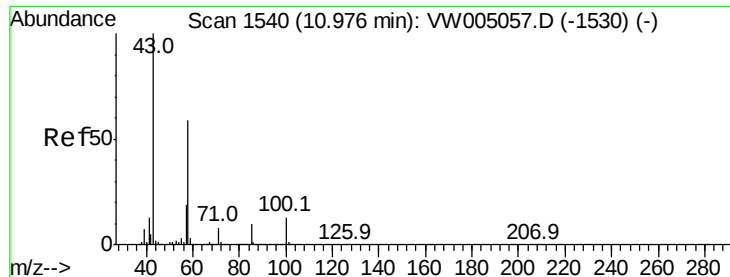
Tgt Ion: 92 Resp: 41187

Ion Ratio Lower Upper

92 100

91 170.8 139.2 208.8





#59

2-Hexanone

Concen: 1.810 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.03 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :

MSVOA_W

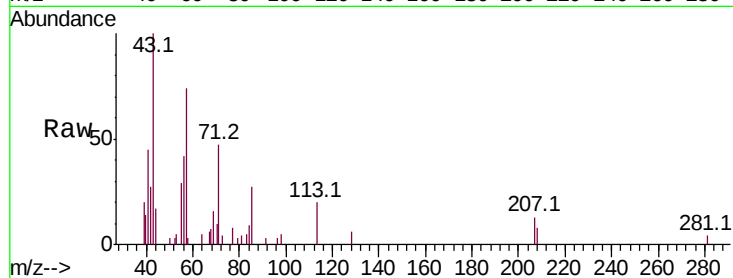
ClientSampleId :

Tot Ion: 43 Resp: 4970

Ion Ratio Lower Upper

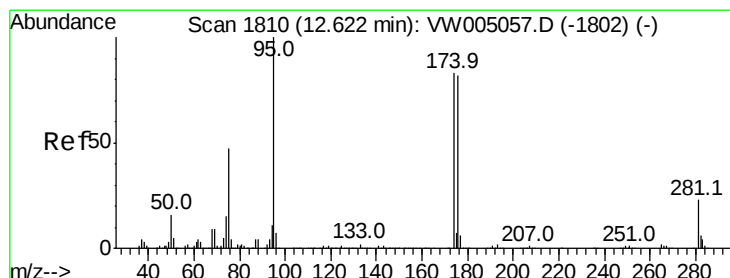
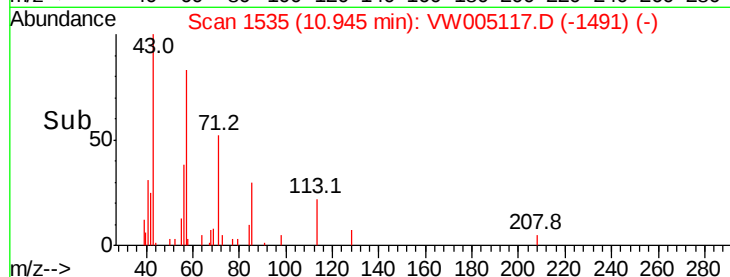
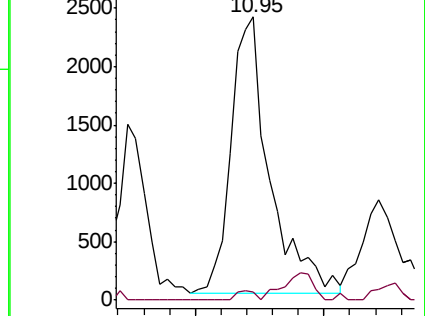
43 100

58 1.6 28.7 86.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 22.407 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

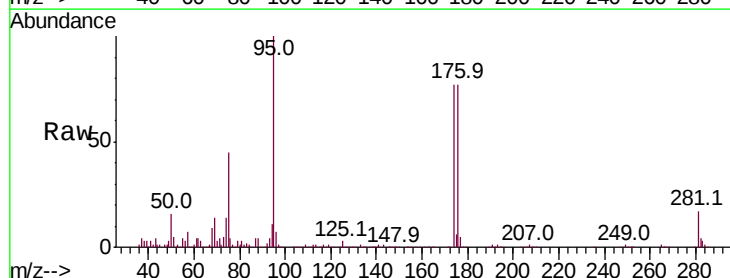
Tgt Ion: 95 Resp: 196580

Ion Ratio Lower Upper

95 100

174 84.3 0.0 173.4

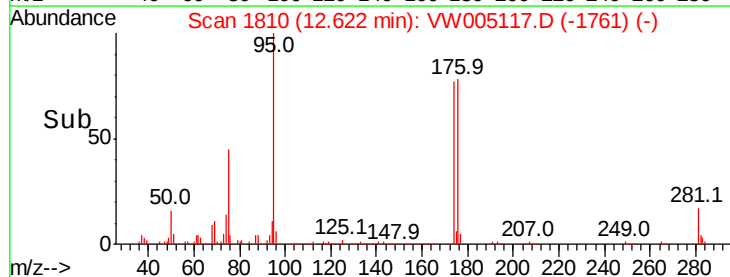
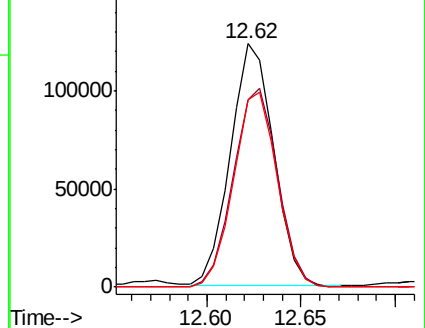
176 81.5 0.0 167.4

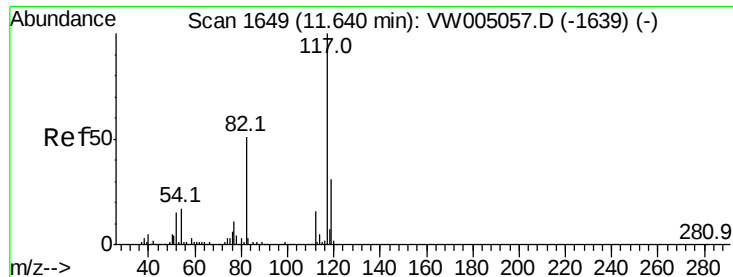


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

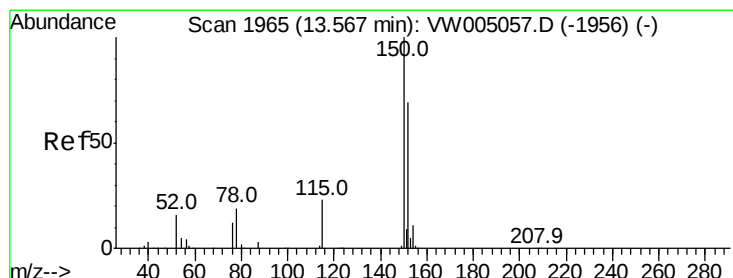
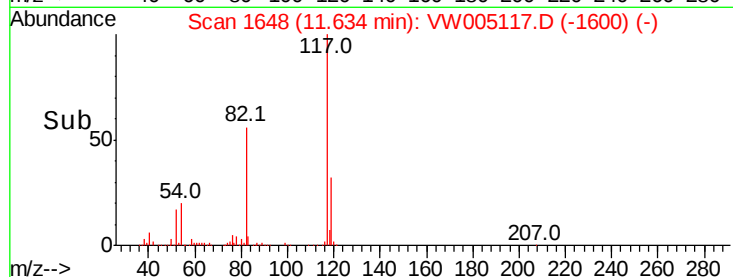
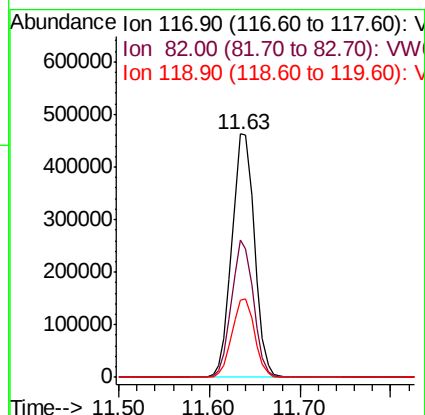
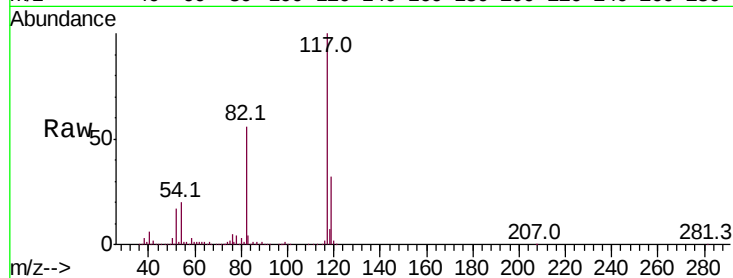




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.01 min
Lab File: VW005117.D
Acq: 05 Sep 2018 08:57

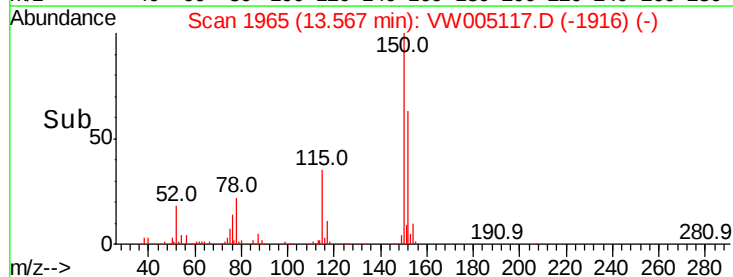
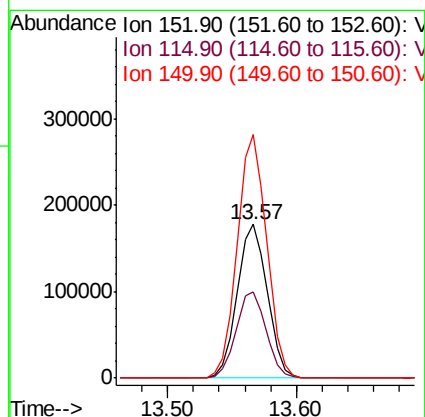
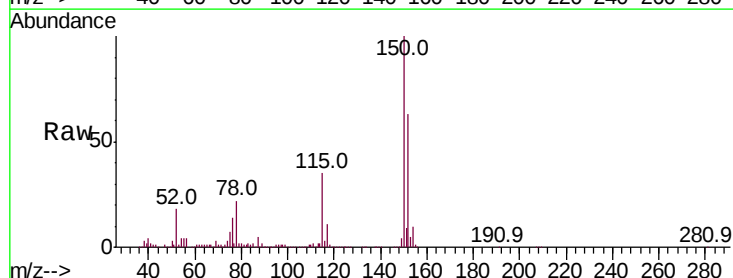
Instrument :
MSVOA_W
ClientSampleId :

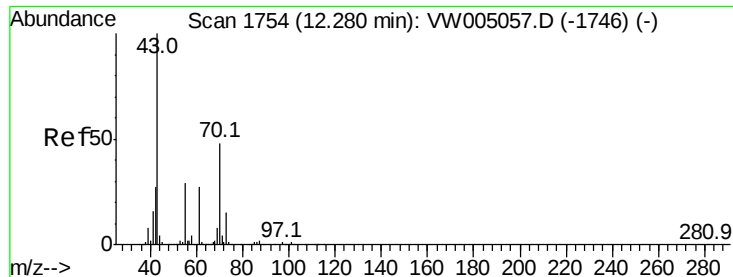
Tot Ion:117 Resp: 801539
Ion Ratio Lower Upper
117 100
82 56.3 40.9 61.3
119 32.0 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VW005117.D
Acq: 05 Sep 2018 08:57

Tgt Ion:152 Resp: 286261
Ion Ratio Lower Upper
152 100
115 56.4 27.8 83.4
150 155.6 0.0 351.4





#74

N-amvl acetate

Concen: 11.721 ug/l

RT: 12.26 min Scan# 1750

Delta R.T. -0.02 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 43 Resp: 40736

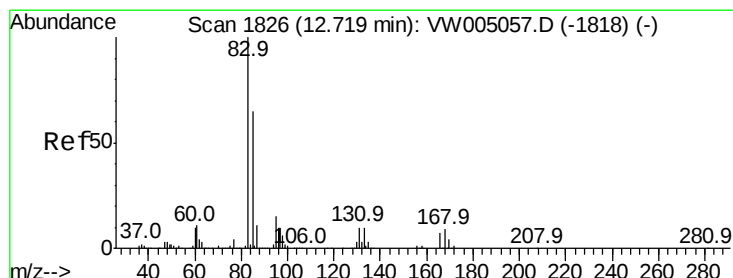
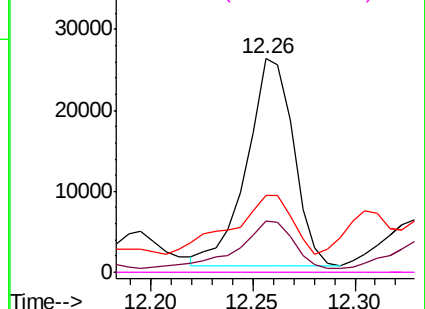
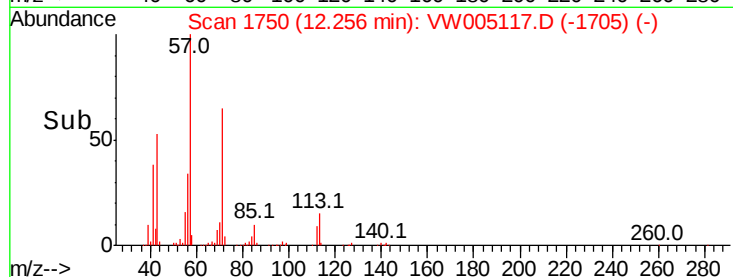
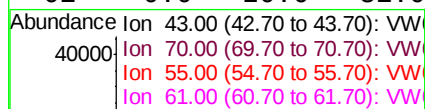
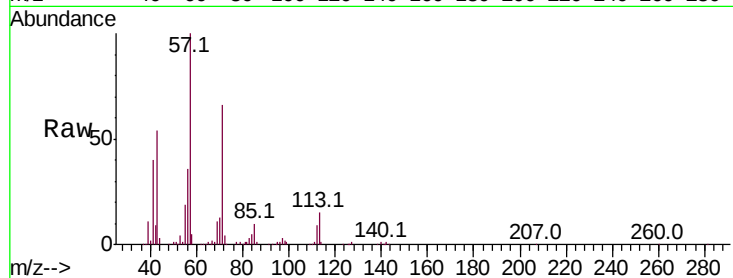
Ion Ratio Lower Upper

43 100

70 27.0 38.2 57.4#

55 35.9 23.2 34.8#

61 0.0 20.6 31.0#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.515 ug/l

RT: 12.70 min Scan# 1822

Delta R.T. -0.02 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

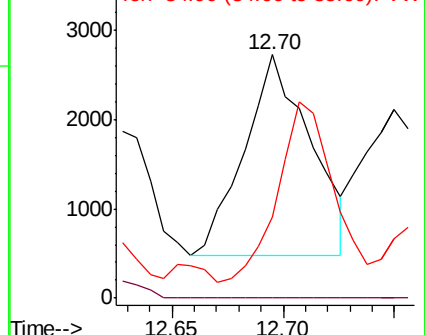
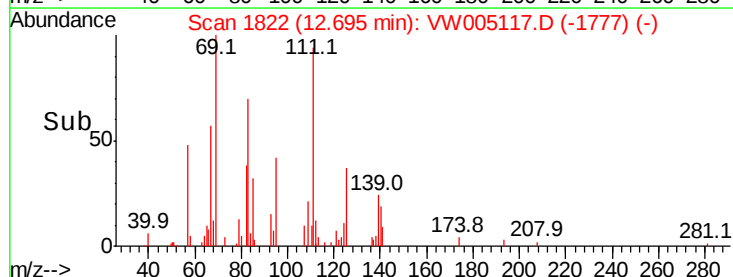
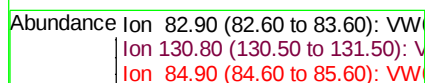
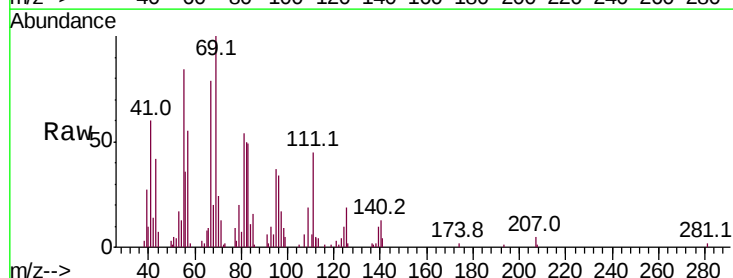
Tgt Ion: 83 Resp: 4654

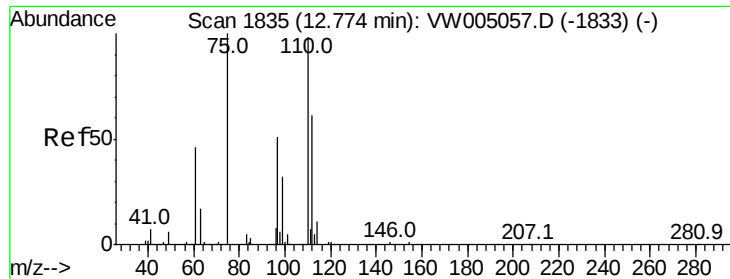
Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

85 74.4 32.5 97.4





#76

1,2,3-Trichloropropane

Concen: 42.409 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :

MSVOA_W

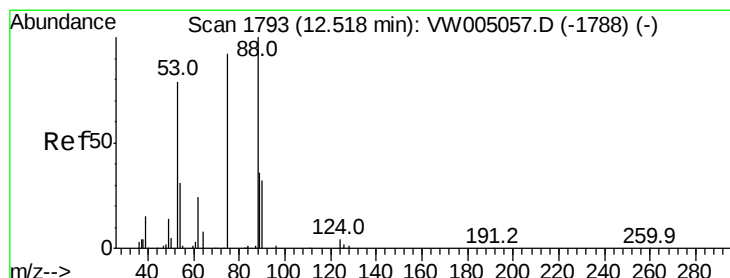
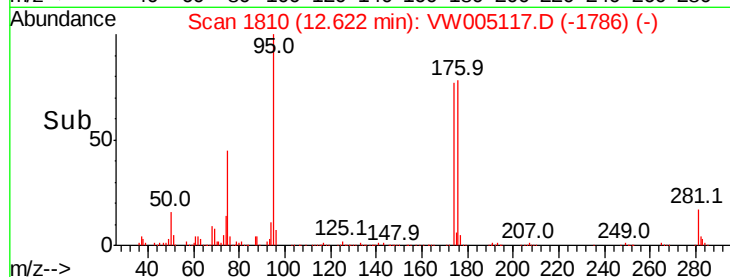
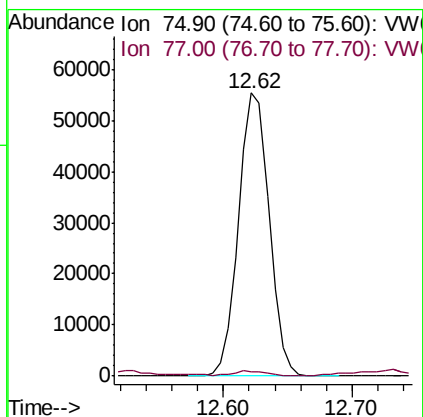
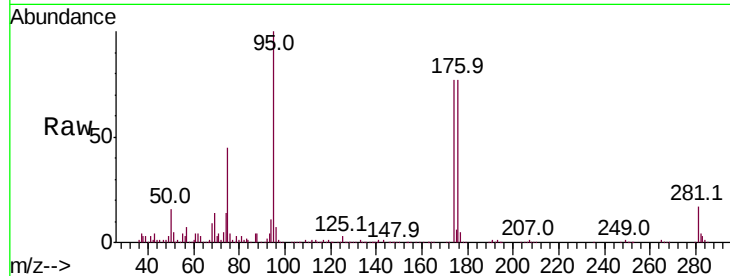
ClientSampled :

Tot Ion: 75 Resp: 91125

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 102.073 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

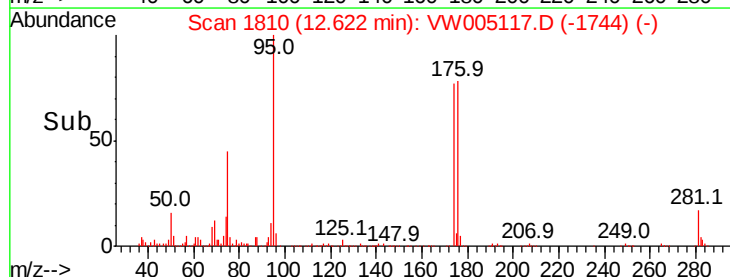
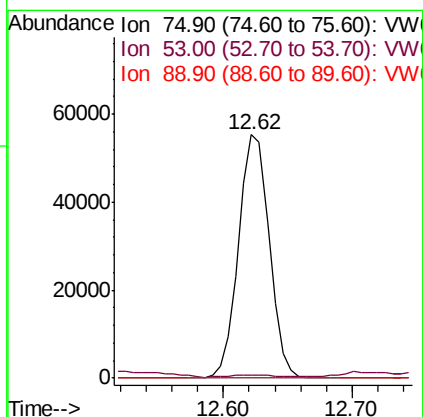
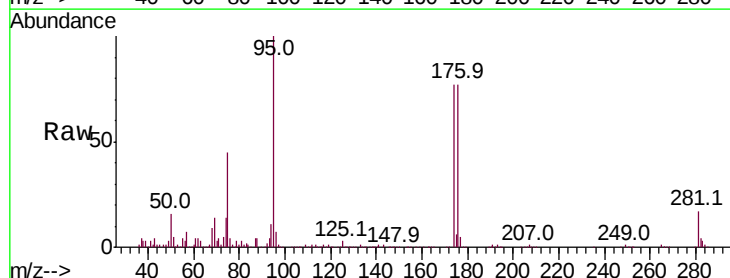
Tgt Ion: 75 Resp: 91125

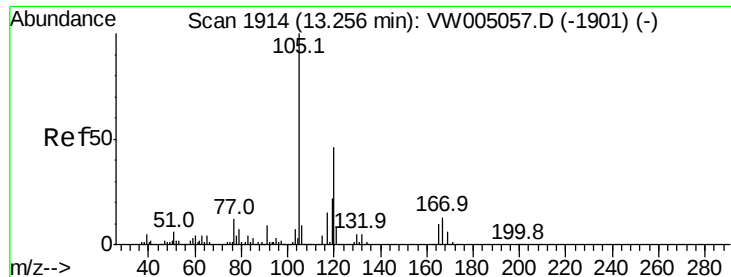
Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.8#

89 0.1 36.0 54.0#





#84

1,2,4-Trimethylbenzene

Concen: 1.117 ug/l

RT: 13.26 min Scan# 1915

Delta R.T. 0.01 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :

MSVOA_W

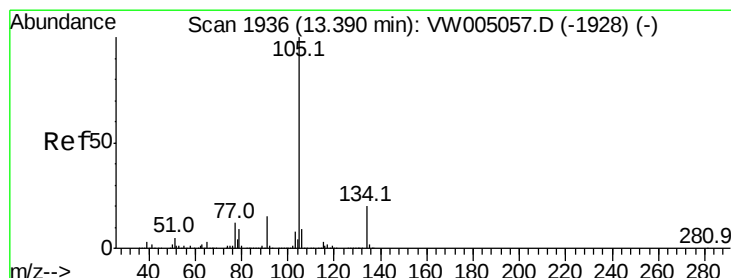
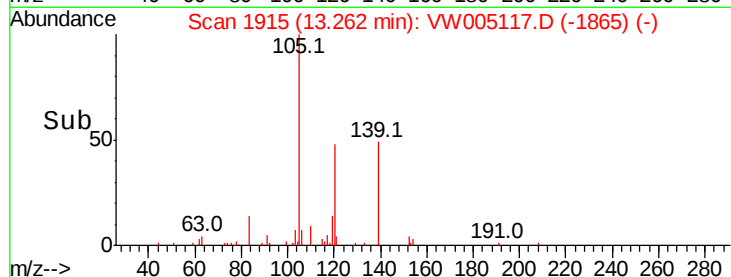
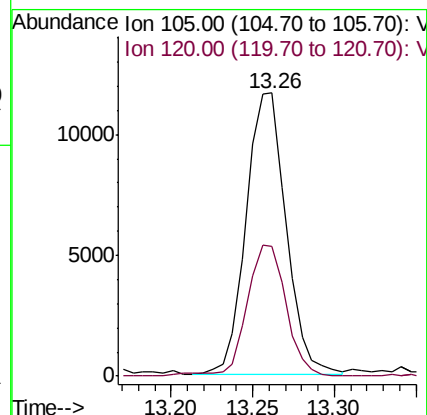
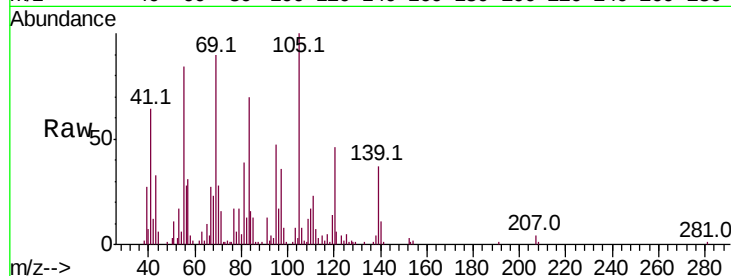
ClientSampleId :

Tot Ion:105 Resp: 19851

Ion Ratio Lower Upper

105 100

120 46.0 23.1 69.3



#85

sec-Butylbenzene

Concen: 1.168 ug/l

RT: 13.39 min Scan# 1936

Delta R.T. 0.00 min

Lab File: VW005117.D

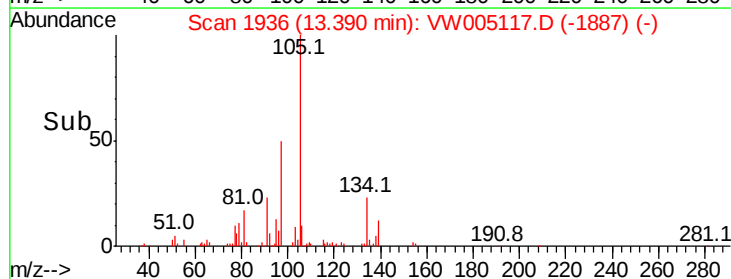
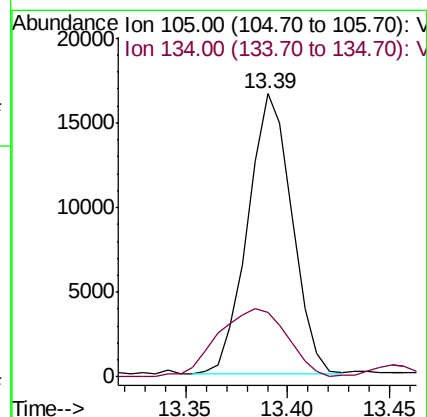
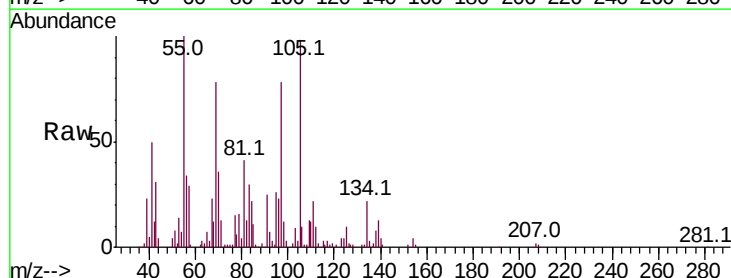
Acq: 05 Sep 2018 08:57

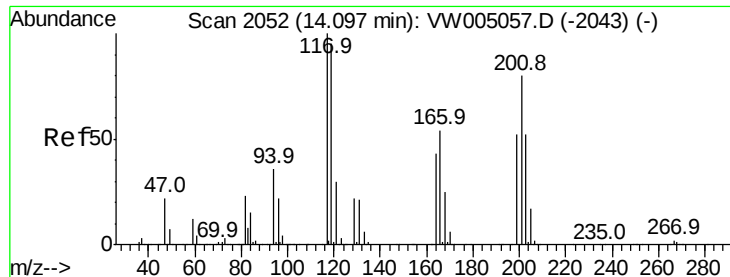
Tgt Ion:105 Resp: 25027

Ion Ratio Lower Upper

105 100

134 38.2 10.1 30.3#





#90

Hexachloroethane

Concen: 1.633 ug/l

RT: 14.11 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

Instrument :

MSVOA_W

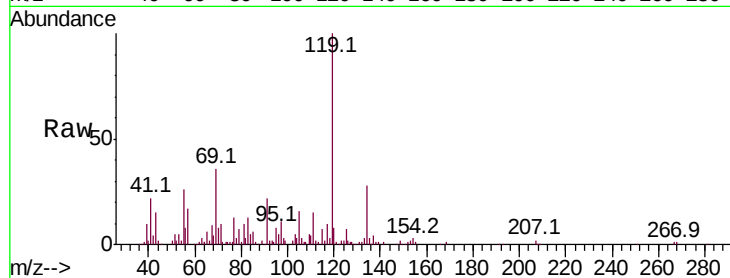
ClientSampleId :

Tot Ion:117 Resp: 5143

Ion Ratio Lower Upper

117 100

201 0.0 44.6 133.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.11

4000

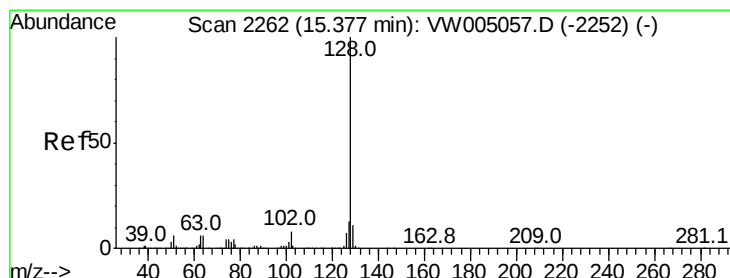
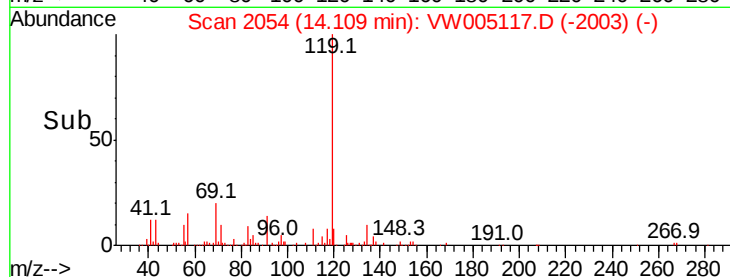
3000

2000

1000

0

Time--> 14.05 14.10 14.15



#95

Naphthalene

Concen: 5.175 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VW005117.D

Acq: 05 Sep 2018 08:57

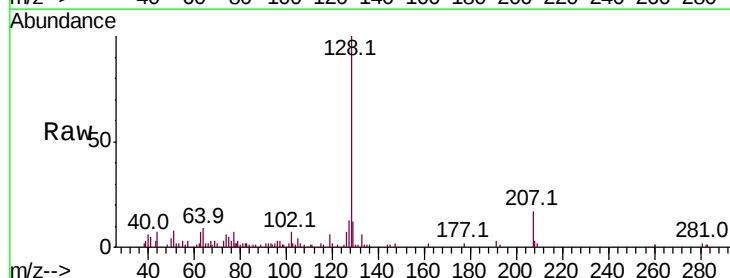
Tgt Ion:128 Resp: 13405

Ion Ratio Lower Upper

128 100

127 16.5 10.4 15.6#

129 10.6 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

15.38

10000

8000

6000

4000

2000

0

Time--> 15.30 15.40

