

Data File : VW010692.D
Acq On : 05 Jun 2019 15:10
Operator : SY/VA
Sample : K3171-04RE
Misc : 3.82G/5ML/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-BRE

Quant Time: Jun 06 07:28:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 05 03:21:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	206510	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	365274	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	294471	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	102545	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	148127	60.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.72%	
35) Dibromofluoromethane	7.88	113	65152	32.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	65.72%	
50) Toluene-d8	10.32	98	461665	53.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.20%	
62) 4-Bromofluorobenzene	12.62	95	140639	44.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.90%	

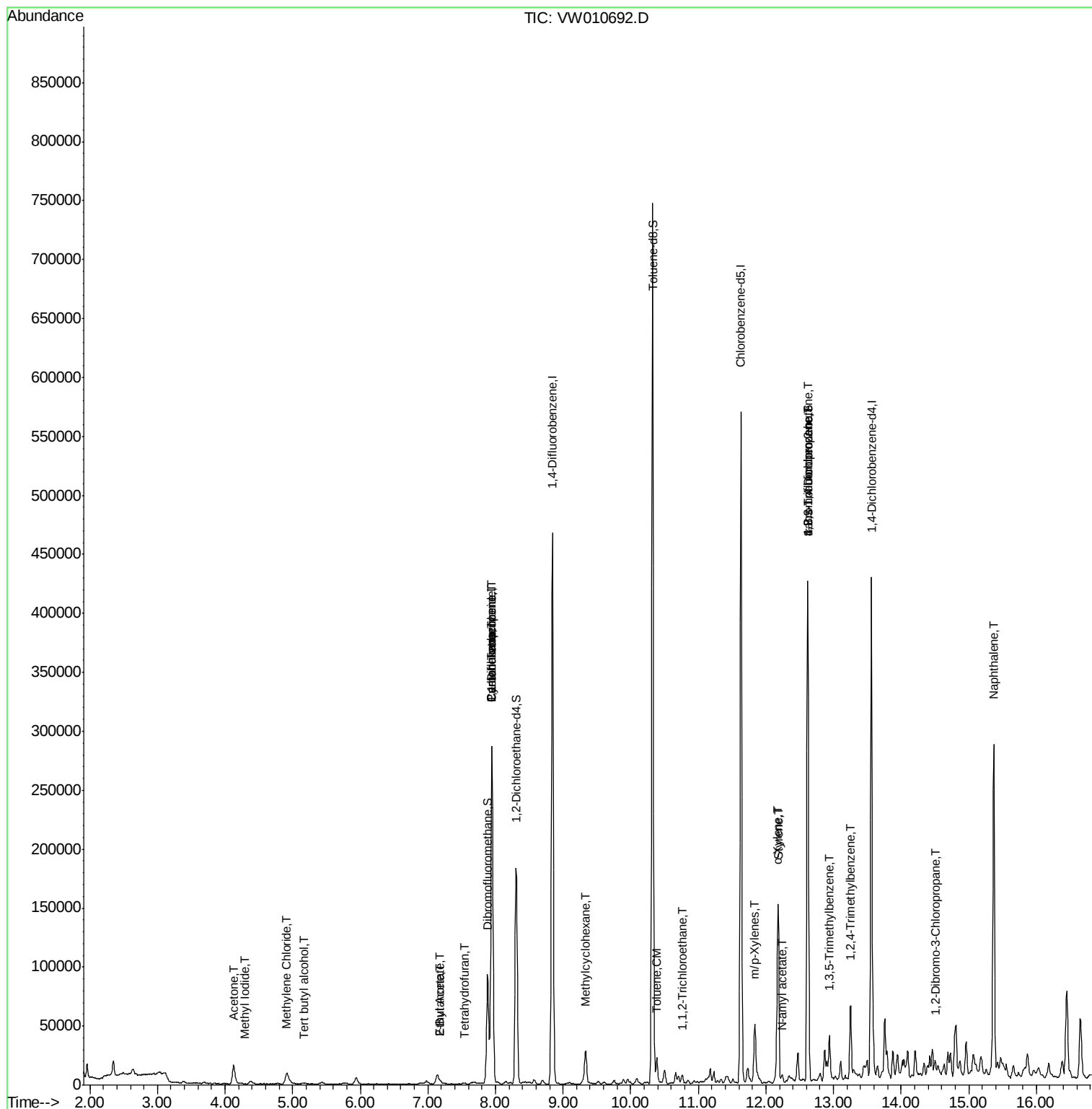
Target Compounds				Qvalue		
10) Methyl Iodide	4.29	142	19	4.807	ug/l #	41
11) Tert butyl alcohol	5.17	59	1096	5.527	ug/l #	72
16) Acetone	4.12	43	28986	44.443	ug/l	94
20) Methylene Chloride	4.91	84	5899	2.578	ug/l	93
25) 2-Butanone	7.18	43	3700	4.091	ug/l	95
29) Tetrahydrofuran	7.54	42	728	1.280	ug/l #	78
31) Cyclohexane	7.95	56	8176	1.665	ug/l #	21
36) 1,1-Dichloropropene	7.95	75	18304	4.895	ug/l #	51
37) Ethyl Acetate	7.18	43	3700	1.786	ug/l #	72
38) Carbon Tetrachloride	7.95	117	21177	6.561	ug/l #	16
39) Methylcyclohexane	9.34	83	10566	2.223	ug/l	98
52) Toluene	10.39	92	8586	1.368	ug/l	98
55) 1,1,2-Trichloroethane	10.76	97	2447	1.354	ug/l #	23
68) m/p-Xylenes	11.83	106	12376	3.107	ug/l	100
69) o-Xylene	12.17	106	7752	2.052	ug/l	99
70) Styrene	12.18	104	65385	9.962	ug/l	93
74) N-amyl acetate	12.24	43	4301	1.727	ug/l #	55
76) 1,2,3-Trichloropropane	12.62	75	76572	71.107	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	12157	1.927	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	76572	163.426	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.26	105	33035	5.205	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.50	75	269	1.068	ug/l #	6
95) Naphthalene	15.37	128	229086	61.593	ug/l	99

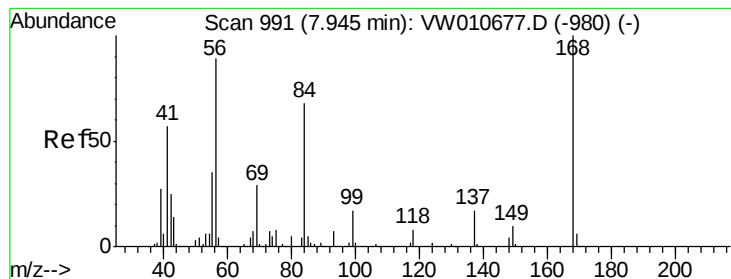
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010692.D

Acq: 05 Jun 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

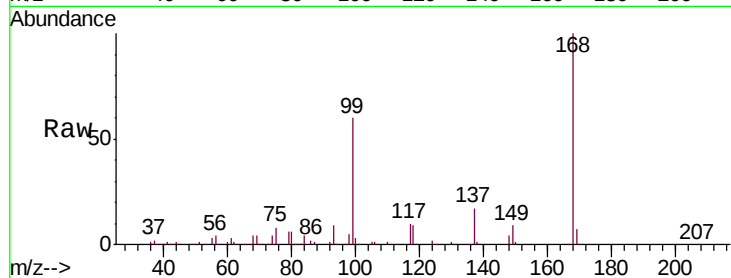
FK-SF-03-008-BRE

Tgt Ion:168 Resp: 206510

Ion Ratio Lower Upper

168 100

99 59.6 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

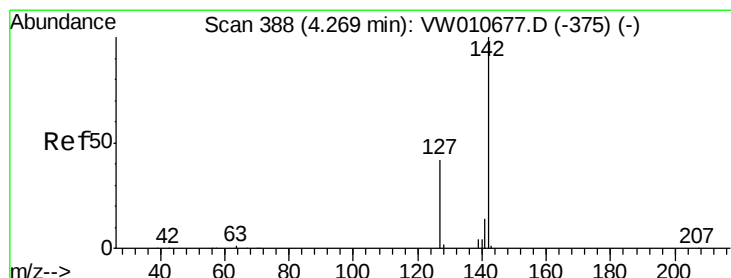
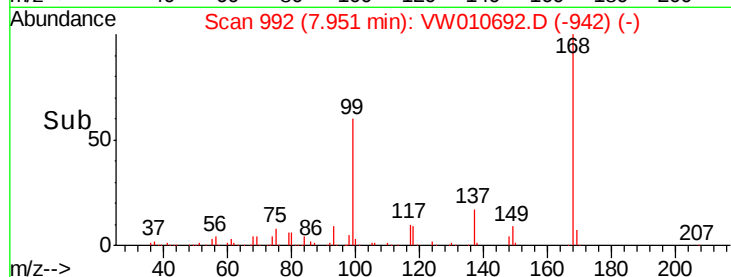
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#10

Methyl Iodide

Concen: 4.807 ug/l

RT: 4.29 min Scan# 391

Delta R.T. 0.02 min

Lab File: VW010692.D

Acq: 05 Jun 2019 15:10

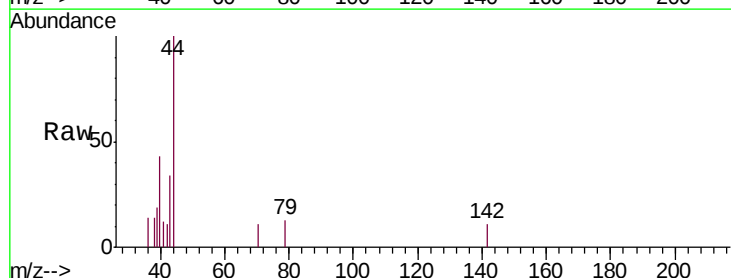
Tgt Ion:142 Resp: 19

Ion Ratio Lower Upper

142 100

127 0.0 34.6 51.8#

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

4.29

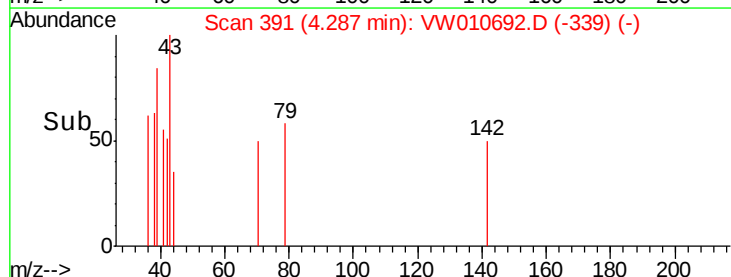
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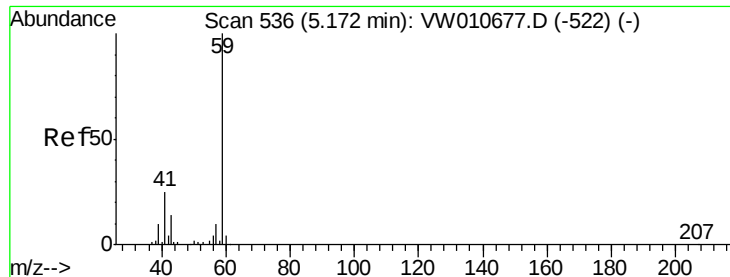
40

20

0

Time--> 4.27 4.28 4.29 4.30

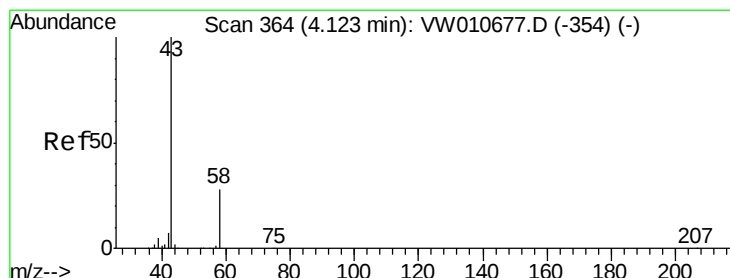
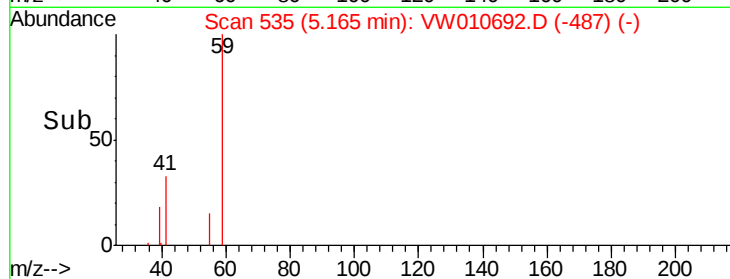
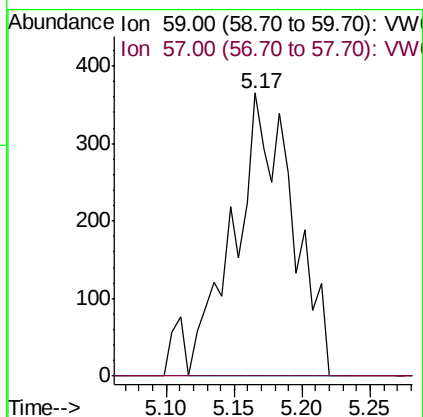
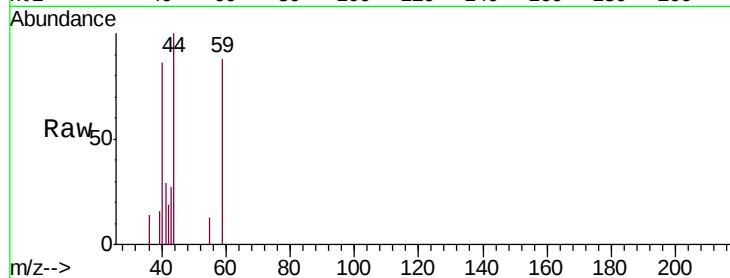




#11
Tert butyl alcohol
Concen: 5.527 ug/l
RT: 5.17 min Scan# 535
Delta R.T. -0.01 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

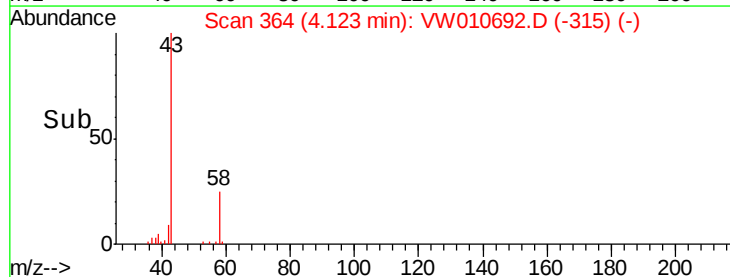
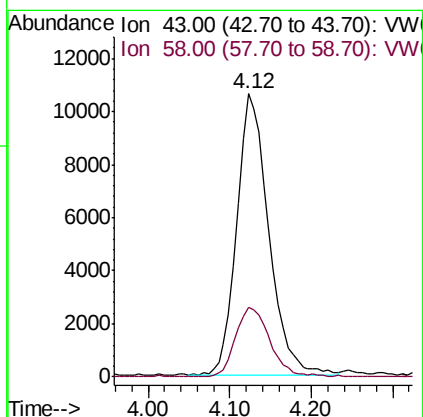
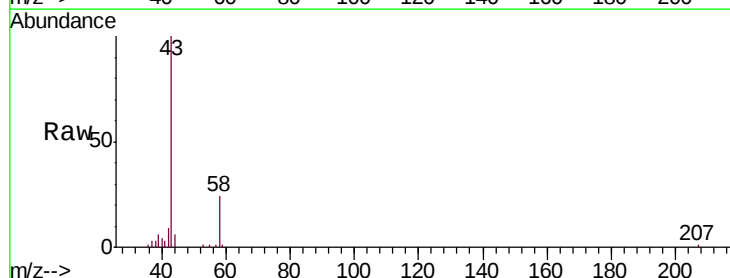
Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-BRE

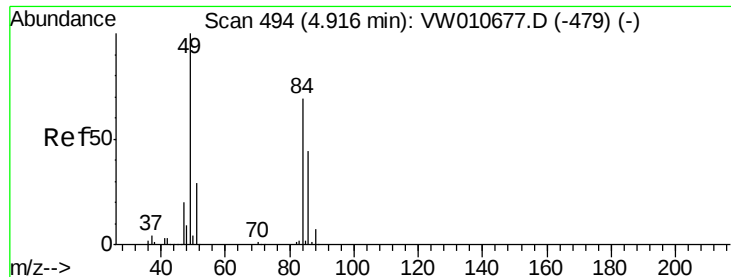
Tgt Ion: 59 Resp: 1096
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 44.443 ug/l
RT: 4.12 min Scan# 364
Delta R.T. -0.00 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

Tgt Ion: 43 Resp: 28986
Ion Ratio Lower Upper
43 100
58 24.5 22.1 33.1

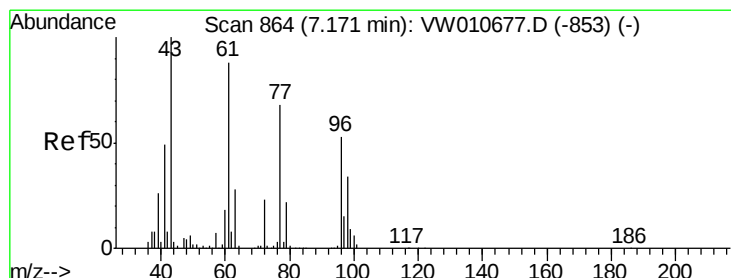
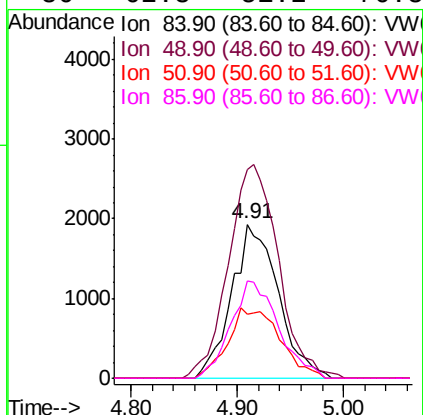
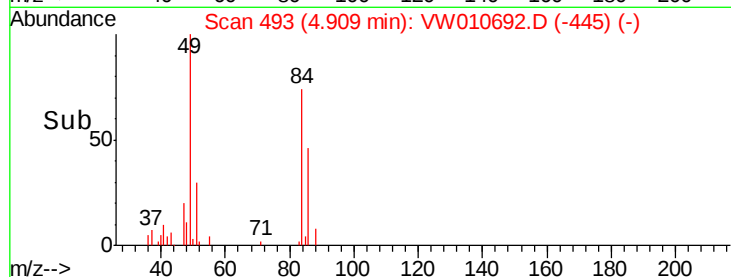
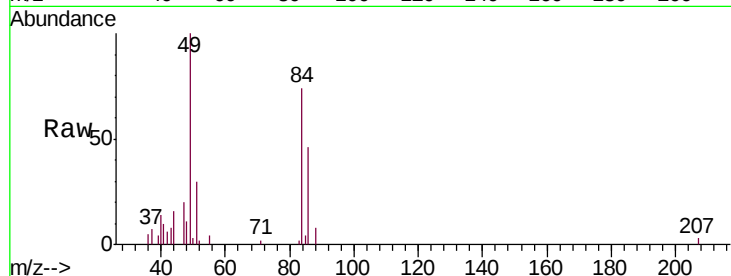




#20
Methylene Chloride
Concen: 2.578 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

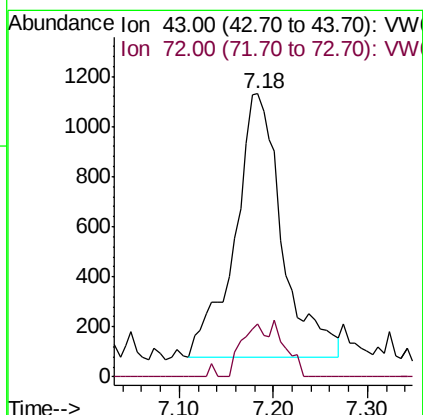
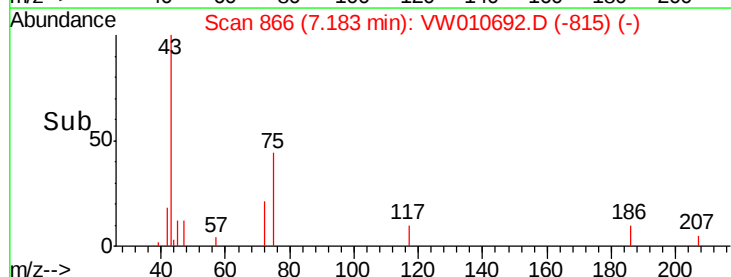
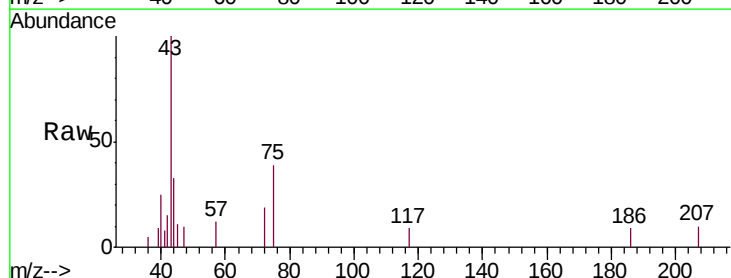
Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-BRE

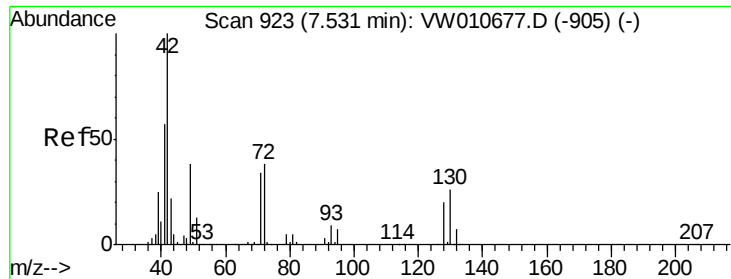
Tgt Ion: 84 Resp: 5899
Ion Ratio Lower Upper
84 100
49 133.1 116.7 175.1
51 41.4 34.2 51.2
86 62.8 51.2 76.8



#25
2-Butanone
Concen: 4.091 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

Tgt Ion: 43 Resp: 3700
Ion Ratio Lower Upper
43 100
72 20.2 18.1 27.1

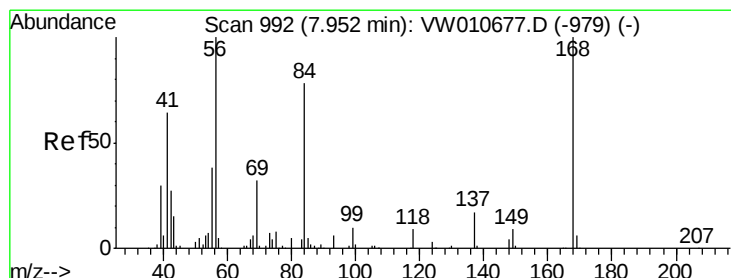
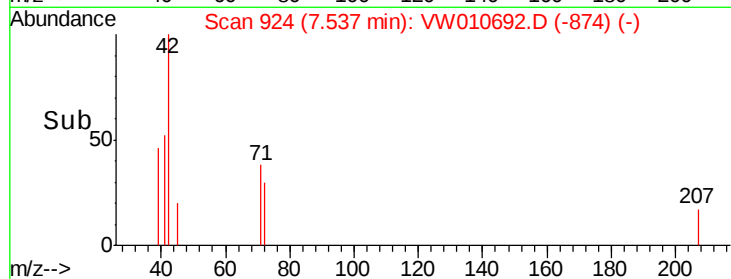
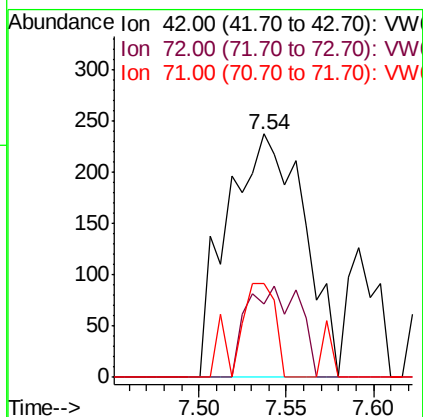
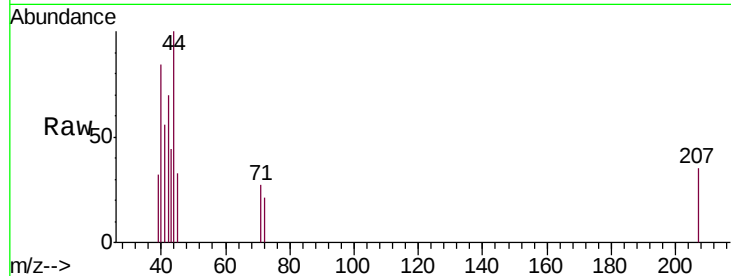




#29
Tetrahydrofuran
Concen: 1.280 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

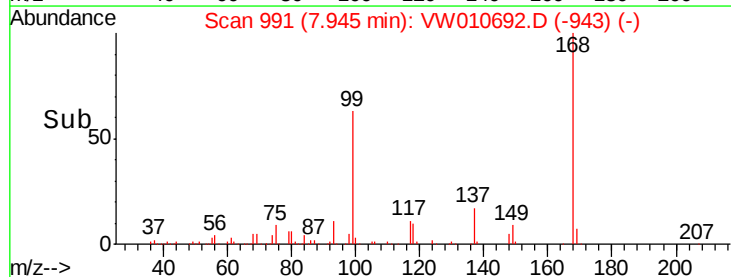
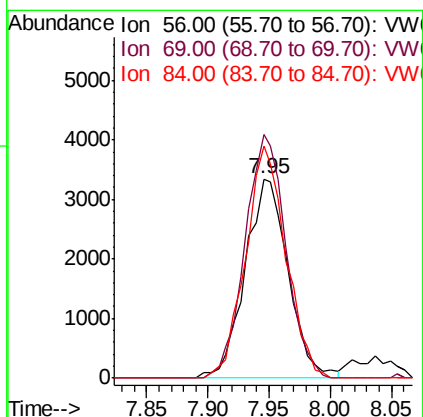
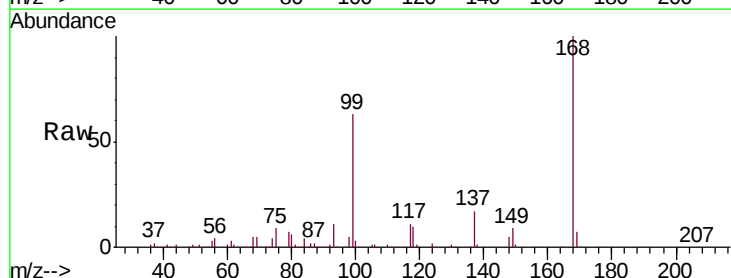
Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-BRE

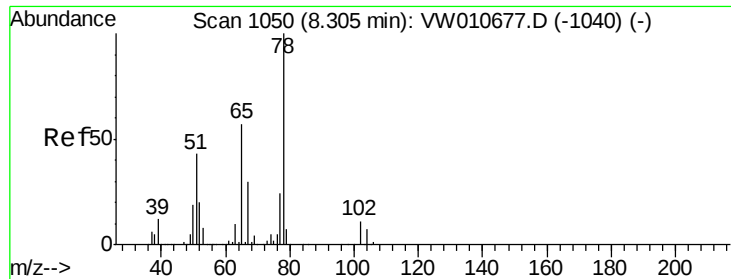
Tgt Ion: 42 Resp: 728
Ion Ratio Lower Upper
42 100
72 25.4 28.7 43.1#
71 18.7 26.6 39.8#



#31
Cyclohexane
Concen: 1.665 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

Tgt Ion: 56 Resp: 8176
Ion Ratio Lower Upper
56 100
69 122.2 25.2 37.8#
84 116.2 62.2 93.2#

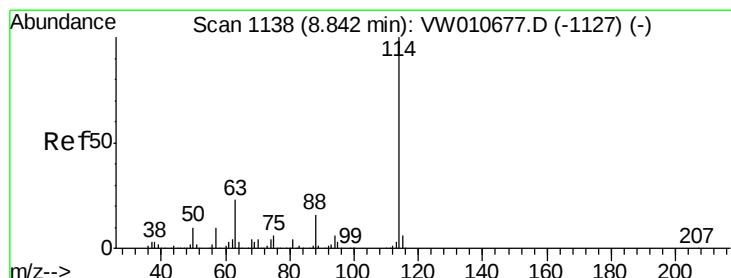
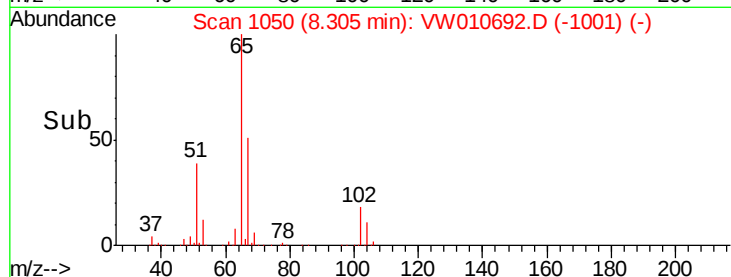
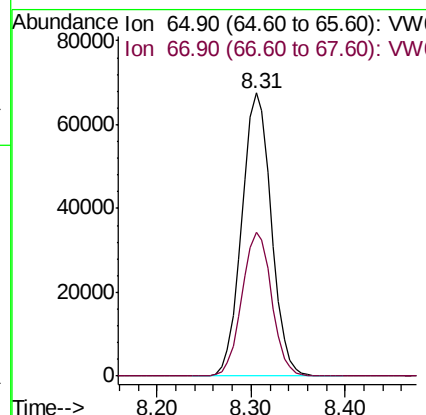
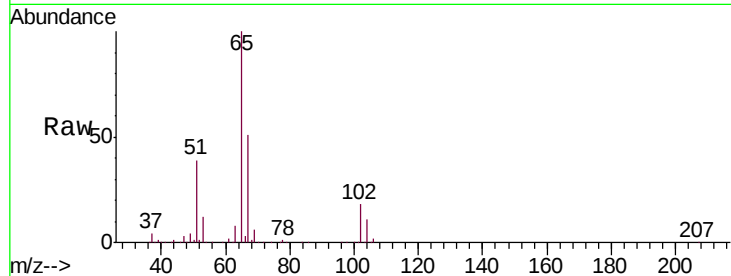




#33
 1,2-Dichloroethane-d4
 Concen: 60.856 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

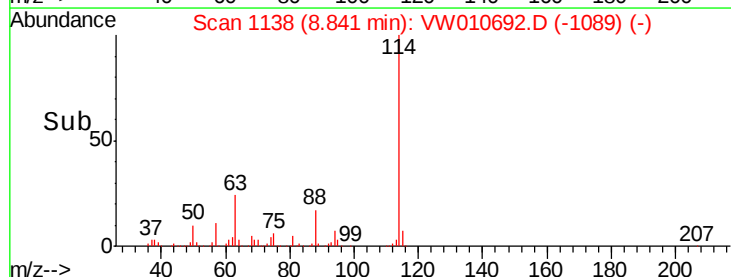
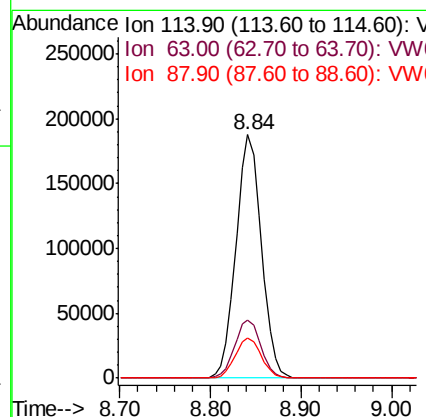
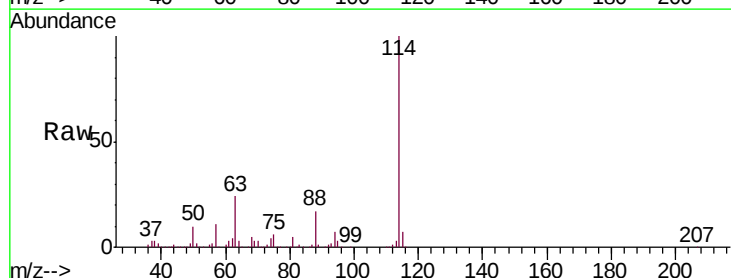
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 FK-SF-03-008-BRE

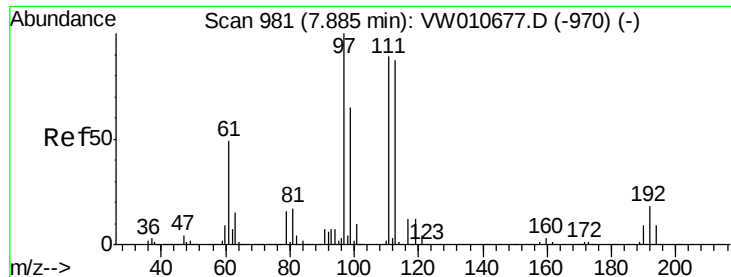
Tgt Ion: 65 Resp: 148127
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

Tgt Ion: 114 Resp: 365274
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 46.4
 88 16.6 0.0 32.2

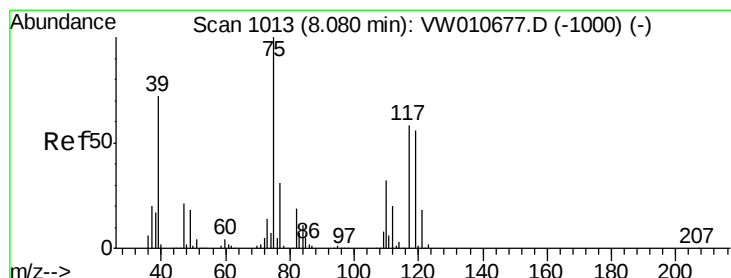
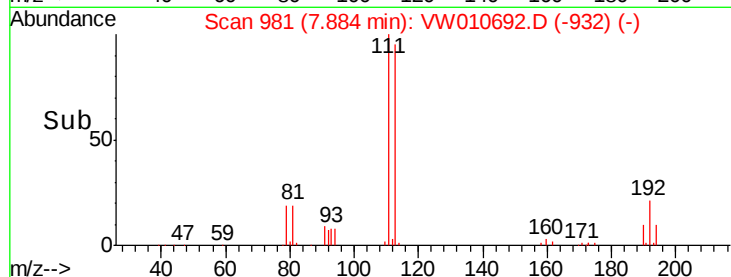
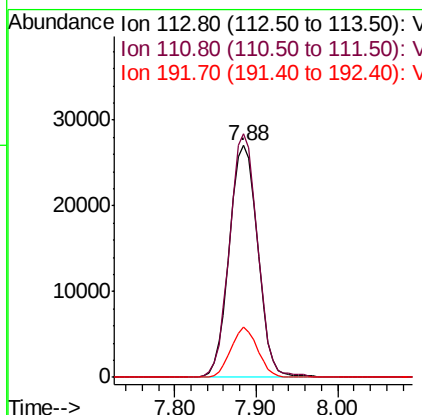
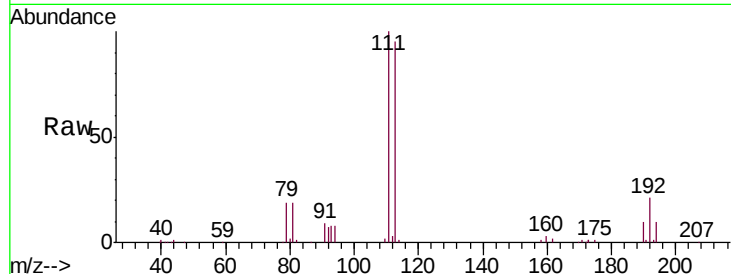




#35
 Dibromofluoromethane
 Concen: 32.861 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

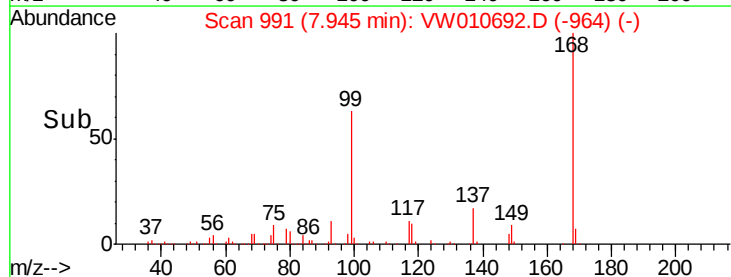
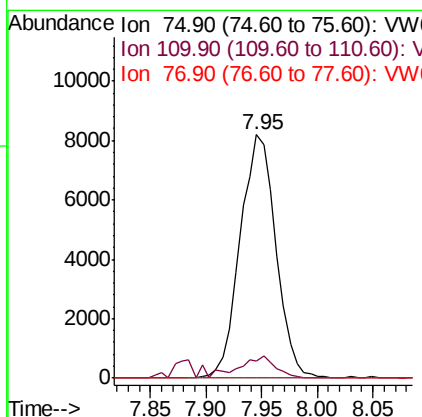
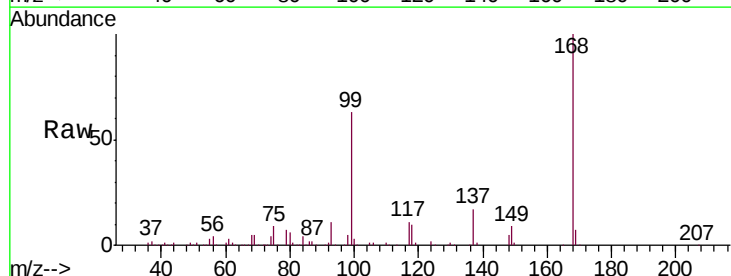
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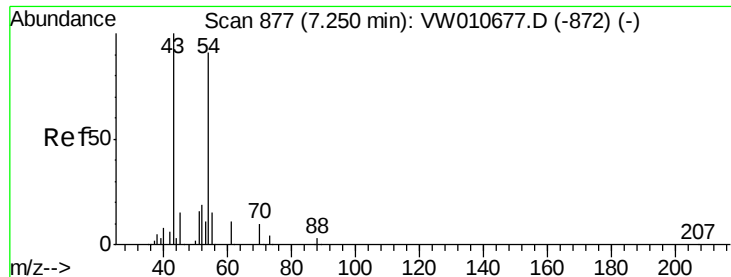
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.6	123.8
192	20.2	16.4	24.6



#36
 1,1-Dichloropropene
 Concen: 4.895 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	15.8	47.3#
77	0.0	24.7	37.1#

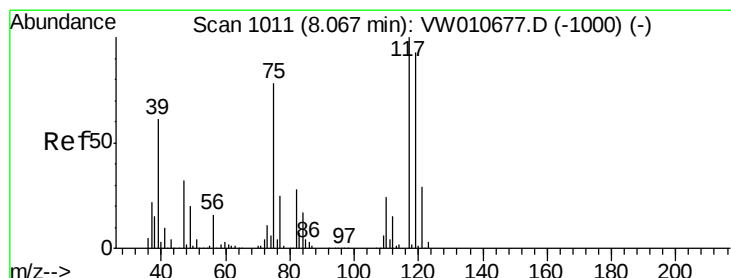
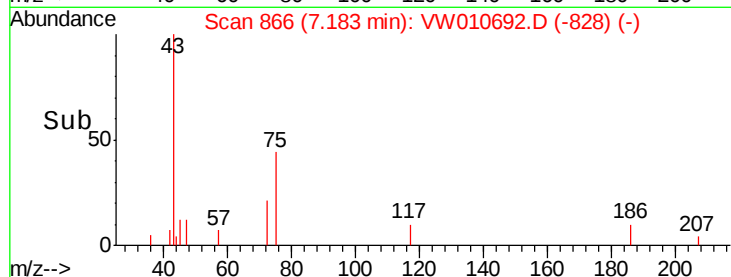
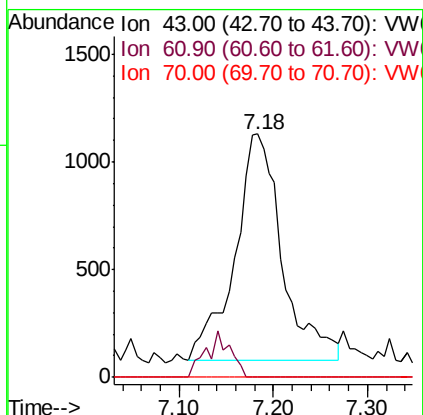
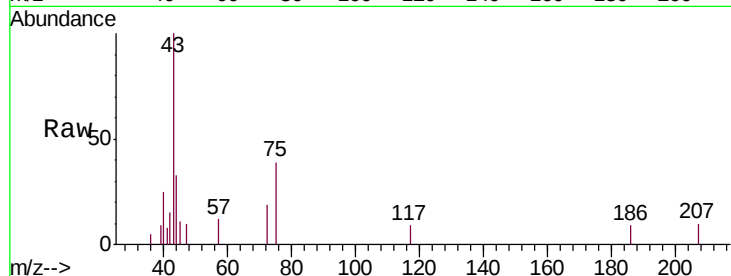




#37
 Ethyl Acetate
 Concen: 1.786 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. -0.07 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

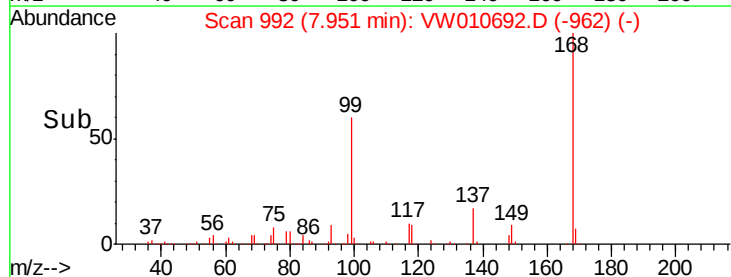
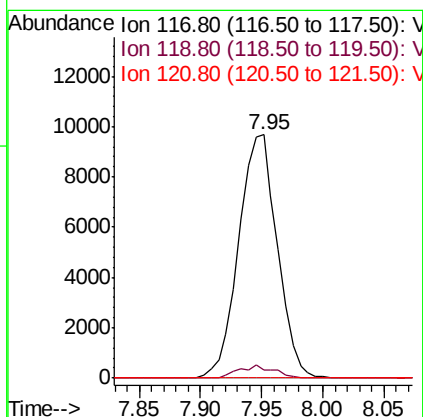
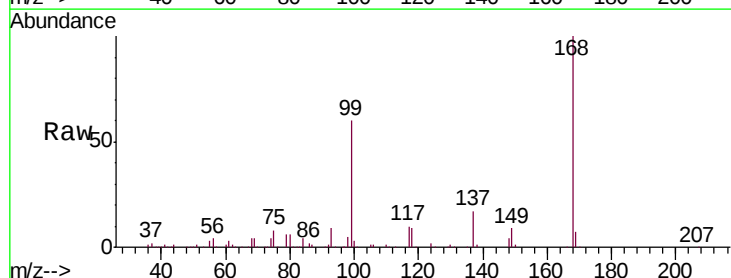
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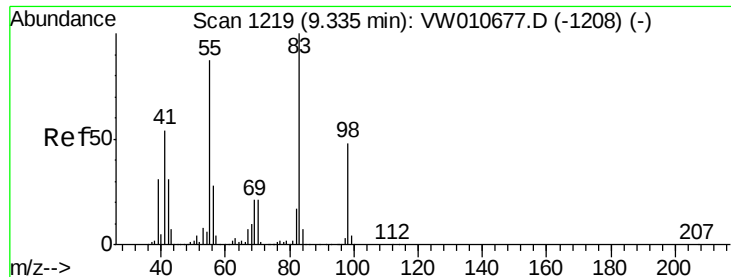
Tgt Ion: 43 Resp: 3700
 Ion Ratio Lower Upper
 43 100
 61 0.0 9.7 14.5#
 70 0.0 7.2 10.8#



#38
 Carbon Tetrachloride
 Concen: 6.561 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

Tgt Ion: 117 Resp: 21177
 Ion Ratio Lower Upper
 117 100
 119 3.5 74.2 111.4#
 121 0.0 22.9 34.3#

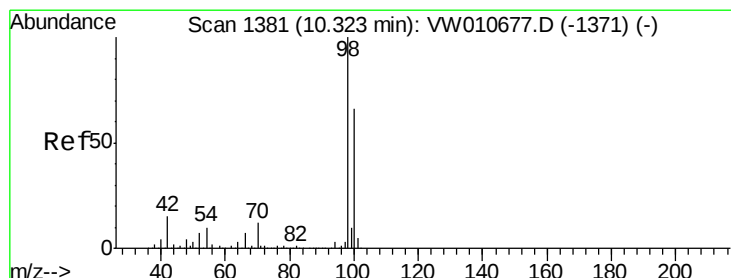
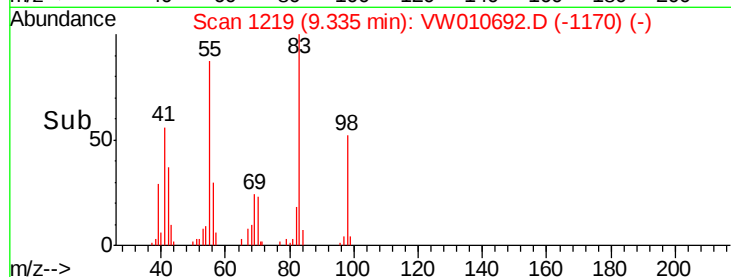
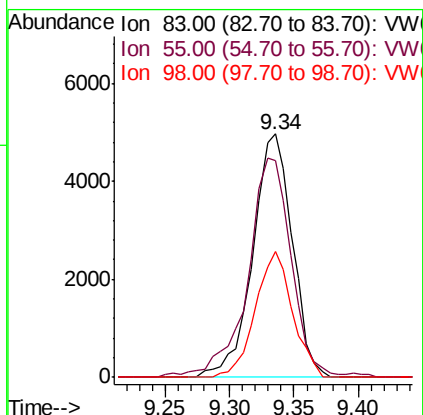
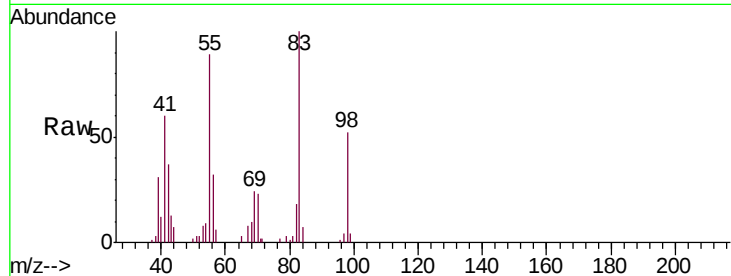




#39
Methylcyclohexane
Concen: 2.223 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

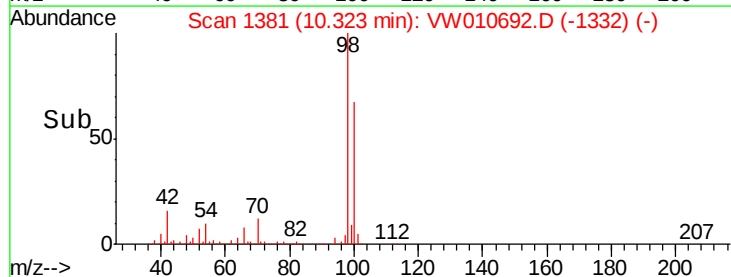
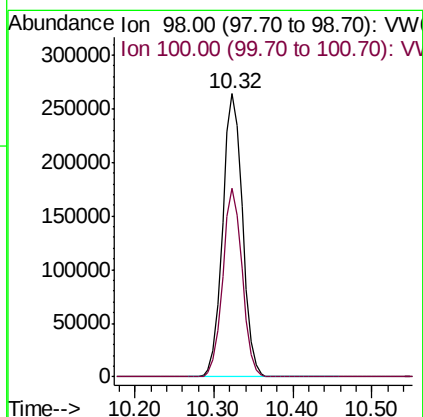
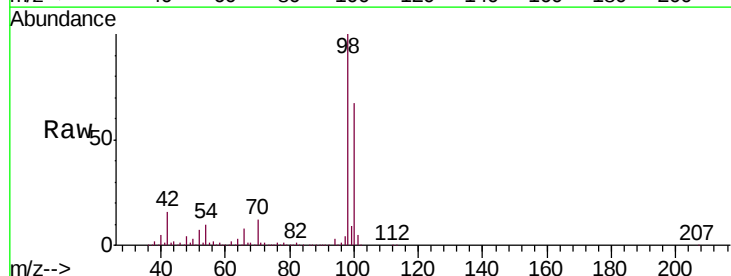
Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-BRE

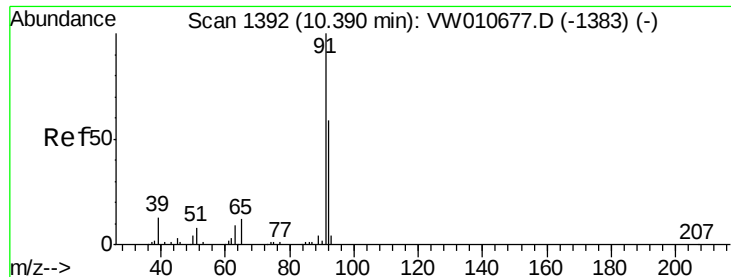
Tgt Ion: 83 Resp: 10566
Ion Ratio Lower Upper
83 100
55 87.4 70.0 105.0
98 51.5 38.1 57.1



#50
Toluene-d8
Concen: 53.101 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

Tgt Ion: 98 Resp: 461665
Ion Ratio Lower Upper
98 100
100 64.9 53.0 79.6





#52

Toluene

Concen: 1.368 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010692.D

Acq: 05 Jun 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

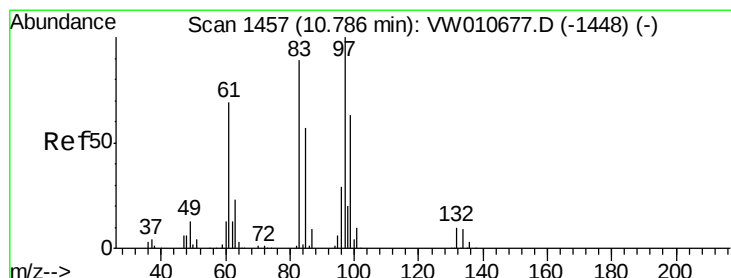
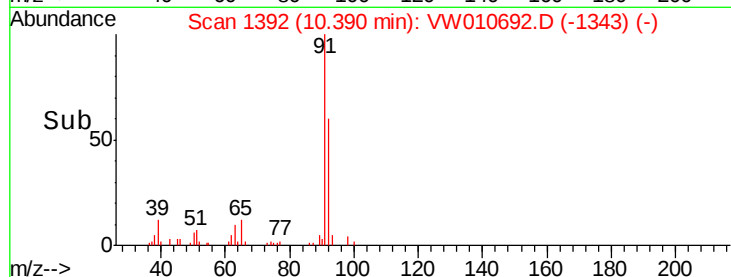
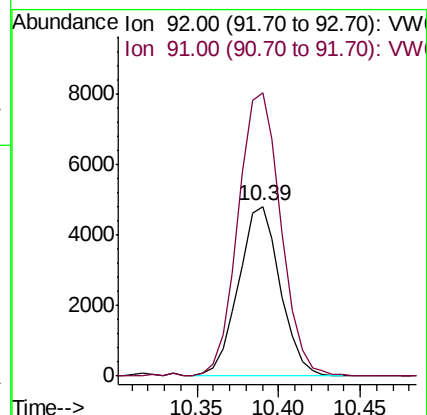
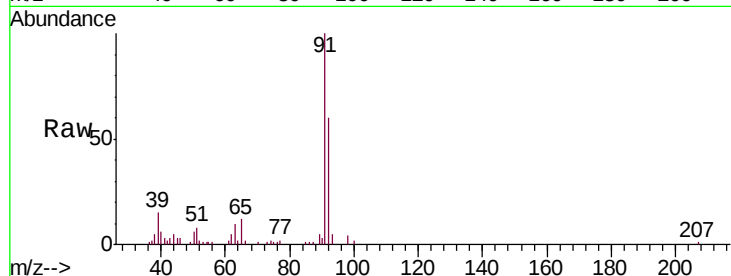
FK-SF-03-008-BRE

Tgt Ion: 92 Resp: 8586

Ion Ratio Lower Upper

92 100

91 170.8 134.9 202.3



#55

1,1,2-Trichloroethane

Concen: 1.354 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW010692.D

Acq: 05 Jun 2019 15:10

Tgt Ion: 97 Resp: 2447

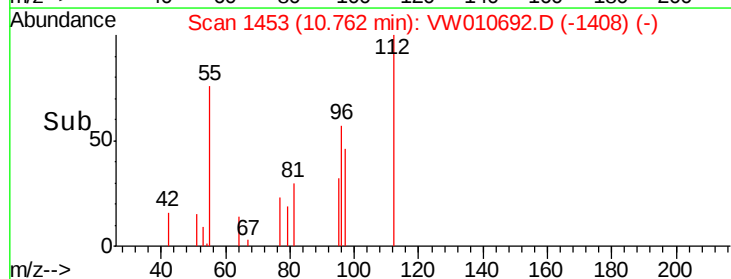
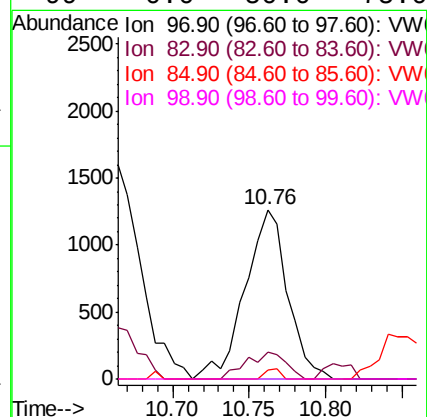
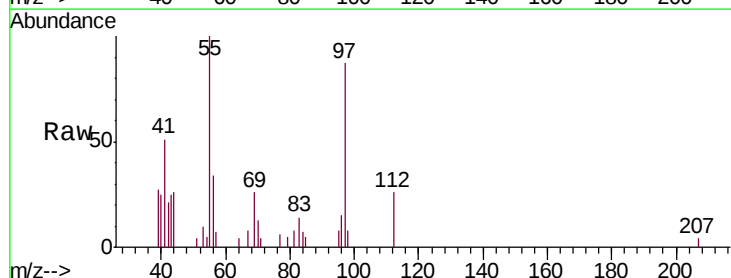
Ion Ratio Lower Upper

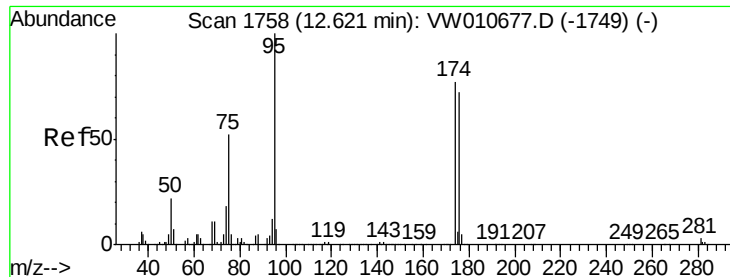
97 100

83 15.9 71.1 106.7#

85 5.6 45.2 67.8#

99 0.0 50.0 75.0#





#62

4-Bromofluorobenzene

Concen: 44.455 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010692.D

Acq: 05 Jun 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-03-008-BRE

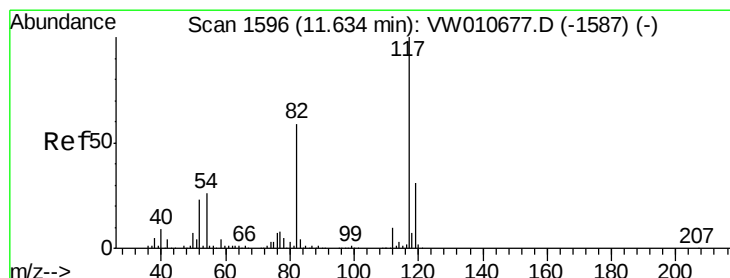
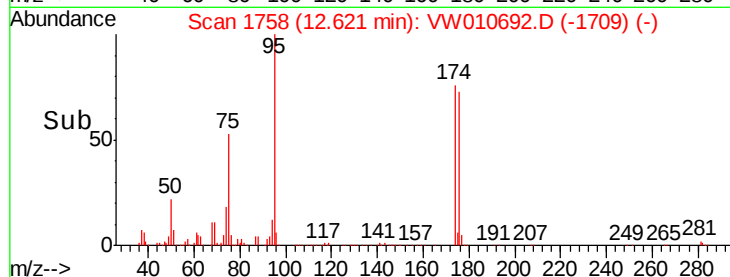
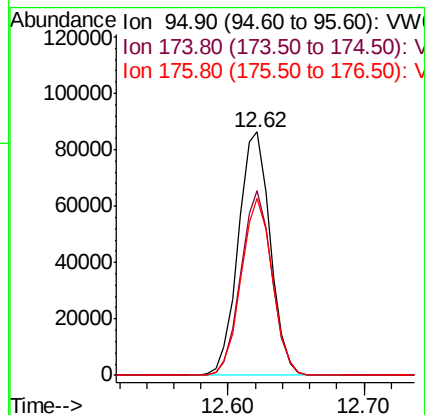
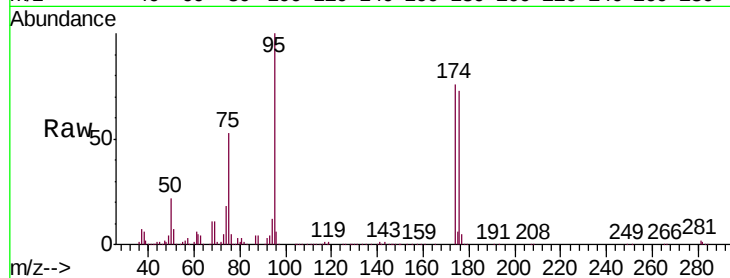
Tgt Ion: 95 Resp: 140639

Ion Ratio Lower Upper

95 100

174 73.9 0.0 150.4

176 71.5 0.0 144.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW010692.D

Acq: 05 Jun 2019 15:10

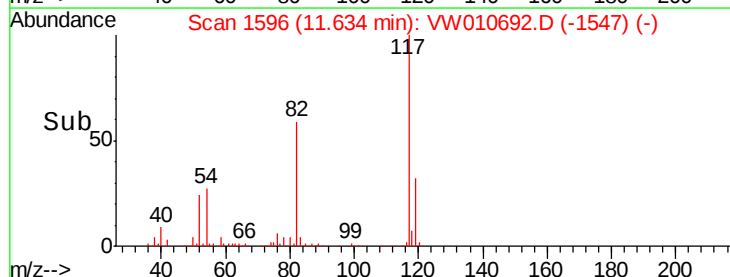
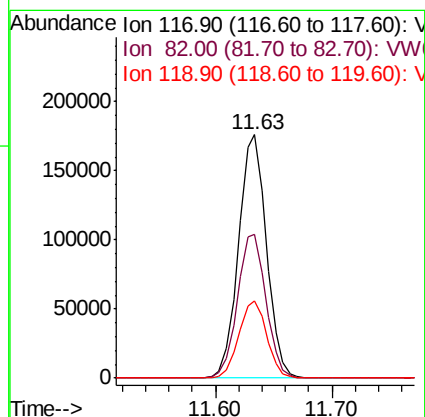
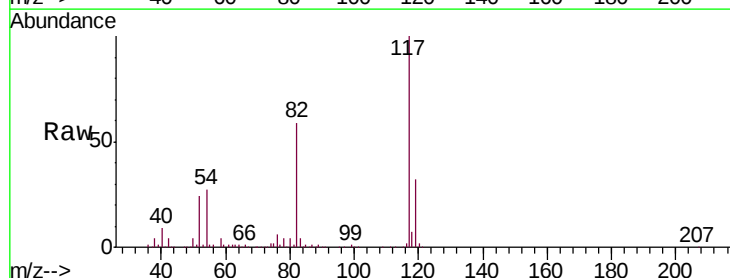
Tgt Ion: 117 Resp: 294471

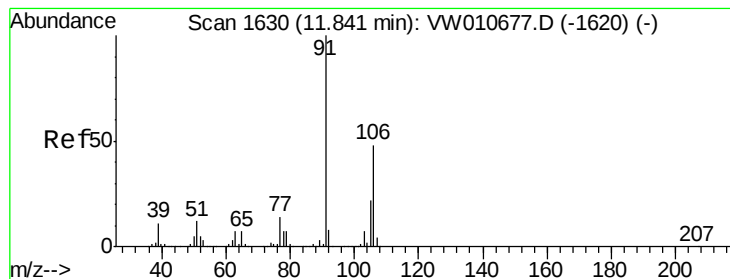
Ion Ratio Lower Upper

117 100

82 59.0 47.0 70.4

119 31.5 25.1 37.7





#68

m/p-Xylenes

Concen: 3.107 ug/l

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW010692.D

Acq: 05 Jun 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

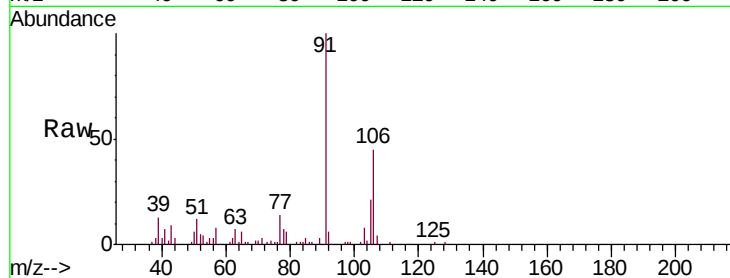
FK-SF-03-008-BRE

Tgt Ion:106 Resp: 12376

Ion Ratio Lower Upper

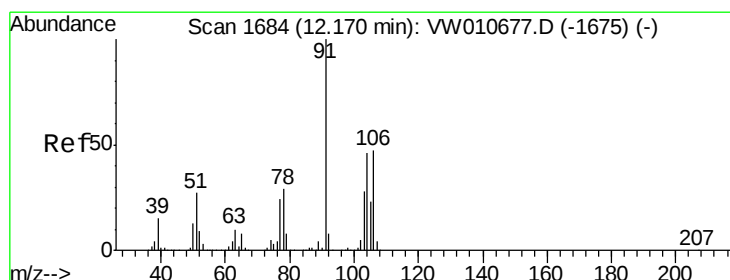
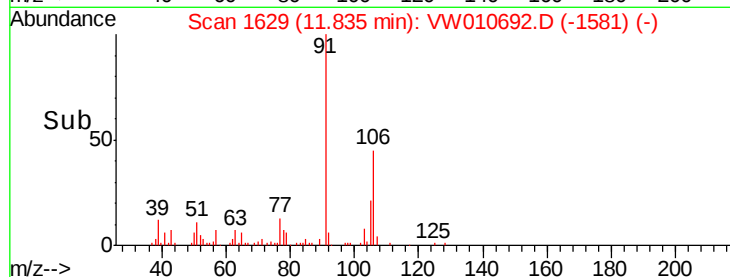
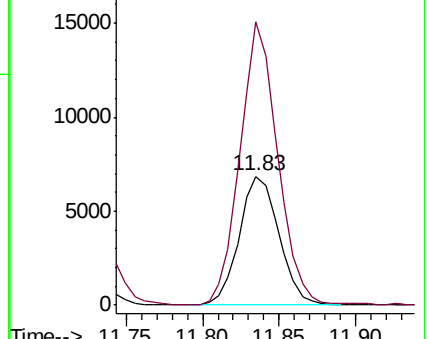
106 100

91 207.6 166.5 249.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#69

o-Xylene

Concen: 2.052 ug/l

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW010692.D

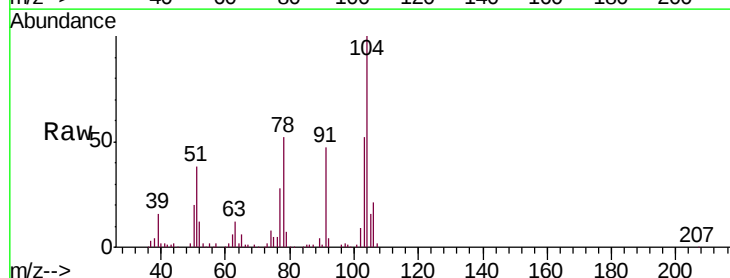
Acq: 05 Jun 2019 15:10

Tgt Ion:106 Resp: 7752

Ion Ratio Lower Upper

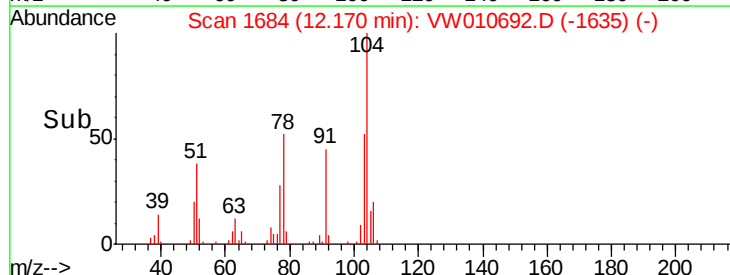
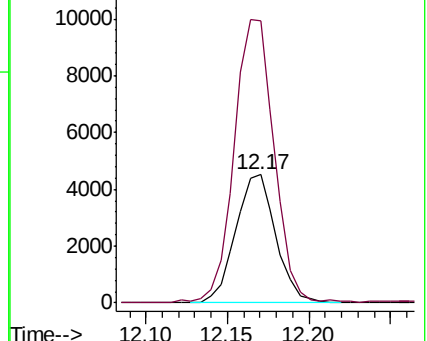
106 100

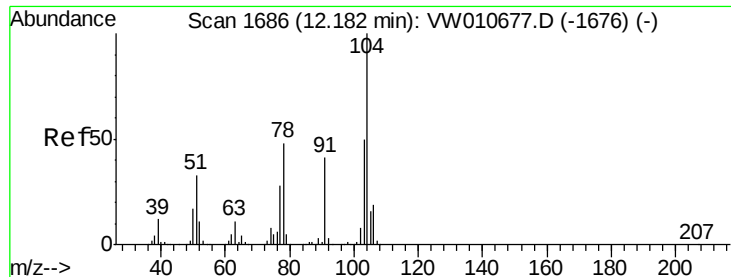
91 219.3 108.9 326.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

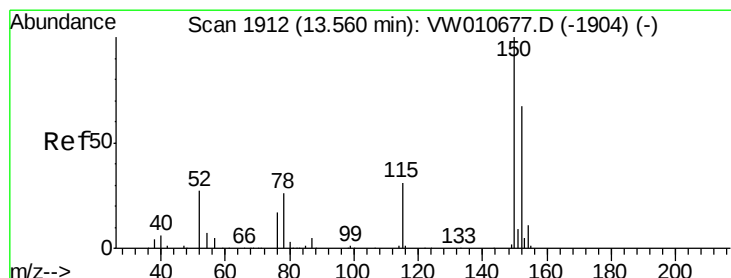
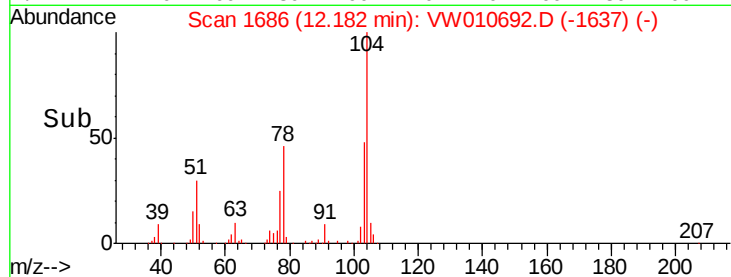
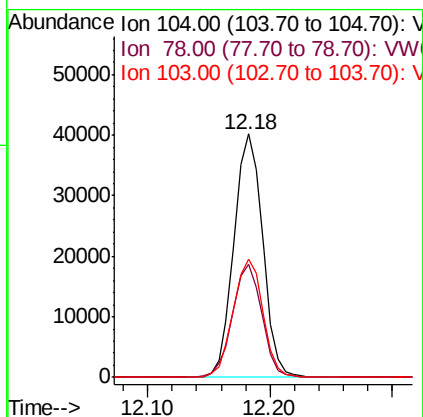
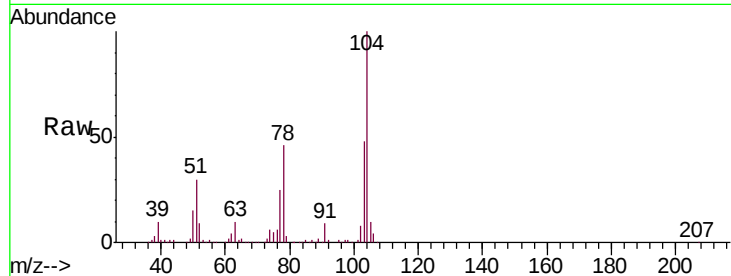




#70
Styrene
Concen: 9.962 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

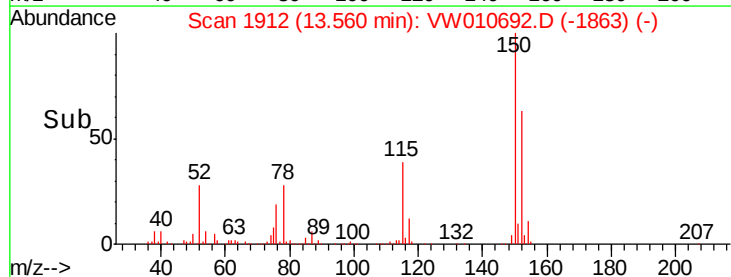
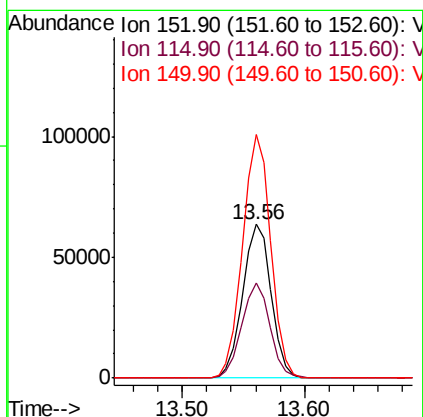
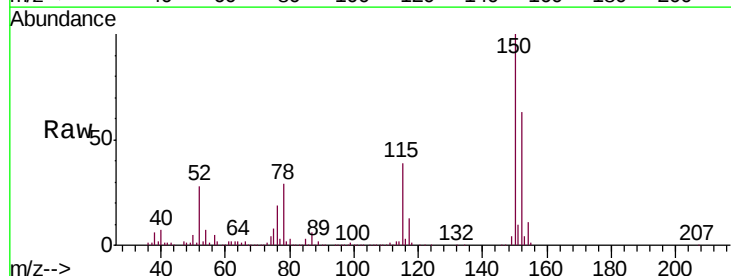
Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-BRE

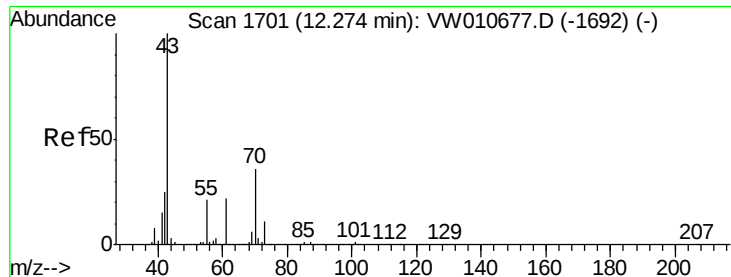
Tgt Ion:104 Resp: 65385
Ion Ratio Lower Upper
104 100
78 47.3 42.7 64.1
103 50.0 43.6 65.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

Tgt Ion:152 Resp: 102545
Ion Ratio Lower Upper
152 100
115 60.6 29.8 89.3
150 156.5 0.0 345.0





#74

N-amyI acetate

Concen: 1.727 ug/l

RT: 12.24 min Scan# 1696

Delta R.T. -0.03 min

Lab File: VW010692.D

Acq: 05 Jun 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

FK-SF-03-008-BRE

Tgt Ion: 43 Resp: 4301

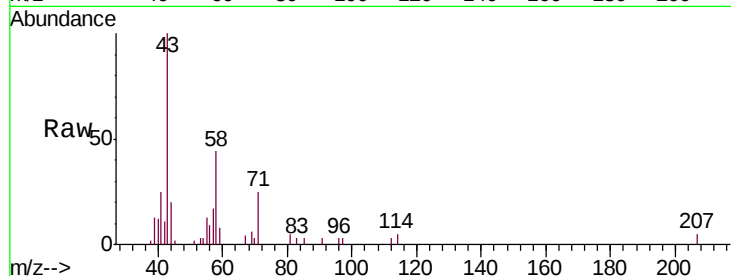
Ion Ratio Lower Upper

43 100

70 4.0 29.2 43.8#

55 9.3 17.5 26.3#

61 0.0 17.4 26.2#

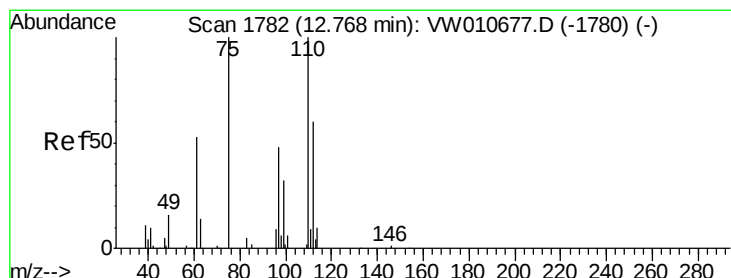
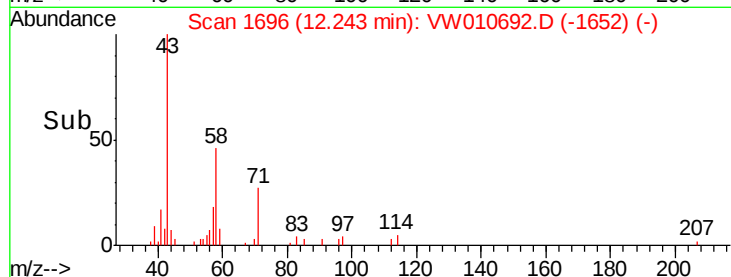
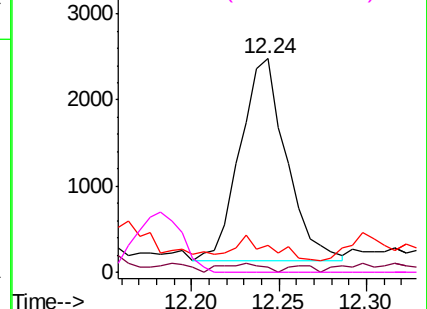


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 71.107 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010692.D

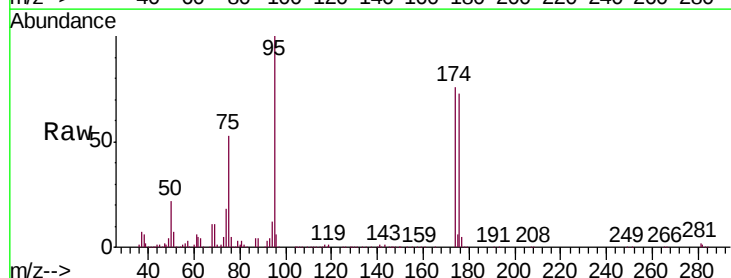
Acq: 05 Jun 2019 15:10

Tgt Ion: 75 Resp: 76572

Ion Ratio Lower Upper

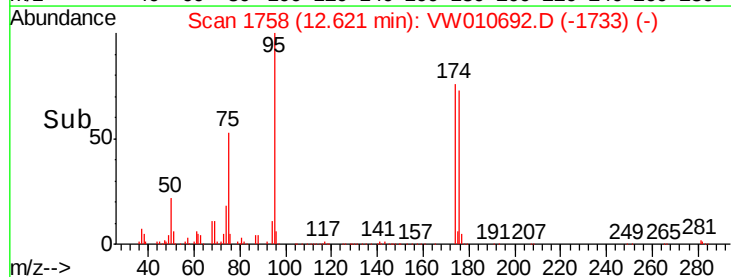
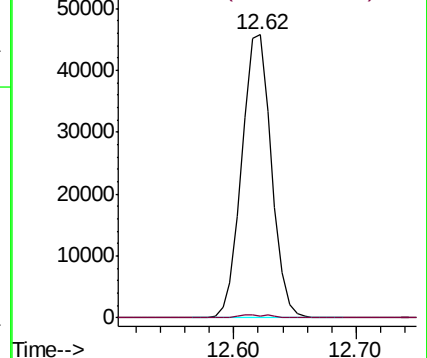
75 100

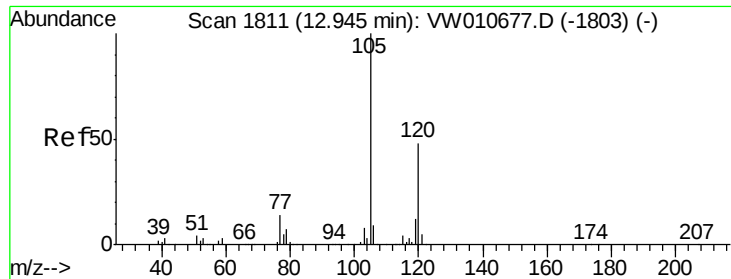
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

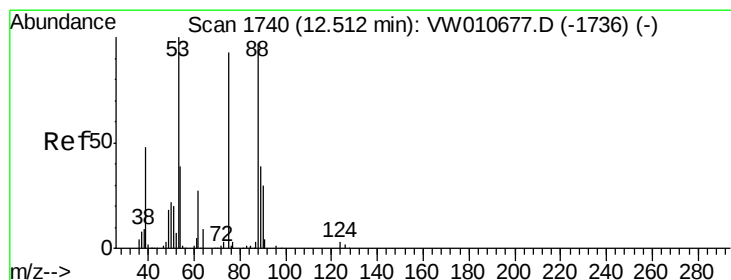
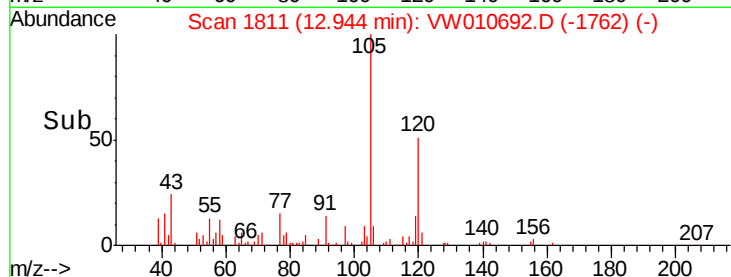
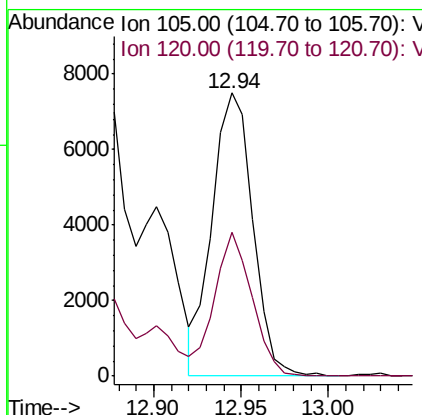
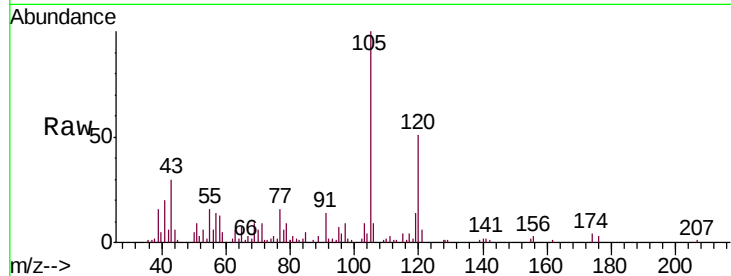




#80
 1,3,5-Trimethylbenzene
 Concen: 1.927 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

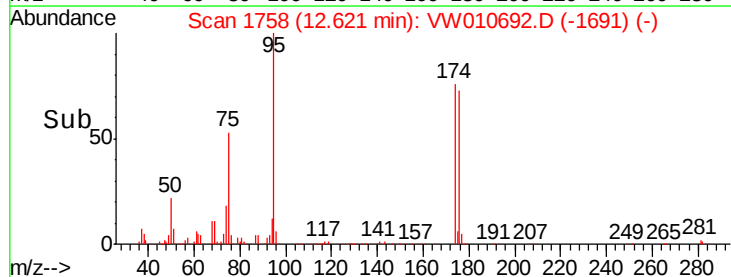
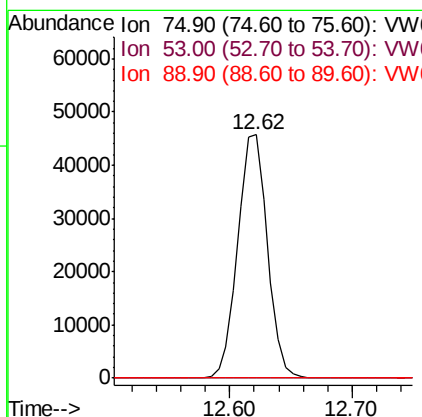
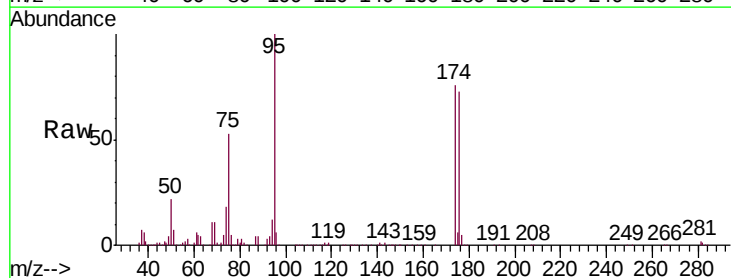
Instrument :
 MSVOA_W
 ClientSampleId :
 FK-SF-03-008-BRE

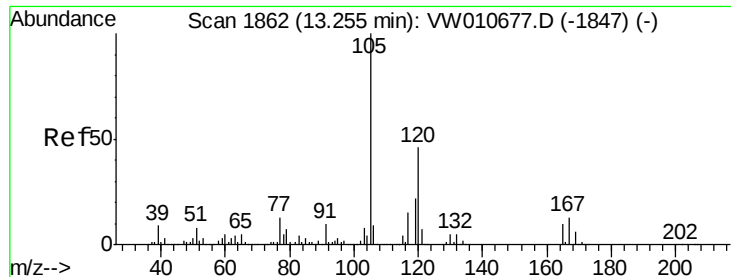
Tgt Ion:105 Resp: 12157
 Ion Ratio Lower Upper
 105 100
 120 46.8 24.3 72.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 163.426 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

Tgt Ion: 75 Resp: 76572
 Ion Ratio Lower Upper
 75 100
 53 0.1 90.1 135.1#
 89 0.0 34.6 52.0#

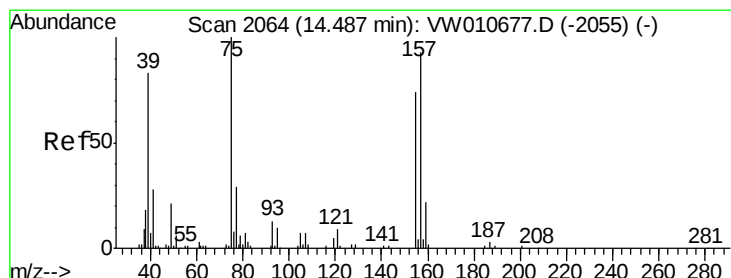
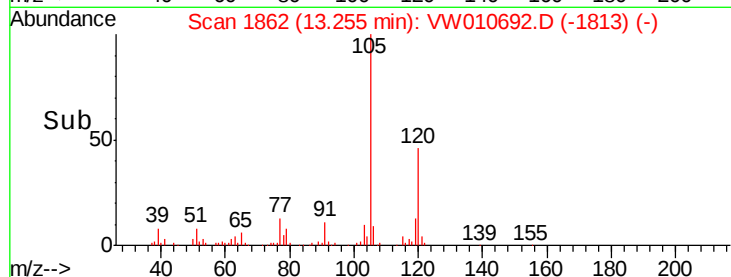
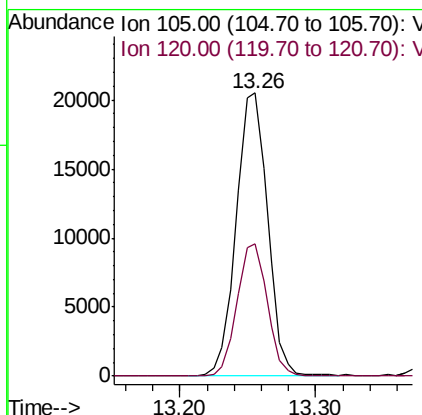
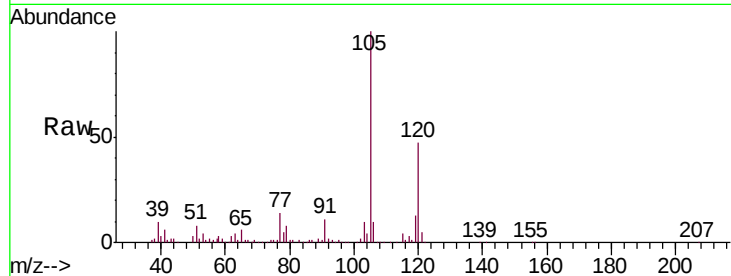




#84
 1,2,4-Trimethylbenzene
 Concen: 5.205 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

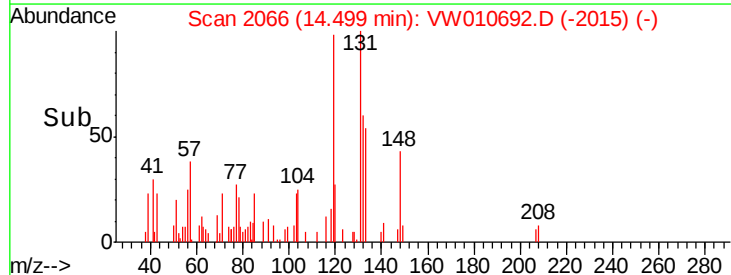
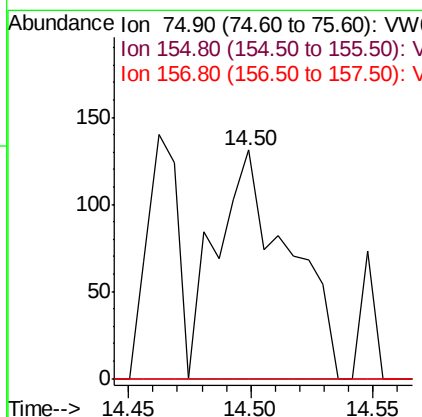
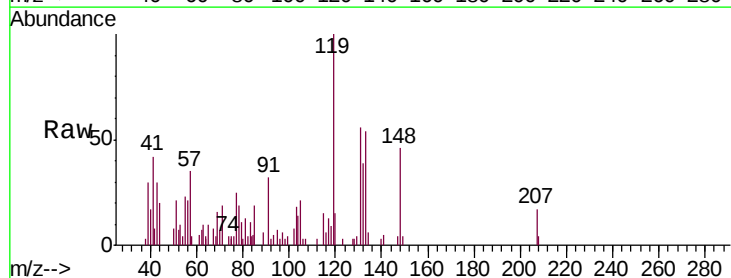
Instrument :
 MSVOA_W
 ClientSampleId :
 FK-SF-03-008-BRE

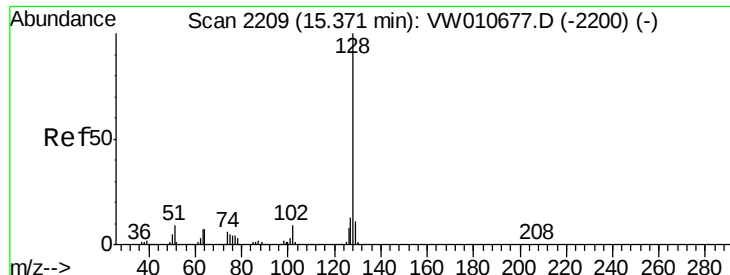
Tgt Ion: 105 Resp: 33035
 Ion Ratio Lower Upper
 105 100
 120 44.9 22.5 67.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.068 ug/l
 RT: 14.50 min Scan# 2066
 Delta R.T. 0.01 min
 Lab File: VW010692.D
 Acq: 05 Jun 2019 15:10

Tgt Ion: 75 Resp: 269
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.8 116.4#
 157 0.0 48.4 145.0#

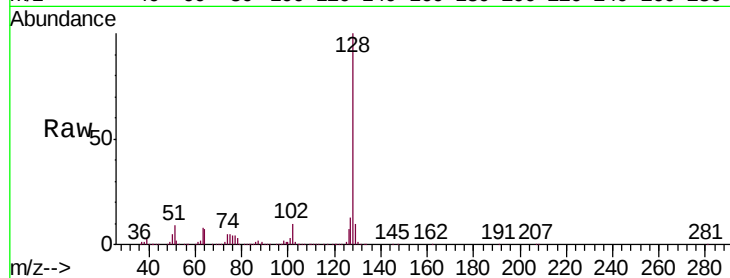




#95
Naphthalene
Concen: 61.593 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010692.D
Acq: 05 Jun 2019 15:10

Instrument :
MSVOA_W
ClientSampleId :
FK-SF-03-008-BRE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	15.8
129	10.9	8.6	13.0



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

