

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071618\
 Data File : VW003966.D
 Acq On : 16 Jul 2018 21:53
 Operator : VA/AP
 Sample : J3829-03
 Misc : 6.33G/5ML/MSVOA W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 17 05:52:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W071618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 15:06:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	3880	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	5856	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	3581	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	710	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	2824	65.11	ug/l	0.00
Spiked Amount			Recovery	=	130.22%	
35) Dibromofluoromethane	7.89	113	2506	66.70	ug/l	0.00
Spiked Amount			Recovery	=	133.40%	
50) Toluene-d8	10.33	98	4687	32.15	ug/l	0.00
Spiked Amount			Recovery	=	64.30%	
62) 4-Bromofluorobenzene	12.63	95	1031	19.61	ug/l	0.00
Spiked Amount			Recovery	=	39.22%	

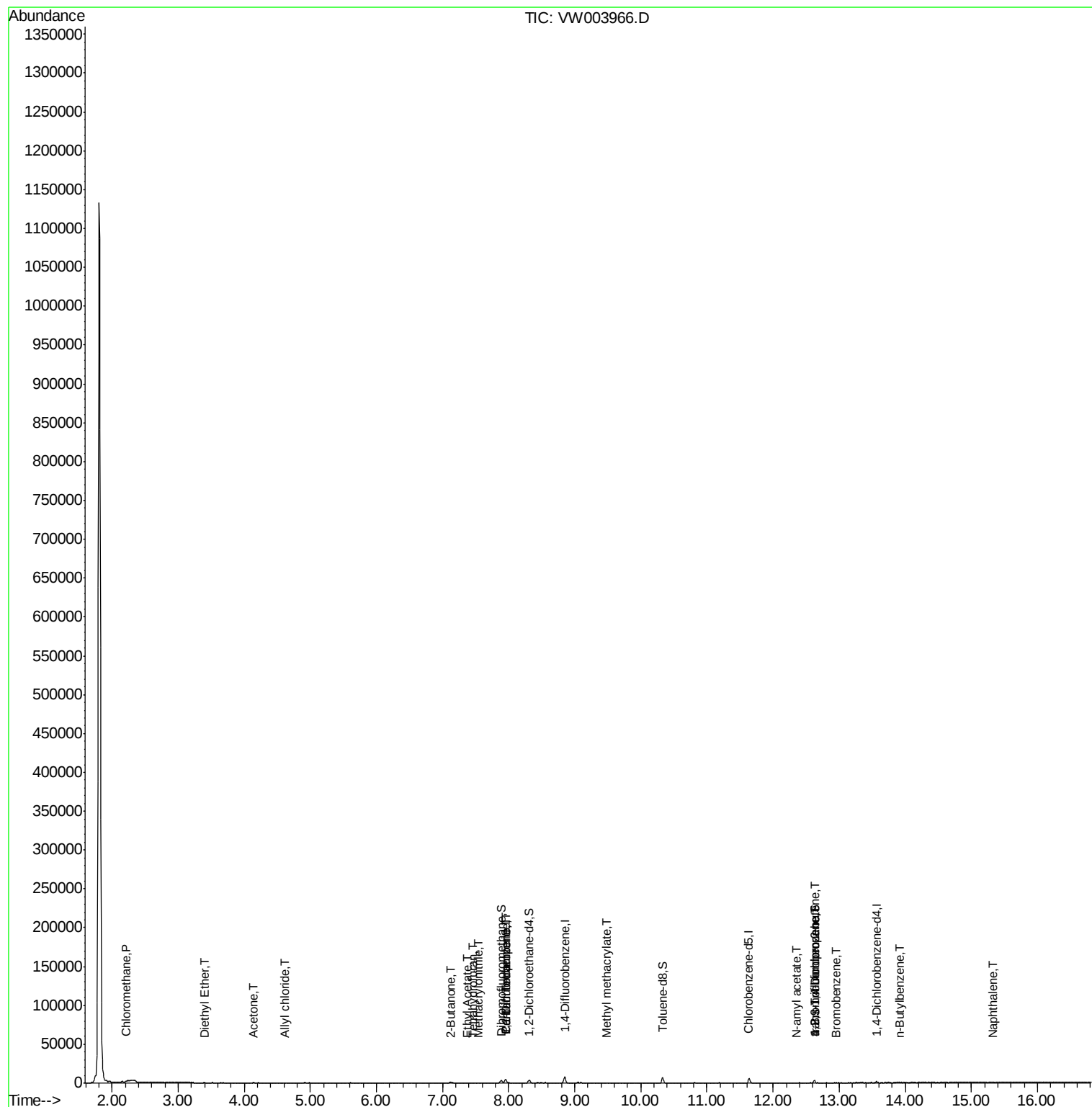
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	94	3.278	ug/l #	42
8) Diethyl Ether	3.41	74	21	1.092	ug/l #	1
14) Allyl chloride	4.62	41	134	2.153	ug/l #	23
16) Acetone	4.14	43	191	18.327	ug/l #	44
20) Methylene Chloride	4.91	84	230	Below Cal	#	22
25) 2-Butanone	7.13	43	19	1.355	ug/l #	51
29) Tetrahydrofuran	7.45	42	23	2.633	ug/l #	36
36) 1,1-Dichloropropene	7.95	75	371	6.158	ug/l #	42
37) Ethyl Acetate	7.37	43	44	1.514	ug/l #	70
38) Carbon Tetrachloride	7.95	117	352	6.253	ug/l #	13
41) Methacrylonitrile	7.53	41	24	1.490	ug/l #	20
48) Methyl methacrylate	9.48	41	46	1.750	ug/l #	13
74) N-amyl acetate	12.35	43	22	1.683	ug/l #	44
76) 1,2,3-Trichloropropane	12.62	75	506	71.787	ug/l #	100
77) Bromobenzene	12.96	156	30	2.499	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	506	158.790	ug/l #	11
89) n-Butylbenzene	13.92	91	58	1.279	ug/l #	34
95) Naphthalene	15.32	128	42	1.517	ug/l #	69

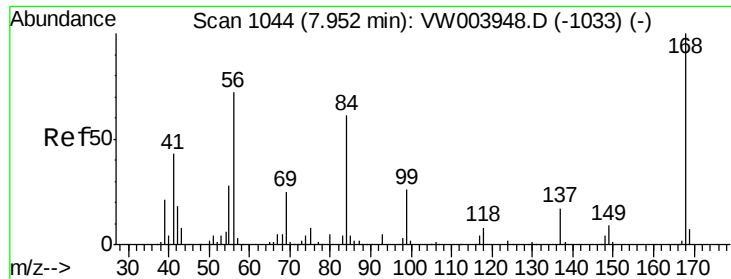
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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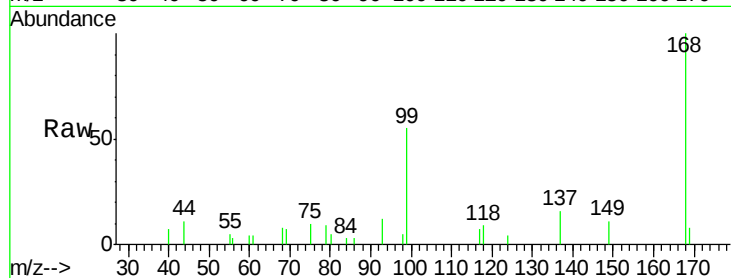




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.96 min Scan# 1045
Delta R.T. 0.01 min
Lab File: VW003966.D
Acq: 16 Jul 2018 21:53

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 3880
Ion Ratio Lower Upper
168 100
99 54.7 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

1500

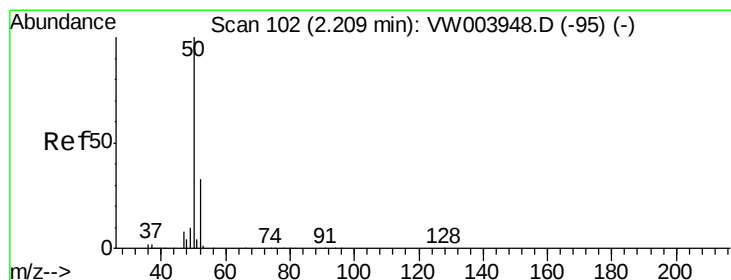
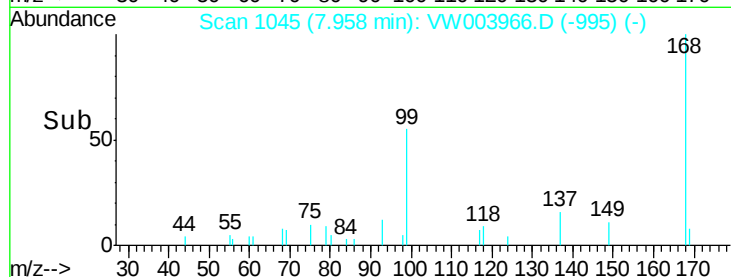
1000

500

0

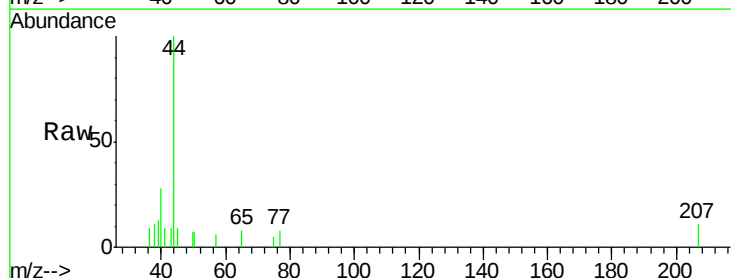
7.90 7.95 8.00

Time-->



#3
Chloromethane
Concen: 3.278 ug/l
RT: 2.21 min Scan# 102
Delta R.T. -0.00 min
Lab File: VW003966.D
Acq: 16 Jul 2018 21:53

Tgt Ion: 50 Resp: 94
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

150

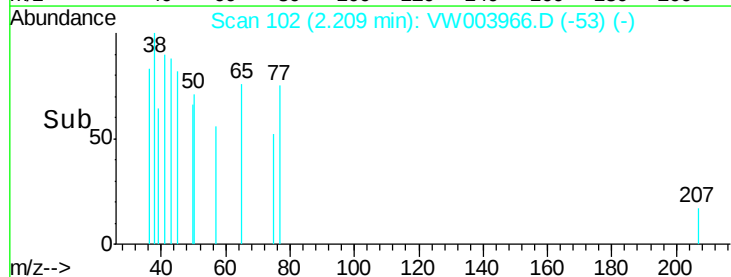
100

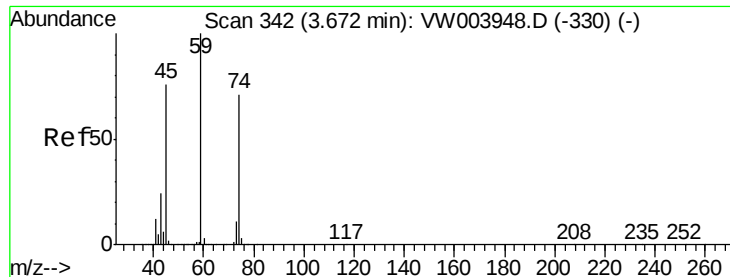
50

0

2.18 2.20 2.22

Time-->





#8

Diethyl Ether

Concen: 1.092 ug/l

RT: 3.41 min Scan# 299

Delta R.T. -0.26 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

Instrument :

MSVOA_W

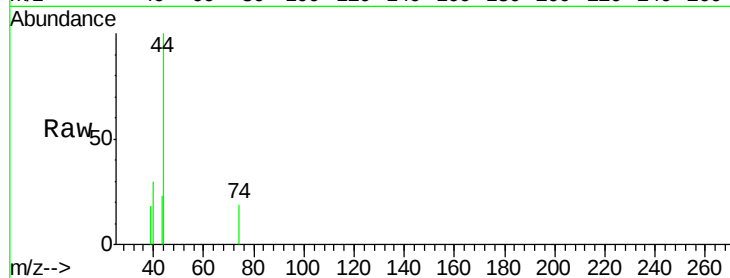
ClientSampled :

Tot Ion: 74 Resp: 21

Ion Ratio Lower Upper

74 100

45 0.0 53.8 161.4#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.41

60

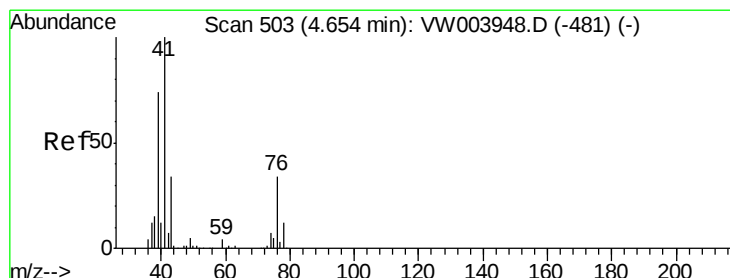
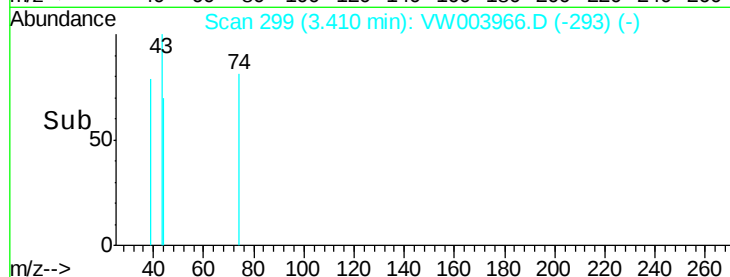
40

20

0

3.39 3.40 3.41 3.42 3.43

Time-->



#14

Allyl chloride

Concen: 2.153 ug/l

RT: 4.62 min Scan# 497

Delta R.T. -0.04 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

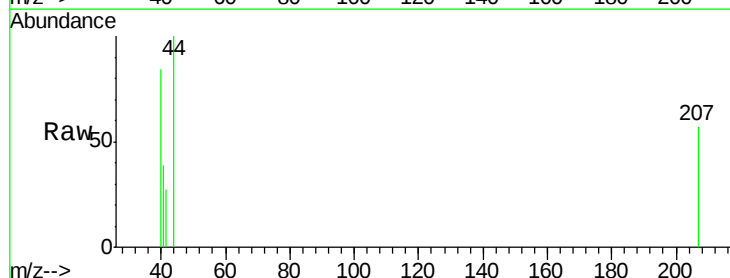
Tgt Ion: 41 Resp: 134

Ion Ratio Lower Upper

41 100

39 0.0 57.0 85.4#

76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

150

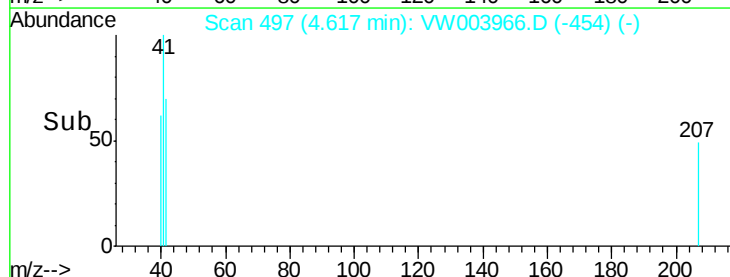
100

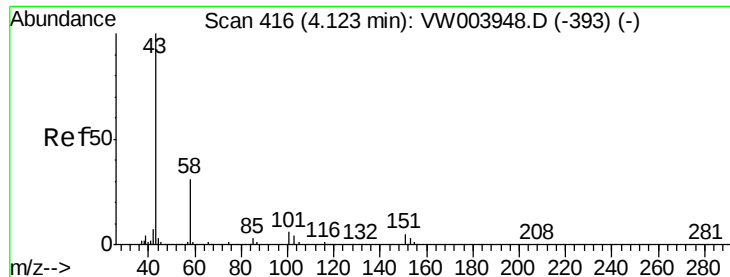
50

0

4.60 4.62 4.65

Time-->





#16

Acetone

Concen: 18.327 ug/l

RT: 4.14 min Scan# 418

Delta R.T. 0.01 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

Instrument :

MSVOA_W

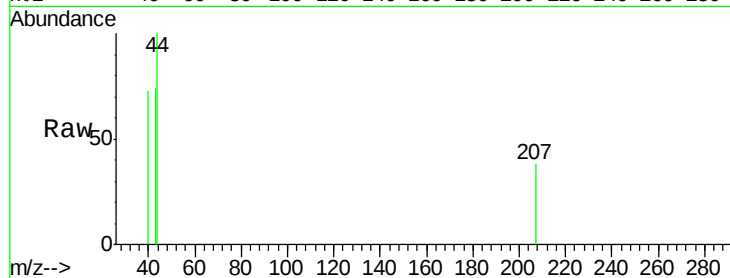
ClientSampled :

Tot Ion: 43 Resp: 191

Ion Ratio Lower Upper

43 100

58 0.0 24.5 36.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

150

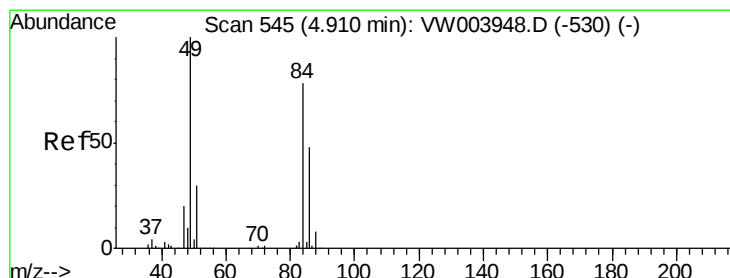
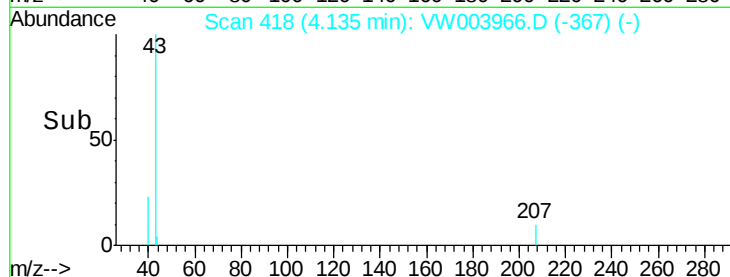
100

50

0

4.12 4.14 4.16

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.91 min Scan# 545

Delta R.T. 0.00 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

Tgt Ion: 84 Resp: 230

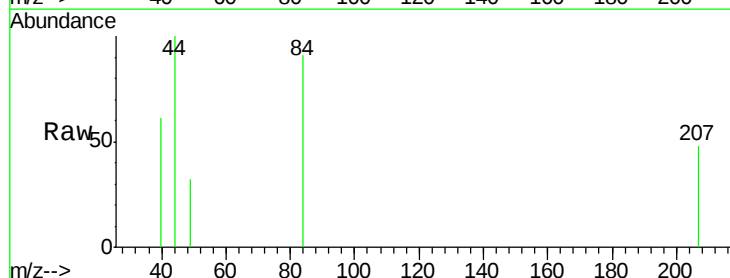
Ion Ratio Lower Upper

84 100

49 34.7 102.9 154.3#

51 0.0 30.9 46.3#

86 0.0 49.9 74.9#



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

4.91

300

250

200

150

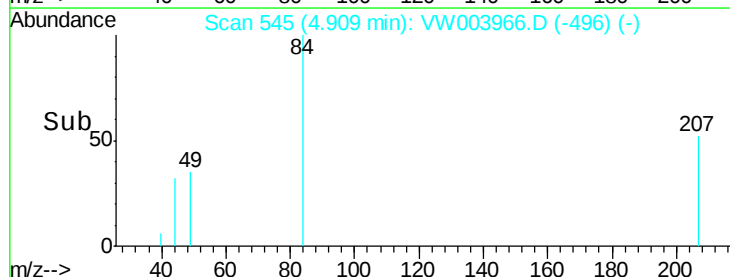
100

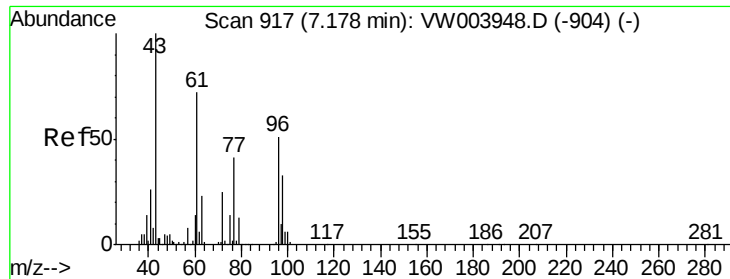
50

0

4.88 4.90 4.92 4.94

Time-->

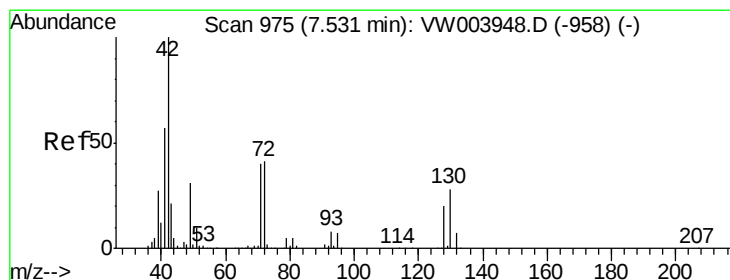
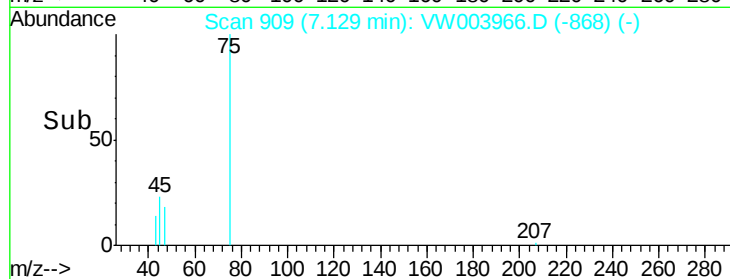
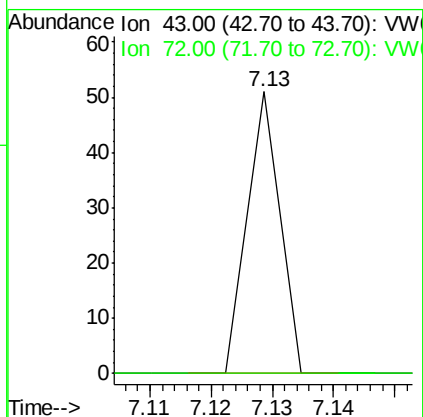
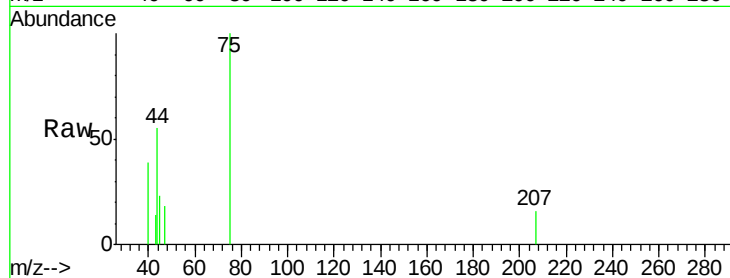




#25
2-Butanone
Concen: 1.355 ug/l
RT: 7.13 min Scan# 909
Delta R.T. -0.05 min
Lab File: VW003966.D
Acq: 16 Jul 2018 21:53

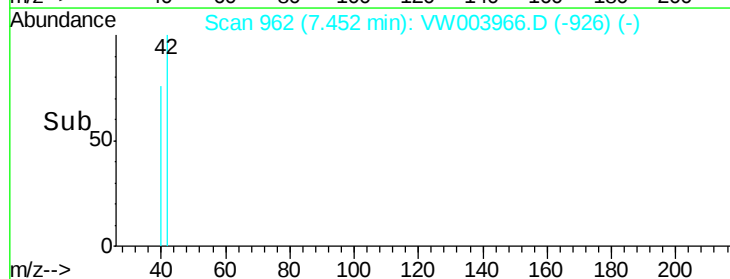
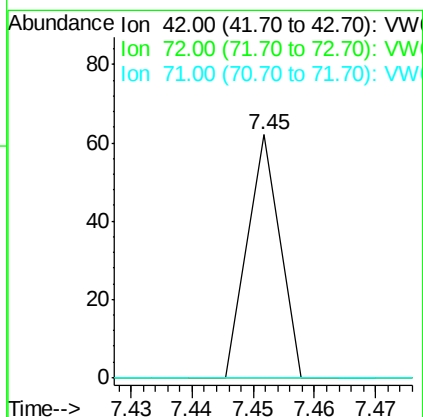
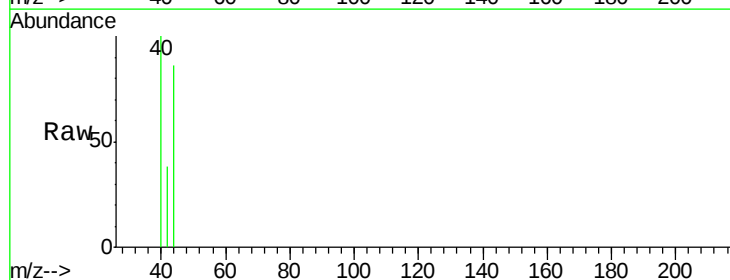
Instrument :
MSVOA_W
ClientSampled :

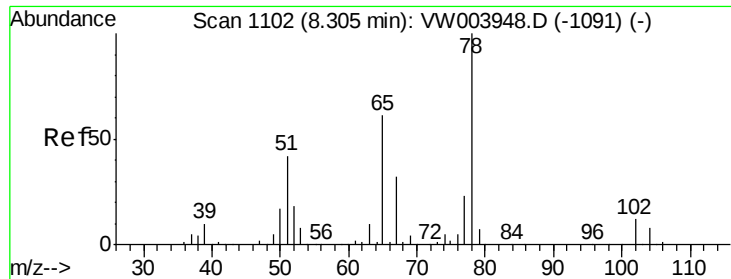
Tot Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#



#29
Tetrahydrofuran
Concen: 2.633 ug/l
RT: 7.45 min Scan# 962
Delta R.T. -0.08 min
Lab File: VW003966.D
Acq: 16 Jul 2018 21:53

Tgt Ion: 42 Resp: 23
Ion Ratio Lower Upper
42 100
72 0.0 32.6 48.8#
71 0.0 30.5 45.7#

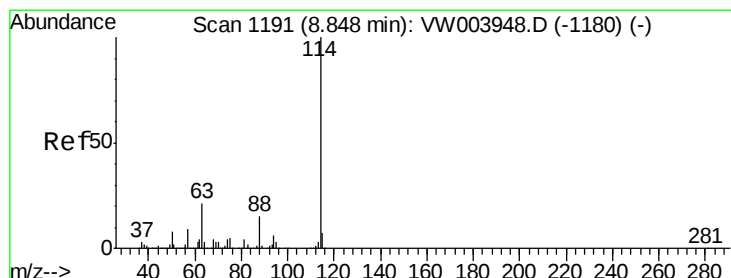
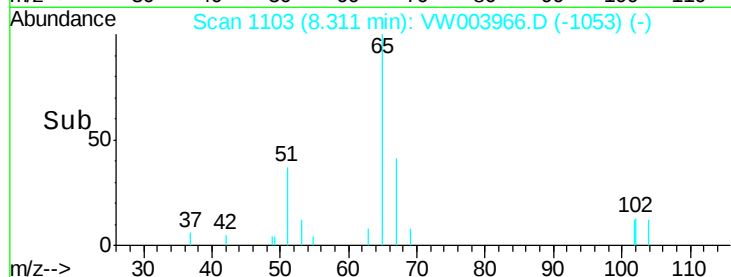
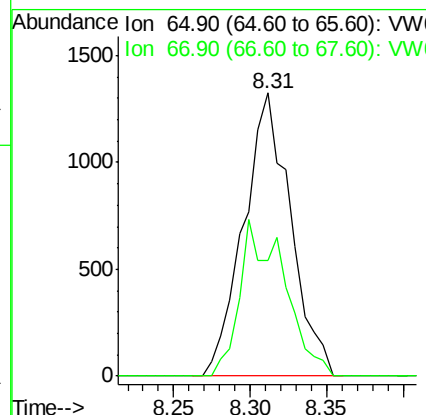
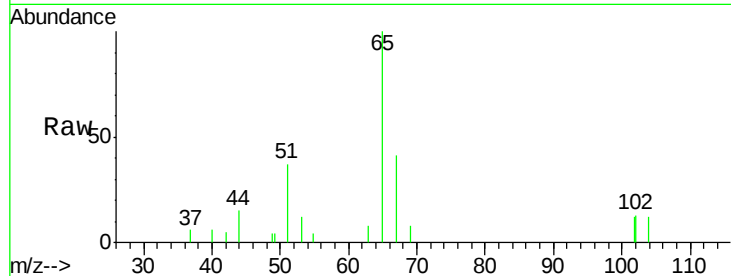




#33
 1,2-Dichloroethane-d4
 Concen: 65.113 ug/l
 RT: 8.31 min Scan# 1103
 Delta R.T. 0.01 min
 Lab File: VW003966.D
 Acq: 16 Jul 2018 21:53

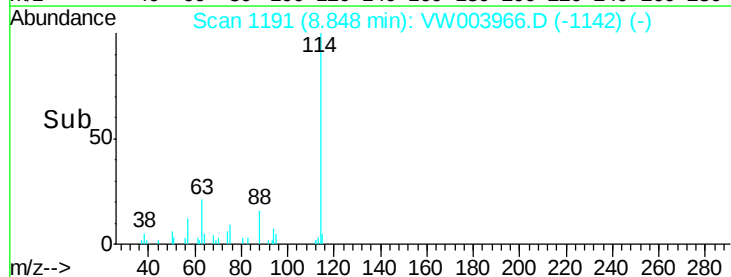
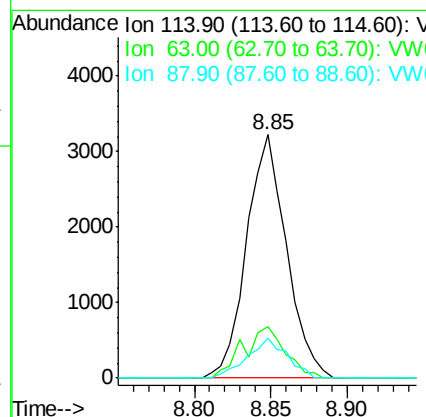
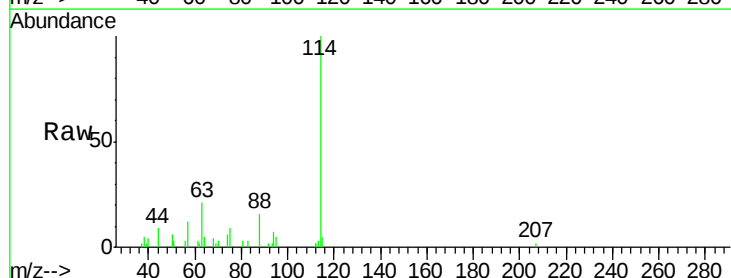
Instrument :
 MSVOA_W
 ClientSampled :

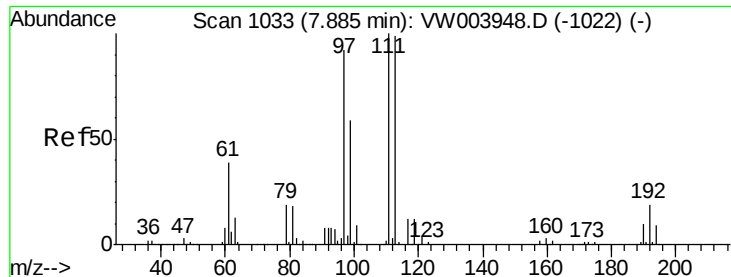
Tot Ion: 65 Resp: 2824
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: VW003966.D
 Acq: 16 Jul 2018 21:53

Tgt Ion: 114 Resp: 5856
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 42.8
 88 16.2 0.0 30.4





#35

Dibromofluoromethane

Concen: 66.696 ug/l

RT: 7.89 min Scan# 1034

Delta R.T. 0.01 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

Instrument :
MSVOA_W
ClientSampleId :

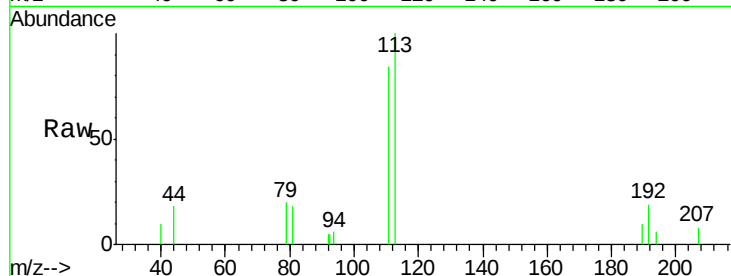
Tot Ion:113 Resp: 2506

Ion Ratio Lower Upper

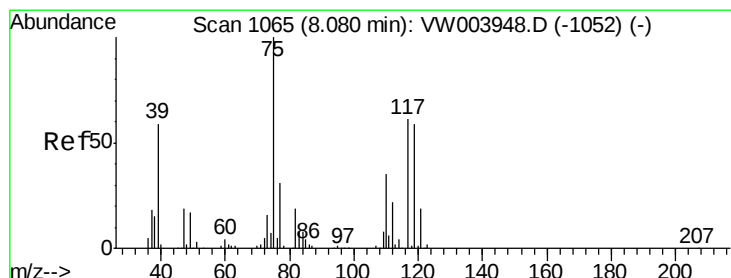
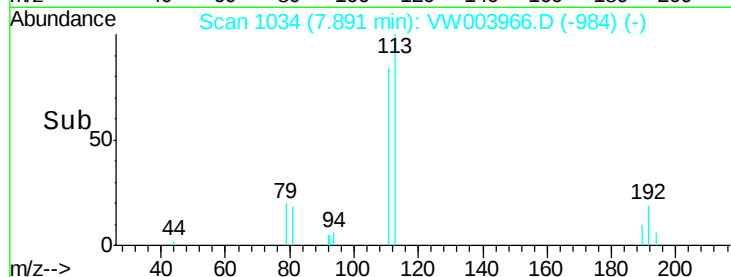
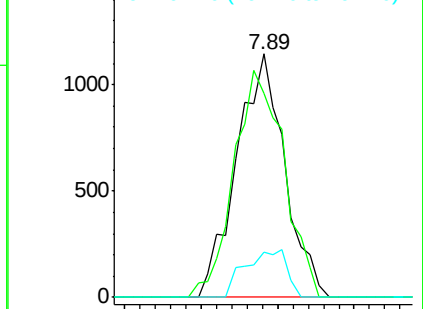
113 100

111 96.7 81.3 121.9

192 17.0 15.8 23.6



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: 6.158 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

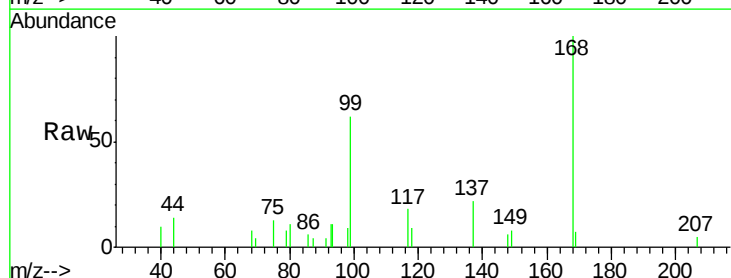
Tgt Ion: 75 Resp: 371

Ion Ratio Lower Upper

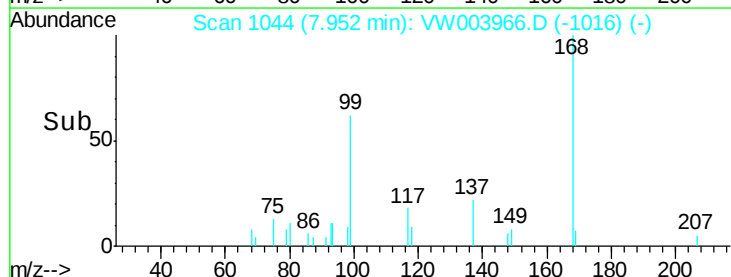
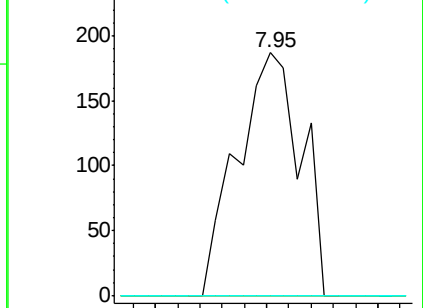
75 100

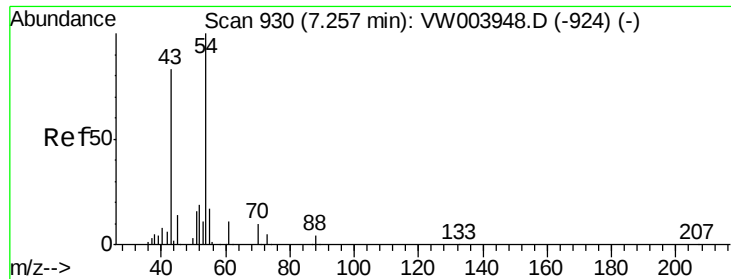
110 0.0 17.0 51.0#

77 0.0 24.9 37.3#



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: 1.514 ug/l

RT: 7.37 min Scan# 948

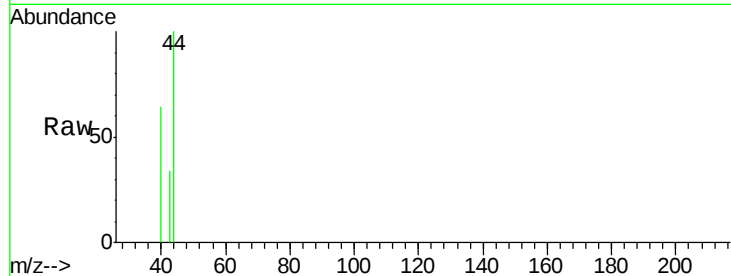
Delta R.T. 0.11 min

Lab File: VW003966.D

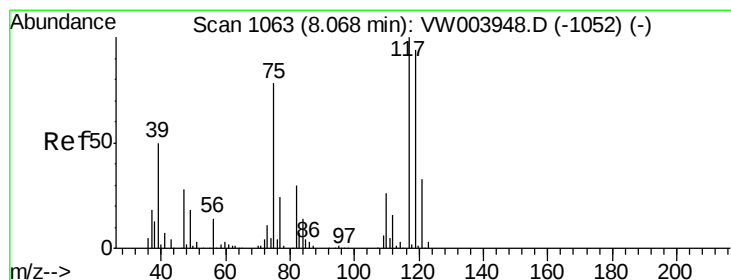
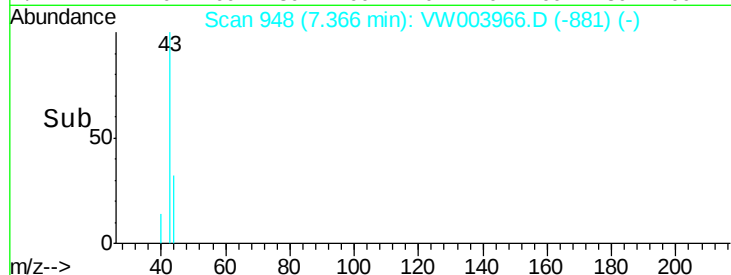
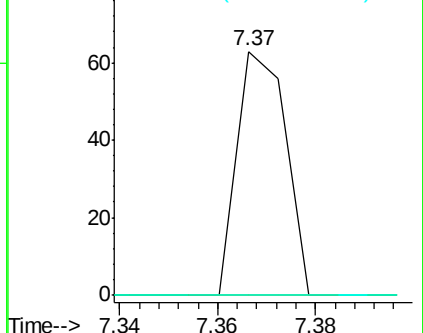
Acq: 16 Jul 2018 21:53

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:	43	Resp:	44
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.7	16.1#
70	0.0	7.7	11.5#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 6.253 ug/l

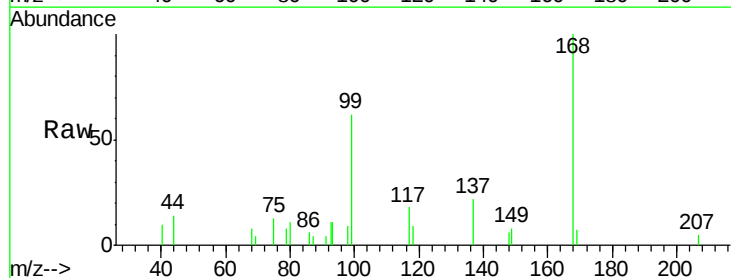
RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

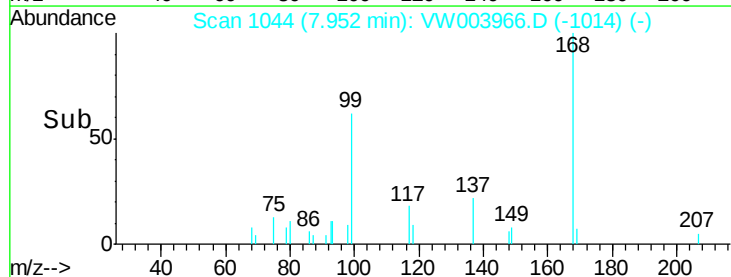
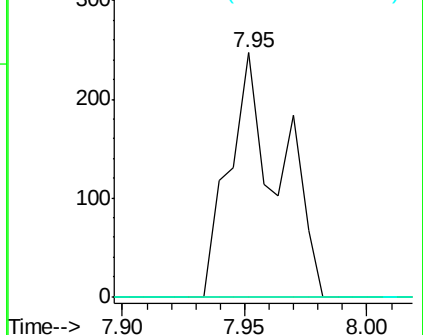
Lab File: VW003966.D

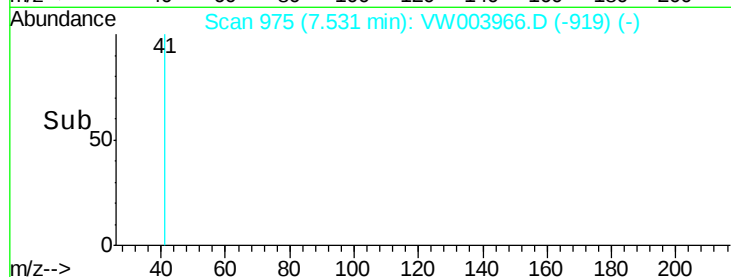
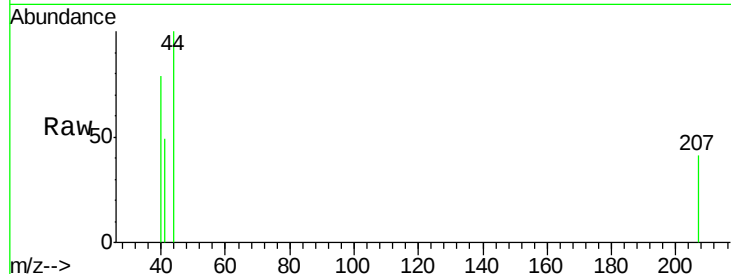
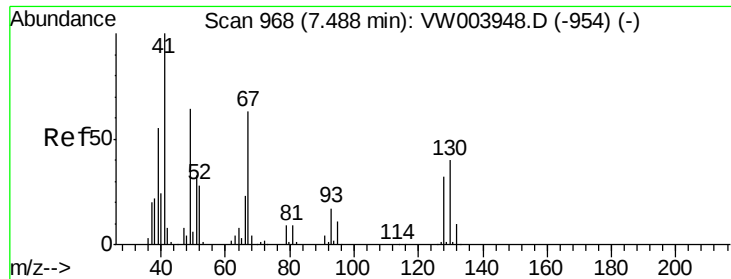
Acq: 16 Jul 2018 21:53

Tgt Ion:	117	Resp:	352
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.3	112.9#
121	0.0	26.0	39.0#



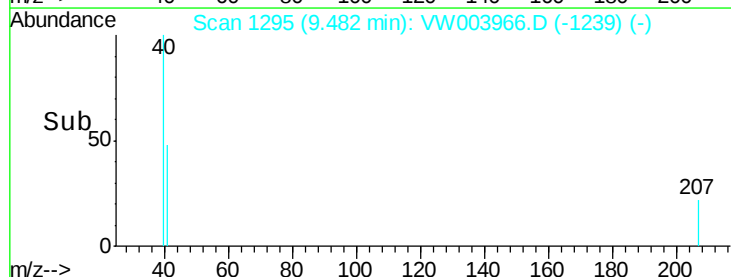
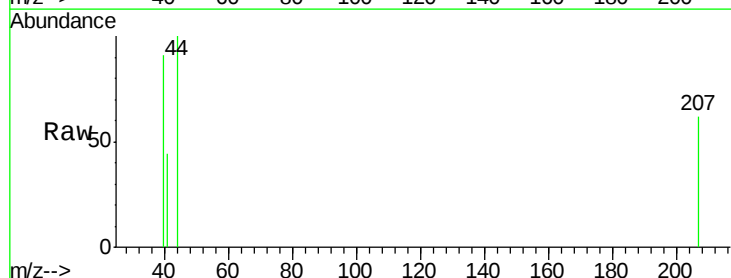
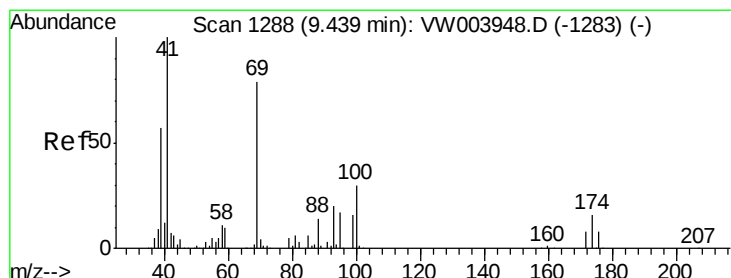
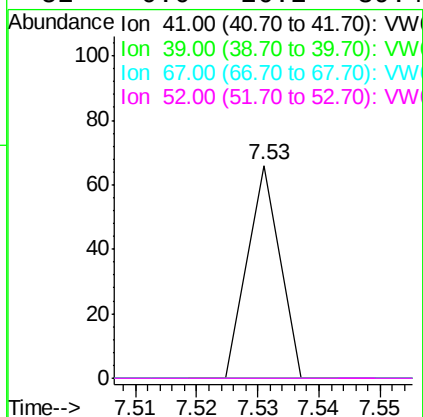
Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





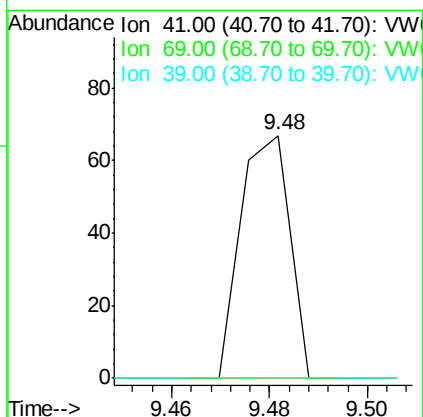
#41
Methacrylonitrile
Concen: 1.490 ug/l
RT: 7.53 min Scan# 975
Delta R.T. 0.04 min
Lab File: VW003966.D
Acq: 16 Jul 2018 21:53

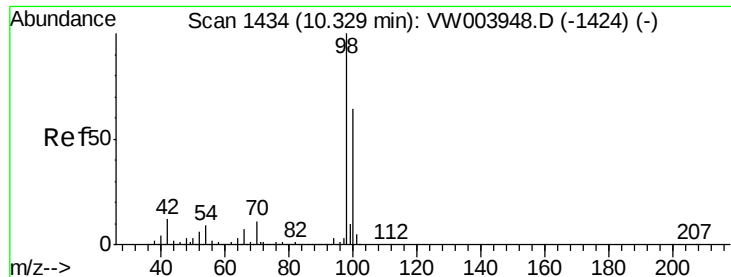
Tot Ion:	41	Resp:	24
Ion	Ratio	Lower	Upper
41	100		
39	0.0	50.0	75.0#
67	0.0	60.8	91.2#
52	0.0	26.2	39.4#



#48
Methyl methacrylate
Concen: 1.750 ug/l
RT: 9.48 min Scan# 1295
Delta R.T. 0.04 min
Lab File: VW003966.D
Acq: 16 Jul 2018 21:53

Tgt Ion:	41	Resp:	46
Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.0	100.6#
39	0.0	48.8	73.2#





#50

Toluene-d8

Concen: 32.148 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

Instrument :

MSVOA_W

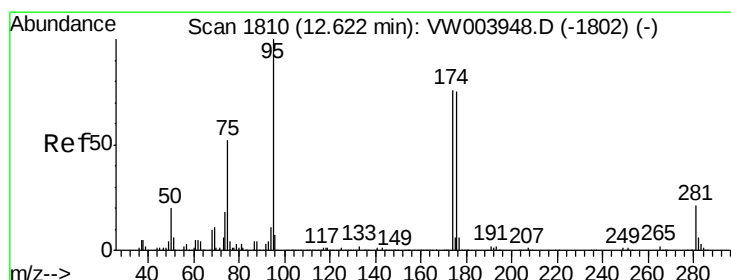
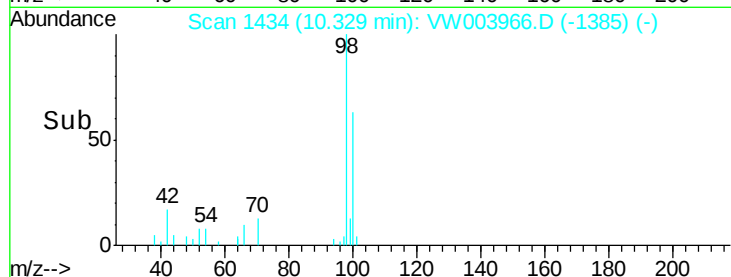
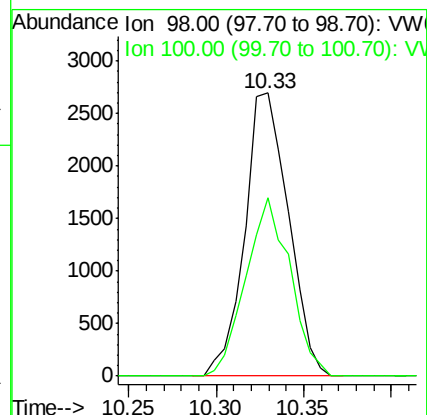
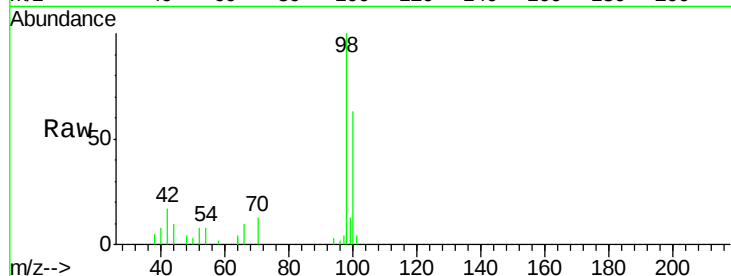
ClientSampleId :

Tot Ion: 98 Resp: 4687

Ion Ratio Lower Upper

98 100

100 63.7 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 19.611 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

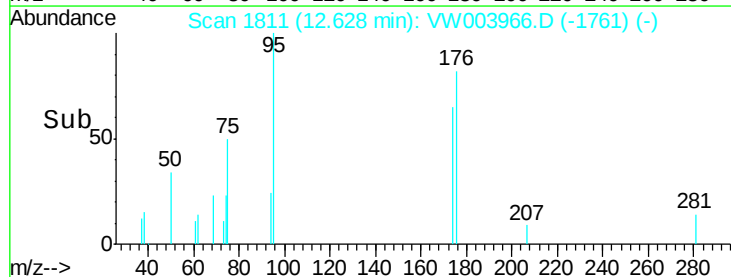
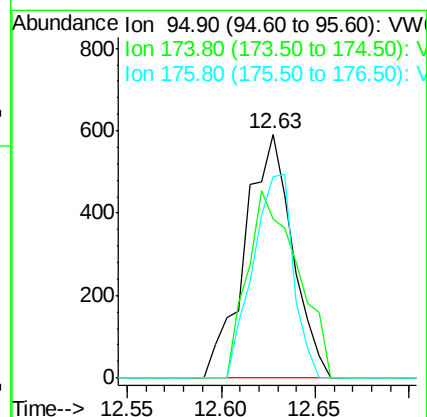
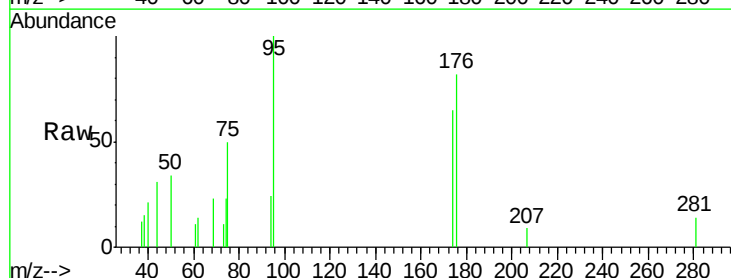
Tgt Ion: 95 Resp: 1031

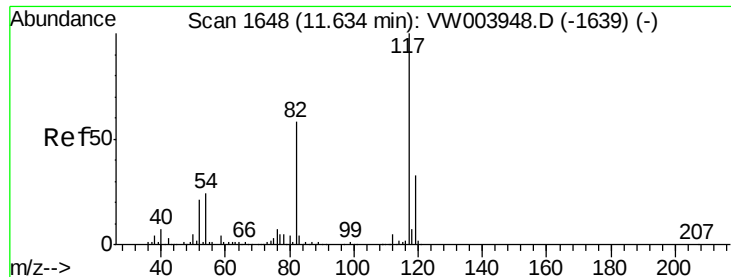
Ion Ratio Lower Upper

95 100

174 80.7 0.0 160.2

176 71.1 0.0 155.8

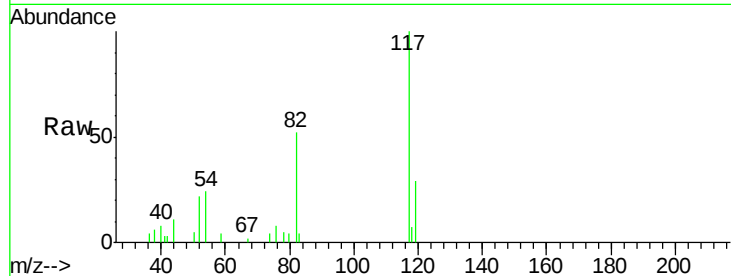




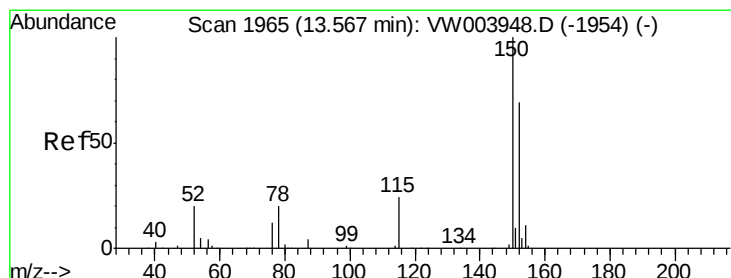
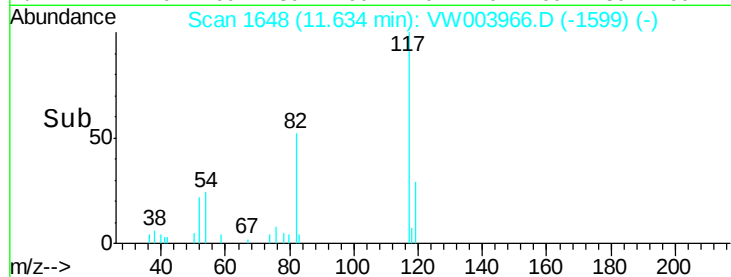
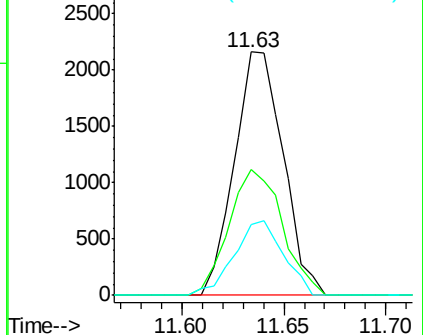
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VW003966.D
Acq: 16 Jul 2018 21:53

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 3581
Ion Ratio Lower Upper
117 100
82 51.6 46.5 69.7
119 29.0 26.2 39.2

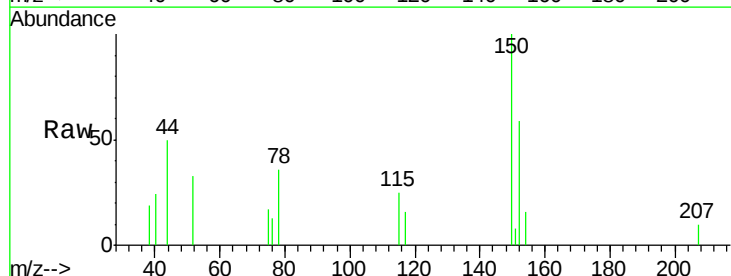


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

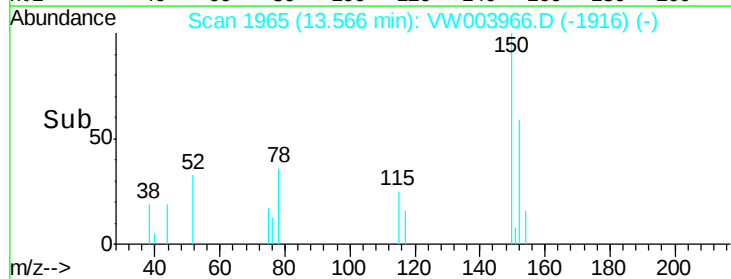
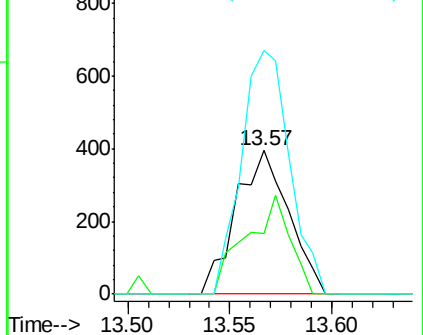


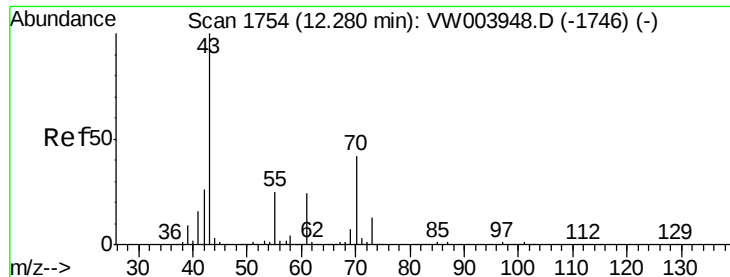
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VW003966.D
Acq: 16 Jul 2018 21:53

Tgt Ion:152 Resp: 710
Ion Ratio Lower Upper
152 100
115 57.2 29.2 87.6
150 155.9 0.0 345.2



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





#74

N-amvl acetate

Concen: 1.683 ug/l

RT: 12.35 min Scan# 1765

Delta R.T. 0.07 min

Lab File: VW003966.D

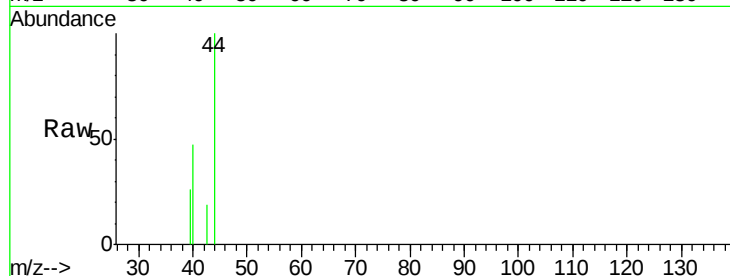
Acq: 16 Jul 2018 21:53

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:	43	Resp:	22
Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.6	47.4#
55	0.0	20.0	30.0#
61	0.0	18.5	27.7#

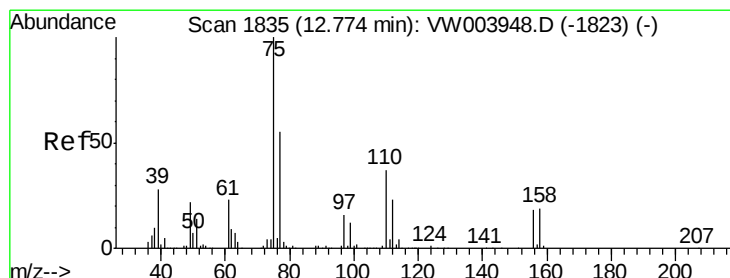
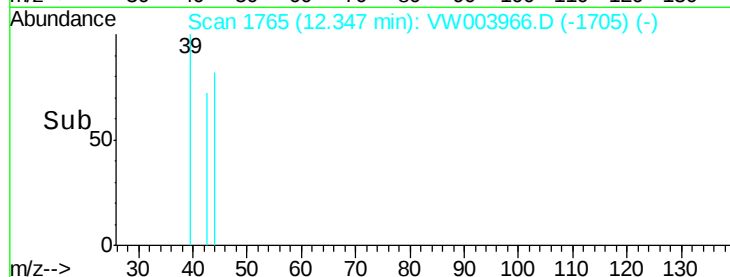
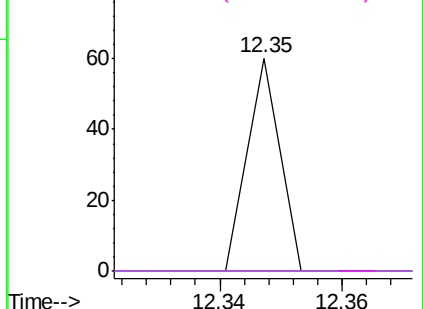


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 71.787 ug/l

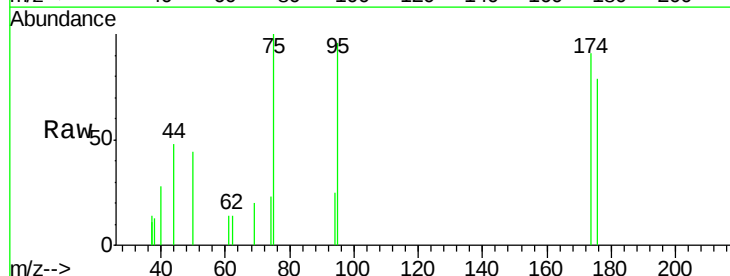
RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003966.D

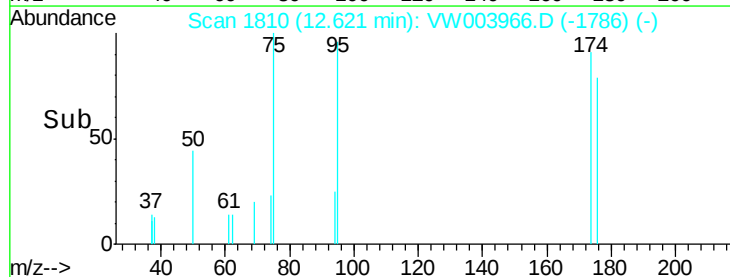
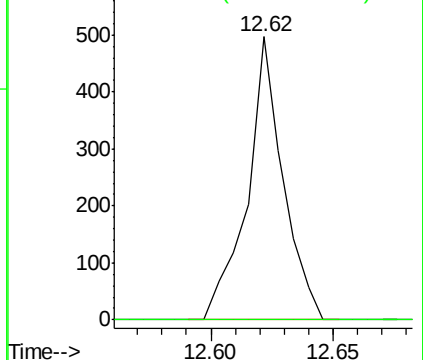
Acq: 16 Jul 2018 21:53

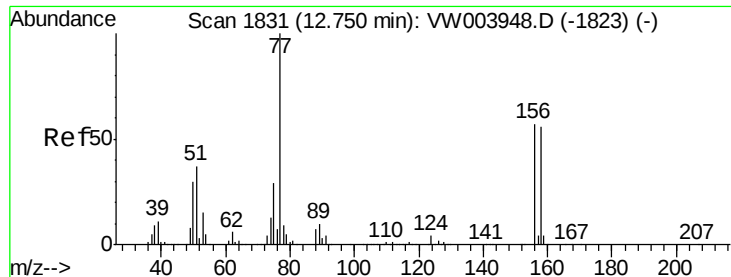
Tgt Ion:	75	Resp:	506
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 2.499 ug/l

RT: 12.96 min Scan# 1866

Delta R.T. 0.21 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

Instrument :

MSVOA_W

ClientSampled :

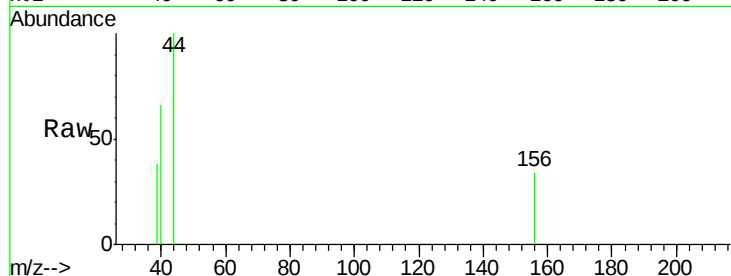
Tot Ion:156 Resp: 30

Ion Ratio Lower Upper

156 100

77 0.0 96.2 288.6#

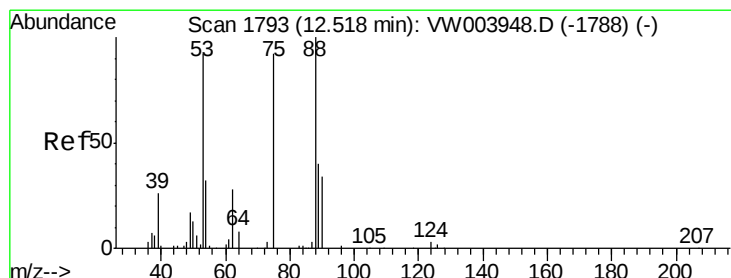
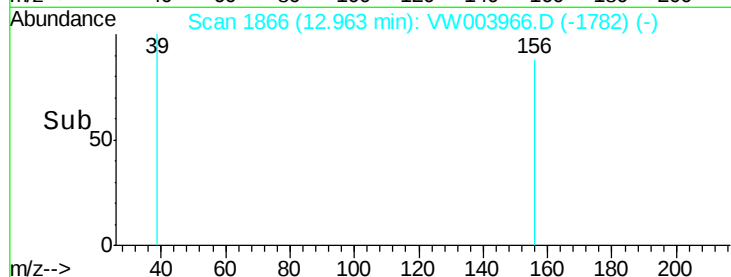
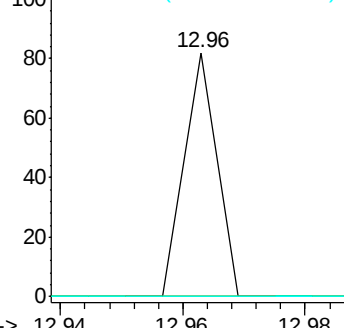
158 0.0 48.5 145.5#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 158.790 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

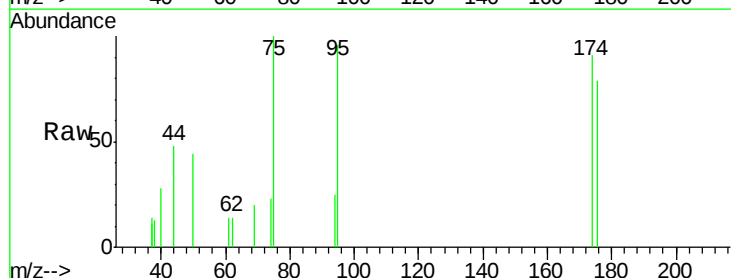
Tgt Ion: 75 Resp: 506

Ion Ratio Lower Upper

75 100

53 0.0 77.6 116.4#

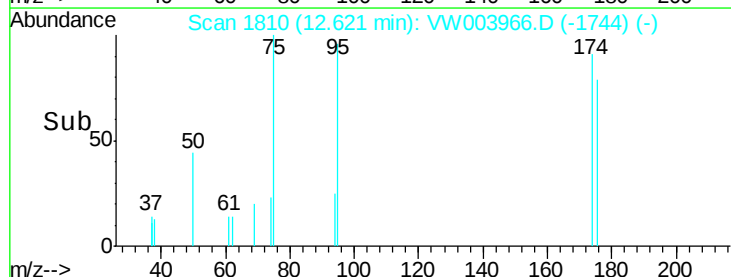
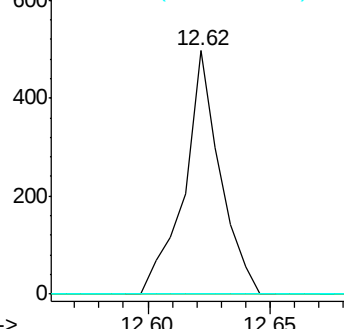
89 0.0 36.6 54.8#

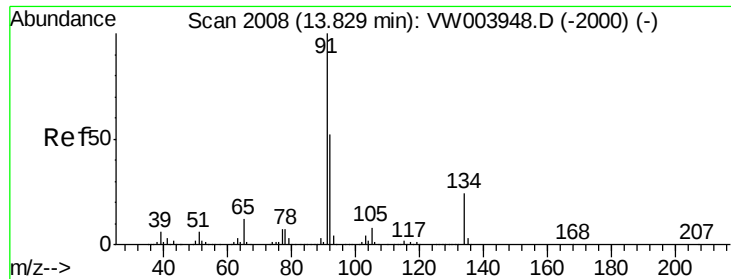


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#89

n-Butylbenzene

Concen: 1.279 ug/l

RT: 13.92 min Scan# 2023

Delta R.T. 0.09 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

Instrument :

MSVOA_W

ClientSampled :

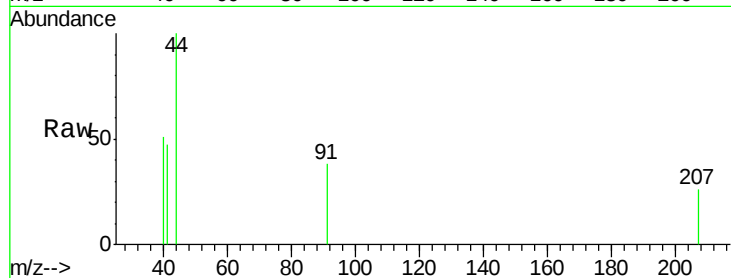
Tot Ion: 91 Resp: 58

Ion Ratio Lower Upper

91 100

92 0.0 26.1 78.3#

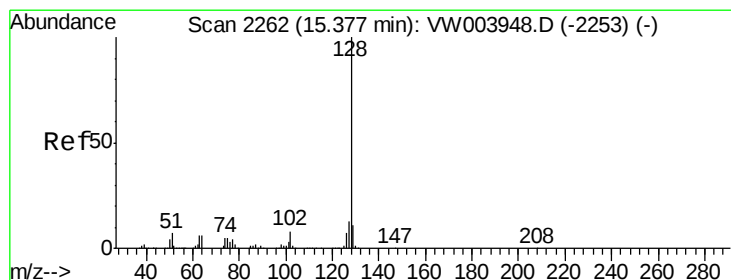
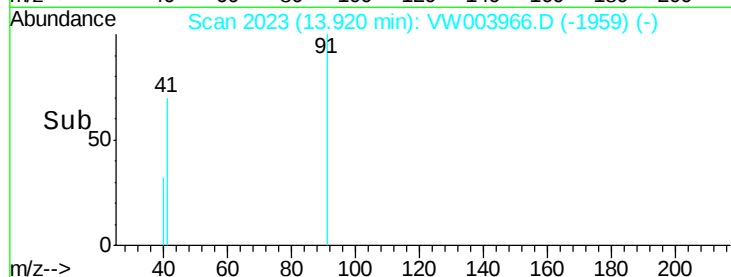
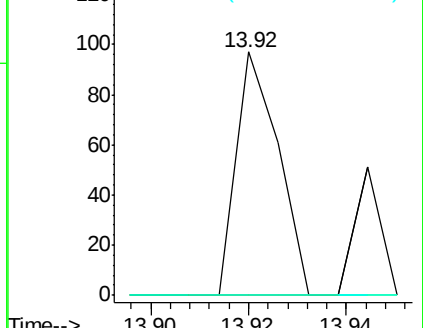
134 0.0 12.4 37.4#



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



#95

Naphthalene

Concen: 1.517 ug/l

RT: 15.32 min Scan# 2253

Delta R.T. -0.06 min

Lab File: VW003966.D

Acq: 16 Jul 2018 21:53

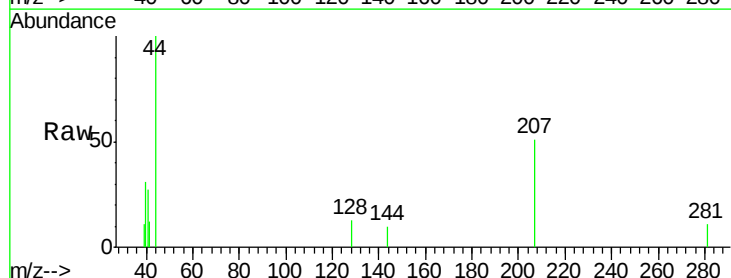
Tgt Ion: 128 Resp: 42

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 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

