

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009671.D
 Acq On : 17 May 2019 18:55
 Operator : JC/SP
 Sample : K2906-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FEQC-FB-051619

Quant Time: May 18 04:52:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	159906	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	252048	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	222590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	93582	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	105807	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
35) Dibromofluoromethane	5.50	113	77767	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
50) Toluene-d8	8.71	98	317151	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	11.13	95	102764	44.21	ug/l	0.00
Spiked Amount			Recovery	=	88.42%	

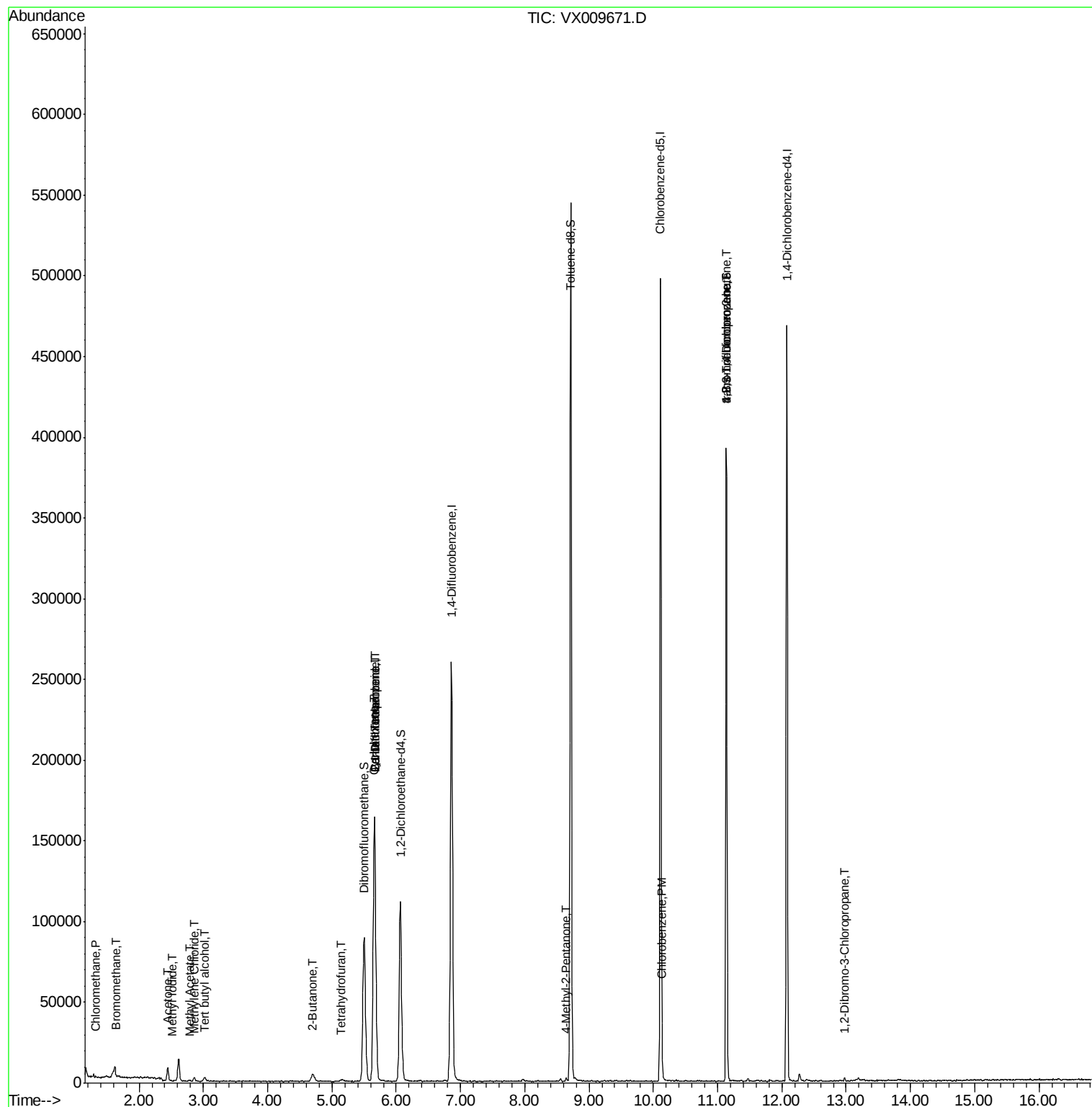
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	932	0.463	ug/l	92
5) Bromomethane	1.64	94	240	0.204	ug/l #	1
10) Methyl Iodide	2.52	142	207	4.702	ug/l #	42
11) Tert butyl alcohol	3.02	59	1959	3.877	ug/l #	73
16) Acetone	2.45	43	8981	7.662	ug/l	96
18) Methyl Acetate	2.78	43	634	0.227	ug/l #	82
20) Methylene Chloride	2.85	84	927	0.488	ug/l #	92
25) 2-Butanone	4.69	43	2254	1.237	ug/l	97
28) Bromochloromethane	5.01	49	23	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	1305	1.113	ug/l #	86
31) Cyclohexane	5.65	56	3735	1.157	ug/l #	15
36) 1,1-Dichloropropene	5.67	75	12487	5.331	ug/l #	50
38) Carbon Tetrachloride	5.66	117	15142	7.115	ug/l #	16
51) 4-Methyl-2-Pentanone	8.65	43	1270	0.372	ug/l	88
65) Chlorobenzene	10.14	112	1964	0.441	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	52903	24.371	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	52903	62.356	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	12.98	75	308	0.541	ug/l #	2

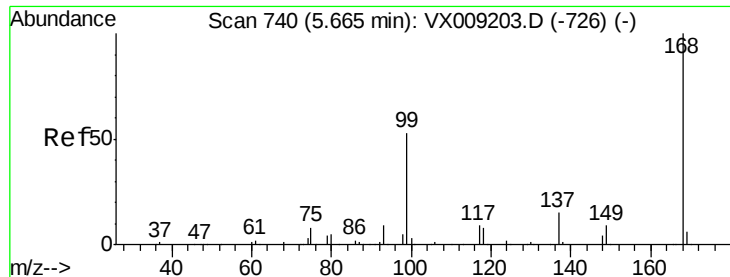
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

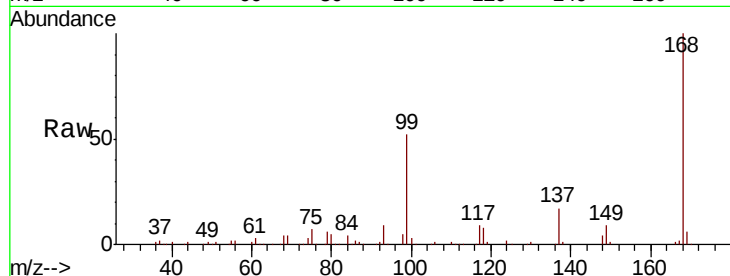
FEQC-FB-051619

Tot Ion:168 Resp: 159906

Ion Ratio Lower Upper

168 100

99 52.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

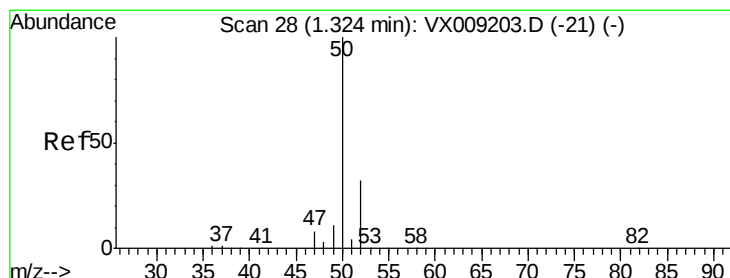
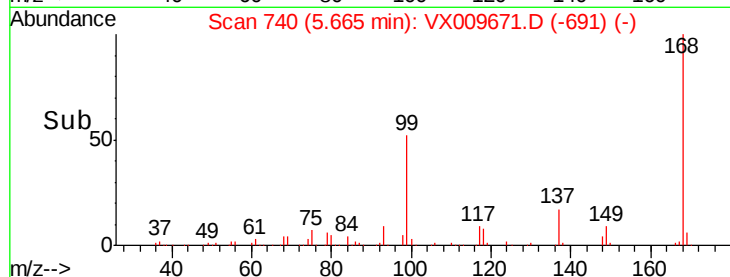
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.463 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009671.D

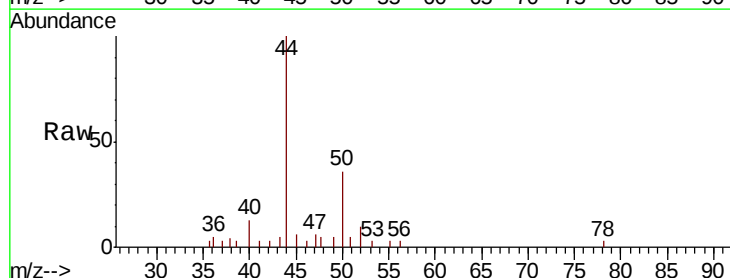
Acq: 17 May 2019 18:55

Tgt Ion: 50 Resp: 932

Ion Ratio Lower Upper

50 100

52 28.1 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

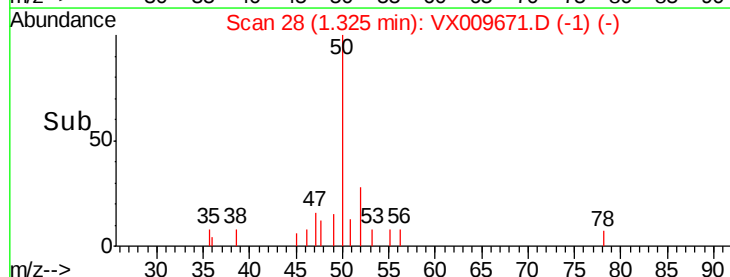
600

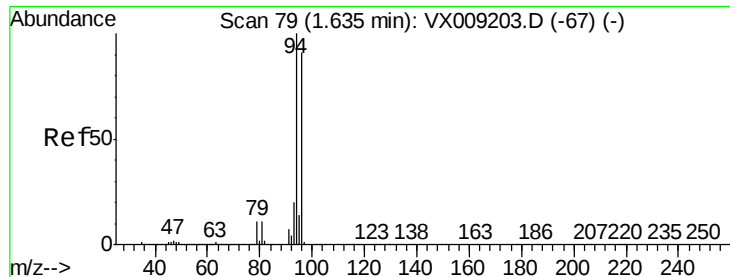
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.204 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

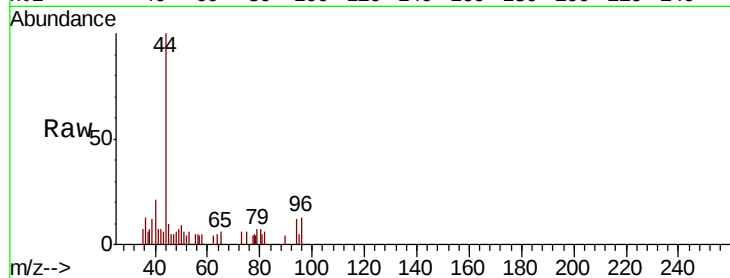
FEQC-FB-051619

Tot Ion: 94 Resp: 240

Ion Ratio Lower Upper

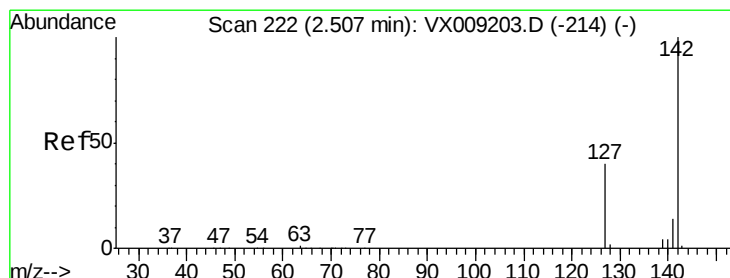
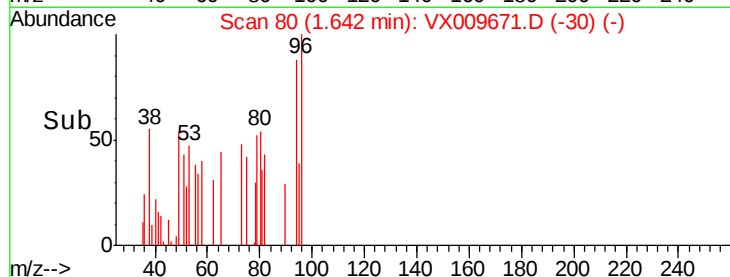
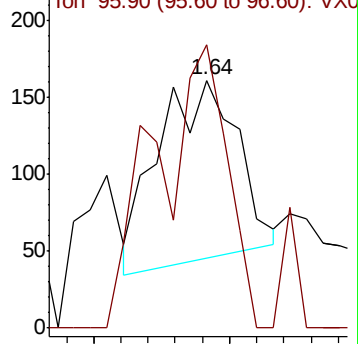
94 100

96 189.7 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.702 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

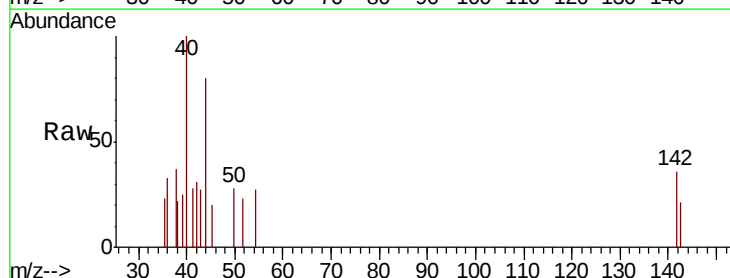
Tgt Ion: 142 Resp: 207

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

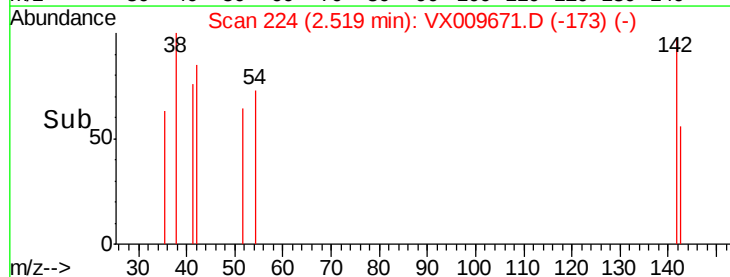
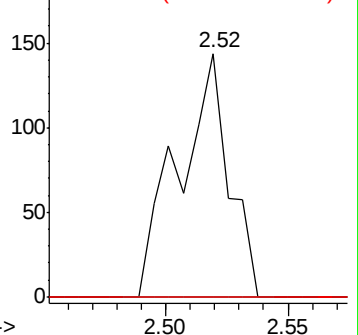
141 0.0 11.5 17.3#

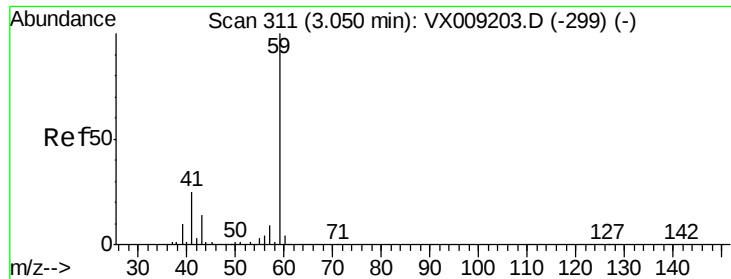


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

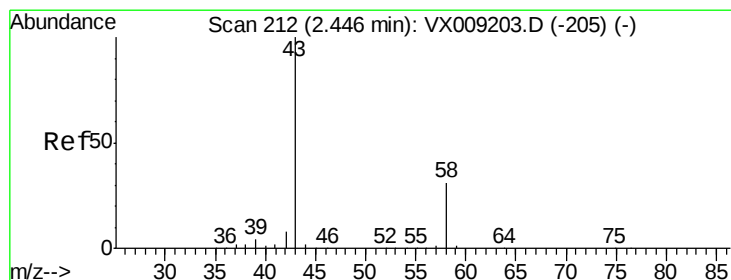
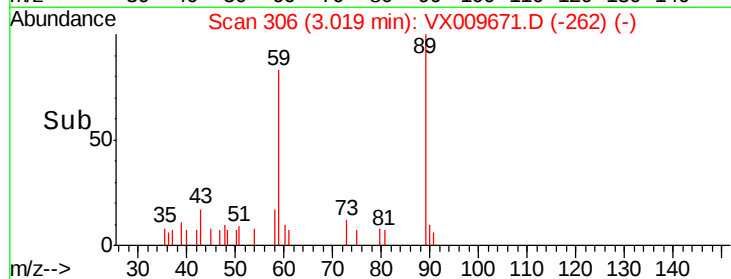
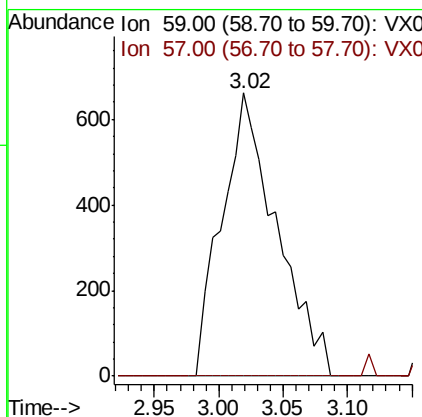
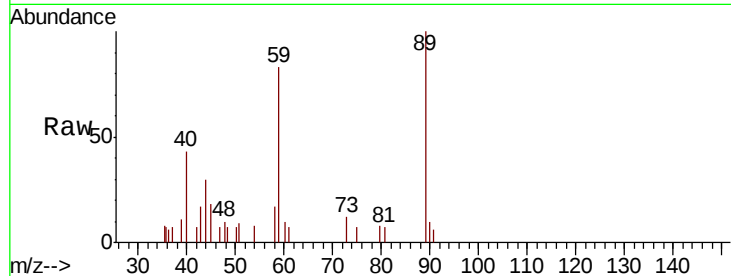




#11
Tert butyl alcohol
Concen: 3.877 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009671.D
Acq: 17 May 2019 18:55

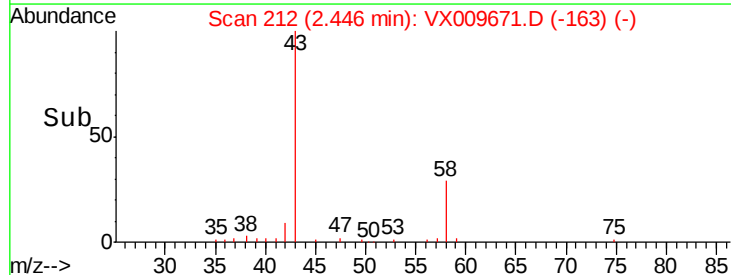
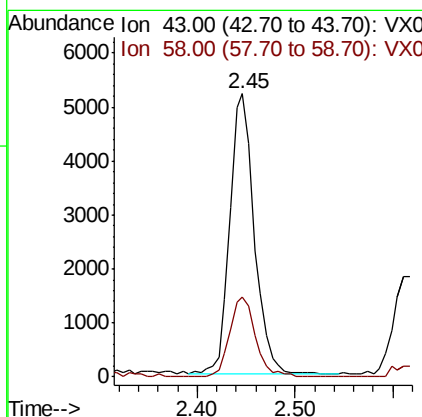
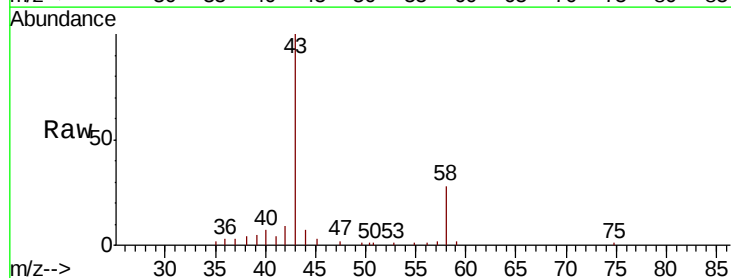
Instrument :
MSVOA_X
ClientSampleId :
FEQC-FB-051619

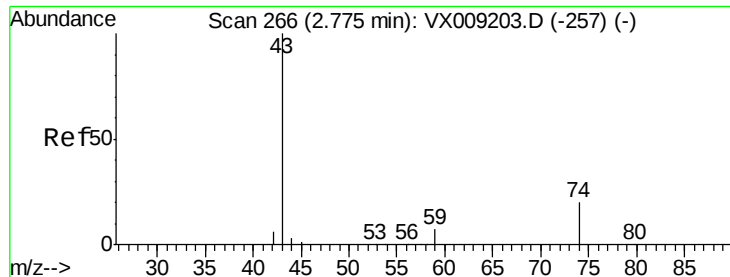
Tot Ion: 59 Resp: 1959
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 7.662 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX009671.D
Acq: 17 May 2019 18:55

Tgt Ion: 43 Resp: 8981
Ion Ratio Lower Upper
43 100
58 28.6 24.9 37.3





#18

Methyl Acetate

Concen: 0.227 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

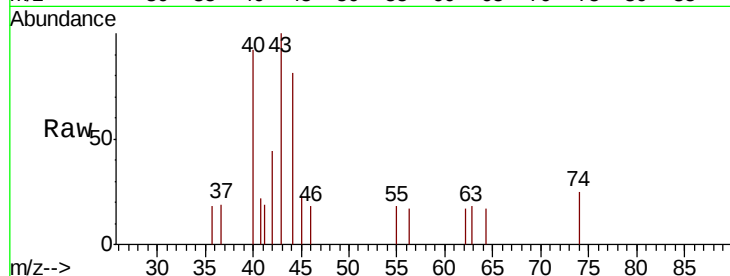
FEQC-FB-051619

Tot Ion: 43 Resp: 634

Ion Ratio Lower Upper

43 100

74 12.0 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

300

200

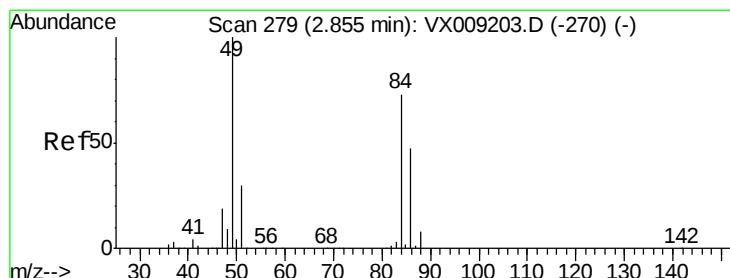
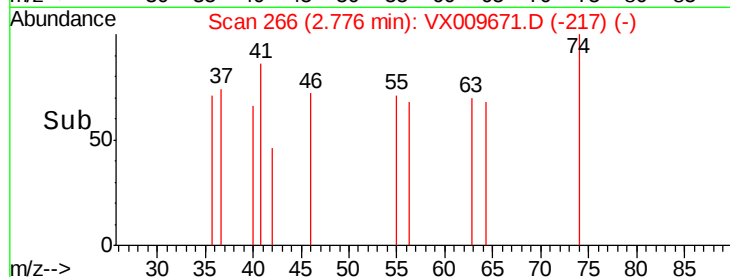
100

0

2.75

2.80

Time-->



#20

Methylene Chloride

Concen: 0.488 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Tgt Ion: 84 Resp: 927

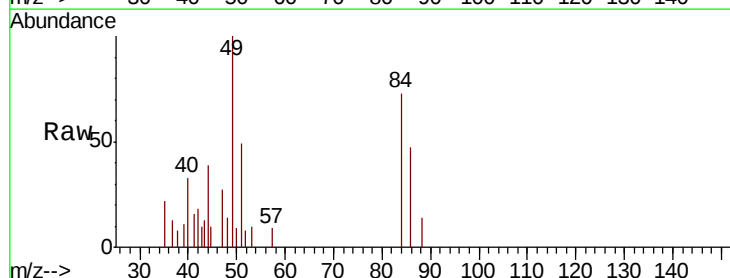
Ion Ratio Lower Upper

84 100

49 137.8 109.9 164.9

51 68.0 32.7 49.1#

86 64.1 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

1000

800

600

400

200

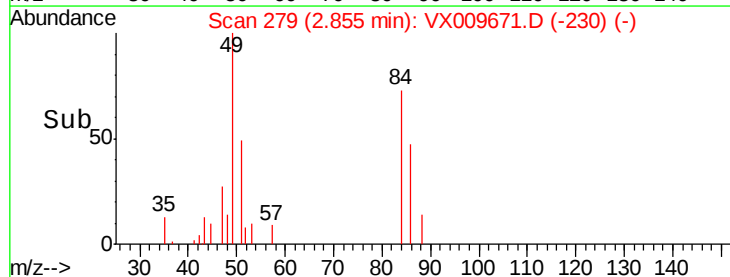
0

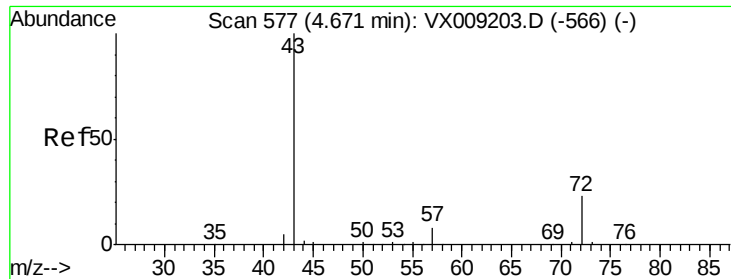
2.80

2.85

2.90

Time-->





#25

2-Butanone

Concen: 1.237 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

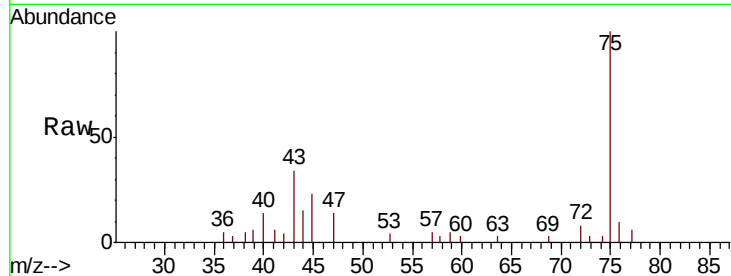
FEQC-FB-051619

Tot Ion: 43 Resp: 2254

Ion Ratio Lower Upper

43 100

72 24.2 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

600

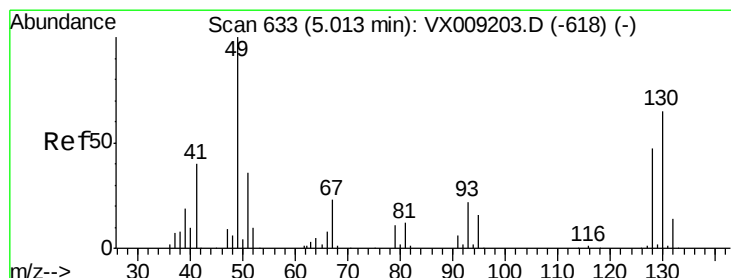
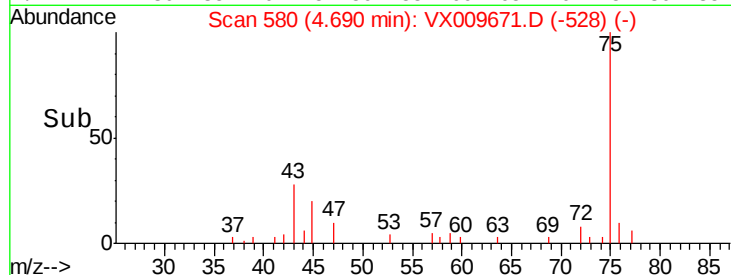
400

200

0

4.60 4.65 4.70 4.75

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

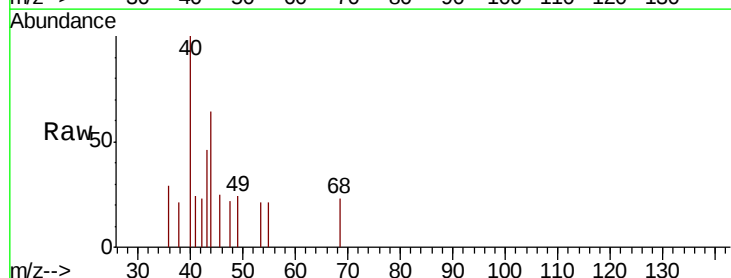
Tgt Ion: 49 Resp: 23

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

80

60

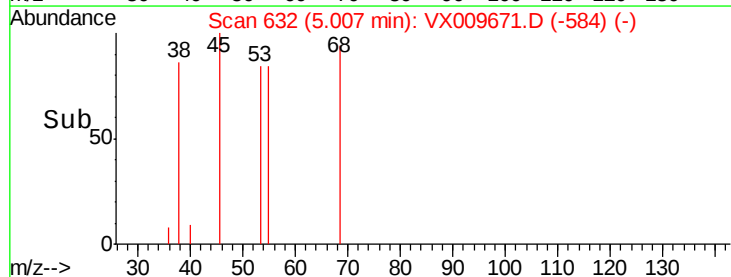
40

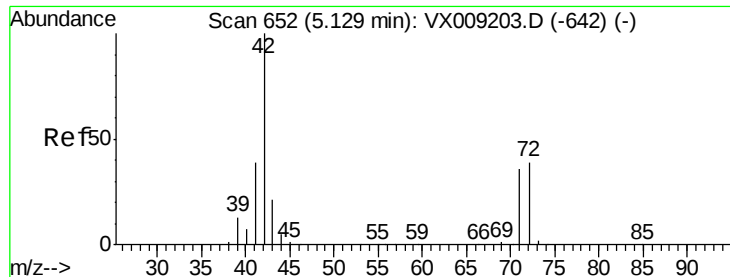
20

0

4.99 5.00 5.01 5.02

Time-->





#29

Tetrahydrofuran

Concen: 1.113 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

FEQC-FB-051619

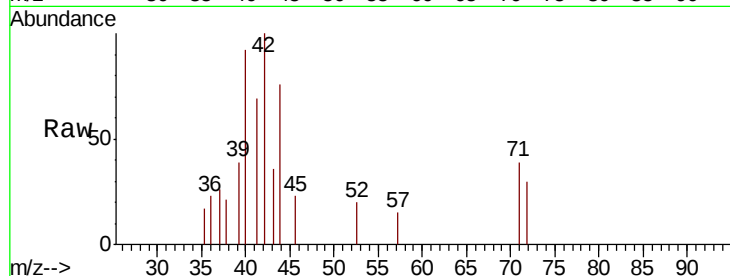
Tot Ion: 42 Resp: 1305

Ion Ratio Lower Upper

42 100

72 31.4 30.4 45.6

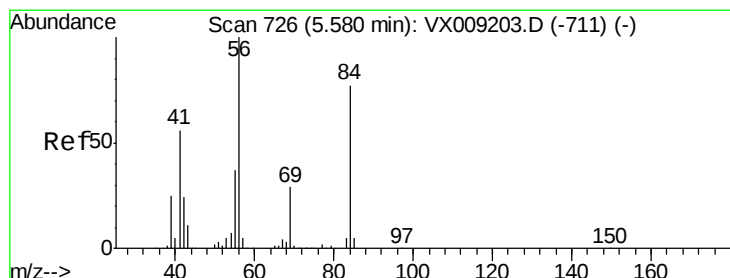
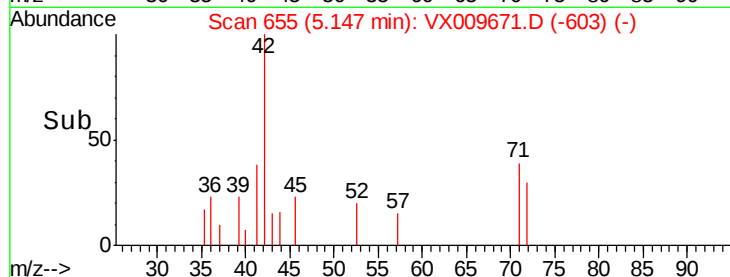
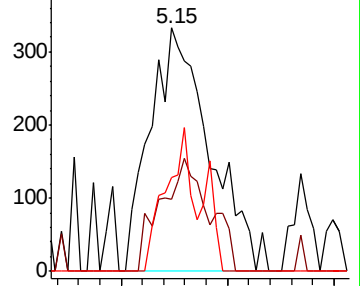
71 25.4 28.6 43.0#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.157 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

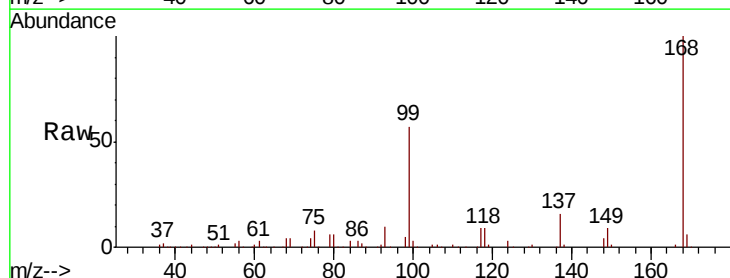
Tgt Ion: 56 Resp: 3735

Ion Ratio Lower Upper

56 100

69 140.5 23.4 35.0#

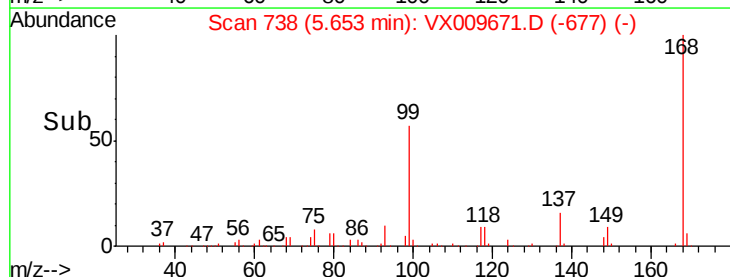
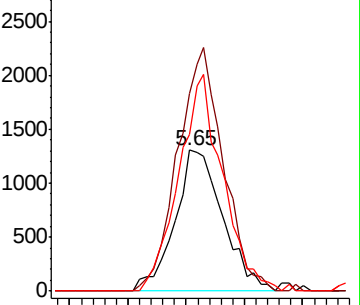
84 111.0 61.9 92.9#

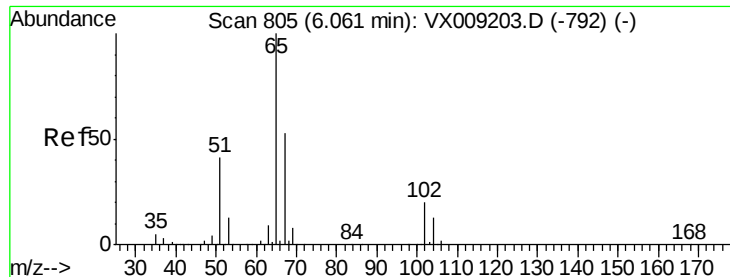


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.471 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

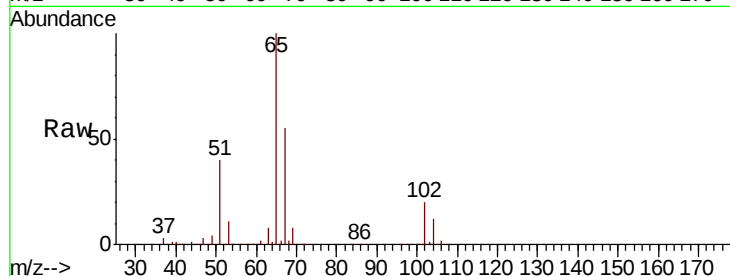
FEQC-FB-051619

Tot Ion: 65 Resp: 105807

Ion Ratio Lower Upper

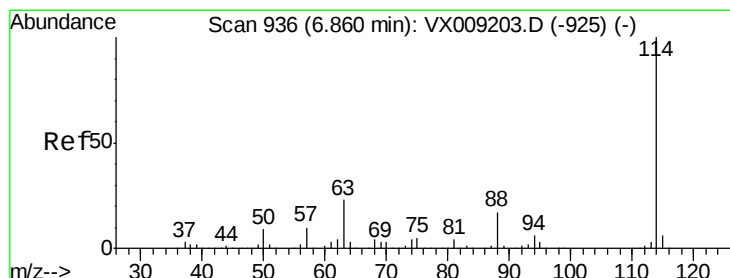
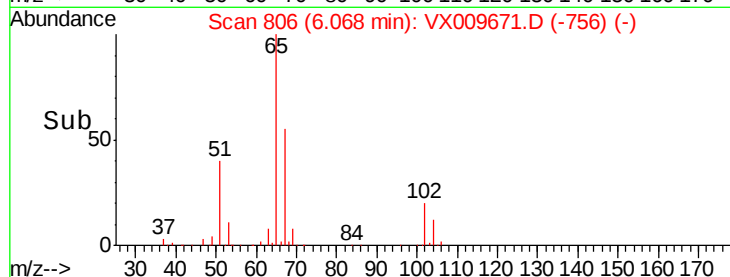
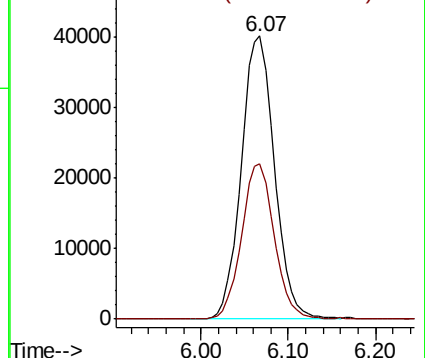
65 100

67 54.4 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

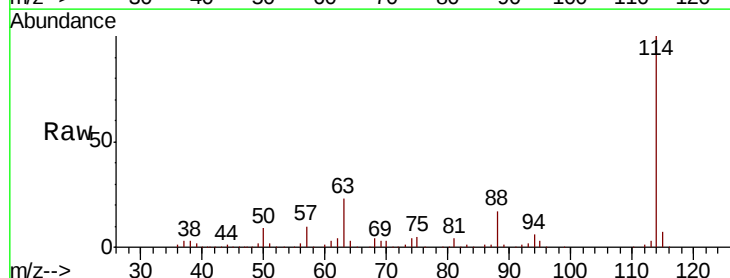
Tgt Ion: 114 Resp: 252048

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.6

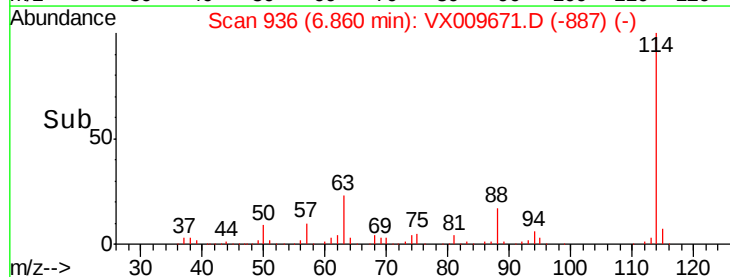
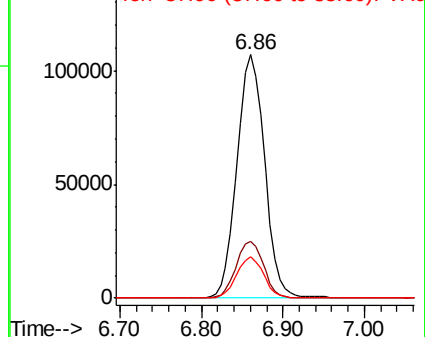
88 17.1 0.0 33.2

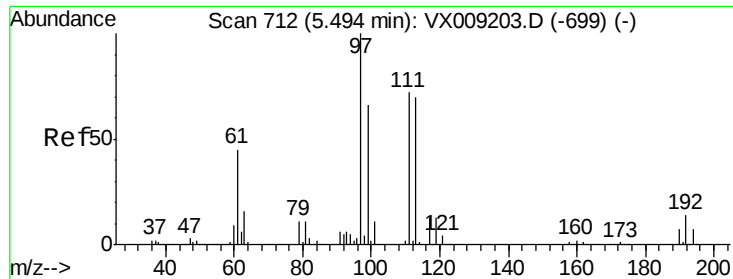


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.081 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

FEQC-FB-051619

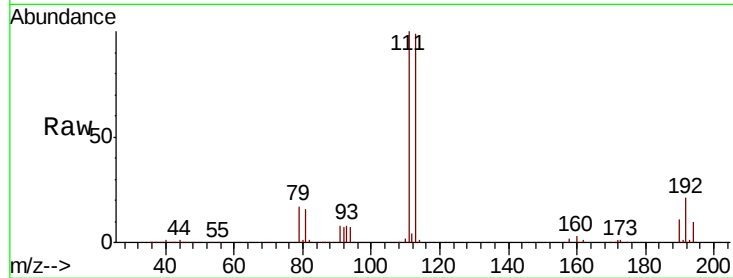
Tot Ion:113 Resp: 77767

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

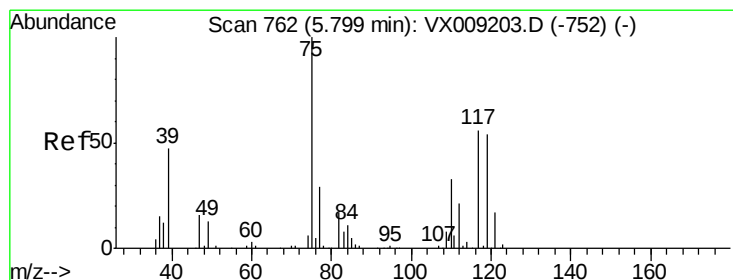
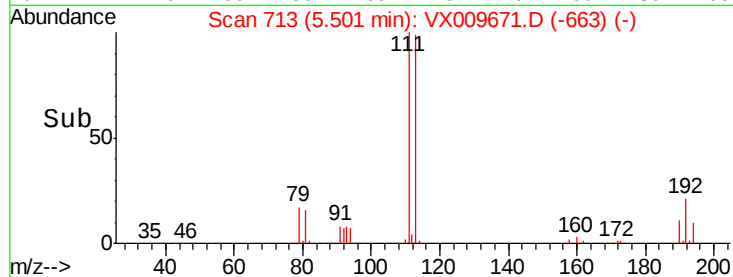
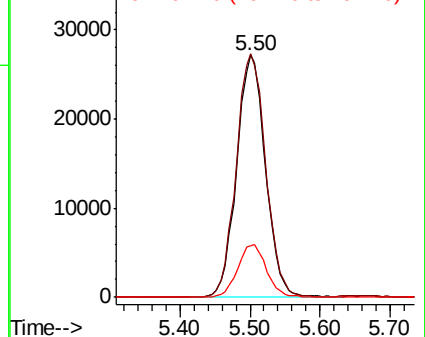
192 21.7 17.0 25.6



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: 5.331 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

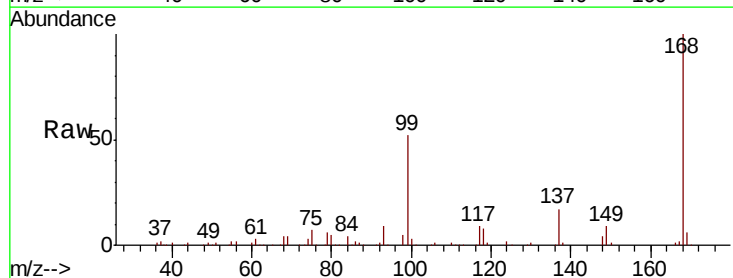
Tgt Ion: 75 Resp: 12487

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.6#

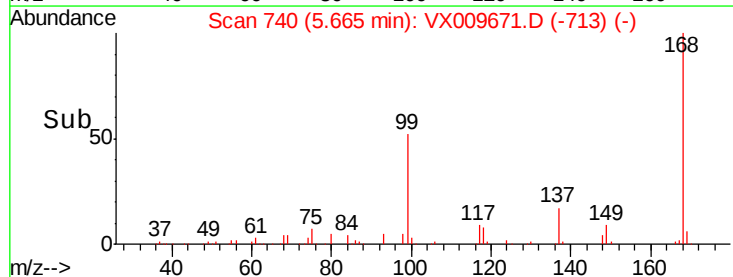
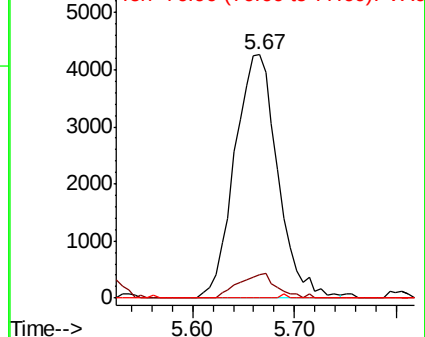
77 0.0 24.8 37.2#

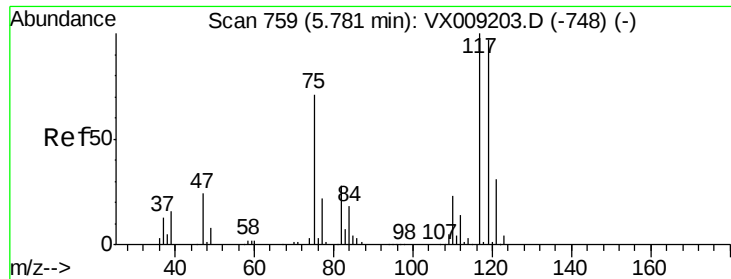


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

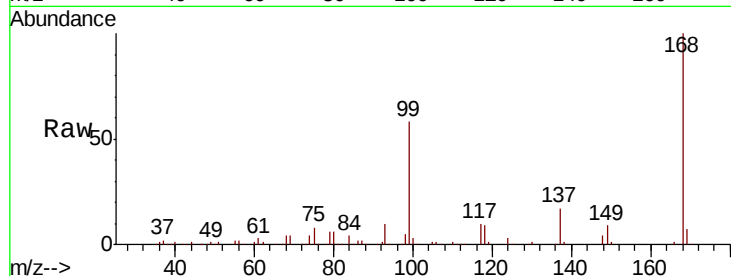




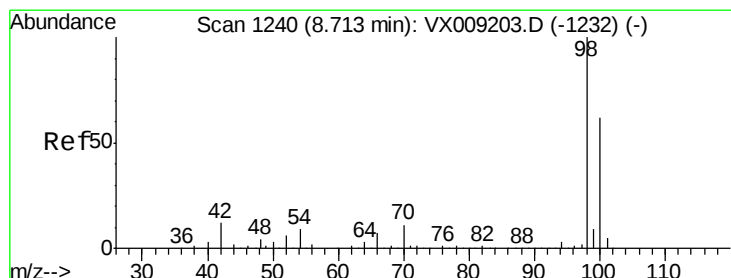
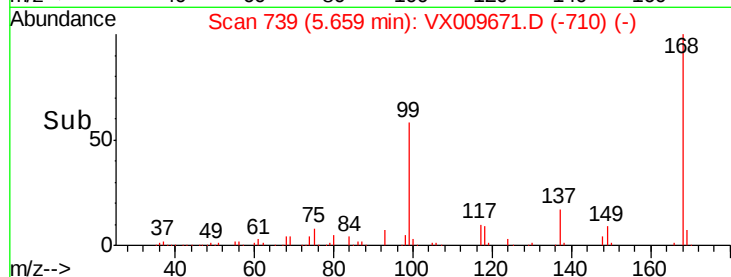
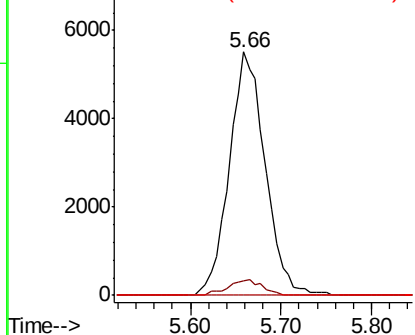
#38
Carbon Tetrachloride
Concen: 7.115 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX009671.D
Acq: 17 May 2019 18:55

Instrument :
MSVOA_X
ClientSampleId :
FEQC-FB-051619

Tot Ion:117 Resp: 15142
Ion Ratio Lower Upper
117 100
119 6.1 77.5 116.3#
121 0.0 24.7 37.1#

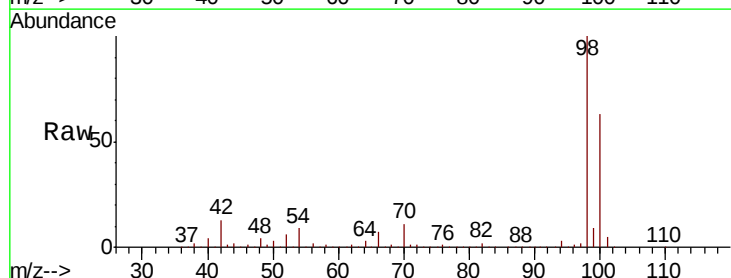


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

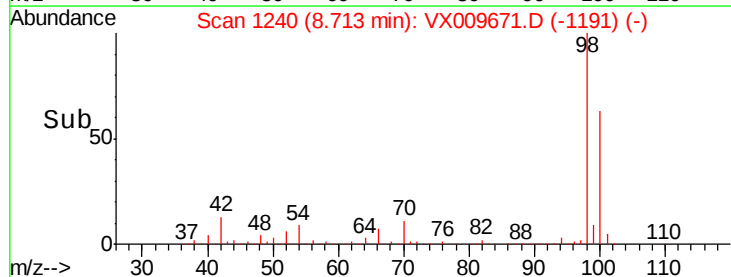
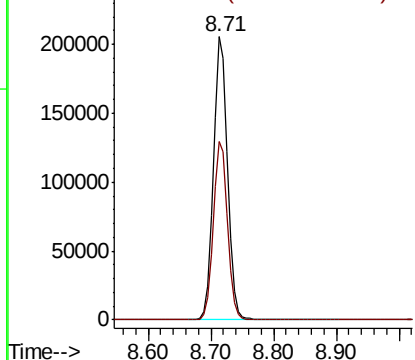


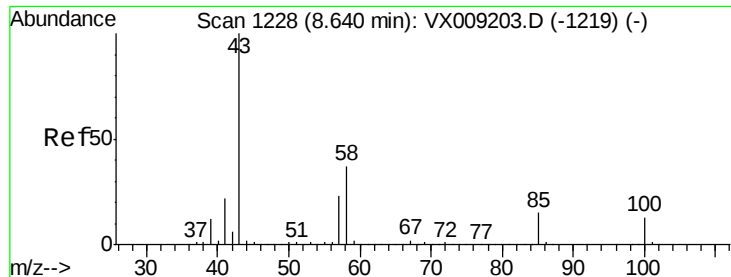
#50
Toluene-d8
Concen: 49.579 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009671.D
Acq: 17 May 2019 18:55

Tgt Ion: 98 Resp: 317151
Ion Ratio Lower Upper
98 100
100 63.8 51.2 76.8



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: 0.372 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

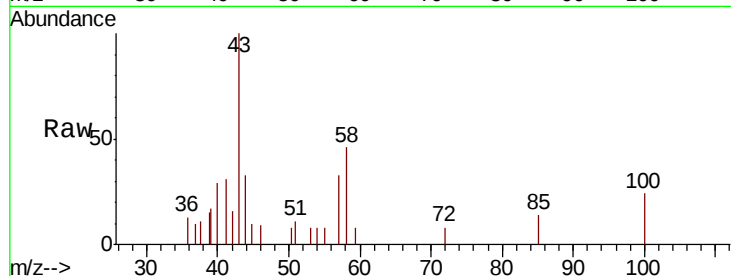
FEQC-FB-051619

Tot Ion: 43 Resp: 1270

Ion Ratio Lower Upper

43 100

58 44.2 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

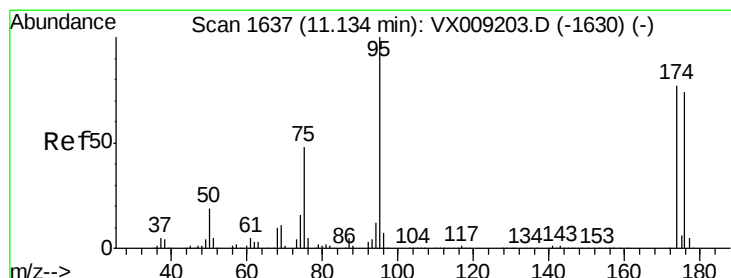
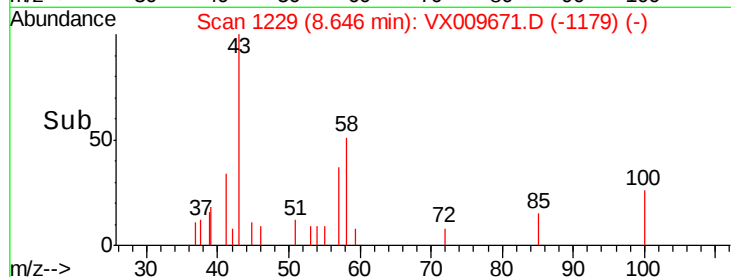
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.211 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

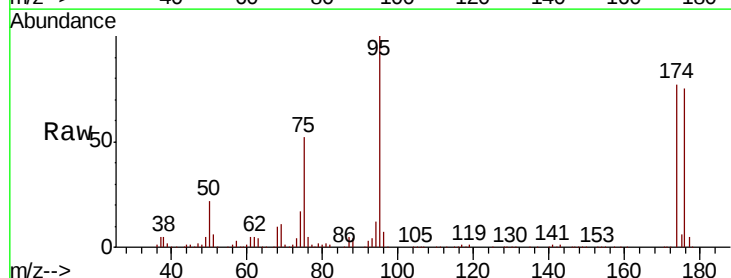
Tgt Ion: 95 Resp: 102764

Ion Ratio Lower Upper

95 100

174 82.1 0.0 161.6

176 80.4 0.0 159.2



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

100000

80000

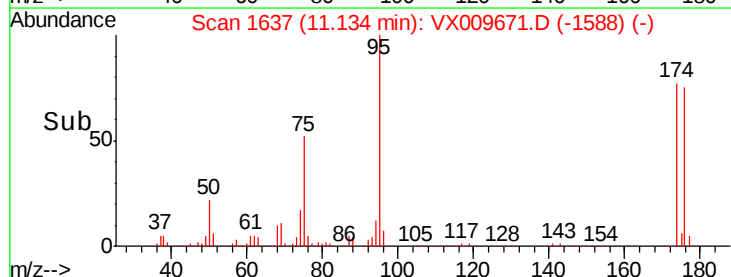
60000

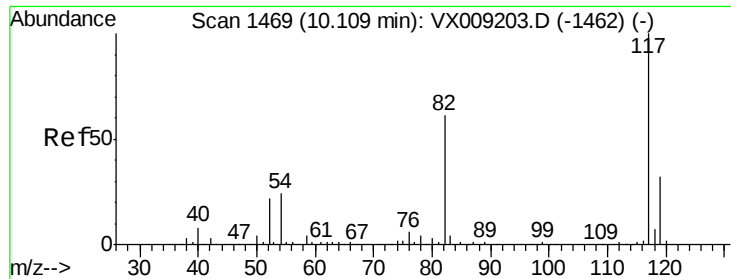
40000

20000

0

Time-->

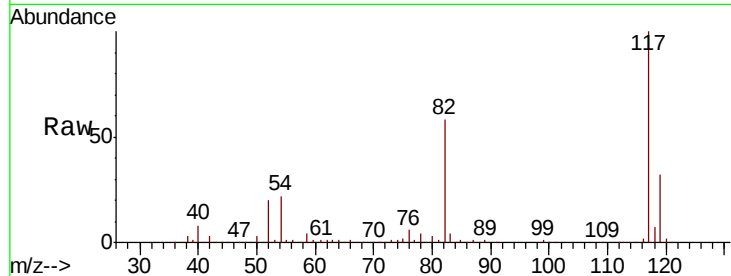




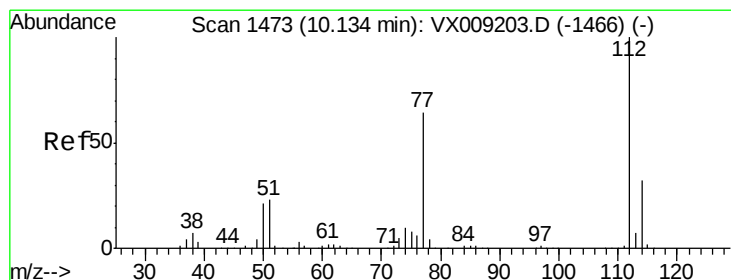
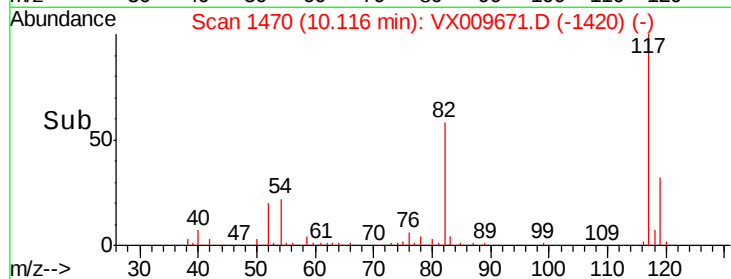
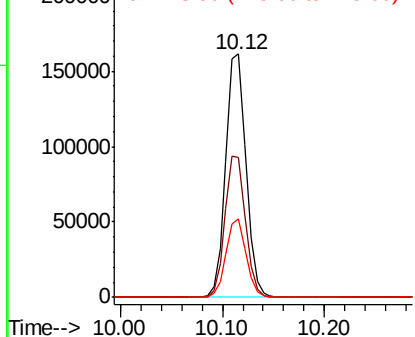
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009671.D
Acq: 17 May 2019 18:55

Instrument :
MSVOA_X
ClientSampleId :
FEQC-FB-051619

Tot Ion:117 Resp: 222590
Ion Ratio Lower Upper
117 100
82 57.7 48.8 73.2
119 32.2 25.8 38.6

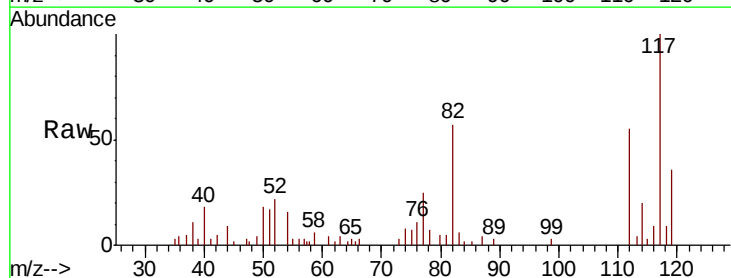


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

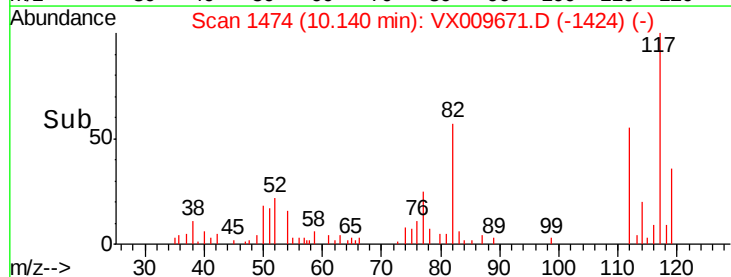
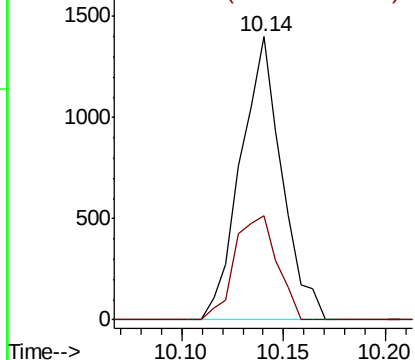


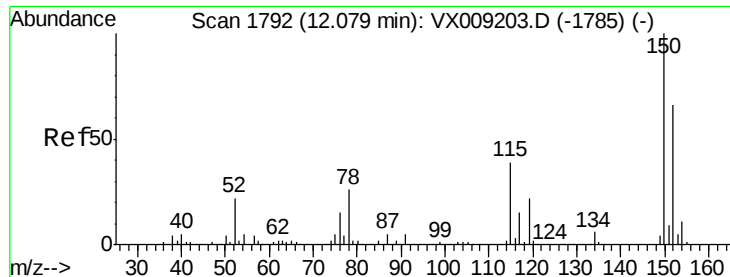
#65
Chlorobenzene
Concen: 0.441 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009671.D
Acq: 17 May 2019 18:55

Tgt Ion:112 Resp: 1964
Ion Ratio Lower Upper
112 100
114 36.7 25.5 38.3



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: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

FEQC-FB-051619

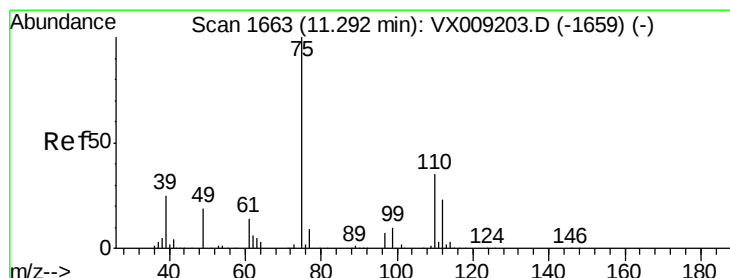
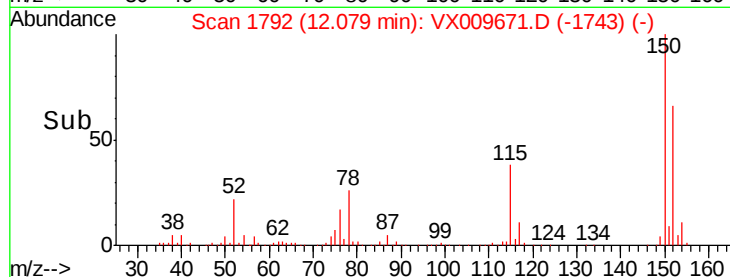
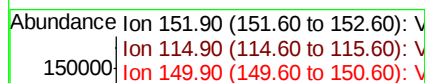
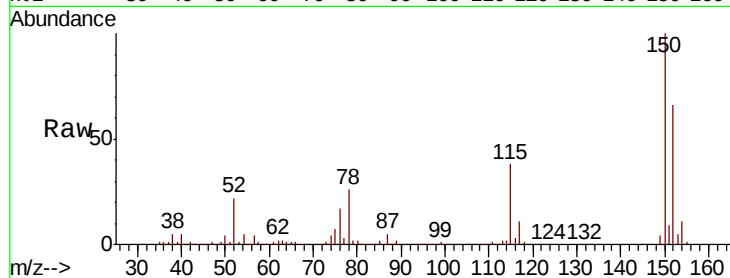
Tot Ion:152 Resp: 93582

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

150 154.9 0.0 346.4



#76

1,2,3-Trichloropropane

Concen: 24.371 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009671.D

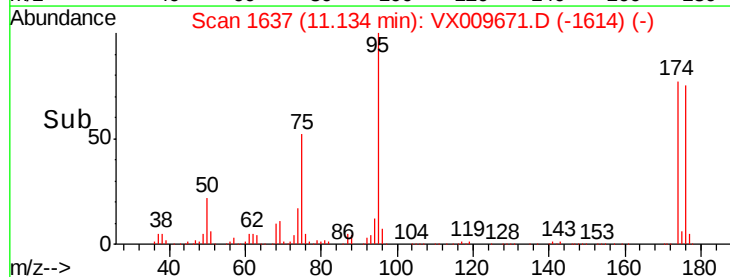
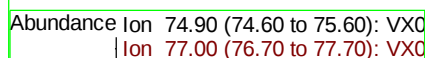
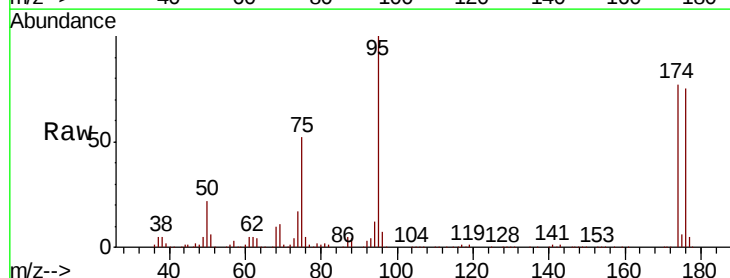
Acq: 17 May 2019 18:55

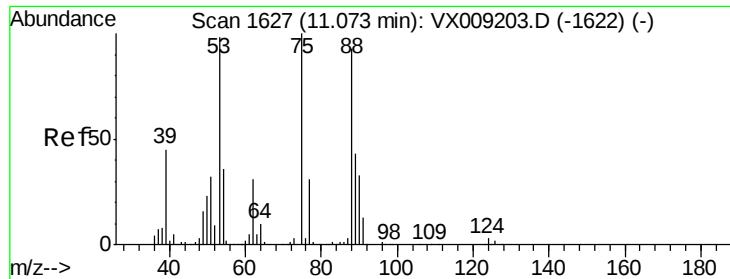
Tgt Ion: 75 Resp: 52903

Ion Ratio Lower Upper

75 100

77 1.5 22.1 66.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.356 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

FEQC-FB-051619

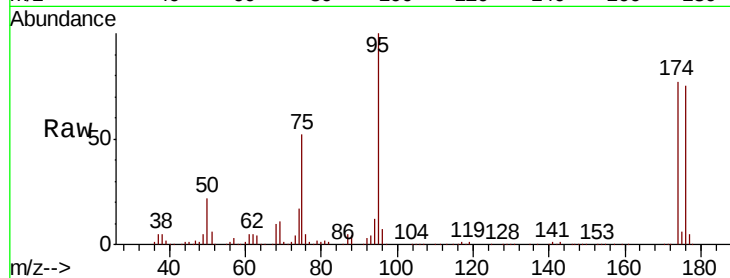
Tot Ion: 75 Resp: 52903

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

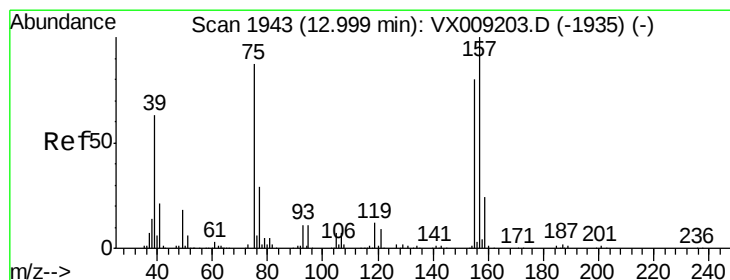
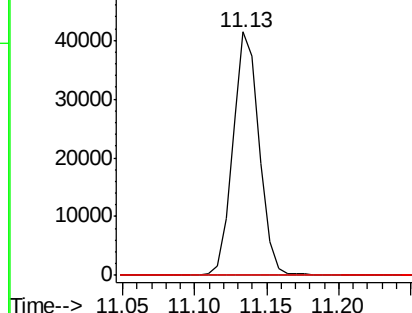
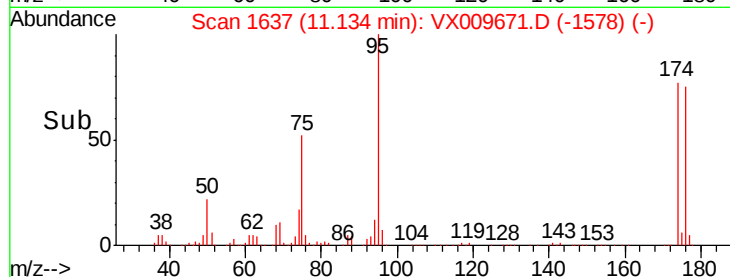
89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.541 ug/l

RT: 12.98 min Scan# 1940

Delta R.T. -0.02 min

Lab File: VX009671.D

Acq: 17 May 2019 18:55

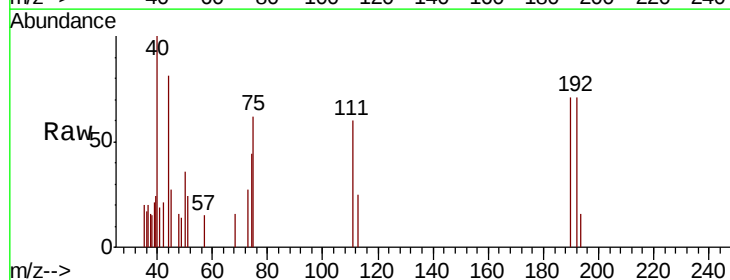
Tgt Ion: 75 Resp: 308

Ion Ratio Lower Upper

75 100

155 0.0 42.0 126.0#

157 0.0 53.2 159.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

