

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052819\
 Data File : VX009920.D
 Acq On : 28 May 2019 17:20
 Operator : JC/SP
 Sample : K3036-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FEQC-FB-052319

Quant Time: May 29 04:11:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	178893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	285103	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112258	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	119431	47.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.52%	
35) Dibromofluoromethane	5.50	113	87535	48.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.68%	
50) Toluene-d8	8.71	98	363445	49.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.86%	
62) 4-Bromofluorobenzene	11.13	95	124293	47.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.08%	

Target Compounds

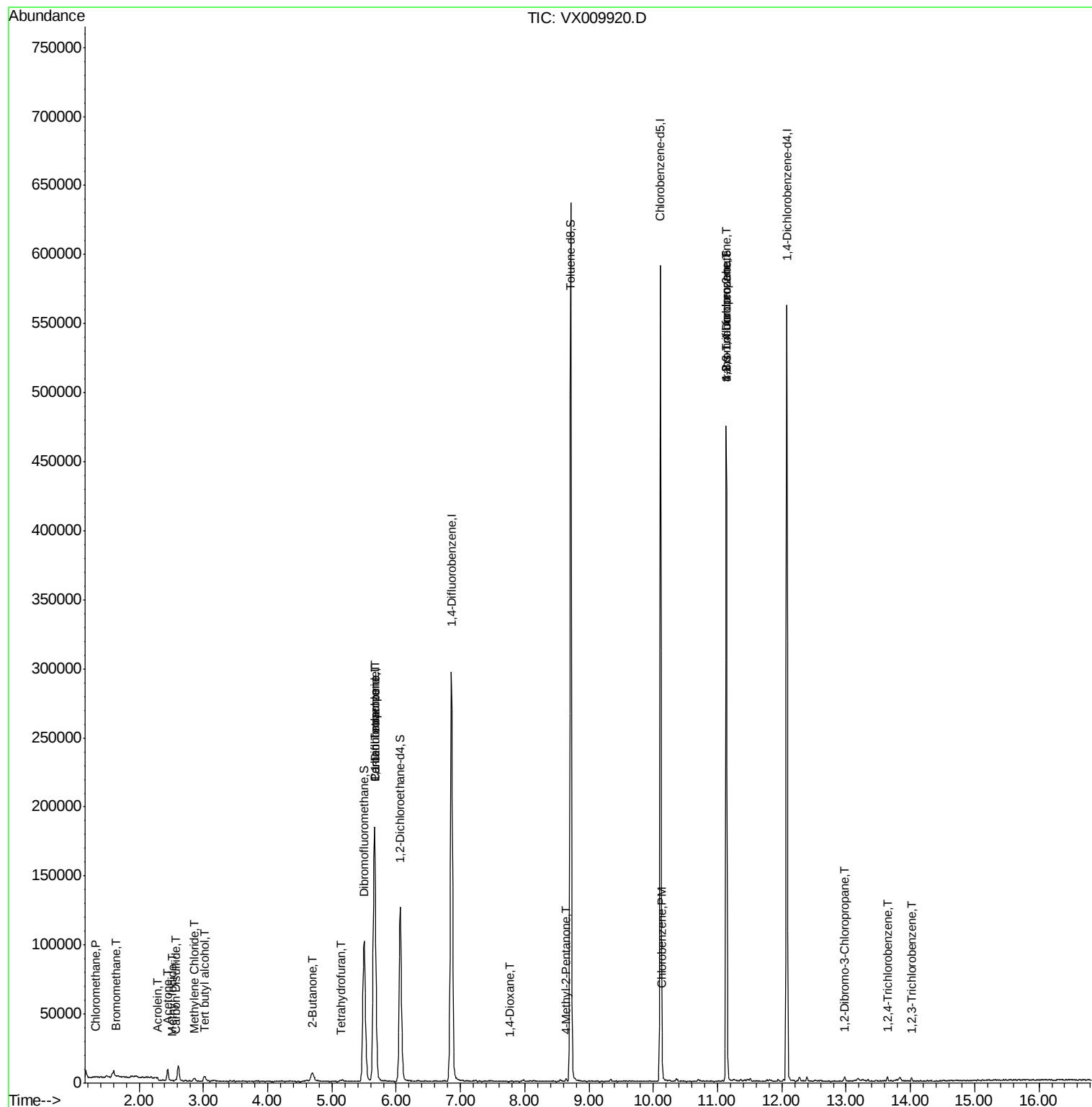
					Qvalue	
3) Chloromethane	1.33	50	720	0.245	ug/l	# 65
5) Bromomethane	1.65	94	679	0.423	ug/l	83
10) Methyl Iodide	2.52	142	419	4.830	ug/l	# 79
11) Tert butyl alcohol	3.03	59	2433	3.912	ug/l	# 92
13) Acrolein	2.29	56	330	21.782	ug/l	# 81
16) Acetone	2.45	43	9612	6.583	ug/l	95
17) Carbon Disulfide	2.57	76	1384	0.635	ug/l	# 94
20) Methylene Chloride	2.85	84	1002	0.448	ug/l	# 82
25) 2-Butanone	4.69	43	2393	1.052	ug/l	# 83
29) Tetrahydrofuran	5.15	42	1106	0.758	ug/l	# 81
36) 1,1-Dichloropropene	5.66	75	14234	4.921	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	17071	6.829	ug/l	# 14
49) 1,4-Dioxane	7.77	88	40	0.668	ug/l	# 7
51) 4-Methyl-2-Pentanone	8.64	43	1183	0.280	ug/l	89
65) Chlorobenzene	10.14	112	2078	0.386	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	65094	24.249	ug/l	# 34
81) trans-1,4-Dichloro-2-buten	11.13	75	65094	59.995	ug/l	# 10
92) 1,2-Dibromo-3-Chloropropan	12.98	75	657	0.903	ug/l	# 4
93) 1,2,4-Trichlorobenzene	13.65	180	578	0.218	ug/l	98
96) 1,2,3-Trichlorobenzene	14.02	180	549	0.207	ug/l	88

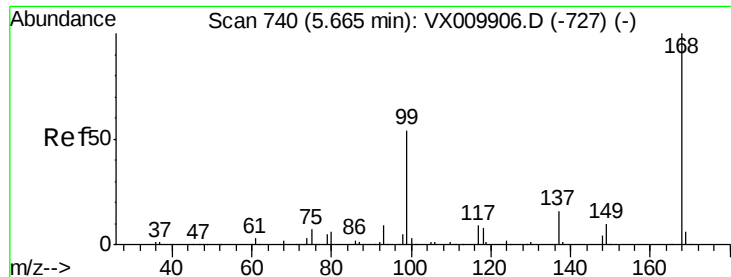
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed May 29 04:00:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

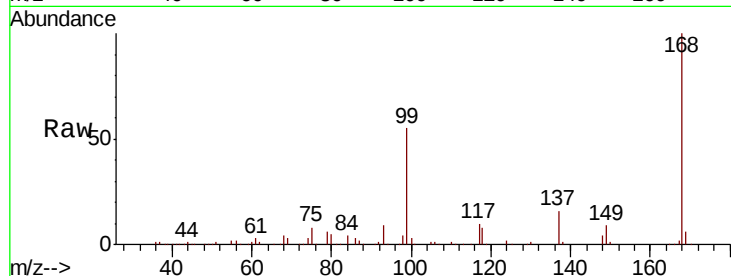
FEQC-FB-052319

Tot Ion:168 Resp: 178893

Ion Ratio Lower Upper

168 100

99 54.8 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

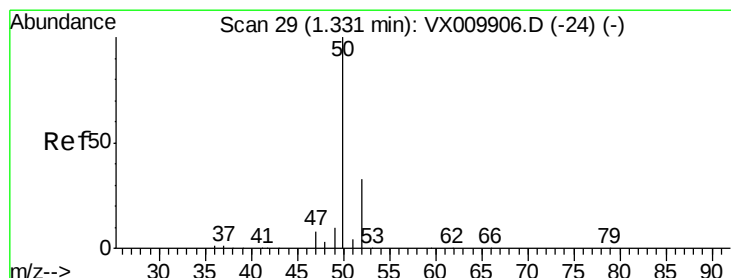
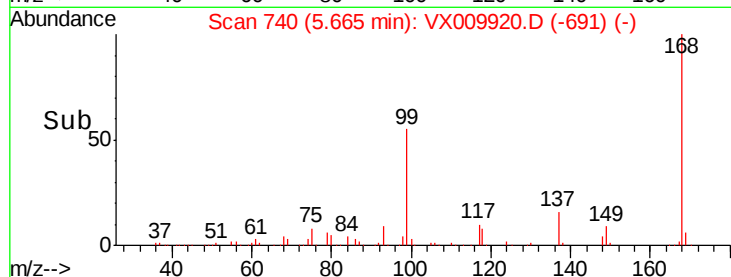
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.245 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX009920.D

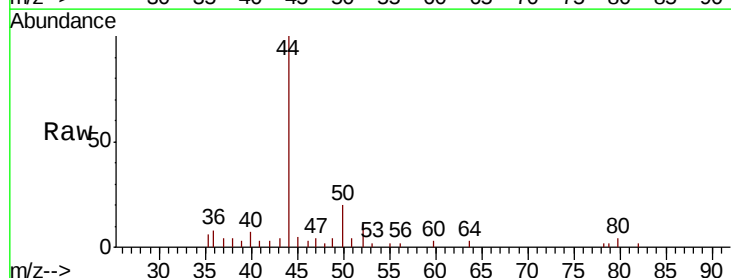
Acq: 28 May 2019 17:20

Tgt Ion: 50 Resp: 720

Ion Ratio Lower Upper

50 100

52 52.4 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

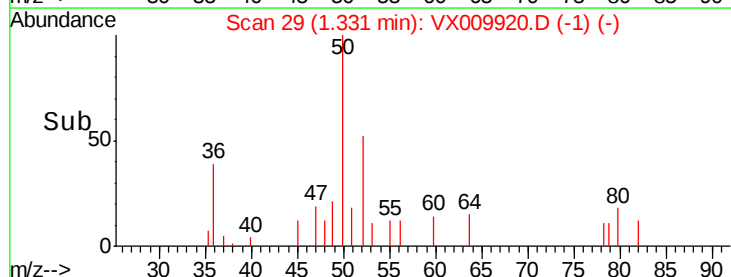
300

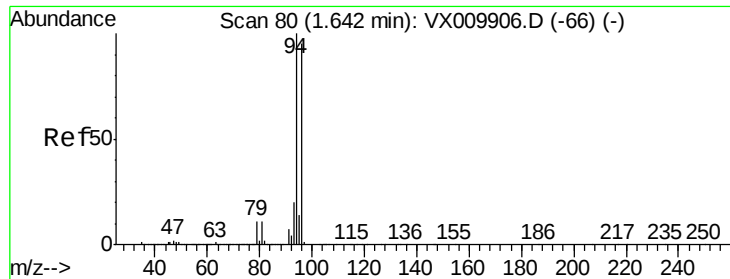
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.423 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

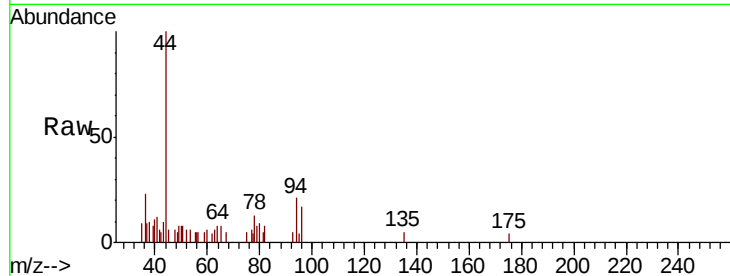
FEQC-FB-052319

Tot Ion: 94 Resp: 679

Ion Ratio Lower Upper

94 100

96 78.5 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

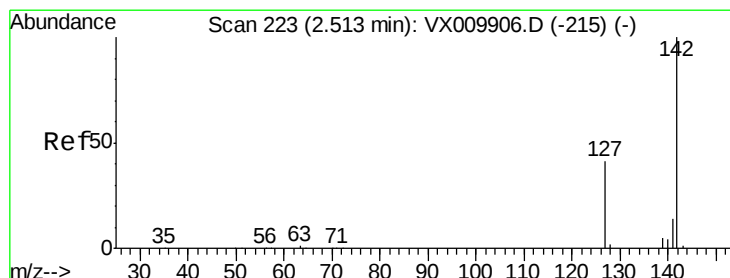
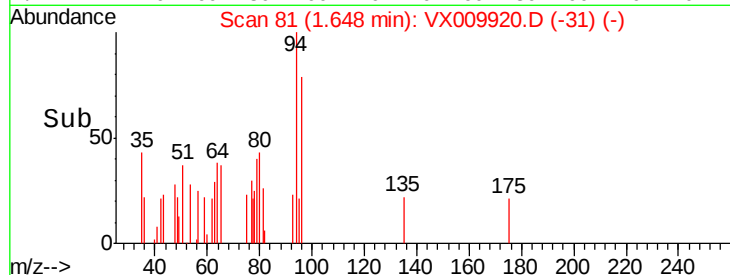
100

50

0

1.60 1.65 1.70 1.75

Time-->



#10

Methyl Iodide

Concen: 4.830 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

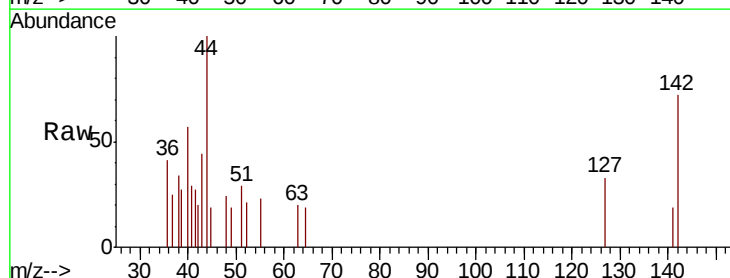
Tgt Ion: 142 Resp: 419

Ion Ratio Lower Upper

142 100

127 53.9 33.0 49.4#

141 4.5 11.4 17.0#



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

250

200

150

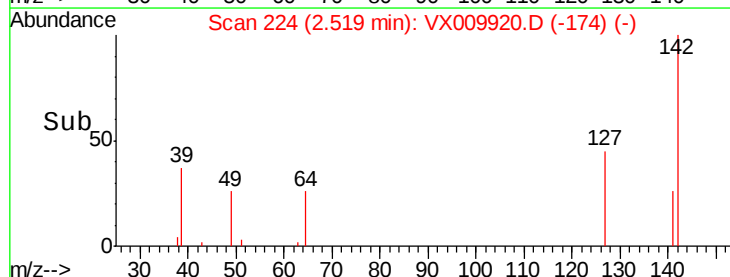
100

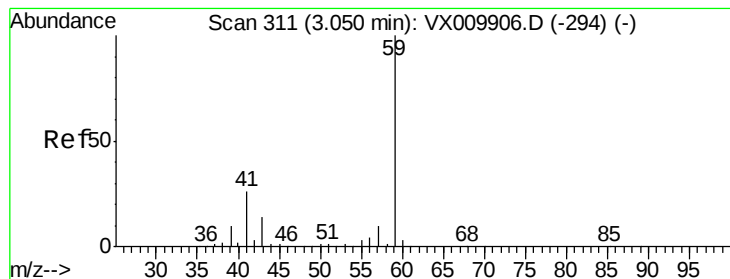
50

0

2.45 2.50 2.55

Time-->



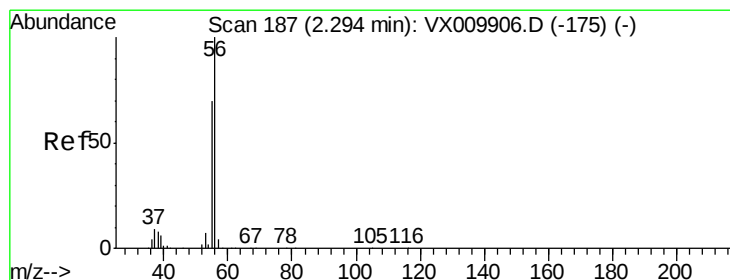
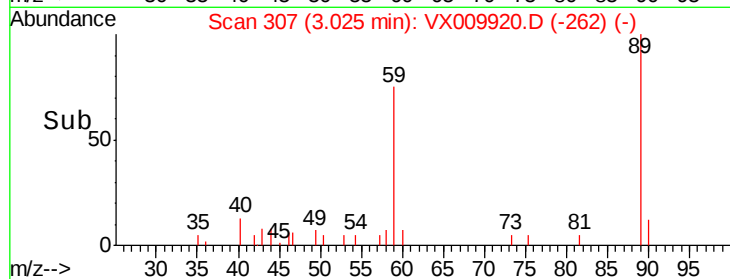
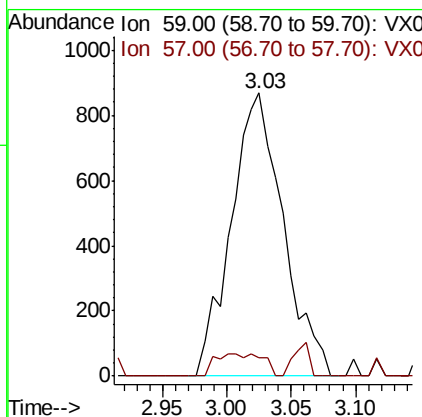
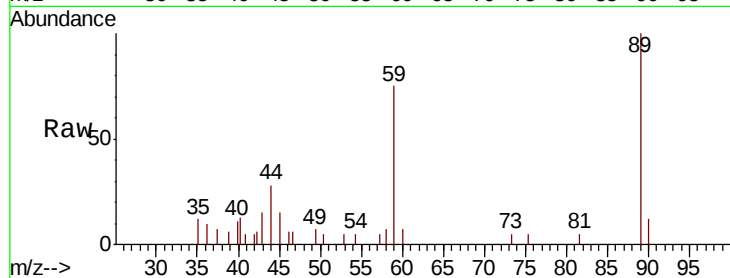


#11

Tert butyl alcohol
 Concen: 3.912 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.02 min
 Lab File: VX009920.D
 Acq: 28 May 2019 17:20

Instrument :
 MSVOA_X
 ClientSampleId :
 FEQC-FB-052319

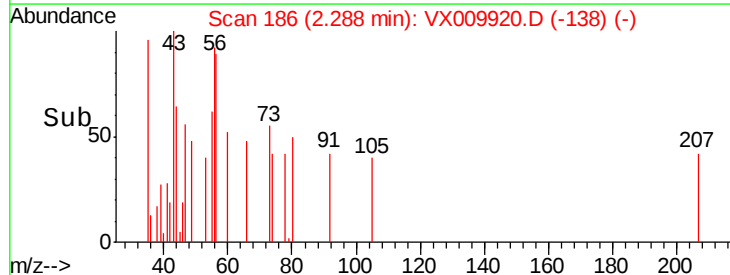
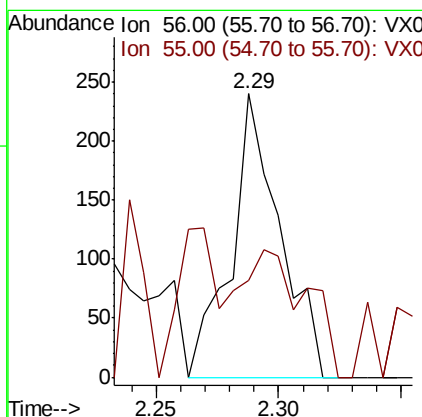
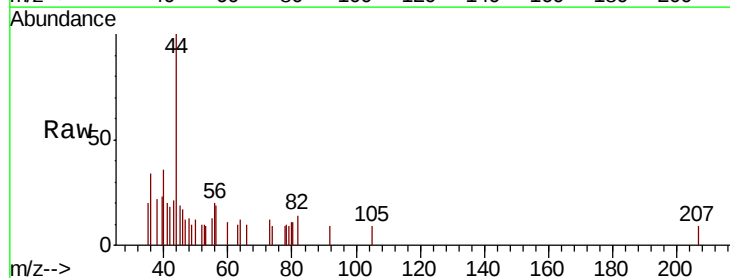
Tot Ion: 59 Resp: 2433
 Ion Ratio Lower Upper
 59 100
 57 7.4 8.2 12.2#

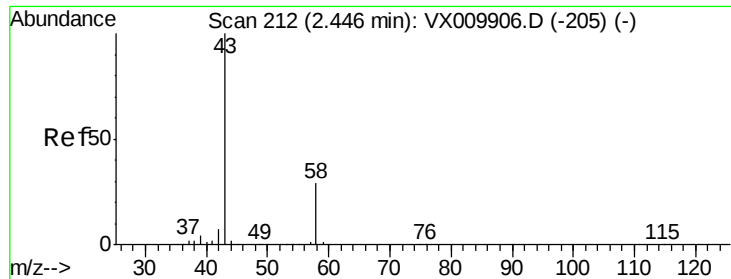


#13

Acrolein
 Concen: 21.782 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX009920.D
 Acq: 28 May 2019 17:20

Tgt Ion: 56 Resp: 330
 Ion Ratio Lower Upper
 56 100
 55 55.2 57.0 85.4#





#16

Acetone

Concen: 6.583 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

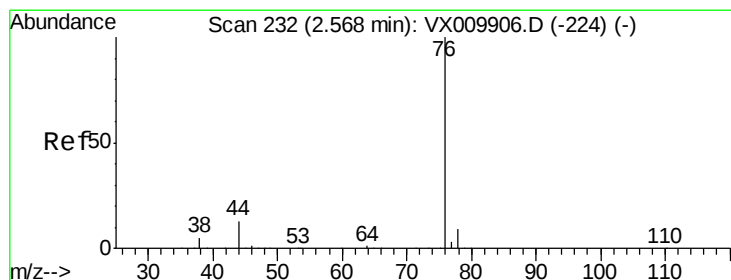
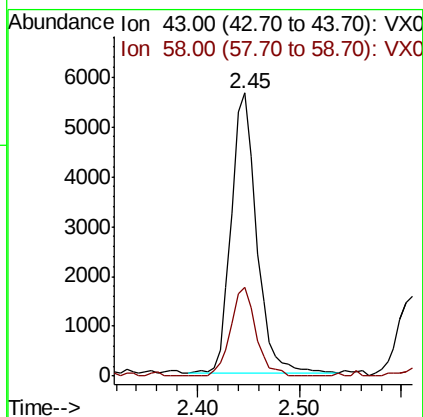
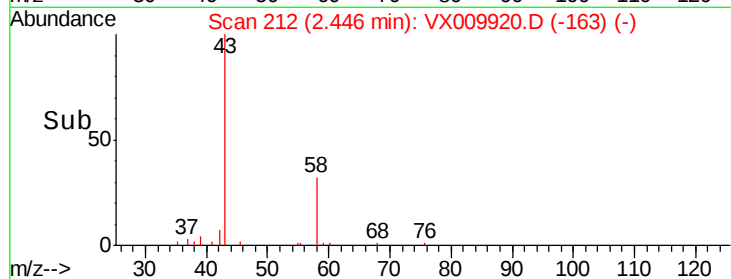
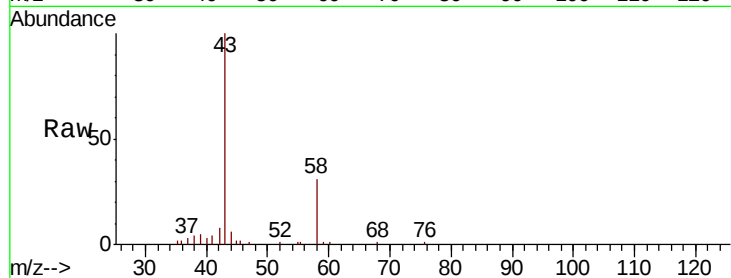
FEQC-FB-052319

Tot Ion: 43 Resp: 9612

Ion Ratio Lower Upper

43 100

58 31.9 23.2 34.8



#17

Carbon Disulfide

Concen: 0.635 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009920.D

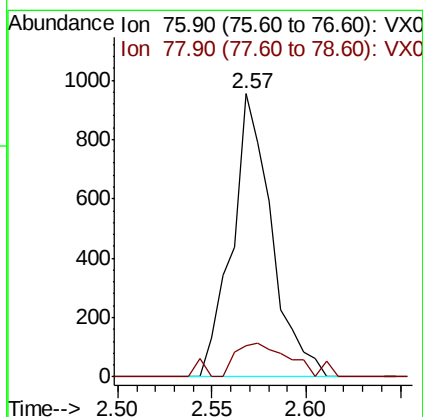
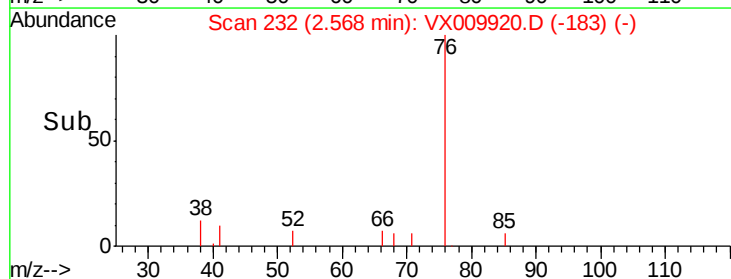
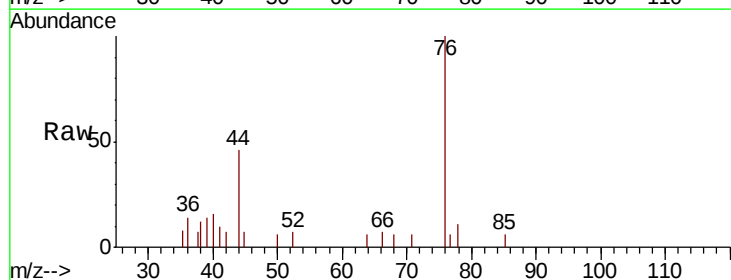
Acq: 28 May 2019 17:20

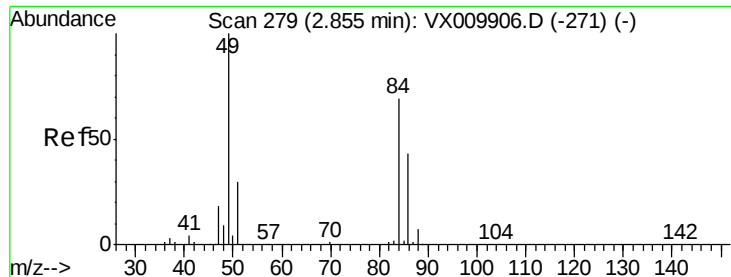
Tgt Ion: 76 Resp: 1384

Ion Ratio Lower Upper

76 100

78 11.0 7.0 10.6#

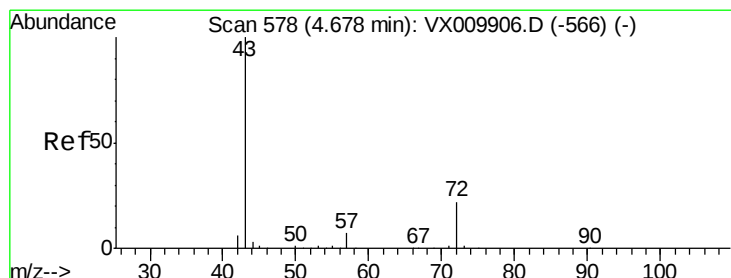
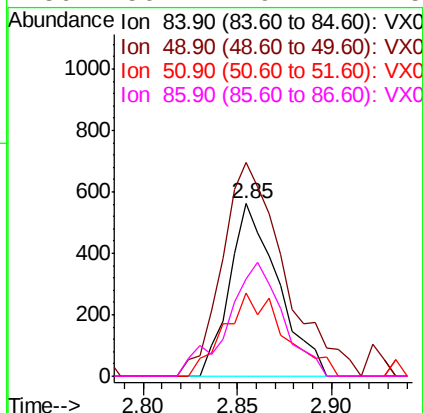
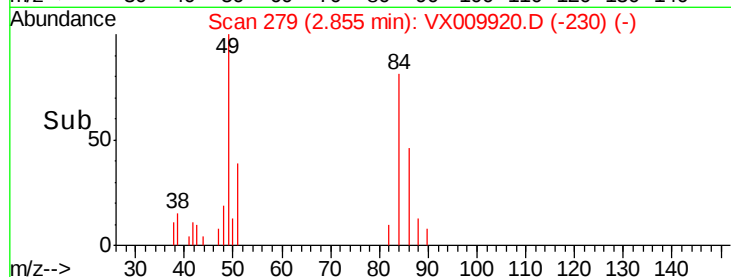
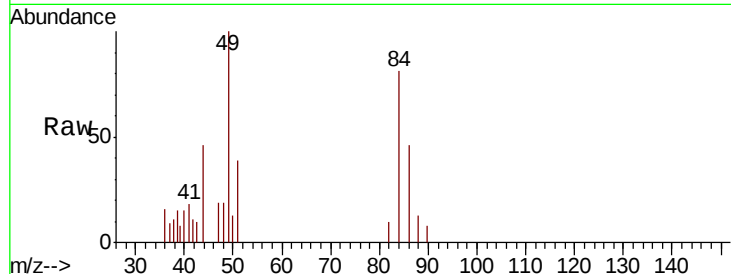




#20
Methylene Chloride
Concen: 0.448 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

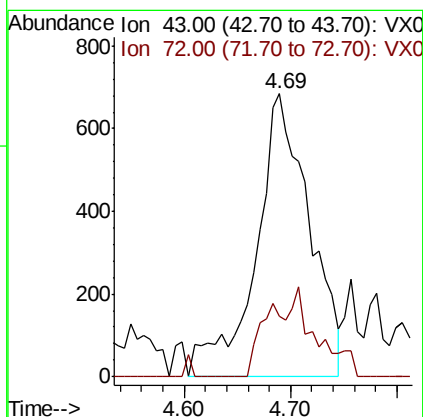
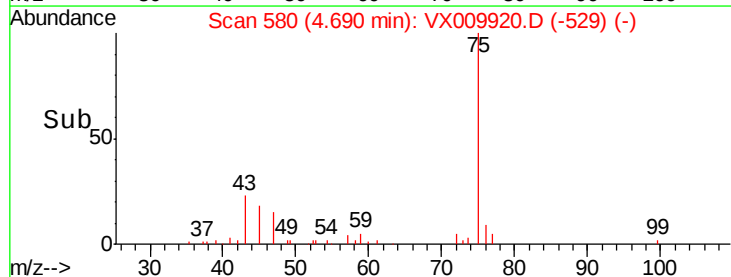
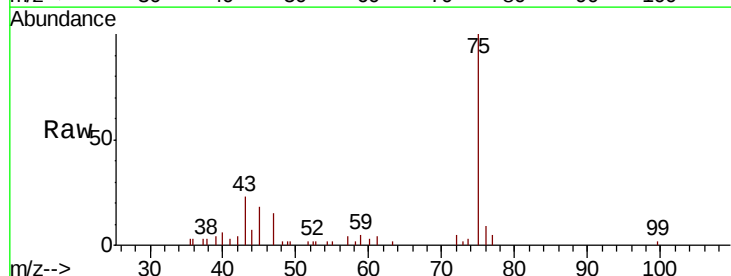
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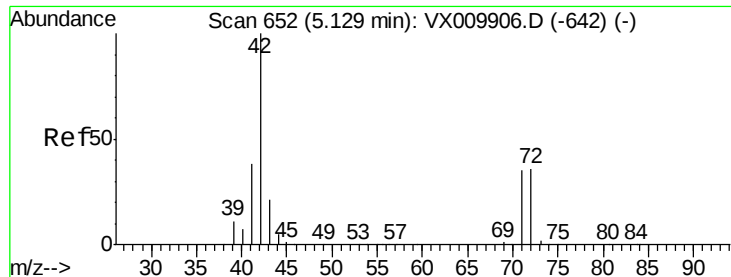
Tot Ion: 84 Resp: 1002
Ion Ratio Lower Upper
84 100
49 113.7 115.8 173.6#
51 48.4 34.4 51.6
86 56.4 49.7 74.5



#25
2-Butanone
Concen: 1.052 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.01 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

Tgt Ion: 43 Resp: 2393
Ion Ratio Lower Upper
43 100
72 13.7 17.5 26.3#

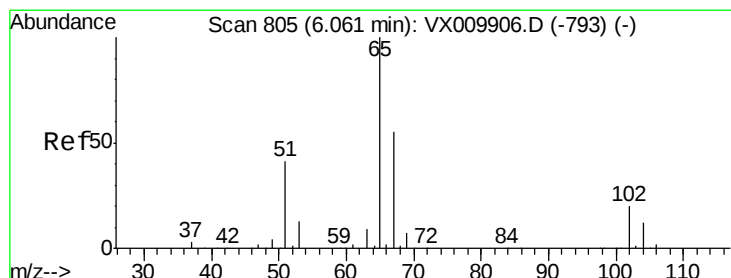
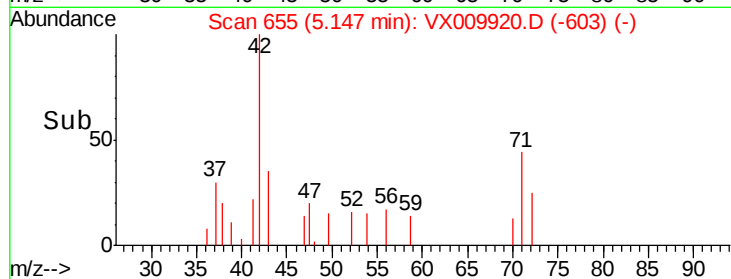
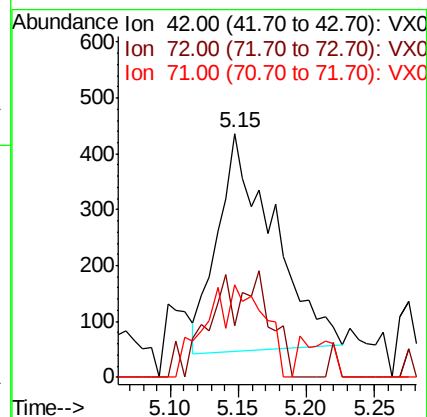
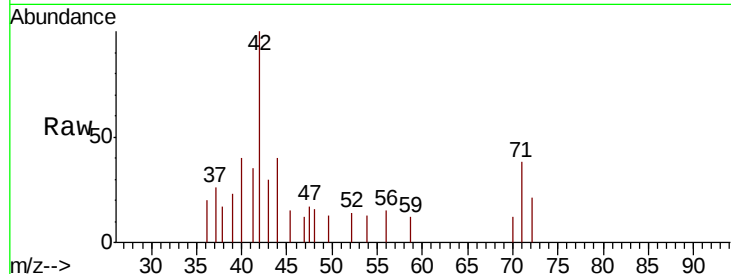




#29
Tetrahydrofuran
Concen: 0.758 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

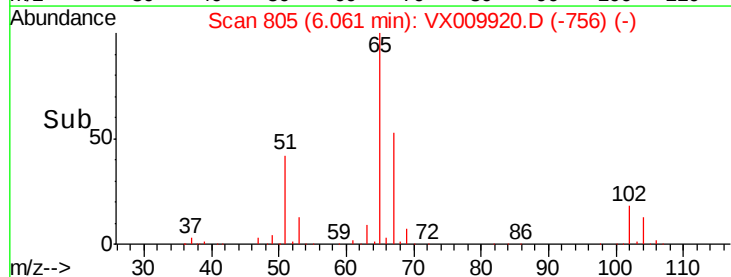
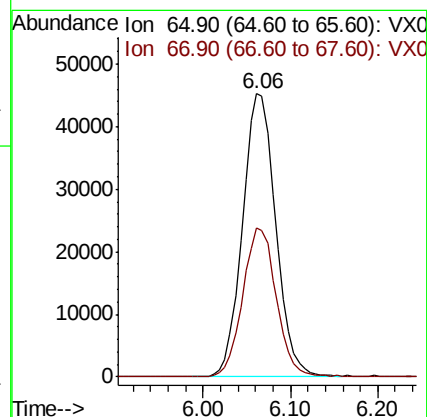
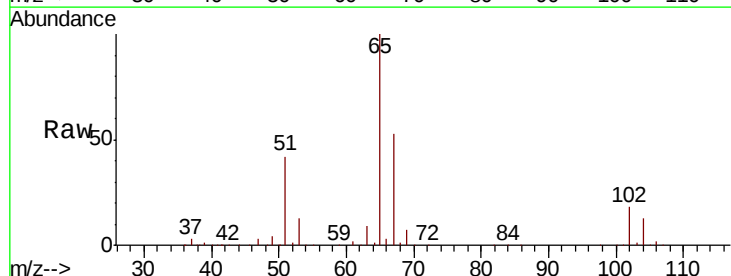
Instrument :
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FEQC-FB-052319

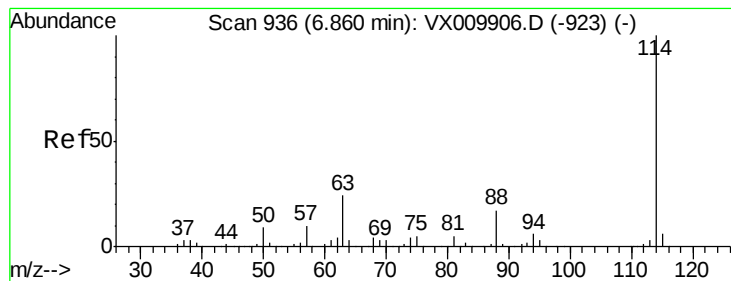
Tot Ion: 42 Resp: 1106
Ion Ratio Lower Upper
42 100
72 24.0 29.2 43.8#
71 25.4 27.6 41.4#



#33
1,2-Dichloroethane-d4
Concen: 47.262 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

Tgt Ion: 65 Resp: 119431
Ion Ratio Lower Upper
65 100
67 53.2 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

FEQC-FB-052319

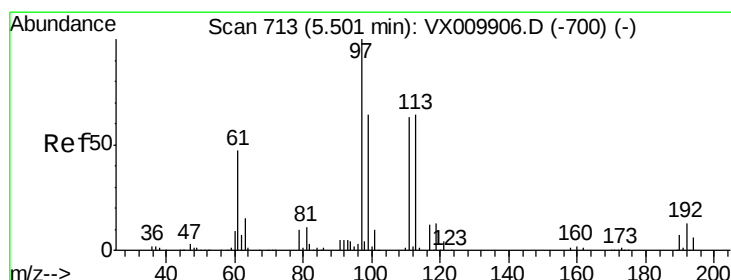
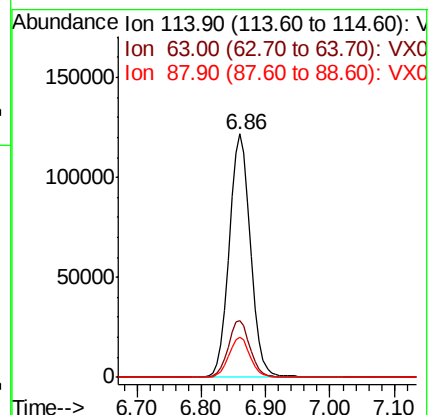
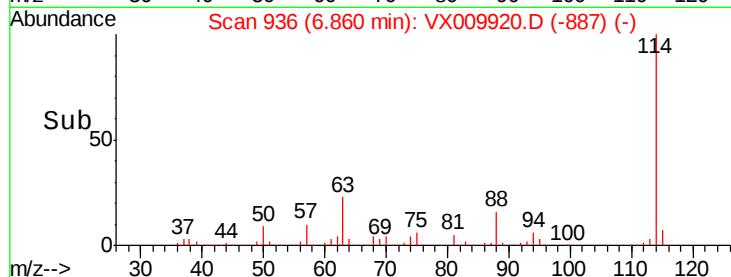
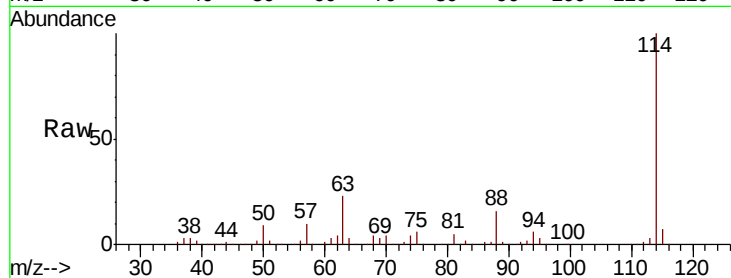
Tot Ion:114 Resp: 285103

Ion Ratio Lower Upper

114 100

63 23.2 0.0 47.4

88 16.2 0.0 33.0



#35

Dibromofluoromethane

Concen: 48.835 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

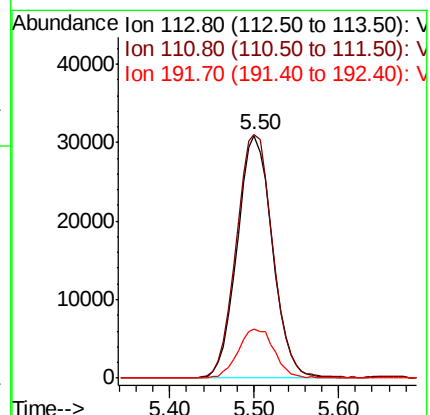
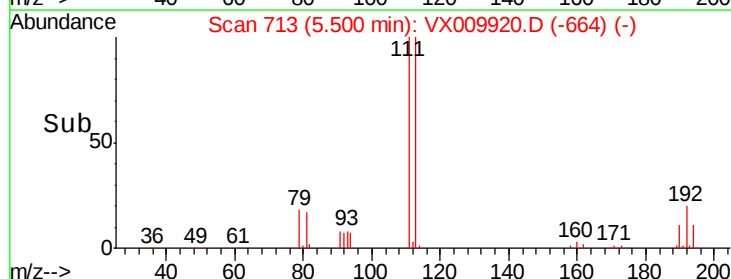
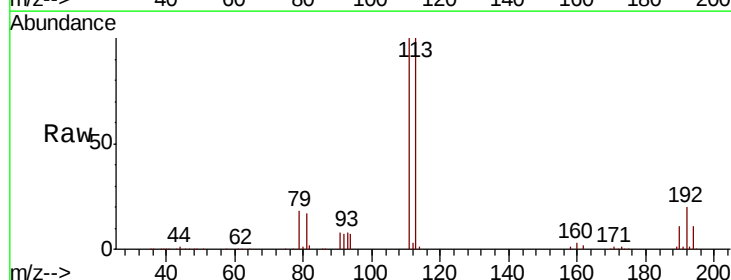
Tgt Ion:113 Resp: 87535

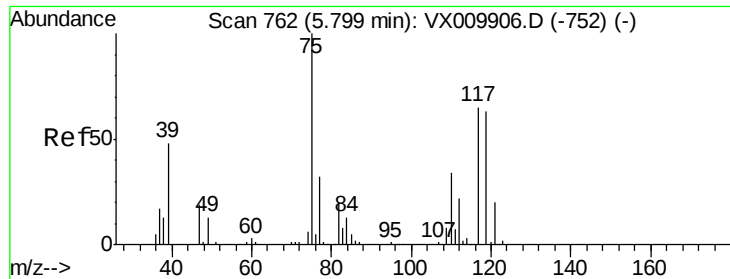
Ion Ratio Lower Upper

113 100

111 103.6 82.2 123.2

192 20.9 17.1 25.7





#36

1,1-Dichloropropene

Concen: 4.921 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

FEQC-FB-052319

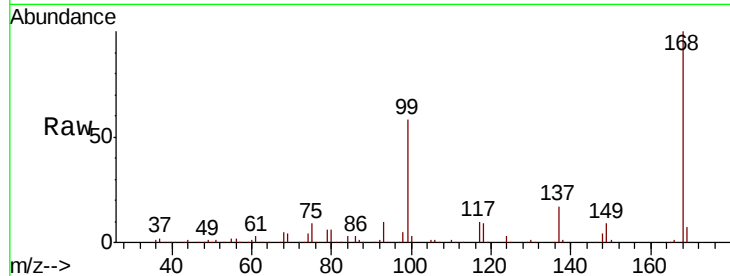
Tot Ion: 75 Resp: 14234

Ion Ratio Lower Upper

75 100

110 8.1 16.7 50.1#

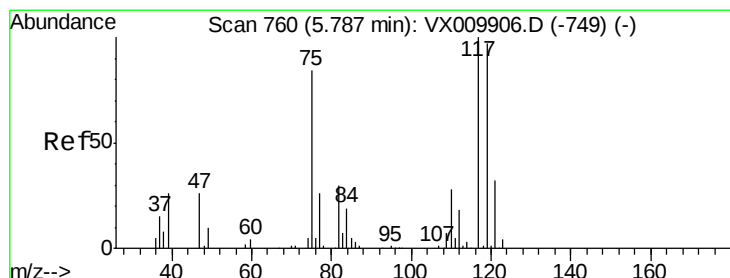
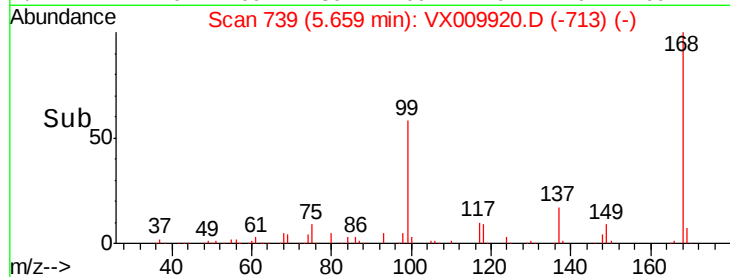
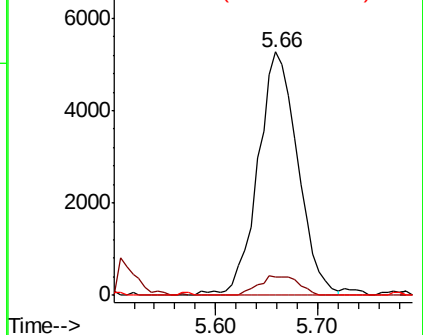
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.829 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

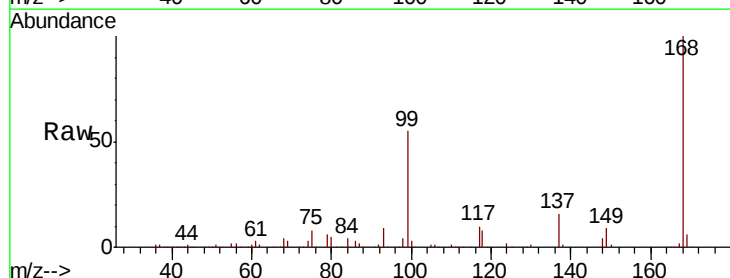
Tgt Ion: 117 Resp: 17071

Ion Ratio Lower Upper

117 100

119 3.6 77.3 115.9#

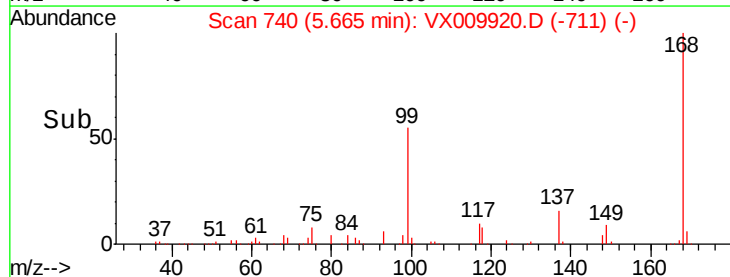
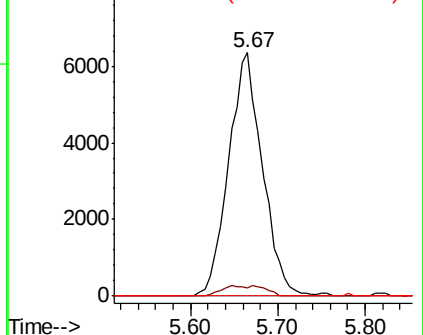
121 0.0 25.4 38.0#

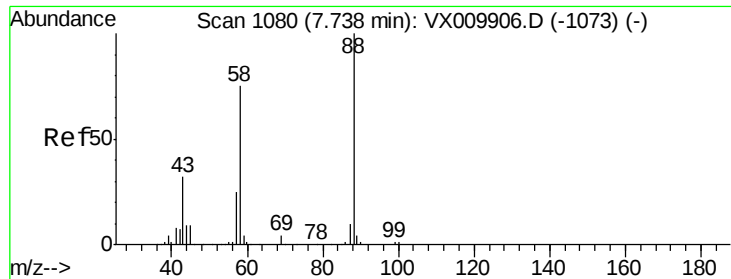


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

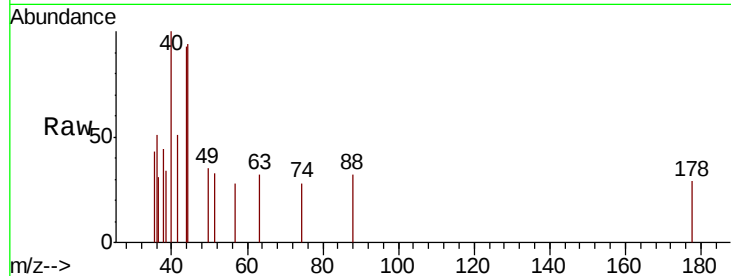




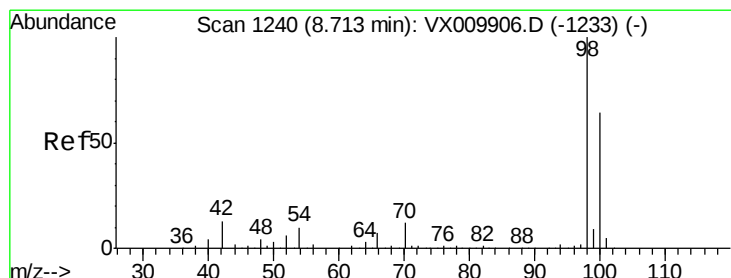
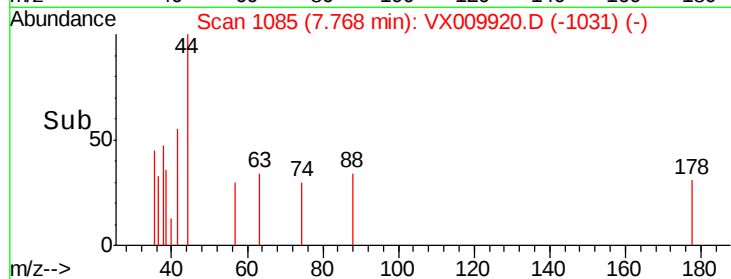
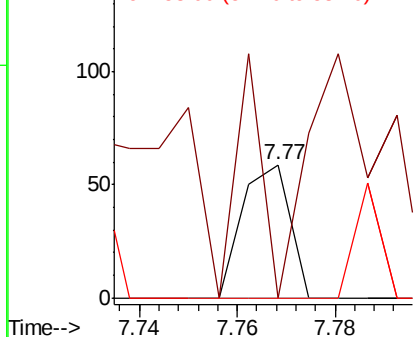
#49
1,4-Dioxane
Concen: 0.668 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

Instrument :
MSVOA_X
ClientSampleId :
FEQC-FB-052319

Tot Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 97.5 30.2 45.4#
58 0.0 64.0 96.0#

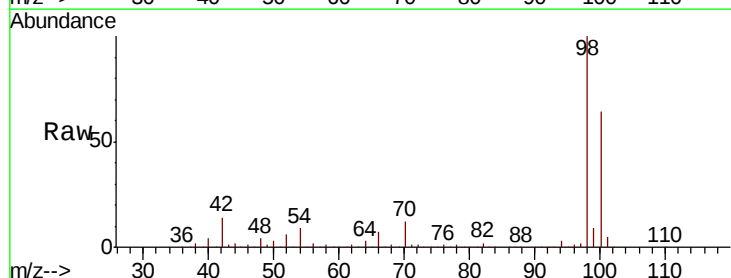


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

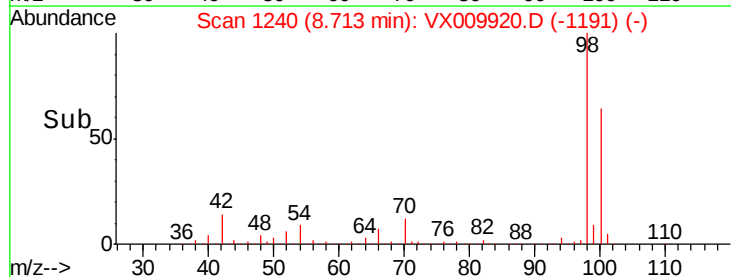
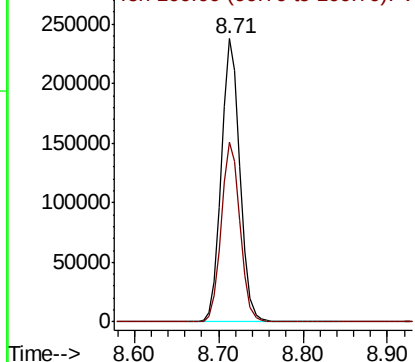


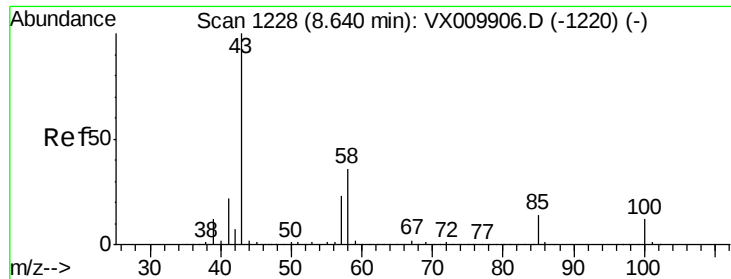
#50
Toluene-d8
Concen: 49.932 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

Tgt Ion: 98 Resp: 363445
Ion Ratio Lower Upper
98 100
100 64.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.280 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

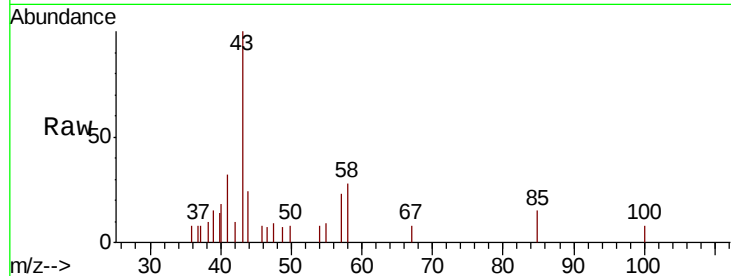
FEQC-FB-052319

Tot Ion: 43 Resp: 1183

Ion Ratio Lower Upper

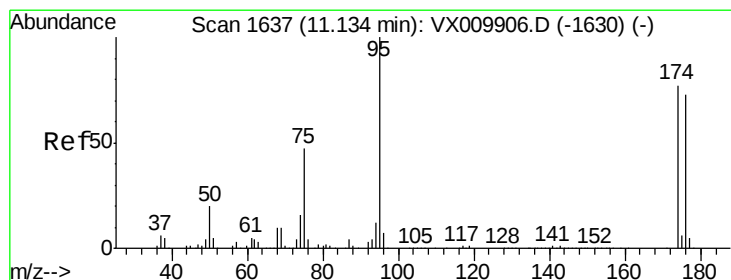
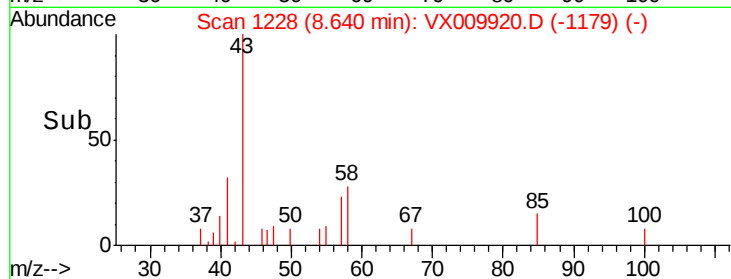
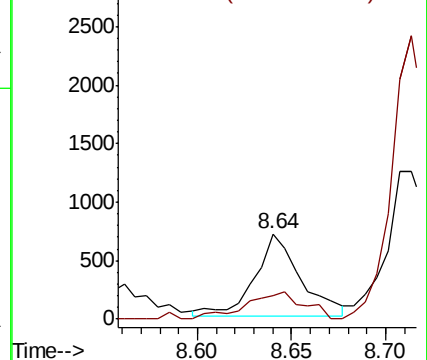
43 100

58 42.3 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 47.542 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

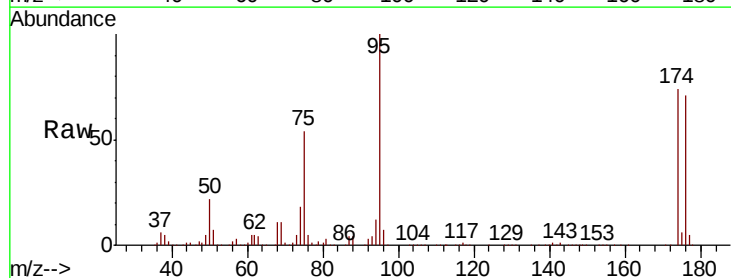
Tgt Ion: 95 Resp: 124293

Ion Ratio Lower Upper

95 100

174 79.9 0.0 160.4

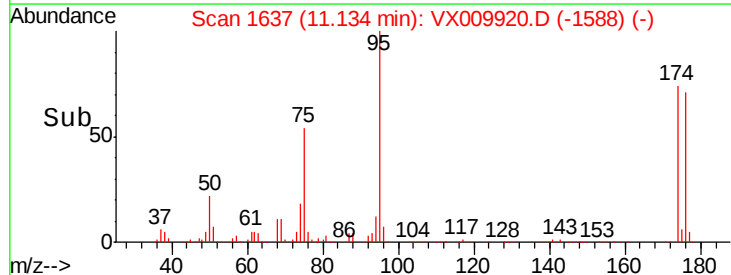
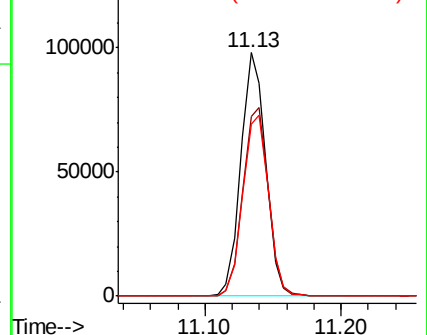
176 77.7 0.0 154.6

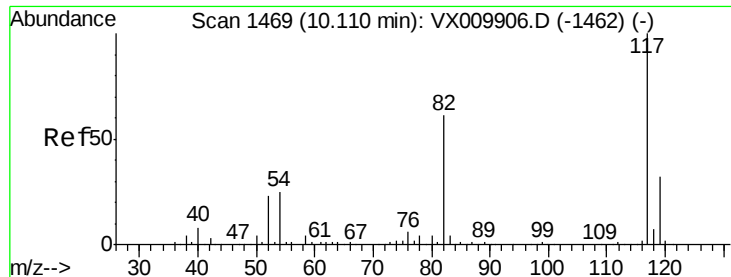


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

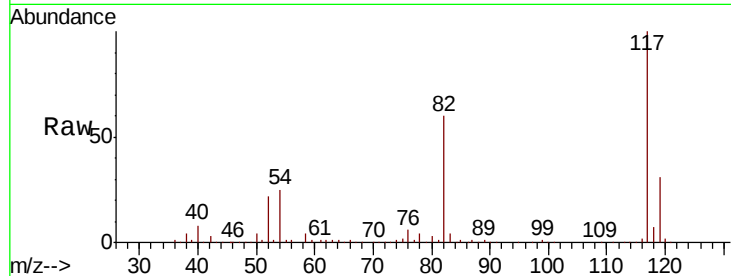




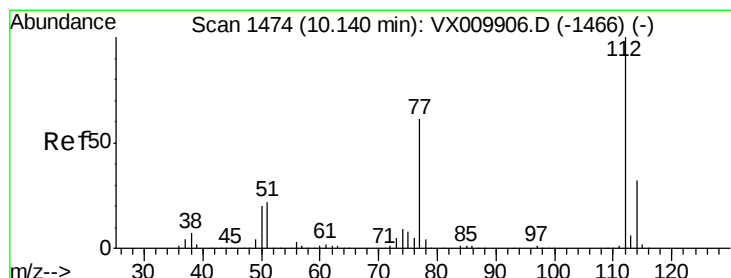
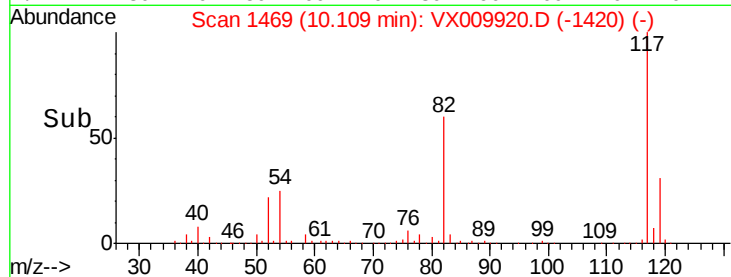
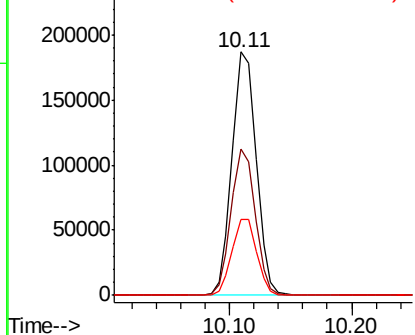
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

Instrument :
MSVOA_X
ClientSampleId :
FEQC-FB-052319

Tot Ion:117 Resp: 256863
Ion Ratio Lower Upper
117 100
82 60.1 49.2 73.8
119 31.2 25.2 37.8

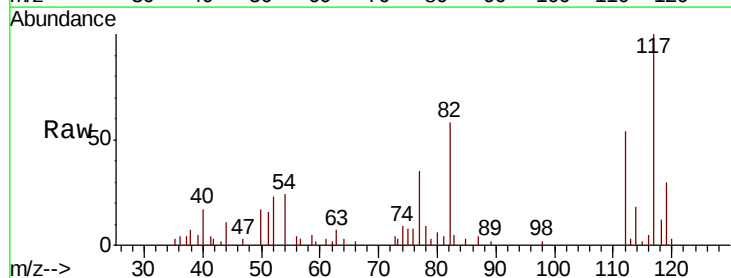


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

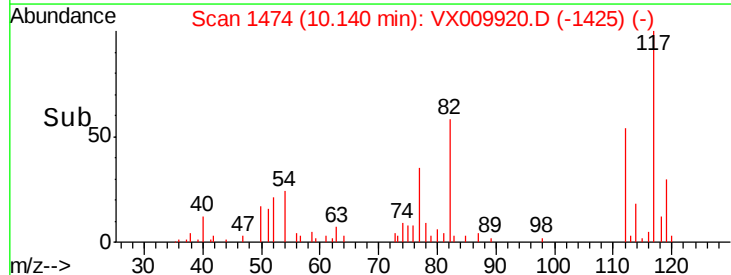
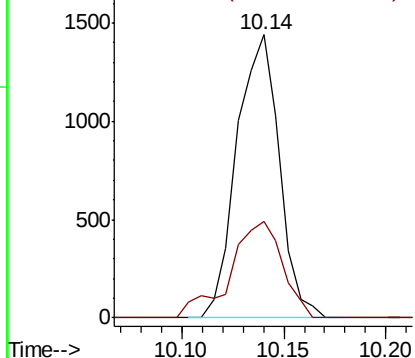


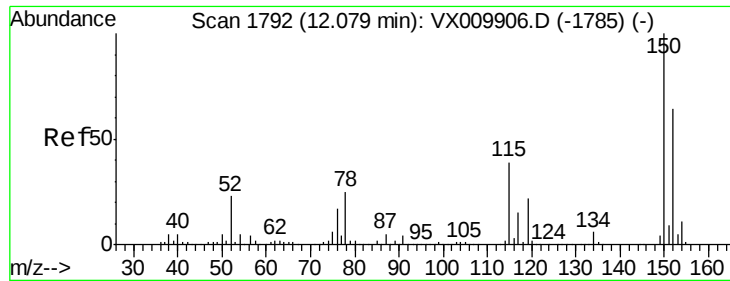
#65
Chlorobenzene
Concen: 0.386 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

Tgt Ion:112 Resp: 2078
Ion Ratio Lower Upper
112 100
114 33.9 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009920.D

Acq: 28 May 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

FEQC-FB-052319

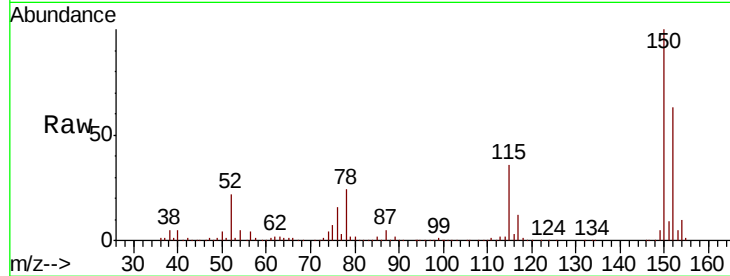
Tot Ion:152 Resp: 112258

Ion Ratio Lower Upper

152 100

115 59.1 41.4 124.2

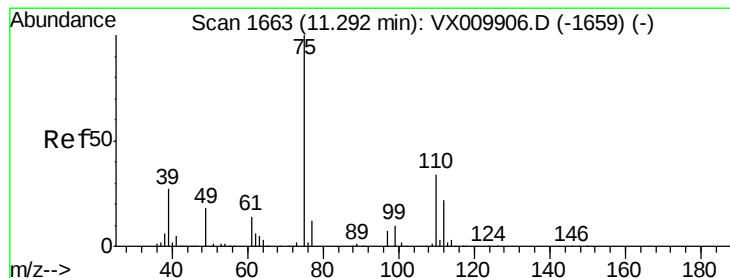
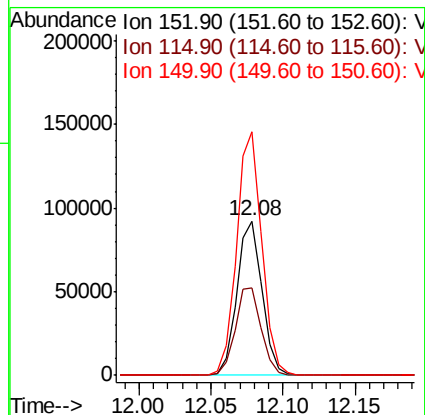
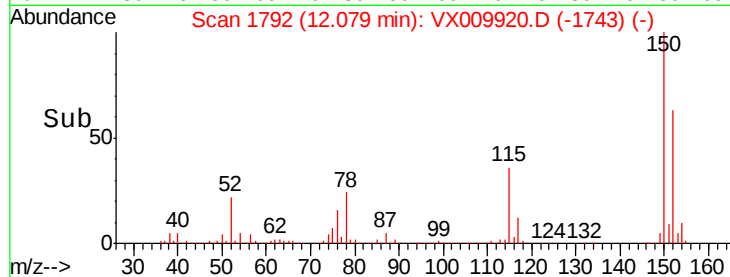
150 158.9 0.0 345.2



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



#76

1,2,3-Trichloropropane

Concen: 24.249 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009920.D

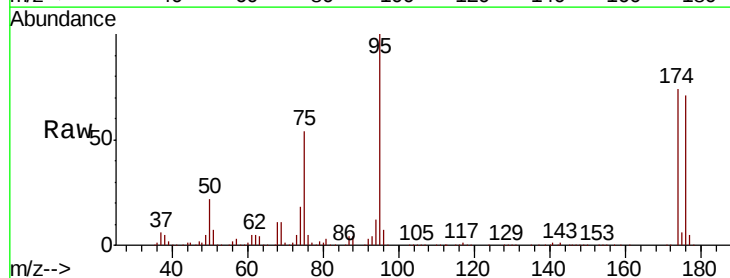
Acq: 28 May 2019 17:20

Tgt Ion: 75 Resp: 65094

Ion Ratio Lower Upper

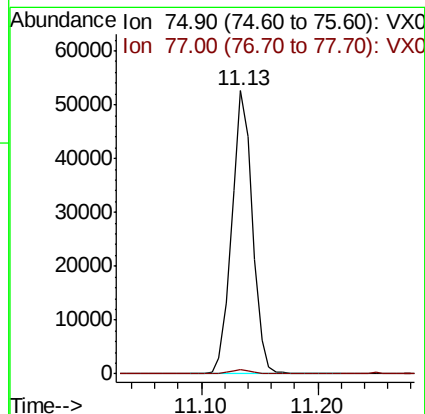
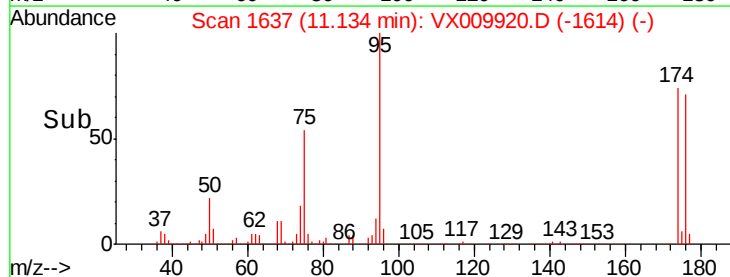
75 100

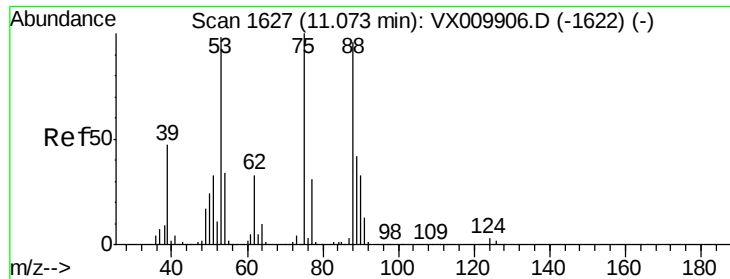
77 1.5 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

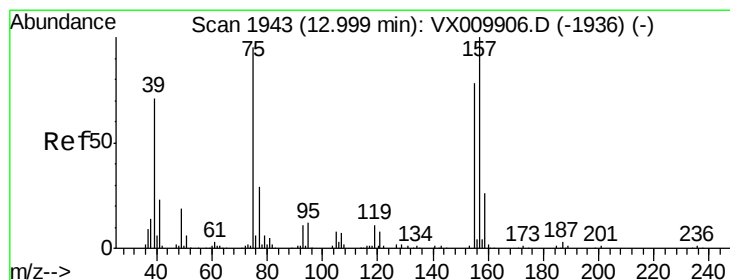
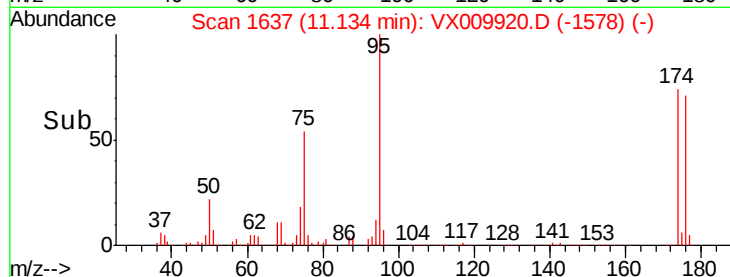
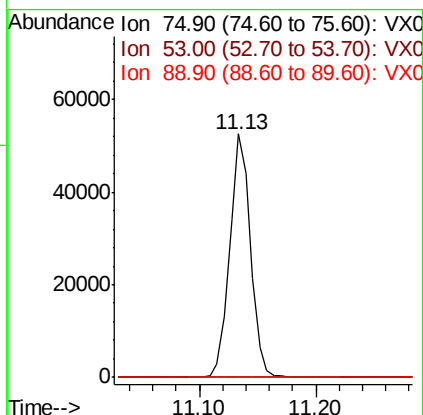
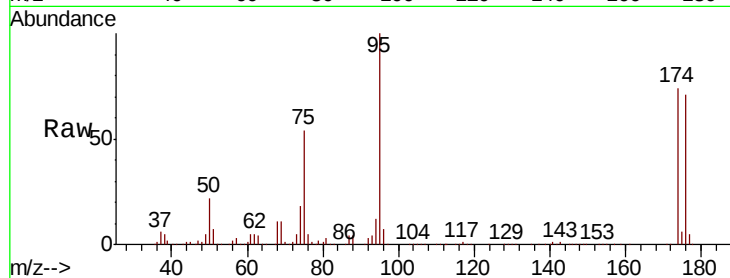




#81
trans-1,4-Dichloro-2-butene
Concen: 59.995 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

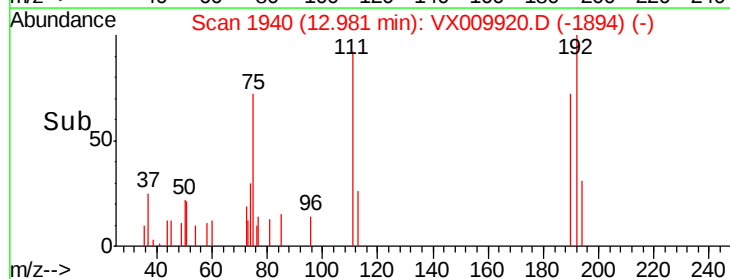
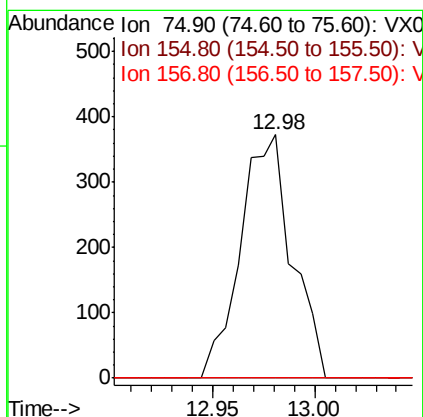
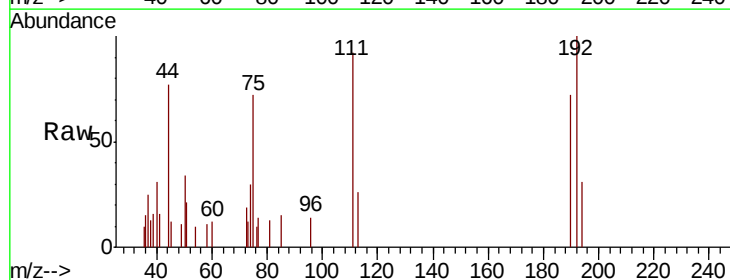
Instrument :
MSVOA_X
ClientSampleId :
FEQC-FB-052319

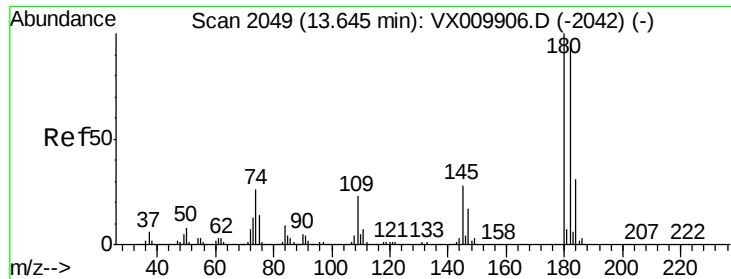
Tot Ion: 75 Resp: 65094
Ion Ratio Lower Upper
75 100
53 0.2 79.8 119.6#
89 0.0 34.2 51.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.903 ug/l
RT: 12.98 min Scan# 1940
Delta R.T. -0.02 min
Lab File: VX009920.D
Acq: 28 May 2019 17:20

Tgt Ion: 75 Resp: 657
Ion Ratio Lower Upper
75 100
155 0.0 39.3 117.8#
157 0.0 50.6 151.8#

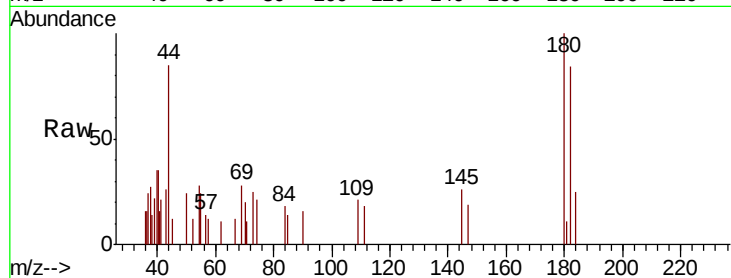




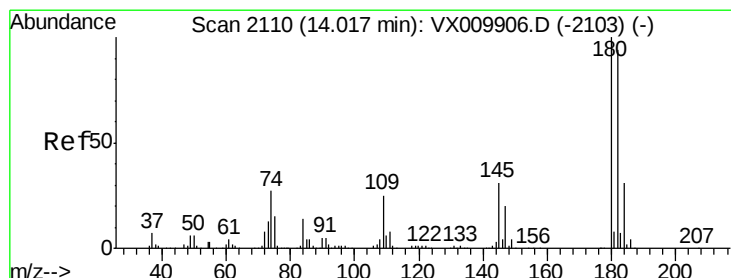
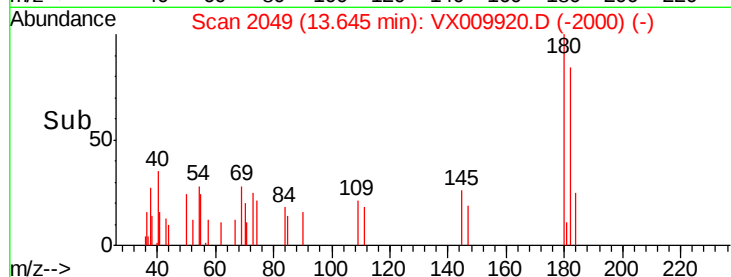
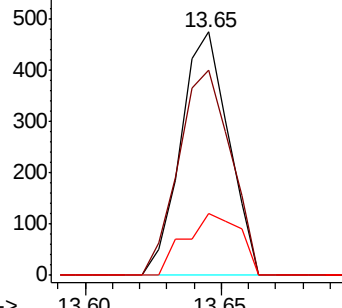
#93
 1,2,4-Trichlorobenzene
 Concen: 0.218 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX009920.D
 Acq: 28 May 2019 17:20

Instrument :
 MSVOA_X
 ClientSampleId :
 FEQC-FB-052319

Tot Ion:180 Resp: 578
 Ion Ratio Lower Upper
 180 100
 182 92.4 47.4 142.2
 145 29.2 14.5 43.5

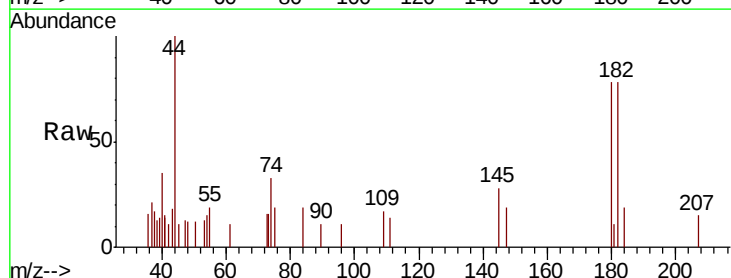


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#96
 1,2,3-Trichlorobenzene
 Concen: 0.207 ug/l
 RT: 14.02 min Scan# 2110
 Delta R.T. -0.00 min
 Lab File: VX009920.D
 Acq: 28 May 2019 17:20

Tgt Ion:180 Resp: 549
 Ion Ratio Lower Upper
 180 100
 182 80.3 47.3 142.0
 145 29.0 15.6 46.7



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

