

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009693.D
 Acq On : 18 May 2019 04:42
 Operator : JC/SP
 Sample : K2901-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

Quant Time: May 18 06:27:01 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	169004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	268694	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	229957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	89882	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	112110	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
35) Dibromofluoromethane	5.50	113	81570	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
50) Toluene-d8	8.71	98	336516	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
62) 4-Bromofluorobenzene	11.13	95	105634	42.63	ug/l	0.00
Spiked Amount			Recovery	=	85.26%	

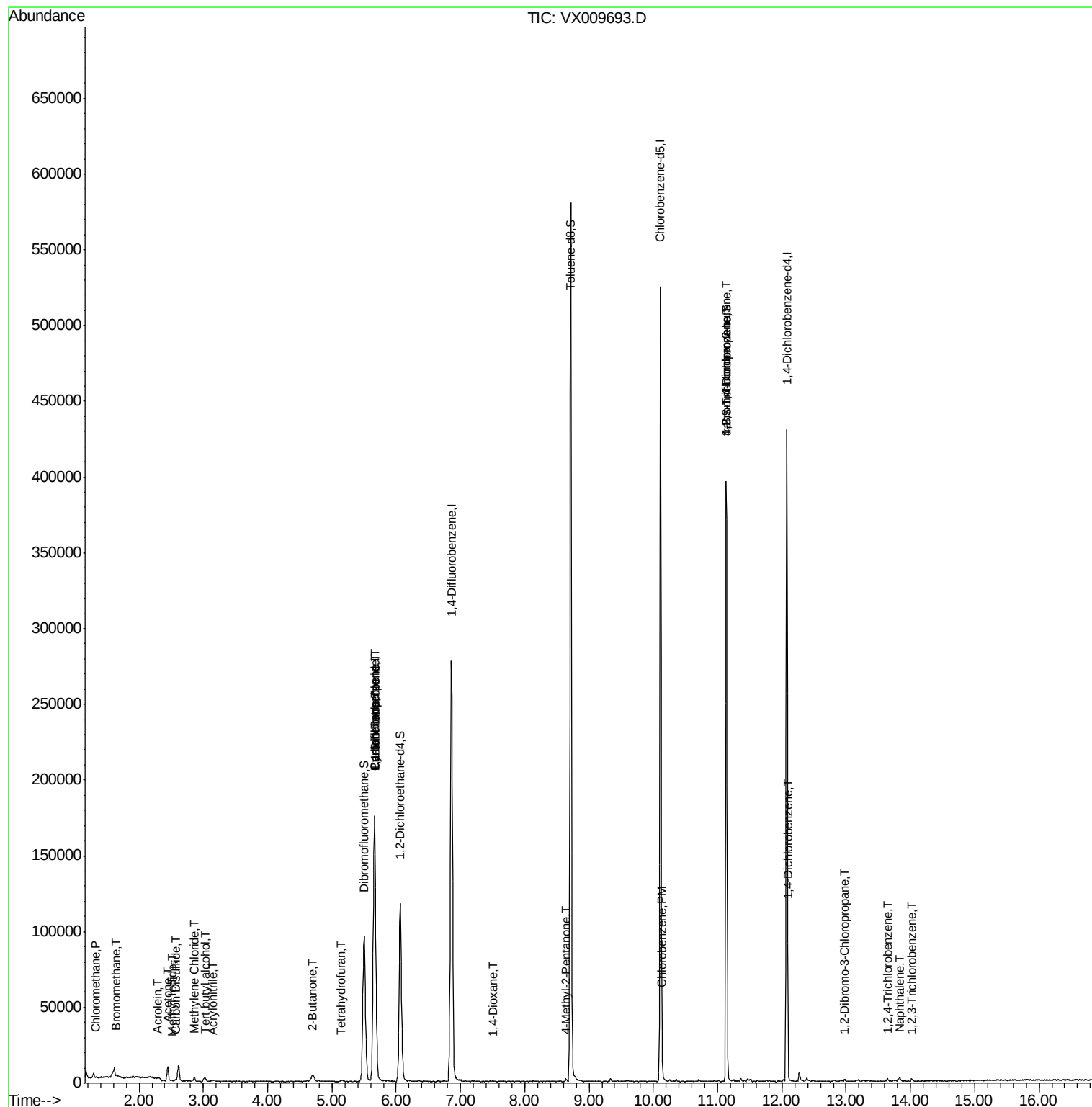
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	510	0.240	ug/l #	82
5) Bromomethane	1.65	94	506	0.407	ug/l #	68
10) Methyl Iodide	2.52	142	576	4.878	ug/l #	74
11) Tert butyl alcohol	3.03	59	1813	3.395	ug/l #	76
13) Acrolein	2.28	56	232	0.480	ug/l #	14
15) Acrylonitrile	3.15	53	479	0.367	ug/l #	76
16) Acetone	2.45	43	9919	8.007	ug/l	98
17) Carbon Disulfide	2.57	76	1460	0.328	ug/l #	91
20) Methylene Chloride	2.85	84	1016	0.507	ug/l #	86
25) 2-Butanone	4.70	43	1795	0.932	ug/l #	81
28) Bromochloromethane	4.99	49	52	Below Cal	#	20
29) Tetrahydrofuran	5.14	42	1106	0.893	ug/l	97
31) Cyclohexane	5.67	56	3935	1.154	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13397	5.365	ug/l #	51
38) Carbon Tetrachloride	5.67	117	15676	6.910	ug/l #	15
49) 1,4-Dioxane	7.49	88	19	0.339	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	945	0.260	ug/l	94
65) Chlorobenzene	10.14	112	1515	0.329	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	53556	25.687	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	53556	65.724	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	701	0.240	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.97	75	210	0.384	ug/l #	2
93) 1,2,4-Trichlorobenzene	13.65	180	462	0.229	ug/l	98
95) Naphthalene	13.83	128	1459	0.223	ug/l #	91
96) 1,2,3-Trichlorobenzene	14.02	180	496	0.243	ug/l	91

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 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: VX009693.D

Acq: 18 May 2019 04:42

Instrument :

MSVOA_X

ClientSampleId :

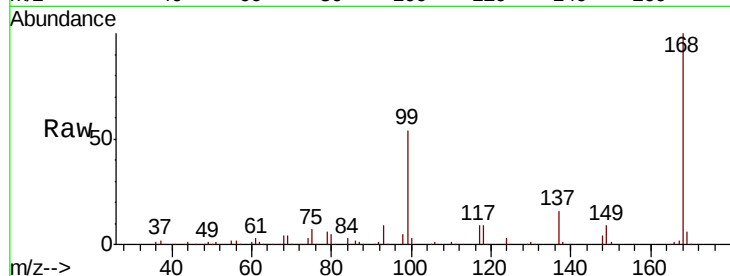
BFB

Tot Ion:168 Resp: 169004

Ion Ratio Lower Upper

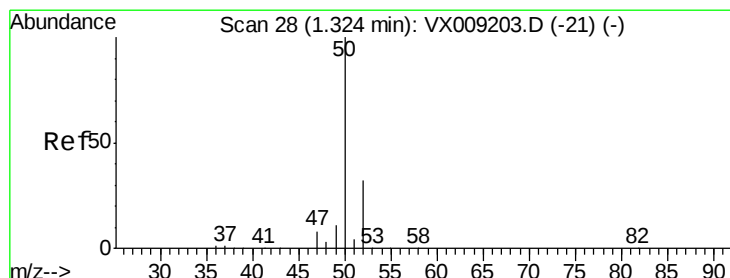
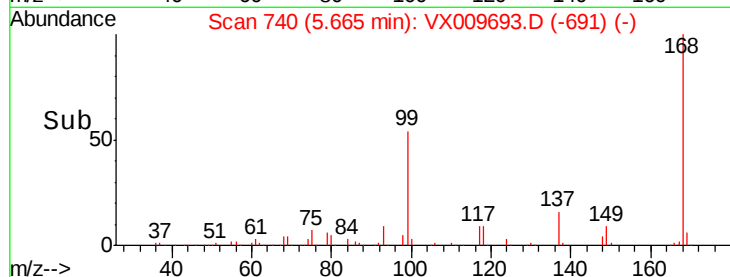
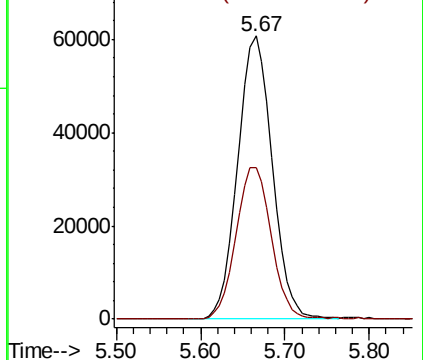
168 100

99 53.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.240 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009693.D

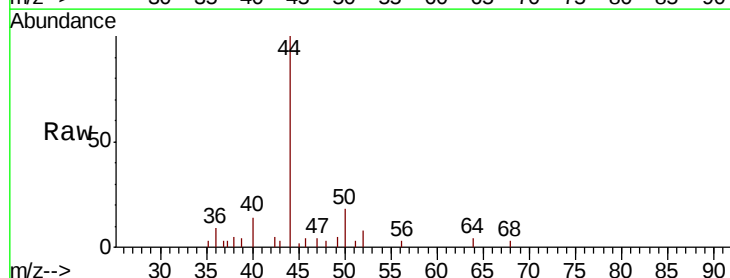
Acq: 18 May 2019 04:42

Tgt Ion: 50 Resp: 510

Ion Ratio Lower Upper

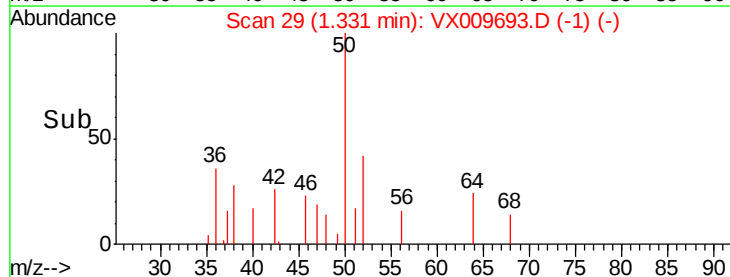
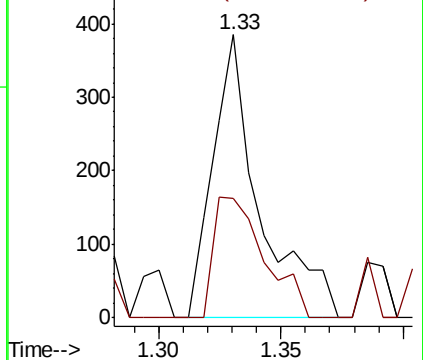
50 100

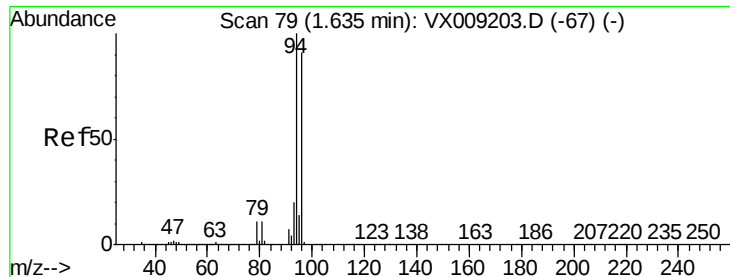
52 42.3 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.407 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

Instrument :

MSVOA_X

ClientSampled :

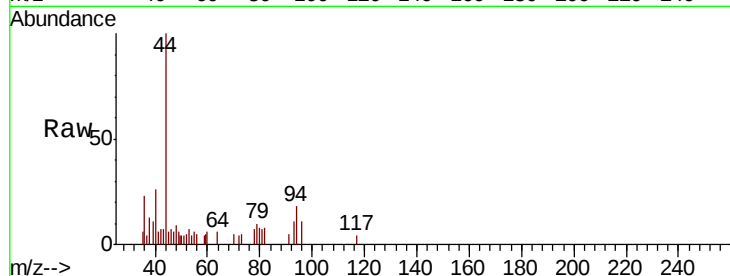
BFB

Tot Ion: 94 Resp: 506

Ion Ratio Lower Upper

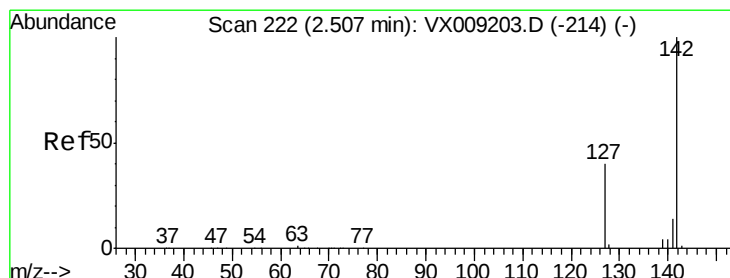
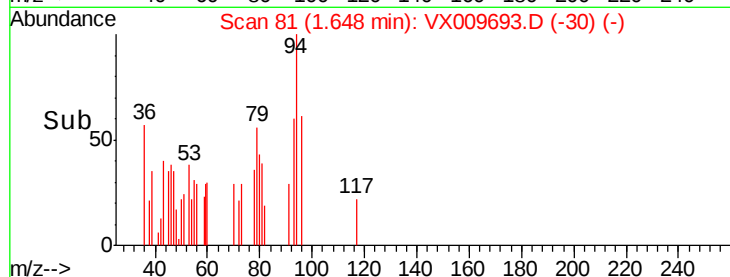
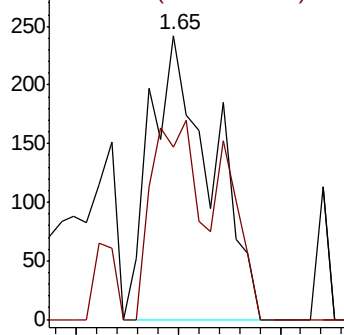
94 100

96 60.7 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: 4.878 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

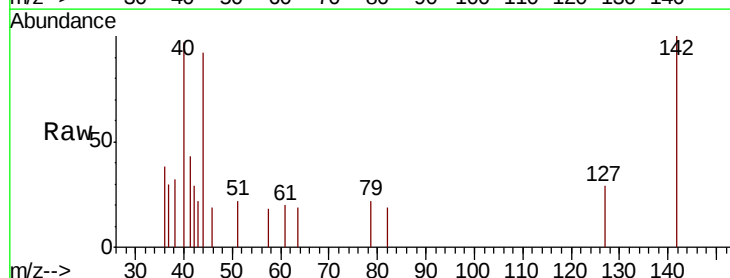
Tgt Ion: 142 Resp: 576

Ion Ratio Lower Upper

142 100

127 56.8 32.7 49.1#

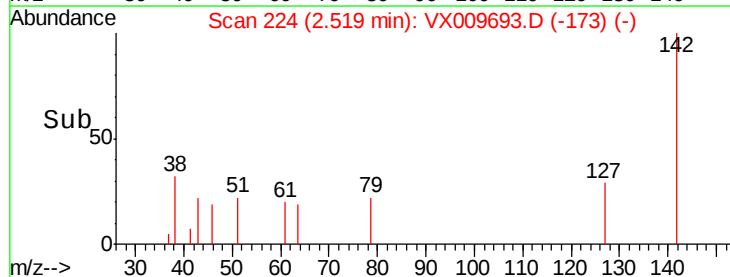
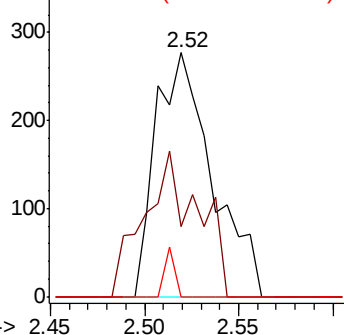
141 3.5 11.5 17.3#

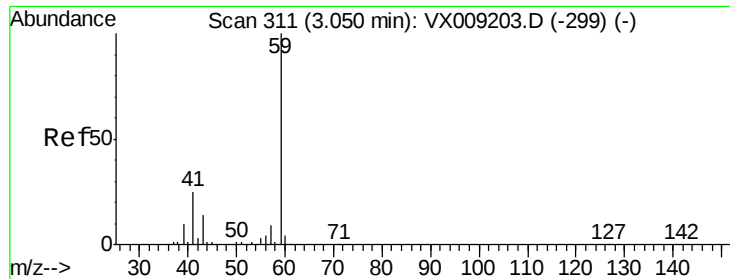


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

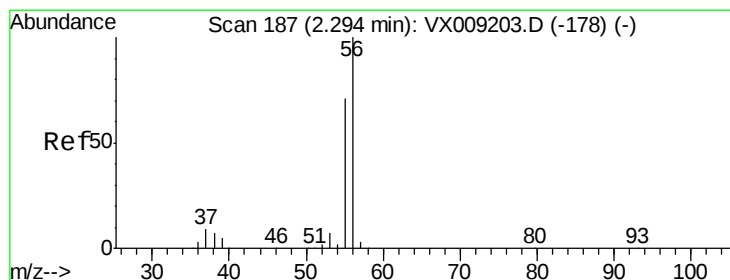
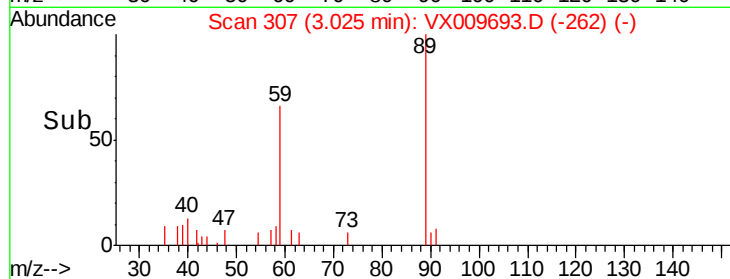
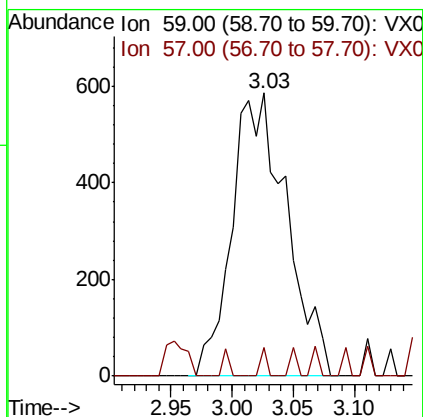
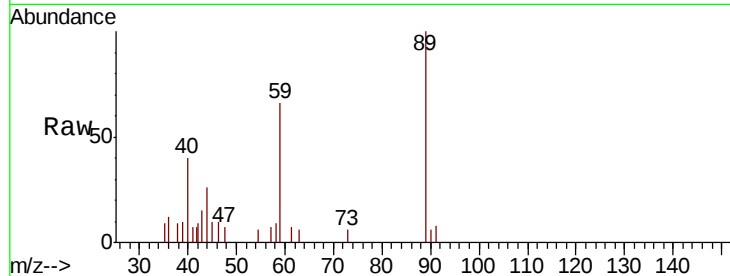




#11
Tert butyl alcohol
Concen: 3.395 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009693.D
Acq: 18 May 2019 04:42

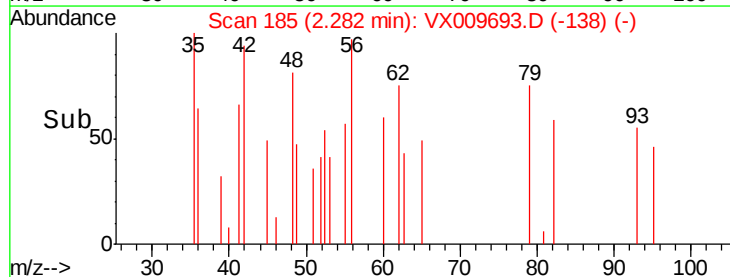
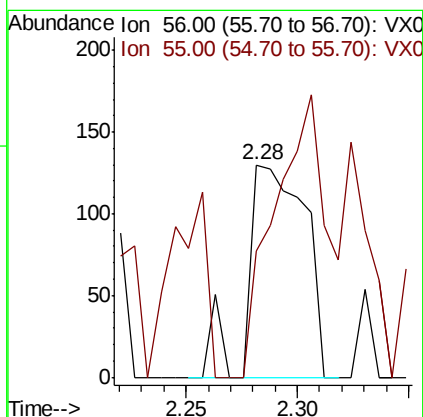
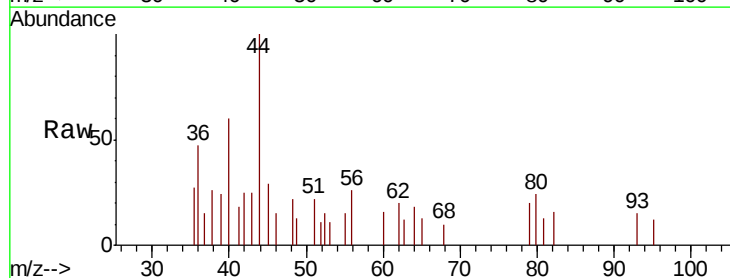
Instrument :
MSVOA_X
ClientSampled :
BFB

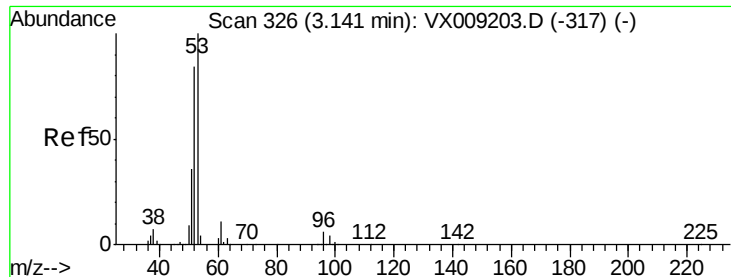
Tot Ion: 59 Resp: 1813
Ion Ratio Lower Upper
59 100
57 1.2 8.2 12.2#



#13
Acrolein
Concen: 0.480 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX009693.D
Acq: 18 May 2019 04:42

Tgt Ion: 56 Resp: 232
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#





#15

Acrylonitrile

Concen: 0.367 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

Instrument :

MSVOA_X

ClientSampleId :

BFB

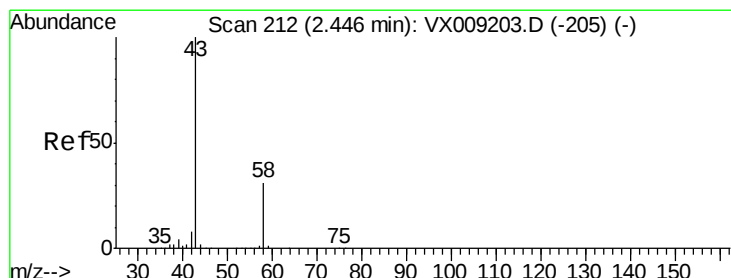
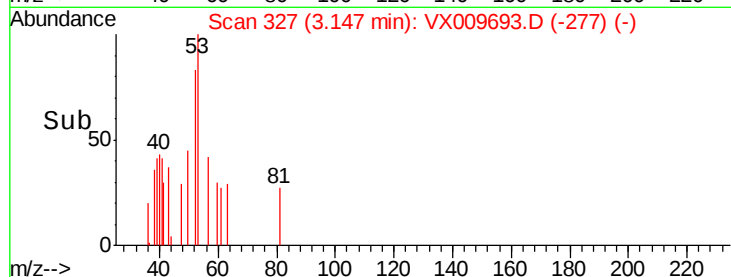
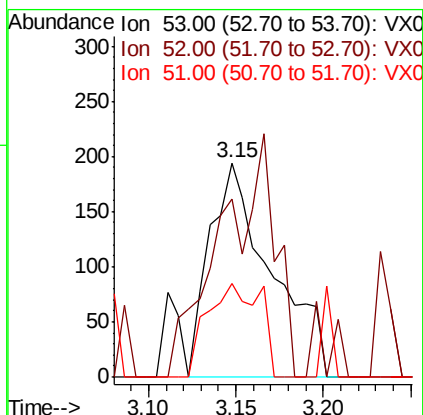
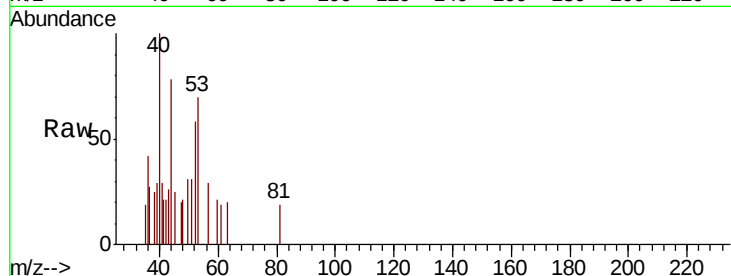
Tot Ion: 53 Resp: 479

Ion Ratio Lower Upper

53 100

52 53.7 66.9 100.3#

51 36.7 28.2 42.2



#16

Acetone

Concen: 8.007 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009693.D

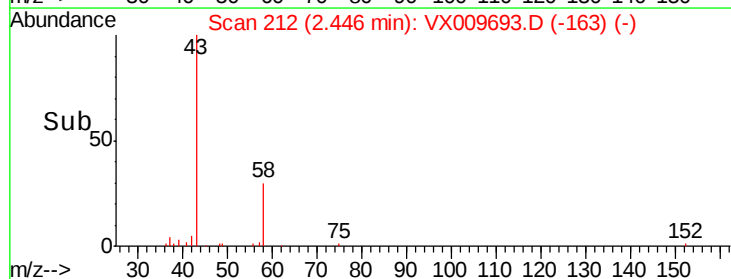
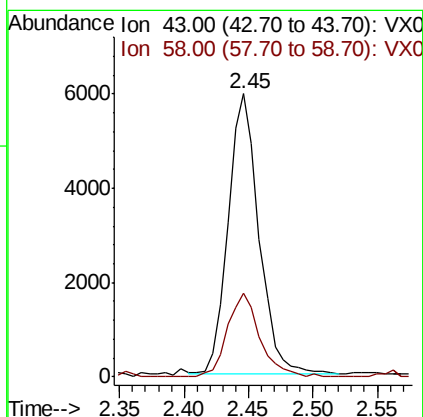
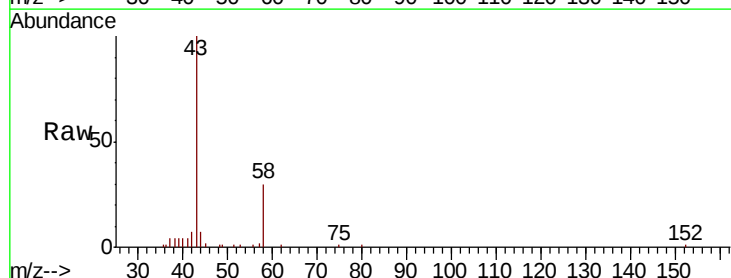
Acq: 18 May 2019 04:42

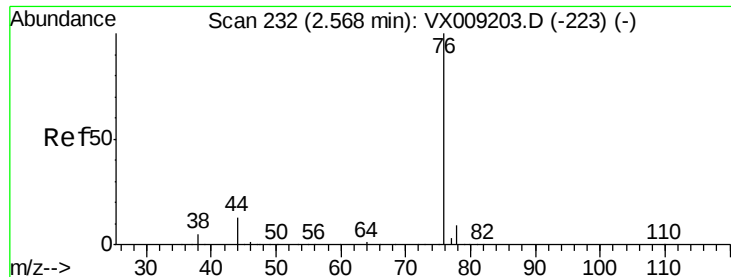
Tgt Ion: 43 Resp: 9919

Ion Ratio Lower Upper

43 100

58 29.9 24.9 37.3





#17

Carbon Disulfide

Concen: 0.328 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

Instrument :

MSVOA_X

ClientSampled :

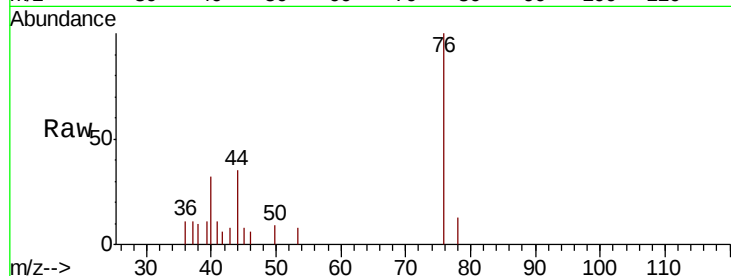
BFB

Tot Ion: 76 Resp: 1460

Ion Ratio Lower Upper

76 100

78 12.6 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

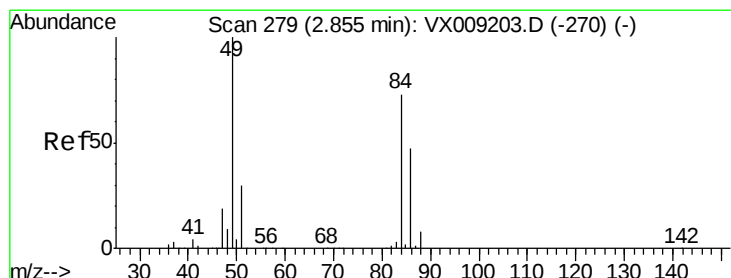
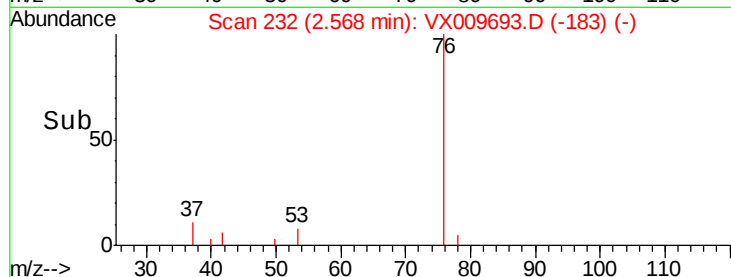
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 0.507 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

Tgt Ion: 84 Resp: 1016

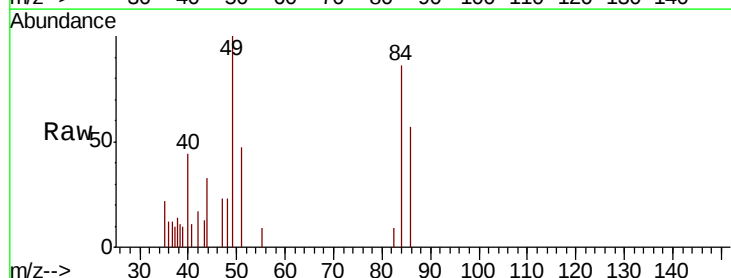
Ion Ratio Lower Upper

84 100

49 116.5 109.9 164.9

51 55.0 32.7 49.1#

86 66.6 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

1200

1000

800

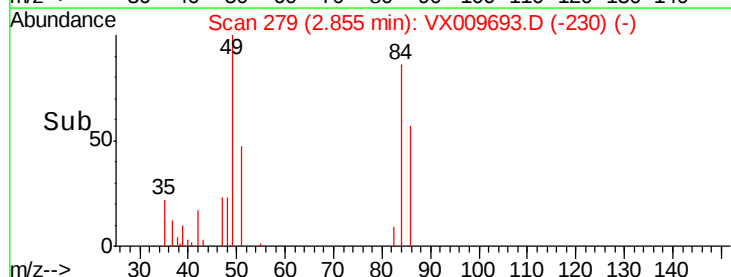
600

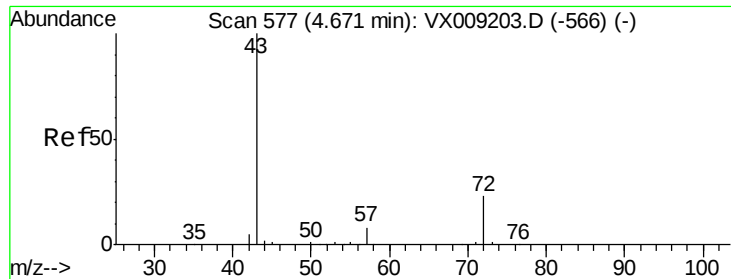
400

200

0

Time-->





#25

2-Butanone

Concen: 0.932 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

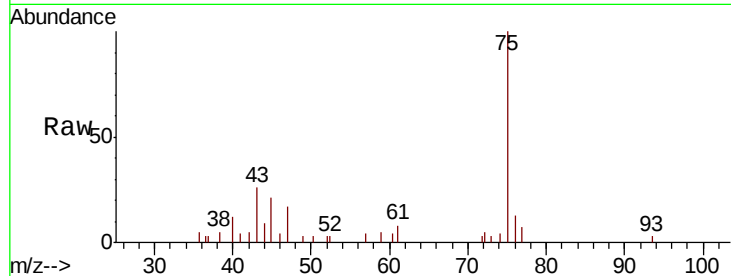
Instrument :
MSVOA_X
ClientSampled :
BFB

Tot Ion: 43 Resp: 1795

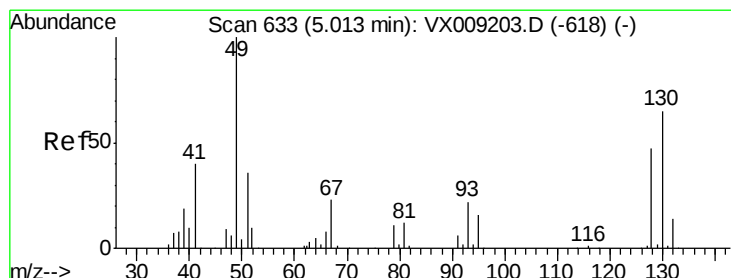
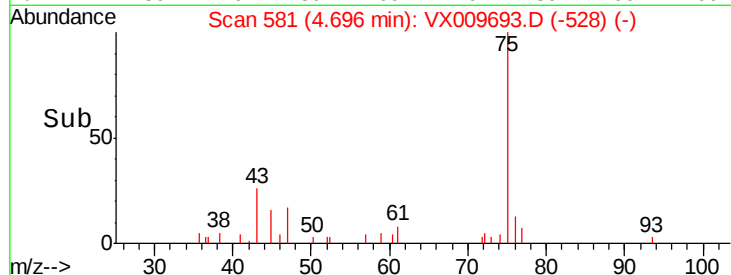
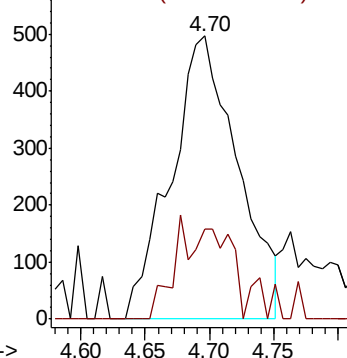
Ion Ratio Lower Upper

43 100

72 32.0 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

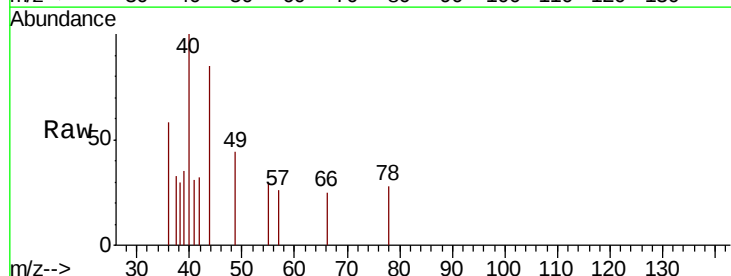
Tgt Ion: 49 Resp: 52

Ion Ratio Lower Upper

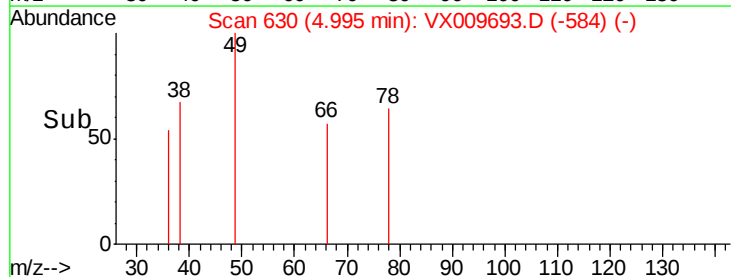
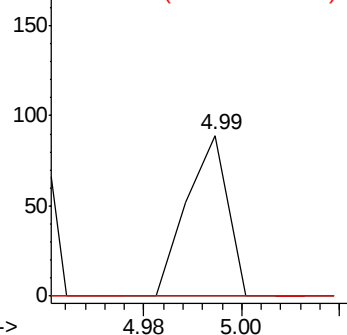
49 100

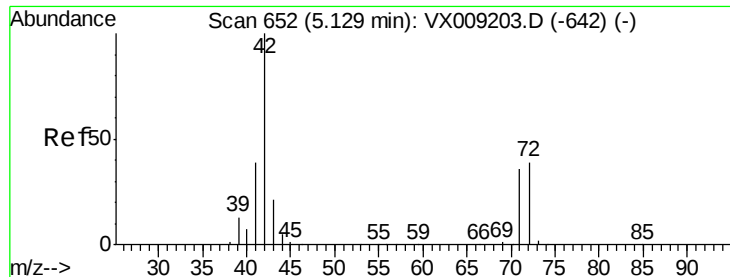
129 0.0 0.0 3.8

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

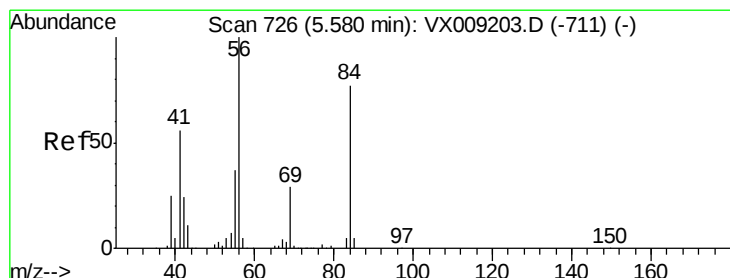
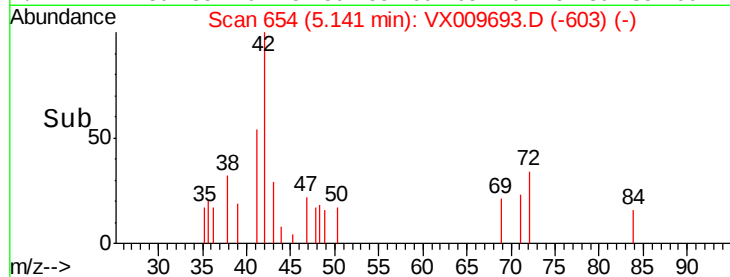
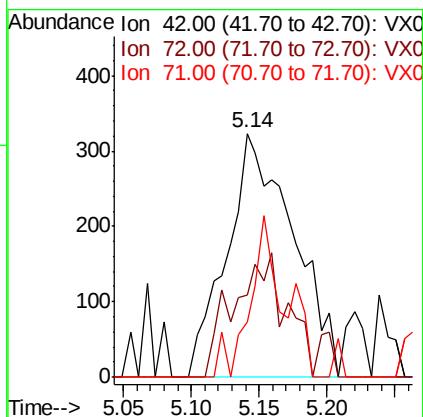
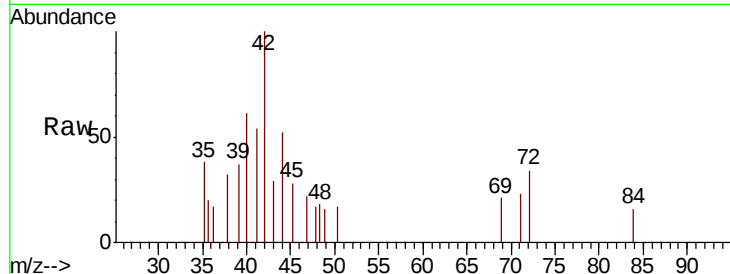




#29
Tetrahydrofuran
Concen: 0.893 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX009693.D
Acq: 18 May 2019 04:42

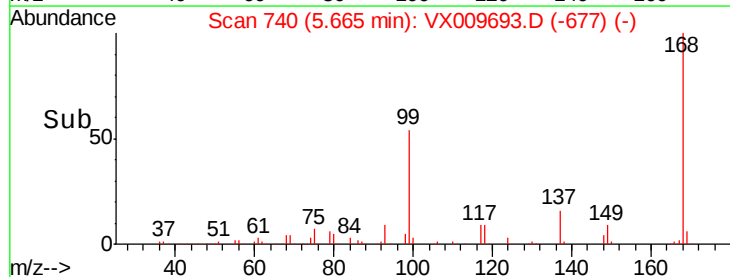
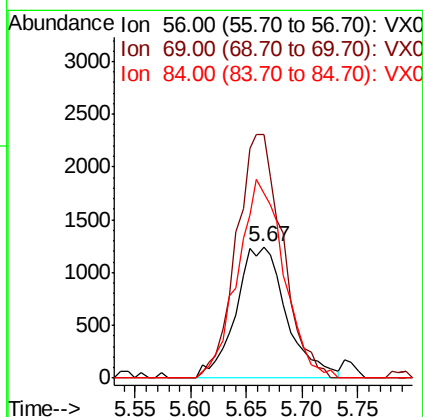
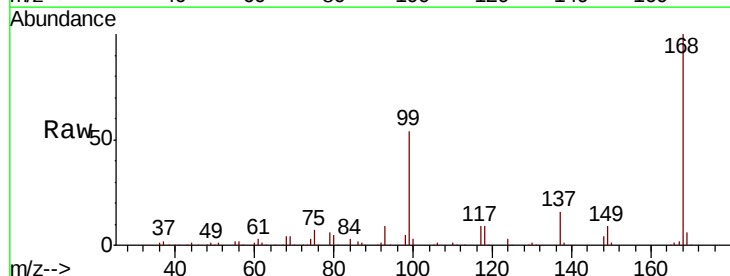
Instrument :
MSVOA_X
ClientSampled :
BFB

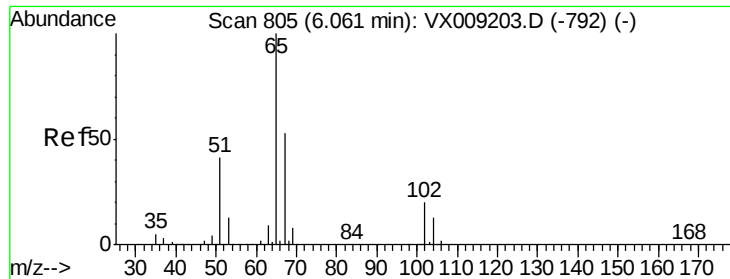
Tot Ion: 42 Resp: 1106
Ion Ratio Lower Upper
42 100
72 40.3 30.4 45.6
71 34.6 28.6 43.0



#31
Cyclohexane
Concen: 1.154 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX009693.D
Acq: 18 May 2019 04:42

Tgt Ion: 56 Resp: 3935
Ion Ratio Lower Upper
56 100
69 185.7 23.4 35.0#
84 140.7 61.9 92.9#

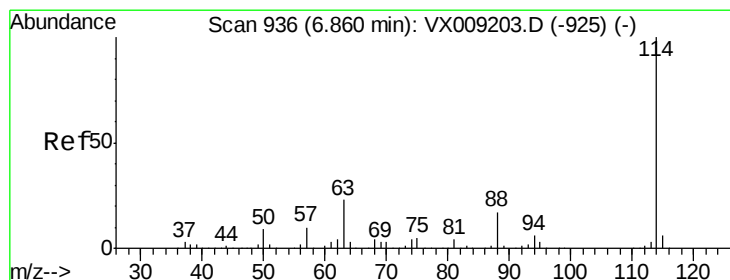
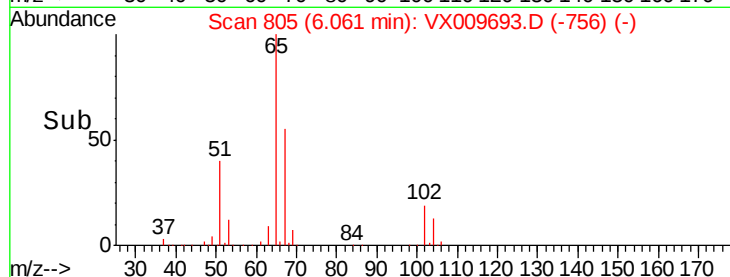
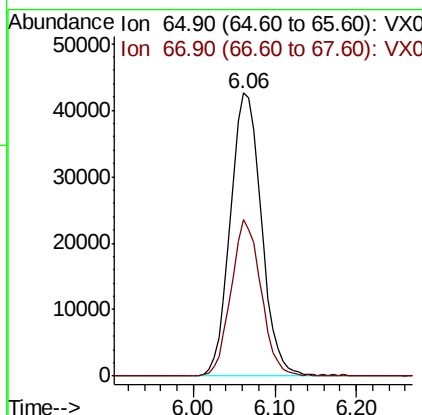
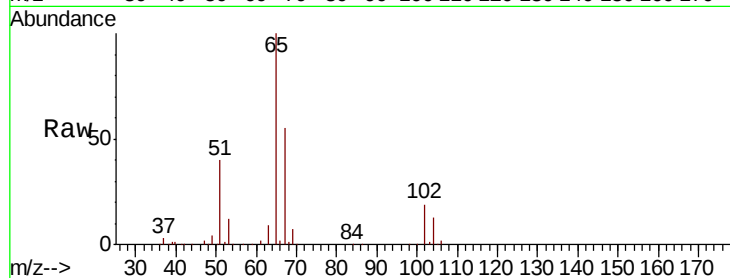




#33
 1,2-Dichloroethane-d4
 Concen: 48.593 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009693.D
 Acq: 18 May 2019 04:42

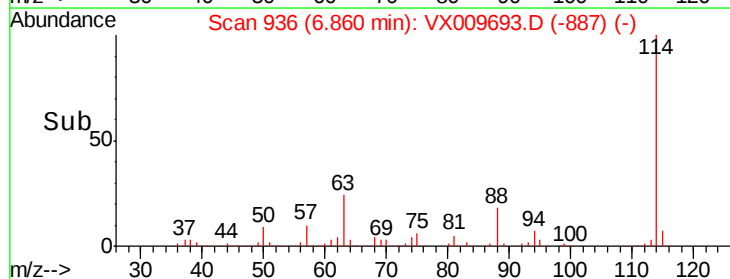
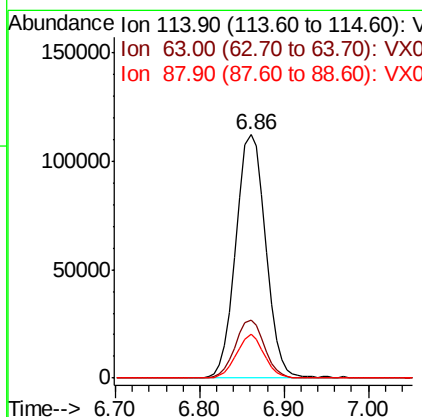
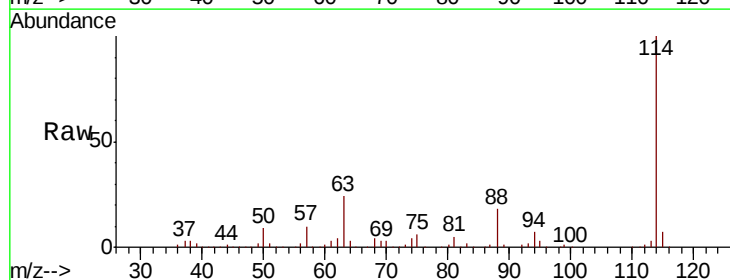
Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

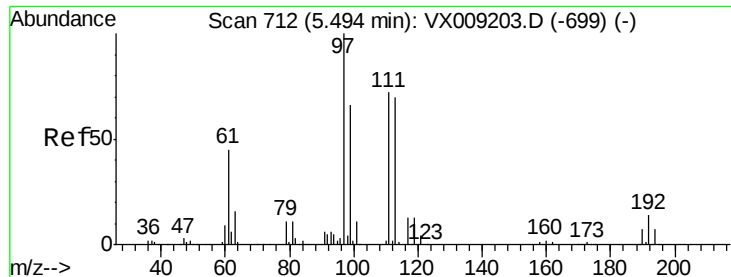
Tot Ion: 65 Resp: 112110
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009693.D
 Acq: 18 May 2019 04:42

Tgt Ion: 114 Resp: 268694
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 45.6
 88 17.9 0.0 33.2

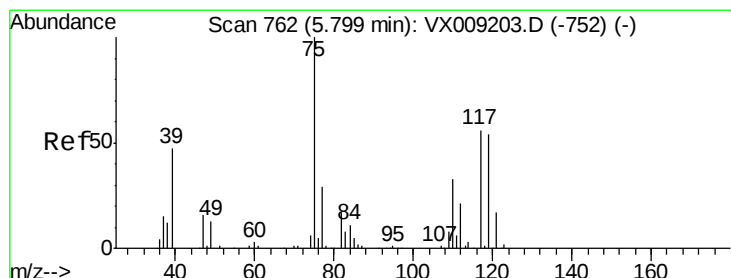
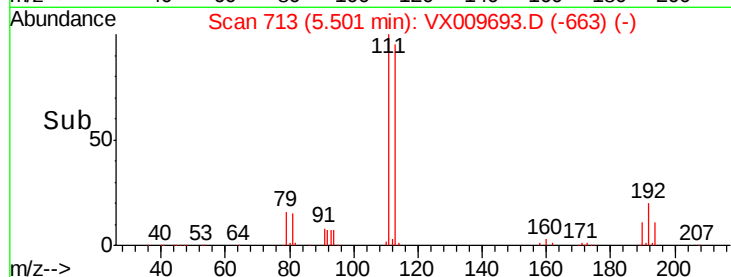
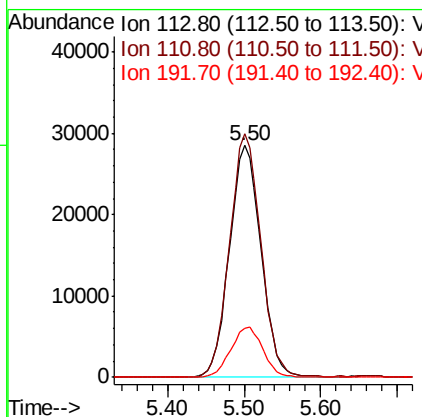
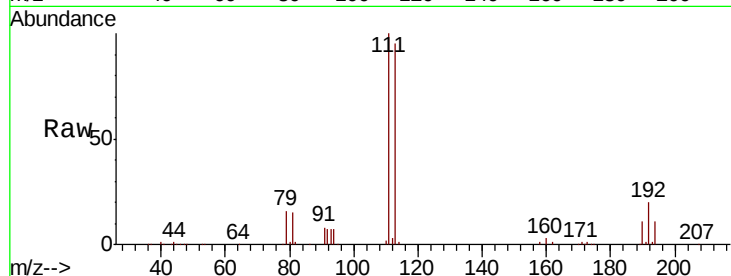




#35
 Dibromofluoromethane
 Concen: 48.291 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009693.D
 Acq: 18 May 2019 04:42

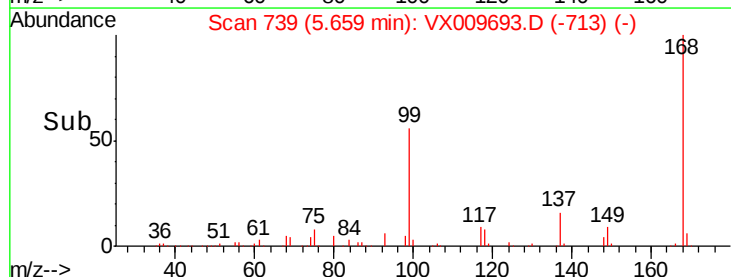
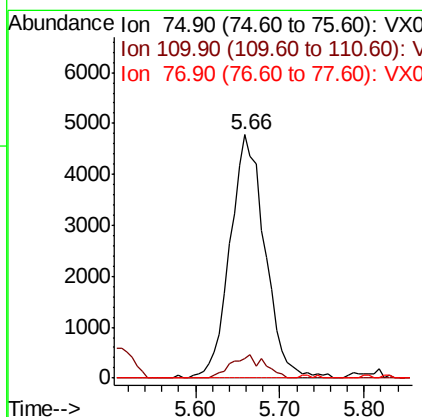
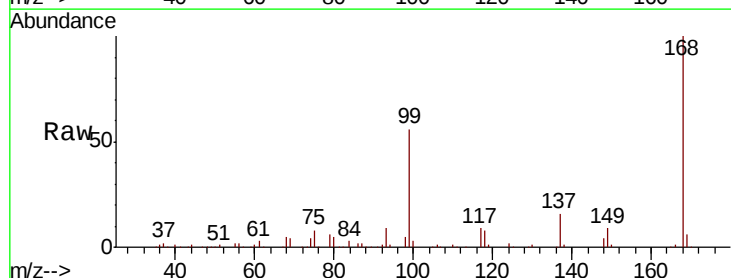
Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

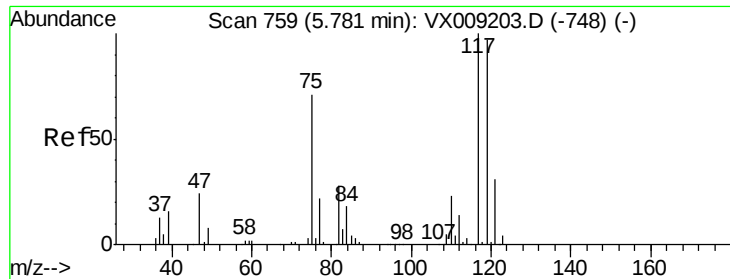
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.8	124.2
192	22.1	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 5.365 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009693.D
 Acq: 18 May 2019 04:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.9	50.6#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.910 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

Instrument :

MSVOA_X

ClientSampled :

BFB

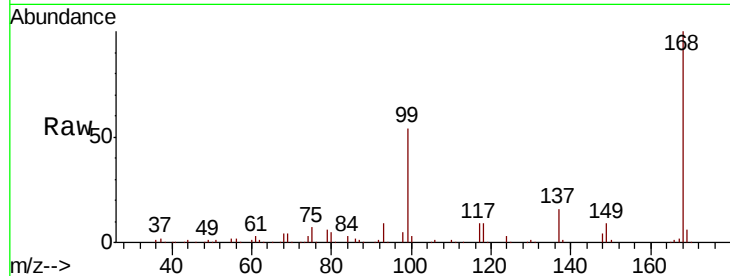
Tot Ion:117 Resp: 15676

Ion Ratio Lower Upper

117 100

119 4.5 77.5 116.3#

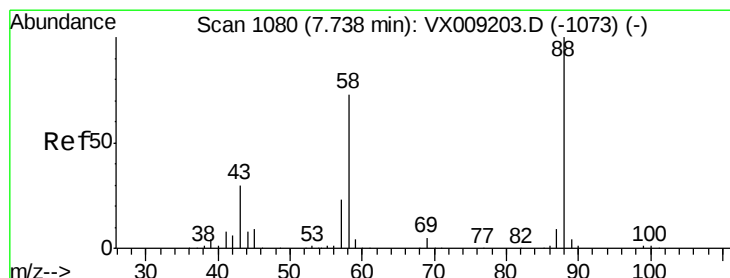
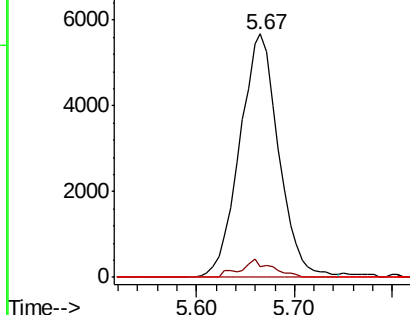
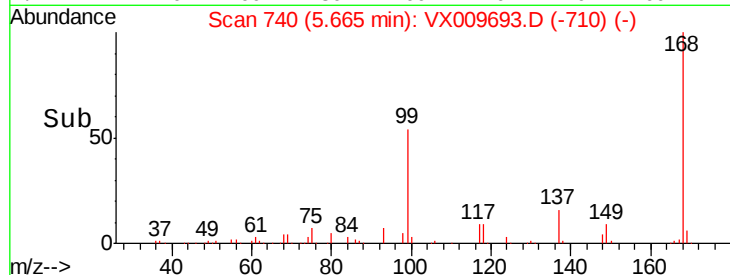
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 0.339 ug/l

RT: 7.49 min Scan# 1040

Delta R.T. -0.24 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

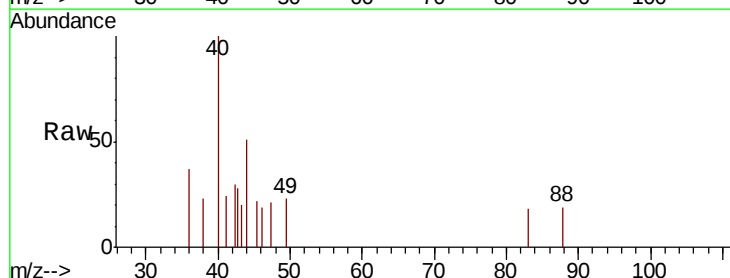
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 242.1 28.6 42.8#

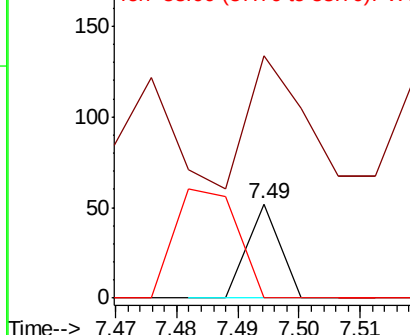
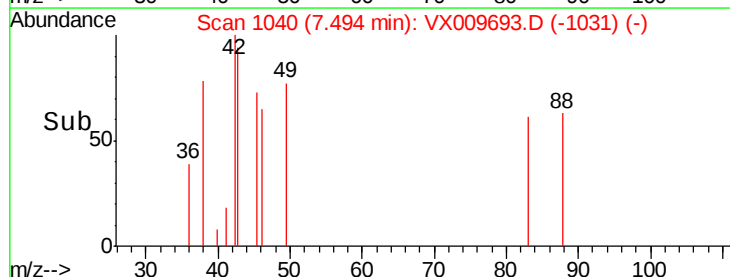
58 0.0 61.7 92.5#

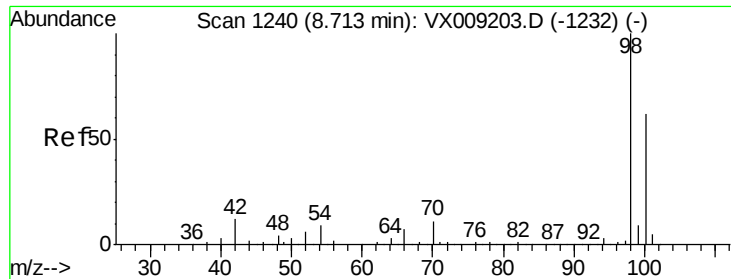


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.347 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

Instrument :

MSVOA_X

ClientSampled :

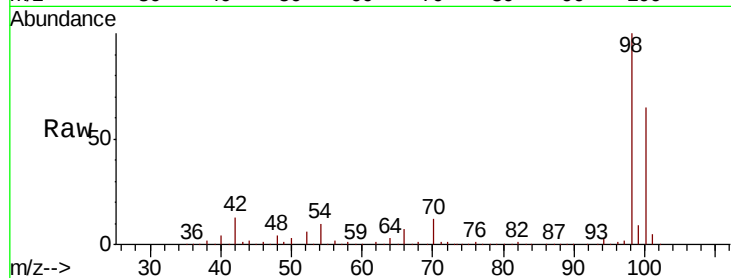
BFB

Tot Ion: 98 Resp: 336516

Ion Ratio Lower Upper

98 100

100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

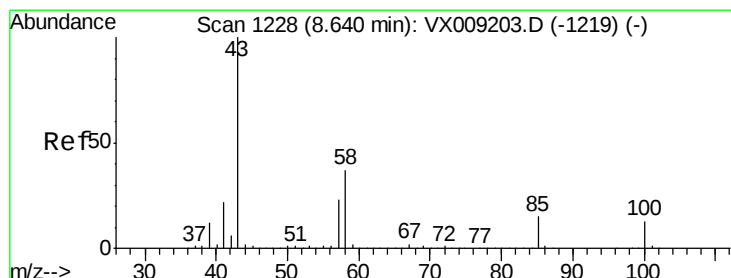
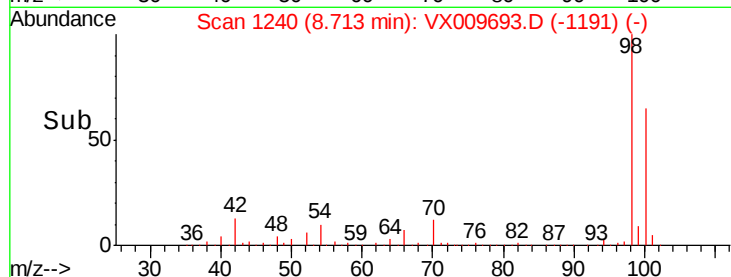
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 0.260 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VX009693.D

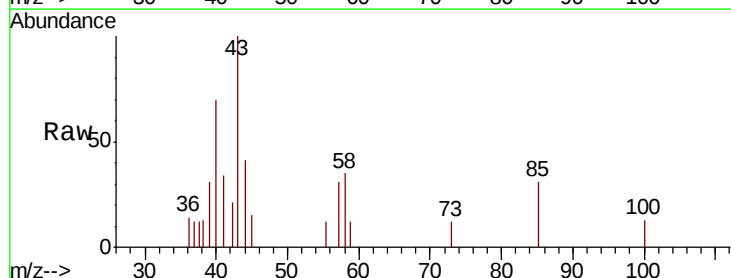
Acq: 18 May 2019 04:42

Tgt Ion: 43 Resp: 945

Ion Ratio Lower Upper

43 100

58 40.2 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

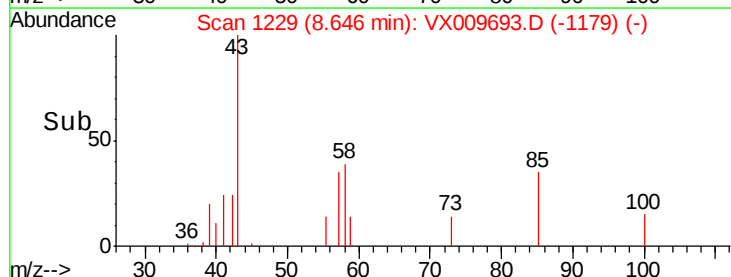
1500

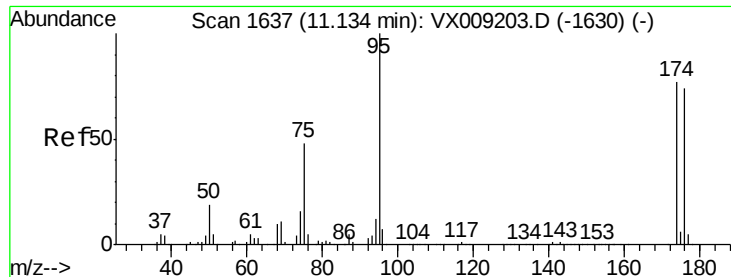
1000

500

0

Time--> 8.55 8.60 8.65 8.70





#62

4-Bromofluorobenzene

Concen: 42.630 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

Instrument :

MSVOA_X

ClientSampled :

BFB

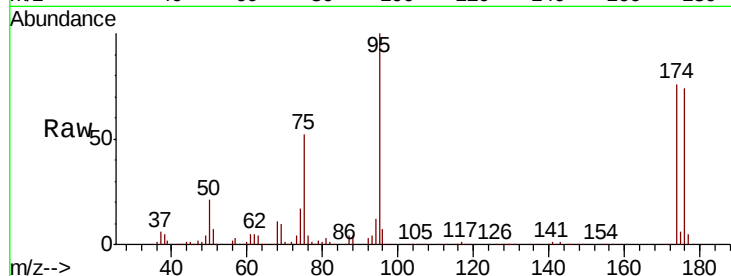
Tot Ion: 95 Resp: 105634

Ion Ratio Lower Upper

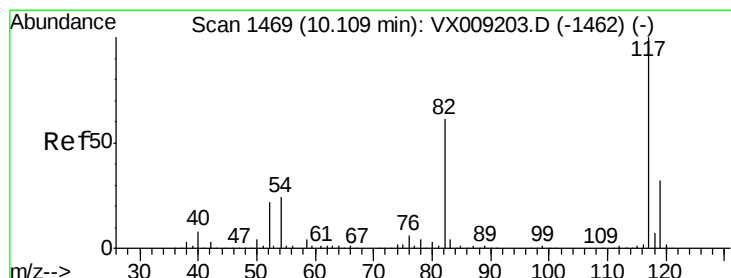
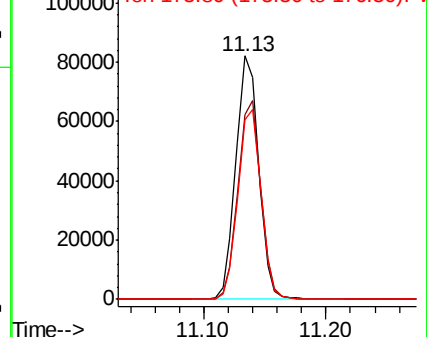
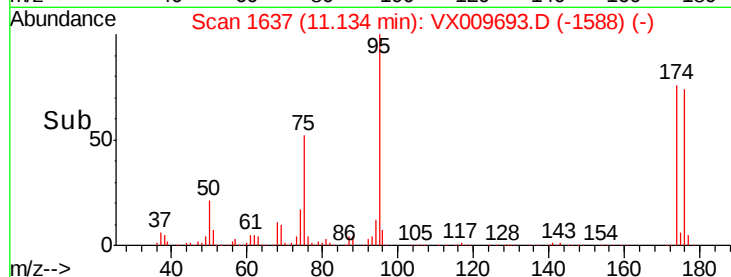
95 100

174 81.8 0.0 161.6

176 79.2 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009693.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

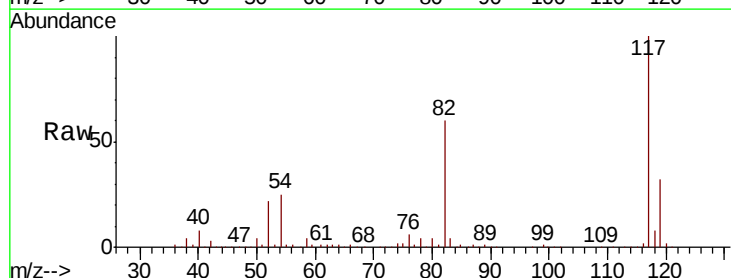
Tgt Ion: 117 Resp: 229957

Ion Ratio Lower Upper

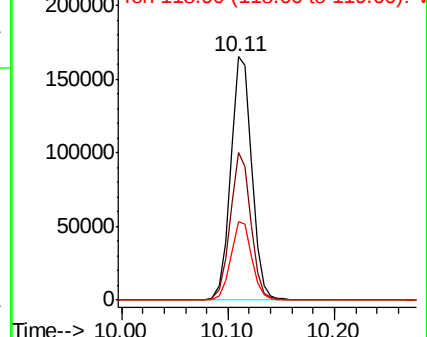
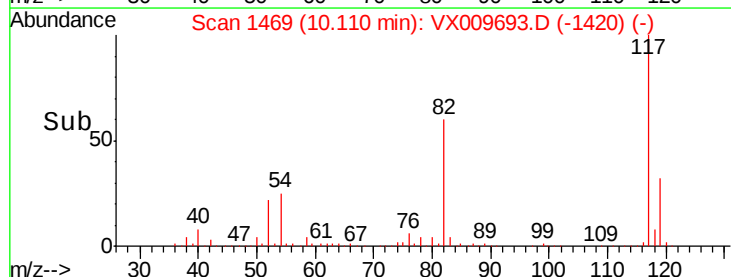
117 100

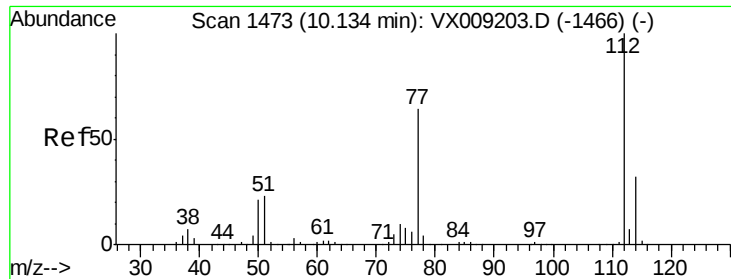
82 60.4 48.8 73.2

119 32.1 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX009693.D (-1420) (-)

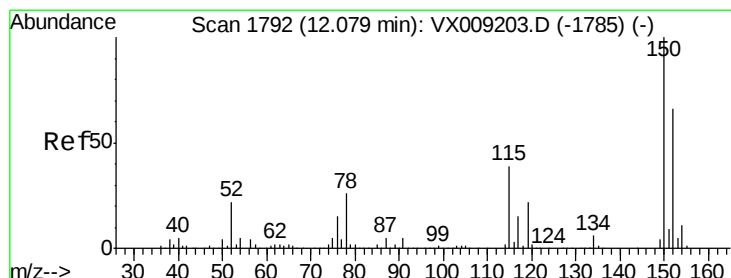
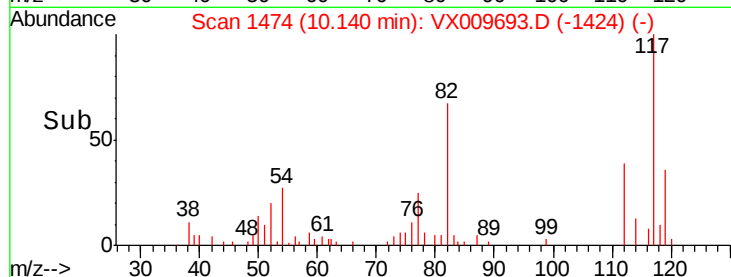
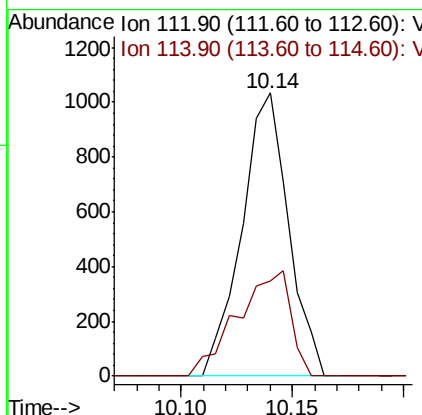
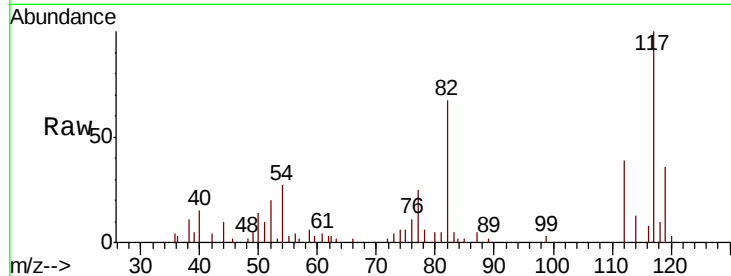




#65
Chlorobenzene
Concen: 0.329 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009693.D
Acq: 18 May 2019 04:42

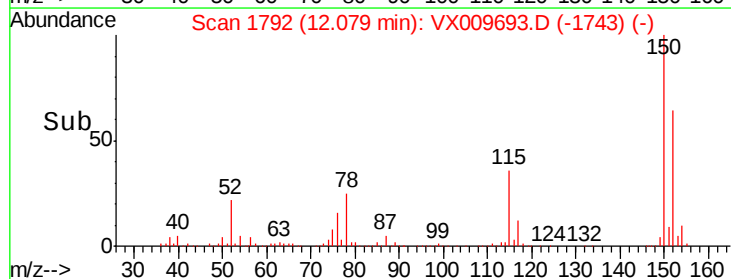
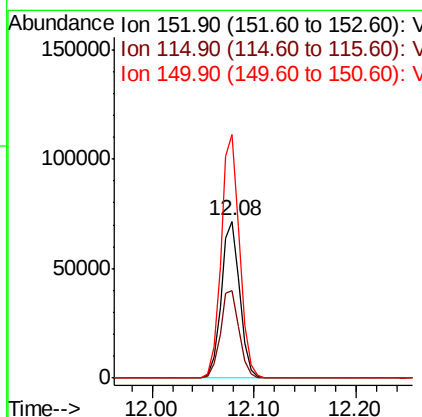
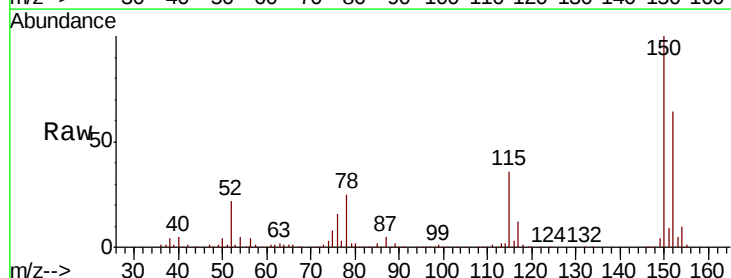
Instrument :
MSVOA_X
ClientSampled :
BFB

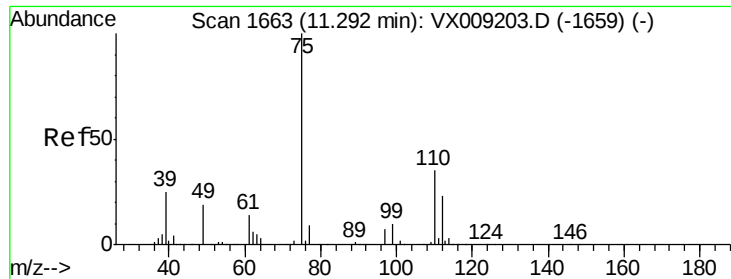
Tot Ion:112 Resp: 1515
Ion Ratio Lower Upper
112 100
114 33.8 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009693.D
Acq: 18 May 2019 04:42

Tgt Ion:152 Resp: 89882
Ion Ratio Lower Upper
152 100
115 57.4 41.2 123.6
150 155.7 0.0 346.4

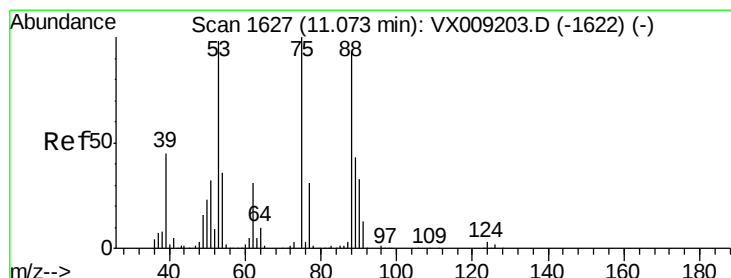
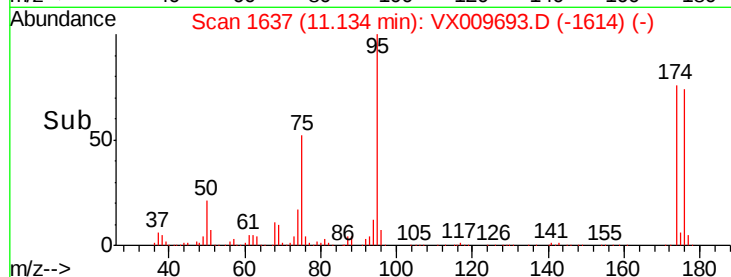
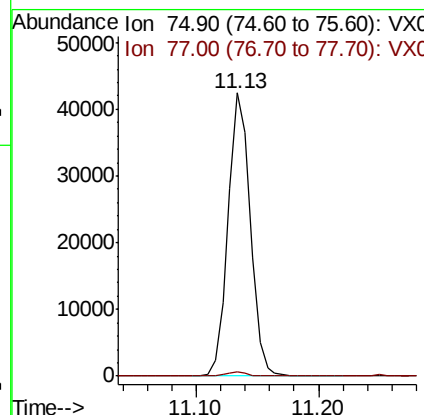
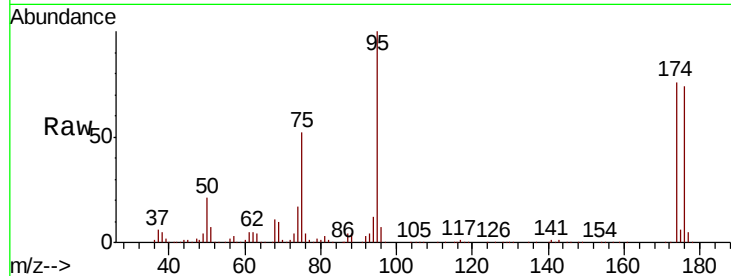




#76
 1,2,3-Trichloropropane
 Concen: 25.687 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009693.D
 Acq: 18 May 2019 04:42

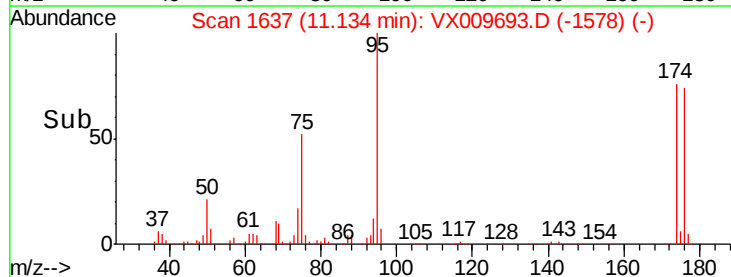
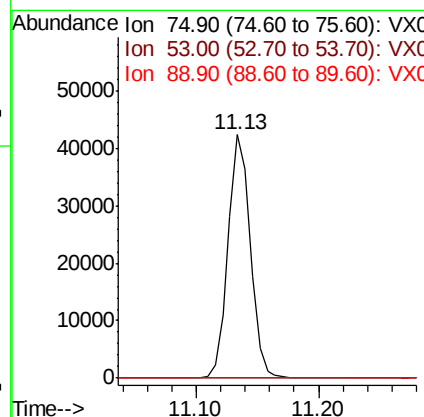
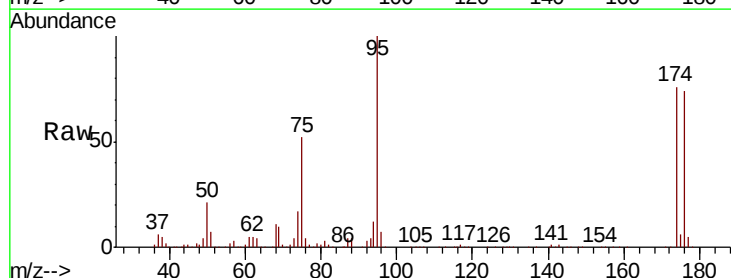
Instrument :
 MSVOA_X
 ClientSampled :
 BFB

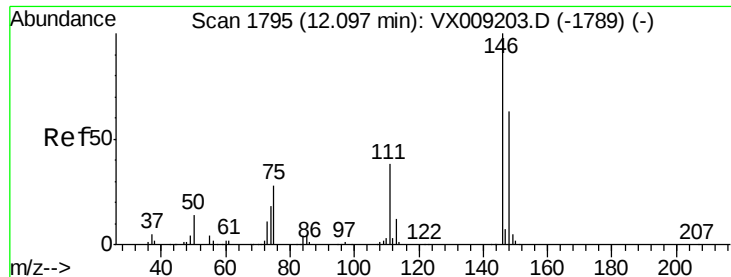
Tot Ion: 75 Resp: 53556
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.724 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009693.D
 Acq: 18 May 2019 04:42

Tgt Ion: 75 Resp: 53556
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.0 118.6#
 89 0.0 34.7 52.1#





#88

1,4-Dichlorobenzene

Concen: 0.240 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

Instrument :

MSVOA_X

ClientSampled :

BFB

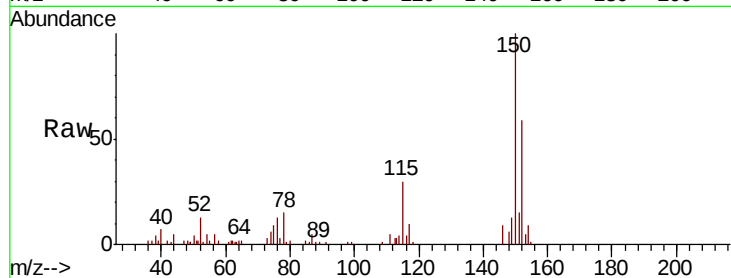
Tot Ion:146 Resp: 701

Ion Ratio Lower Upper

146 100

111 186.6 19.6 58.8#

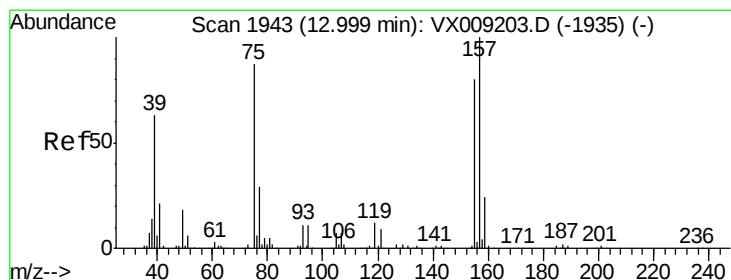
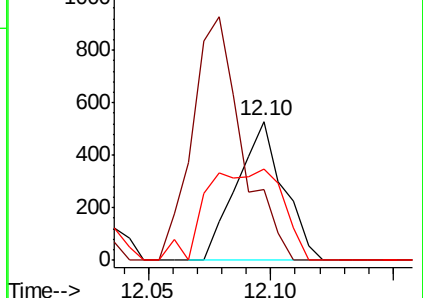
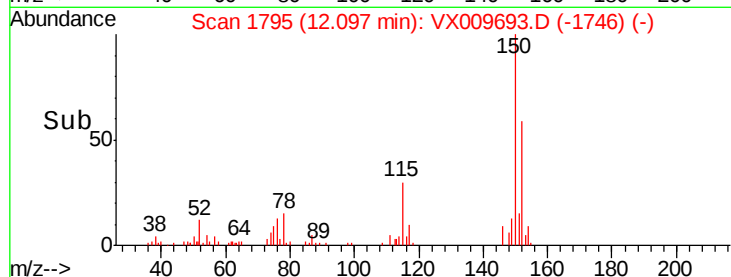
148 107.3 31.8 95.3#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.384 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX009693.D

Acq: 18 May 2019 04:42

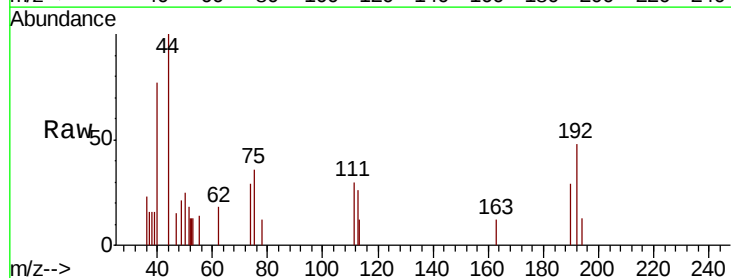
Tgt Ion: 75 Resp: 210

Ion Ratio Lower Upper

75 100

155 0.0 42.0 126.0#

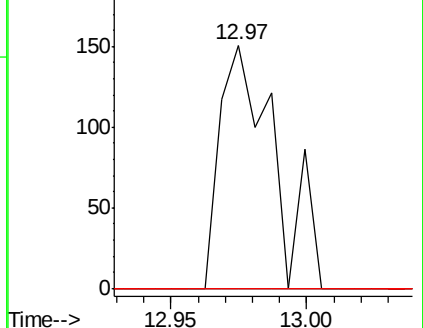
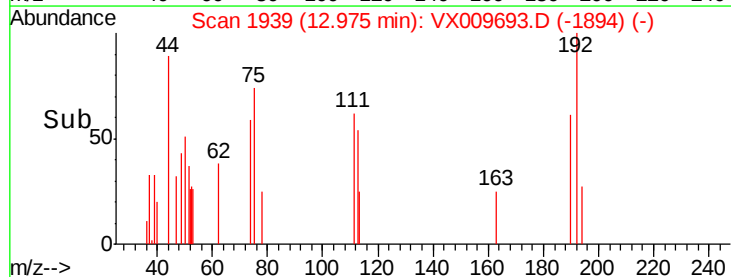
157 0.0 53.2 159.6#

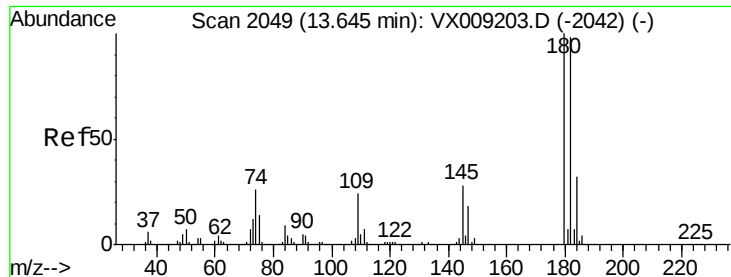


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

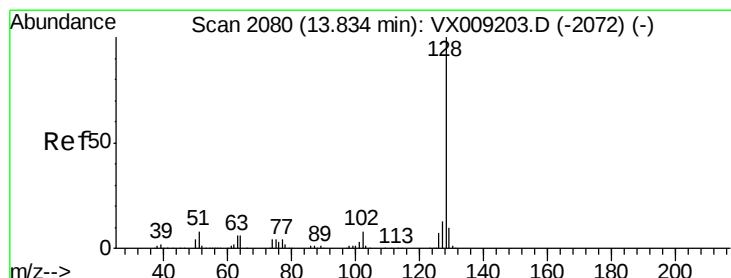
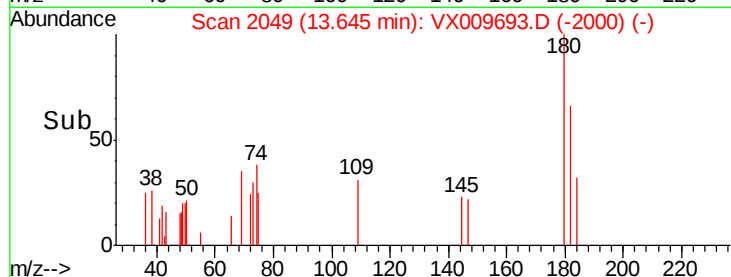
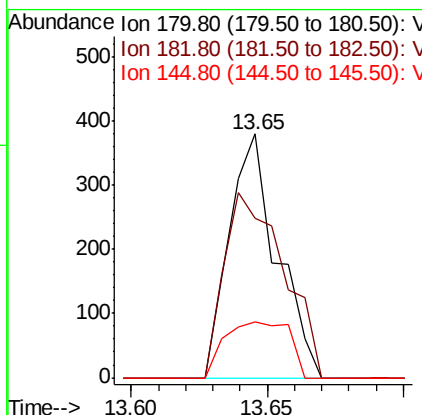
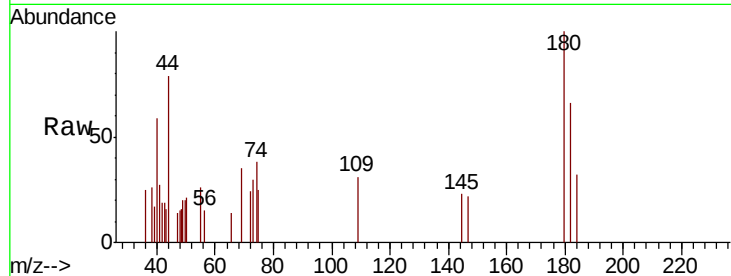




#93
 1,2,4-Trichlorobenzene
 Concen: 0.229 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX009693.D
 Acq: 18 May 2019 04:42

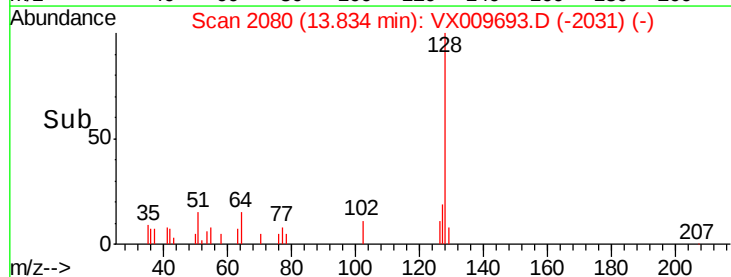
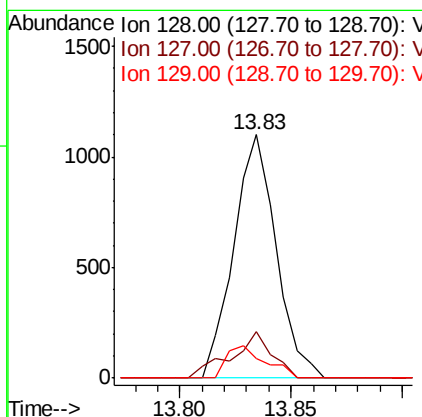
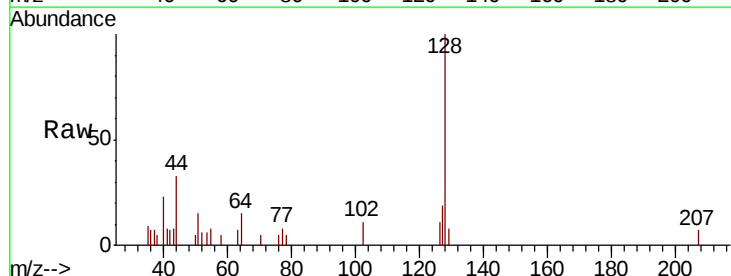
Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

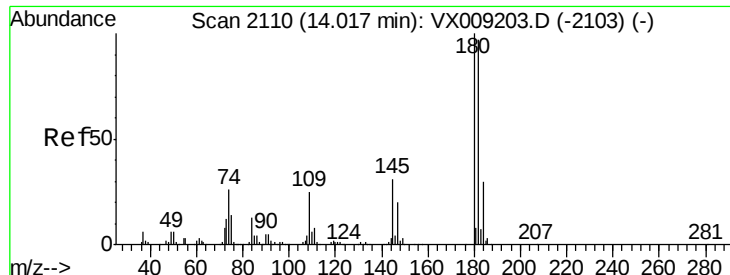
Tot Ion:180 Resp: 462
 Ion Ratio Lower Upper
 180 100
 182 94.6 48.4 145.2
 145 30.7 14.6 43.8



#95
 Naphthalene
 Concen: 0.223 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX009693.D
 Acq: 18 May 2019 04:42

Tgt Ion:128 Resp: 1459
 Ion Ratio Lower Upper
 128 100
 127 18.2 10.4 15.6#
 129 12.1 8.6 13.0

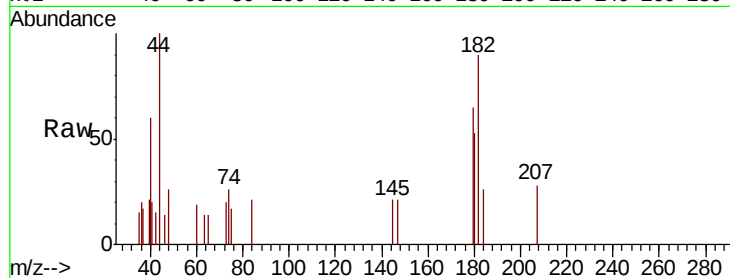




#96
 1,2,3-Trichlorobenzene
 Concen: 0.243 ug/l
 RT: 14.02 min Scan# 2111
 Delta R.T. 0.01 min
 Lab File: VX009693.D
 Acq: 18 May 2019 04:42

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.9	47.8	143.4
145	25.4	15.4	46.4



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

