

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021419\
 Data File : VX007519.D
 Acq On : 13 Feb 2019 14:44
 Operator : JC/SP
 Sample : K1460-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-20190208

Quant Time: Feb 14 02:35:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	549486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	845852	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	782099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	375417	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	289254	49.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.18%	
35) Dibromofluoromethane	5.51	113	267112	48.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.06%	
50) Toluene-d8	8.71	98	994806	48.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.44%	
62) 4-Bromofluorobenzene	11.13	95	351179	47.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.22%	

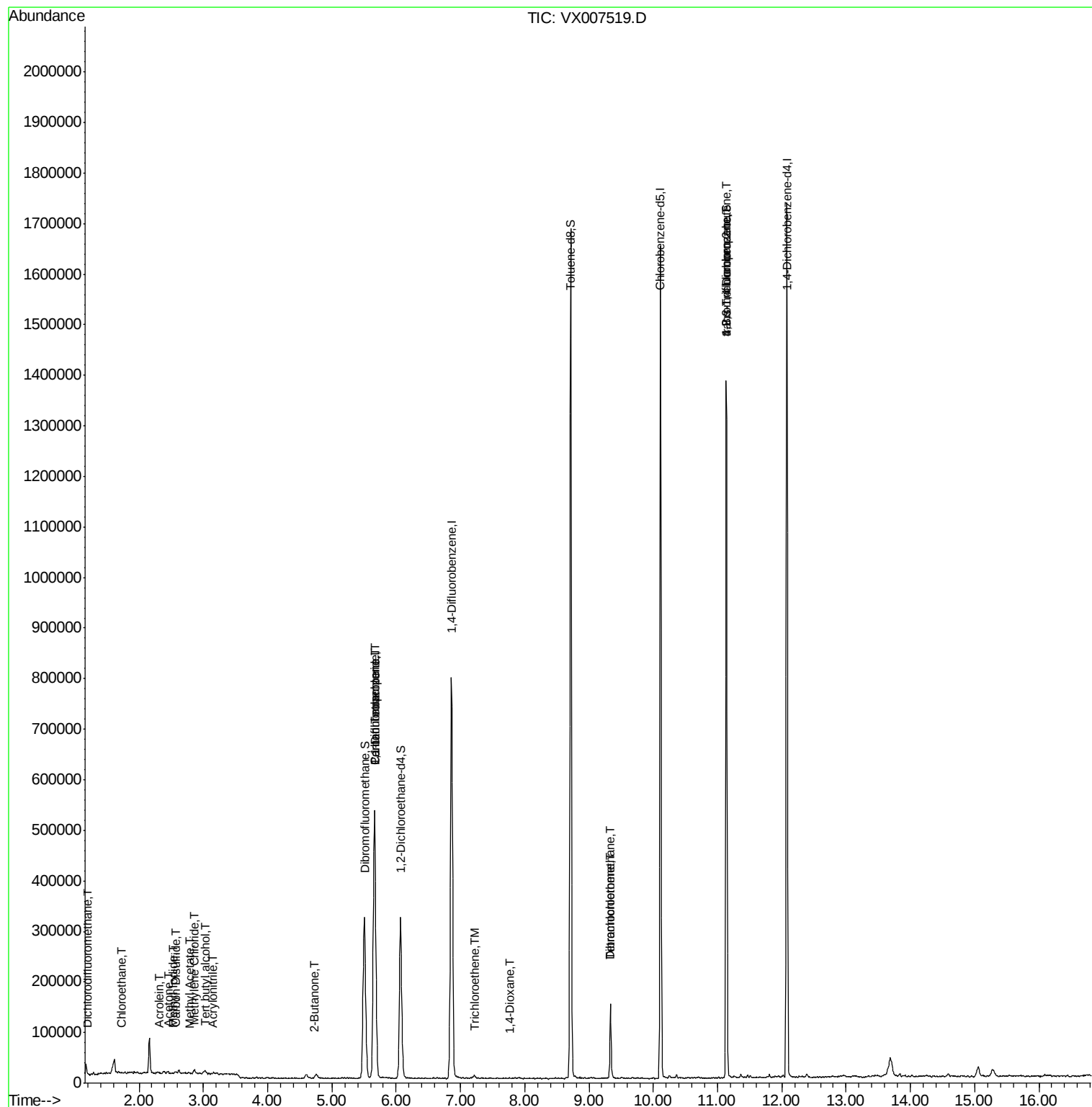
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	461	0.245	ug/l	98
5) Bromomethane	1.65	94	1290	Below Cal		82
6) Chloroethane	1.74	64	1024	0.261	ug/l	92
10) Methyl Iodide	2.53	142	2007	0.241	ug/l #	91
11) Tert butyl alcohol	3.03	59	4355	3.608	ug/l #	73
13) Acrolein	2.31	56	600	1.060	ug/l #	14
15) Acrylonitrile	3.15	53	830	0.278	ug/l #	11
16) Acetone	2.45	43	6508	2.436	ug/l #	88
17) Carbon Disulfide	2.57	76	2281	2.280	ug/l #	47
18) Methyl Acetate	2.78	43	1620	0.823	ug/l #	85
20) Methylene Chloride	2.86	84	3690	0.285	ug/l	86
25) 2-Butanone	4.72	43	940	0.247	ug/l #	83
36) 1,1-Dichloropropene	5.67	75	35499	4.677	ug/l #	48
38) Carbon Tetrachloride	5.67	117	49154	6.676	ug/l #	16
44) Trichloroethene	7.21	130	2208	0.328	ug/l	77
49) 1,4-Dioxane	7.76	88	175	8.169	ug/l #	1
60) Dibromochloromethane	9.34	129	26562	4.671	ug/l #	12
64) Tetrachloroethene	9.34	164	29587	4.014	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	168179	23.031	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	168179	69.395	ug/l #	9

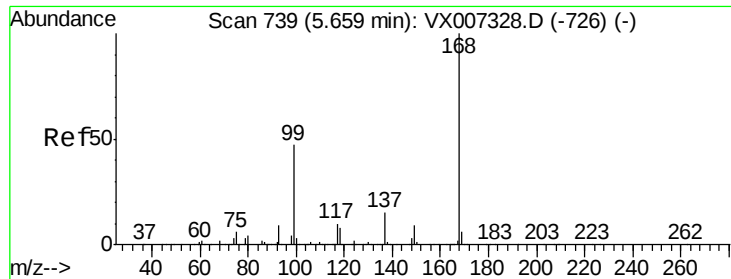
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX021419\
Data File : VX007519.D
Acq On : 13 Feb 2019 14:44
Operator : JC/SP
Sample : K1460-07
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-20190208

Quant Time: Feb 14 02:35:55 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

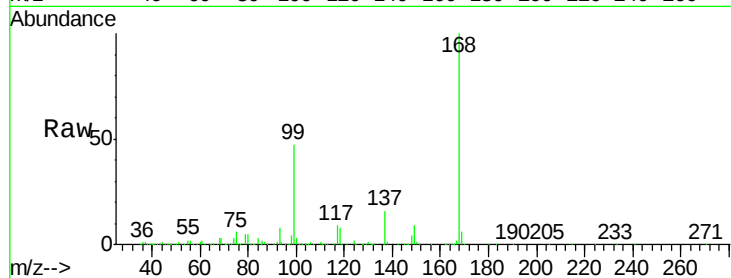
FB-20190208

Tot Ion:168 Resp: 549486

Ion Ratio Lower Upper

168 100

99 47.4 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

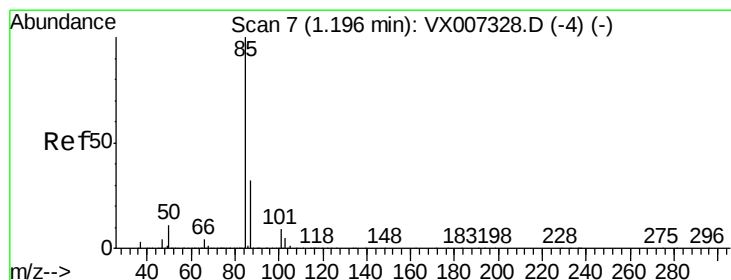
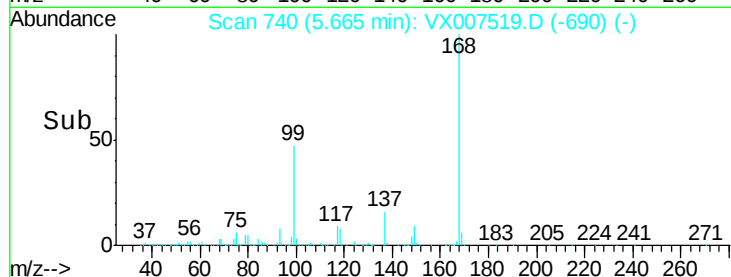
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.245 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX007519.D

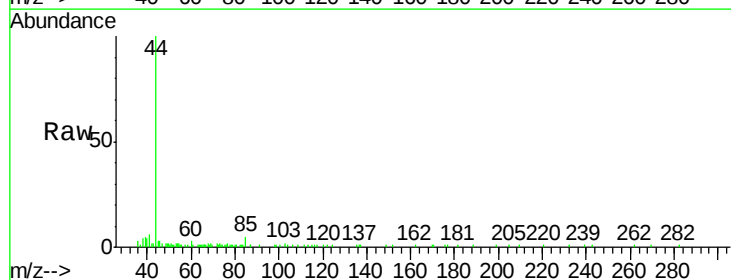
Acq: 13 Feb 2019 14:44

Tgt Ion: 85 Resp: 461

Ion Ratio Lower Upper

85 100

87 32.6 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

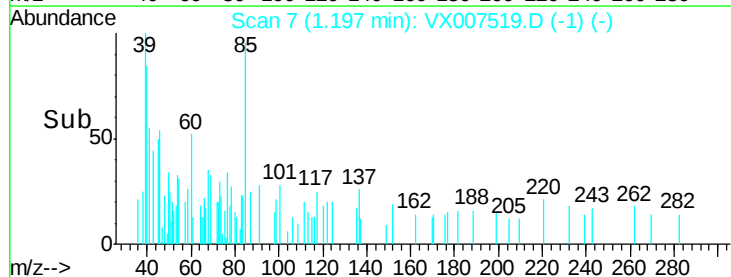
200

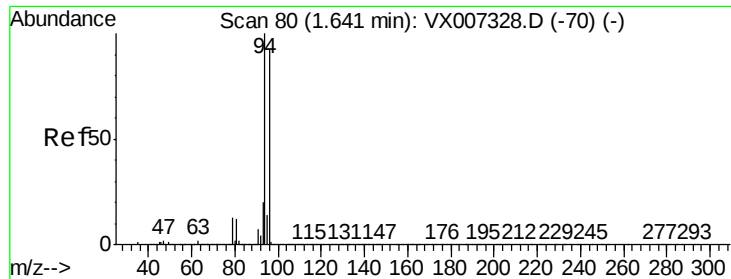
100

0

1.16 1.18 1.20 1.22 1.24

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

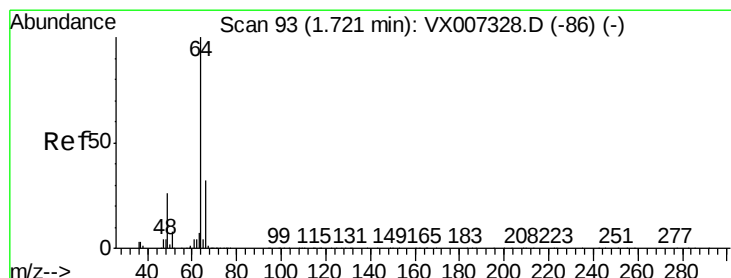
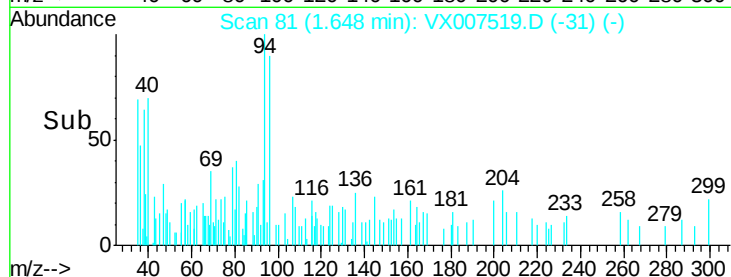
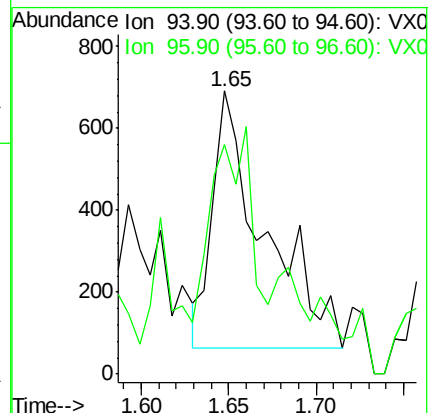
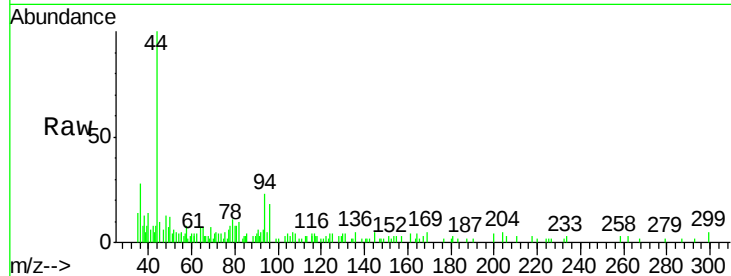
FB-20190208

Tot Ion: 94 Resp: 1290

Ion Ratio Lower Upper

94 100

96 75.3 73.9 110.9



#6

Chloroethane

Concen: 0.261 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX007519.D

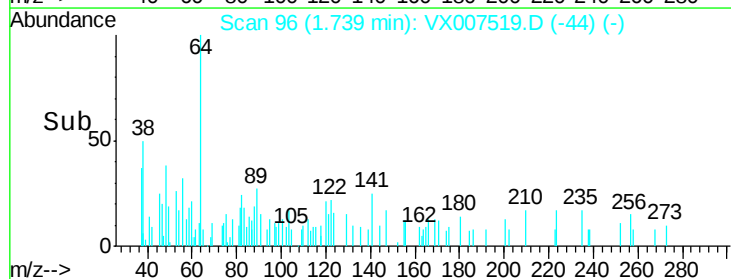
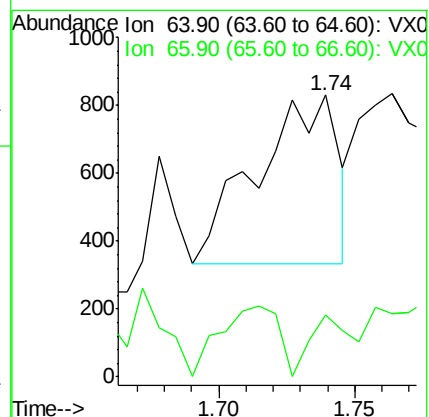
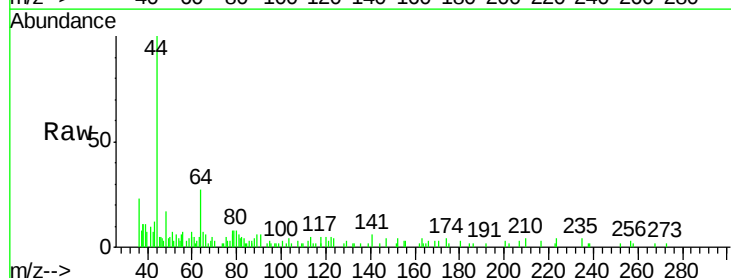
Acq: 13 Feb 2019 14:44

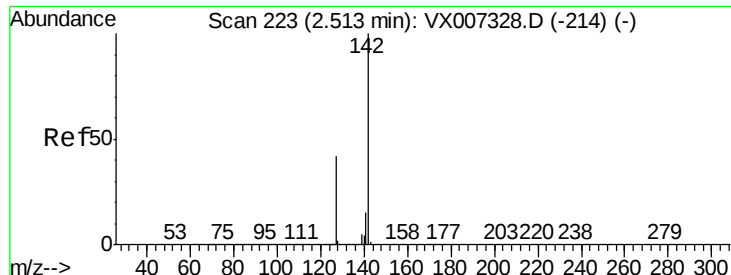
Tgt Ion: 64 Resp: 1024

Ion Ratio Lower Upper

64 100

66 36.4 25.5 38.3

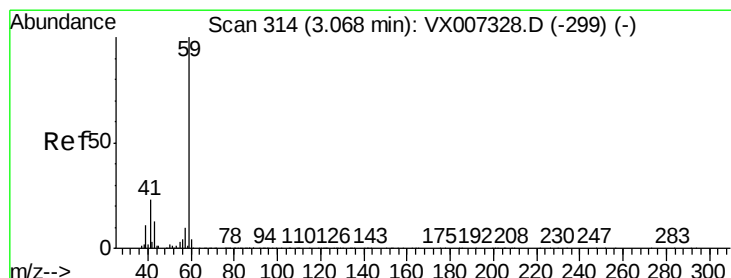
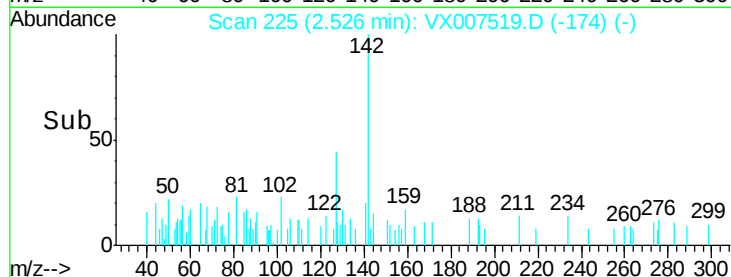
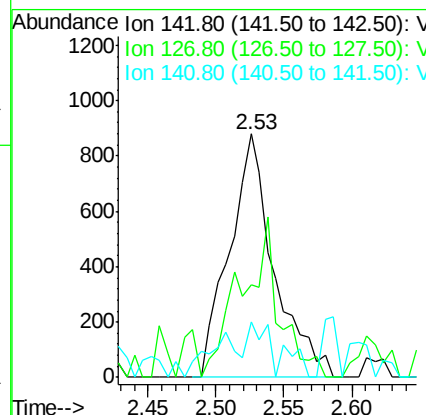
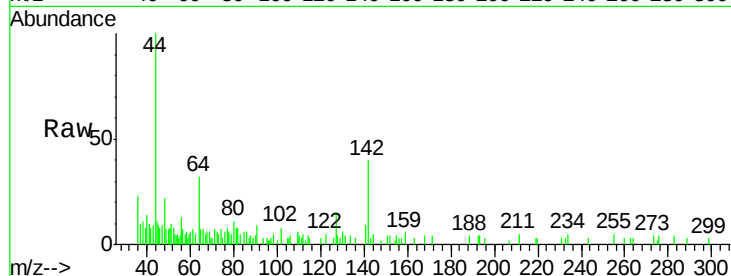




#10
Methvl Iodide
Concen: 0.241 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.01 min
Lab File: VX007519.D
Acq: 13 Feb 2019 14:44

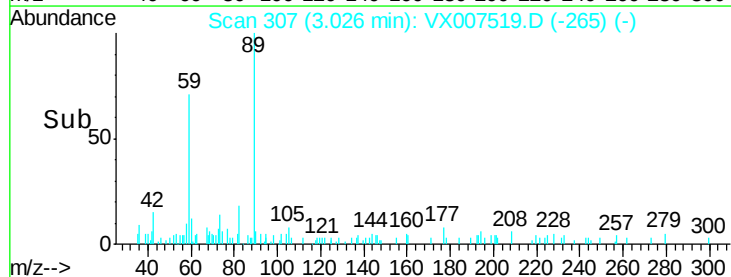
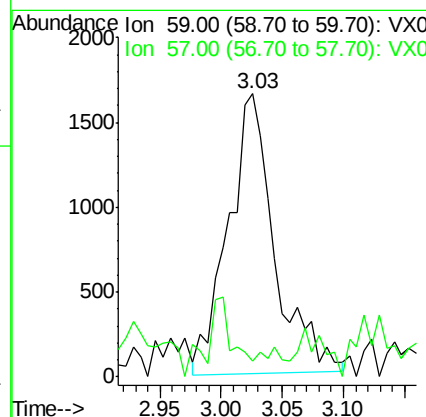
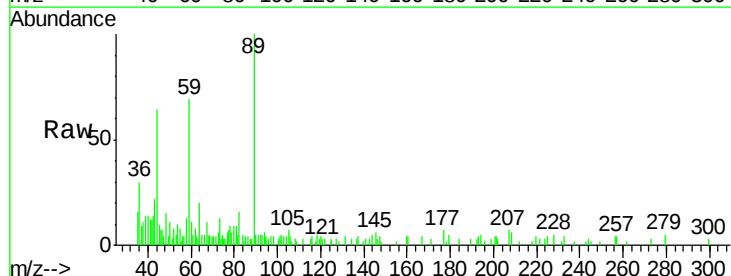
Instrument :
MSVOA_X
ClientSampleId :
FB-20190208

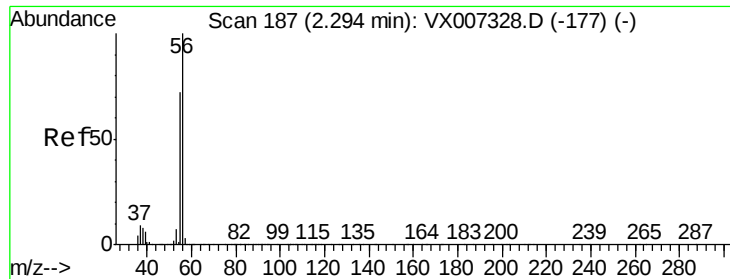
Tot Ion:142 Resp: 2007
Ion Ratio Lower Upper
142 100
127 36.5 33.7 50.5
141 9.6 11.3 16.9#



#11
Tert butyl alcohol
Concen: 3.608 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.04 min
Lab File: VX007519.D
Acq: 13 Feb 2019 14:44

Tgt Ion: 59 Resp: 4355
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: 1.060 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

Instrument :

MSVOA_X

ClientSampled :

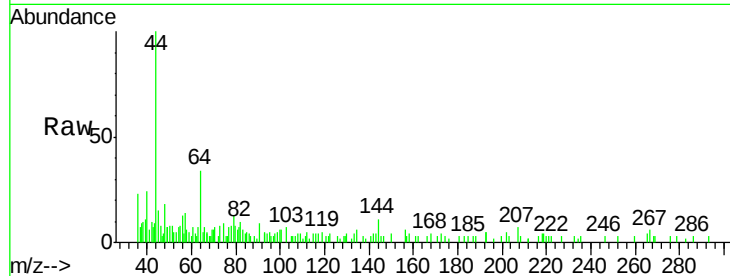
FB-20190208

Tot Ion: 56 Resp: 600

Ion Ratio Lower Upper

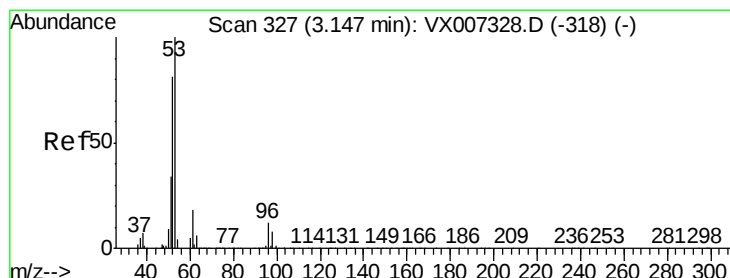
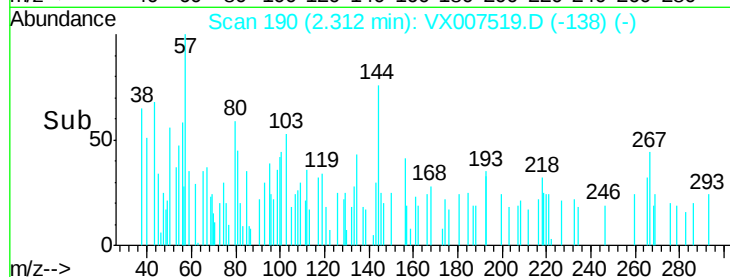
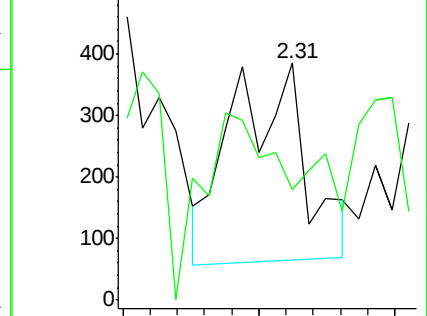
56 100

55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.278 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.00 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

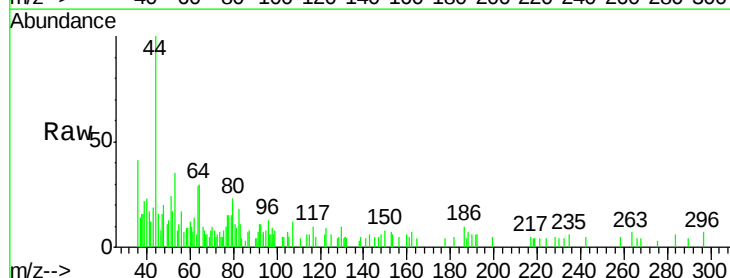
Tgt Ion: 53 Resp: 830

Ion Ratio Lower Upper

53 100

52 26.3 66.4 99.6#

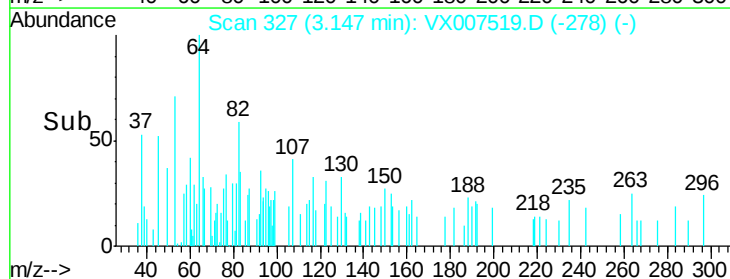
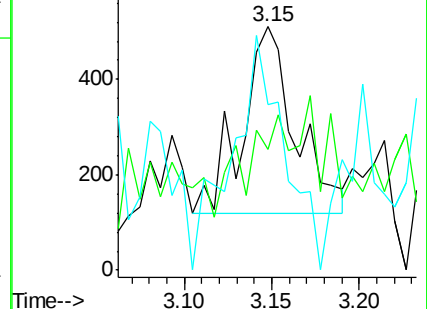
51 123.4 28.4 42.6#

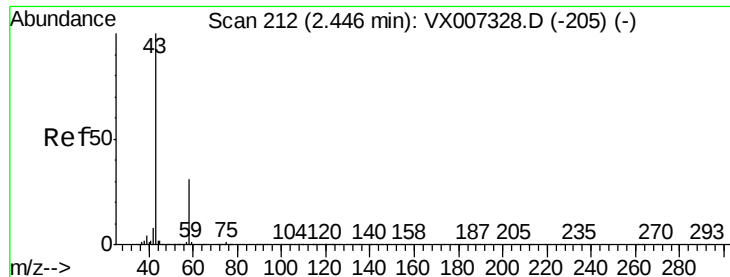


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 2.436 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

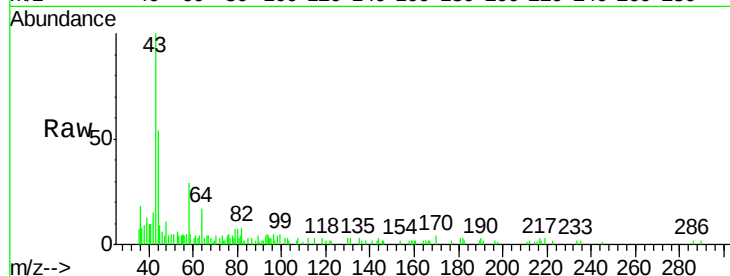
FB-20190208

Tot Ion: 43 Resp: 6508

Ion Ratio Lower Upper

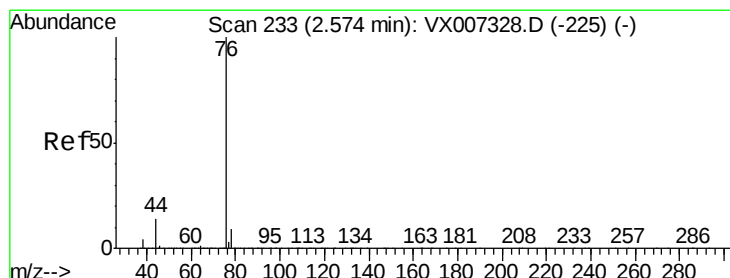
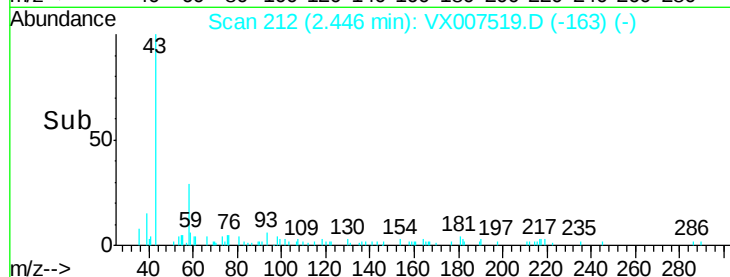
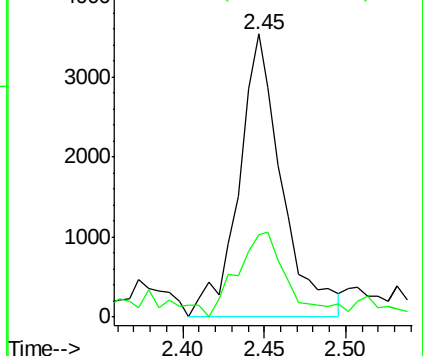
43 100

58 24.5 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 2.280 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007519.D

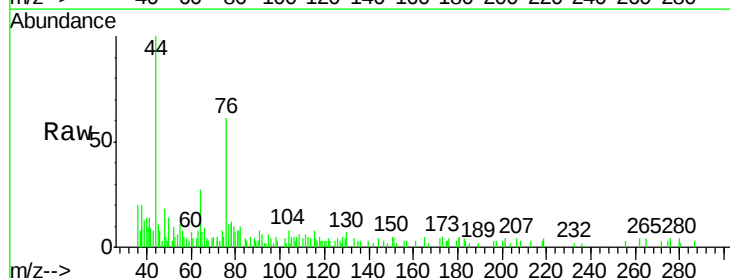
Acq: 13 Feb 2019 14:44

Tgt Ion: 76 Resp: 2281

Ion Ratio Lower Upper

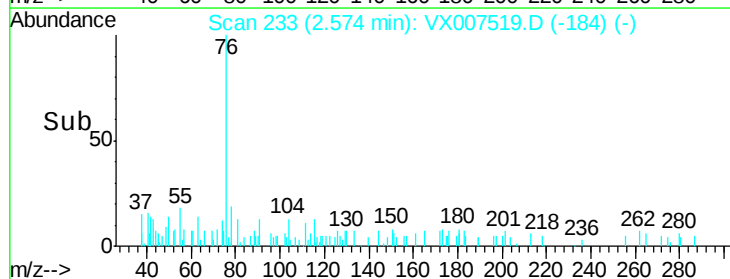
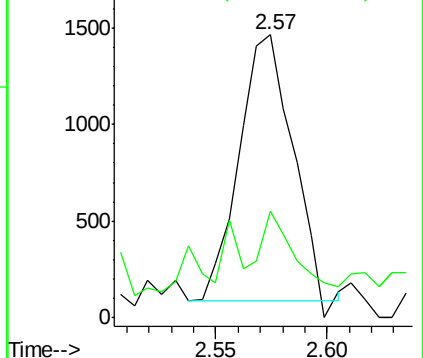
76 100

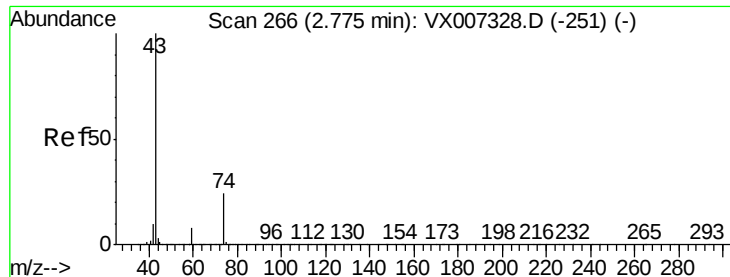
78 28.1 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

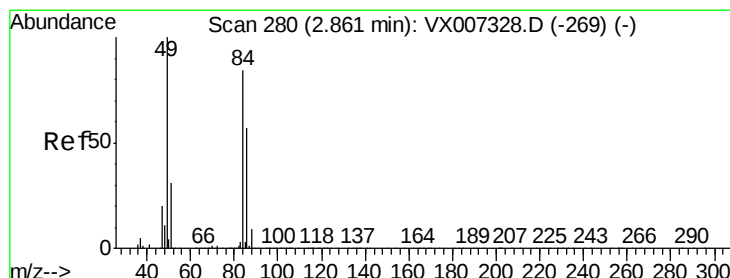
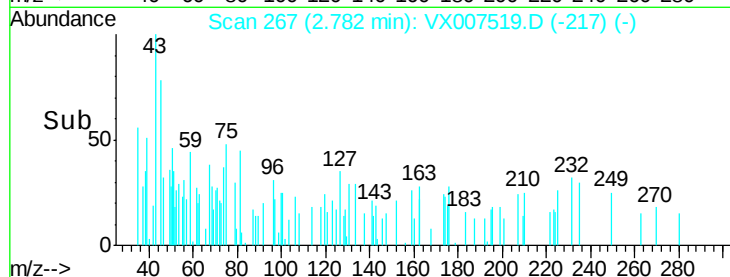
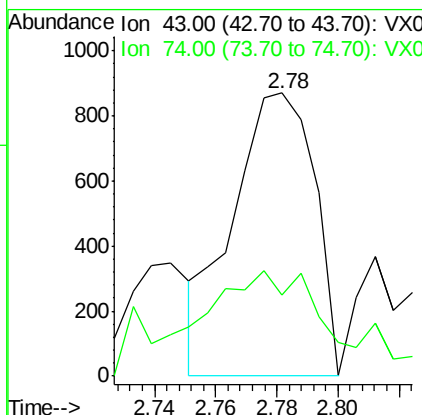
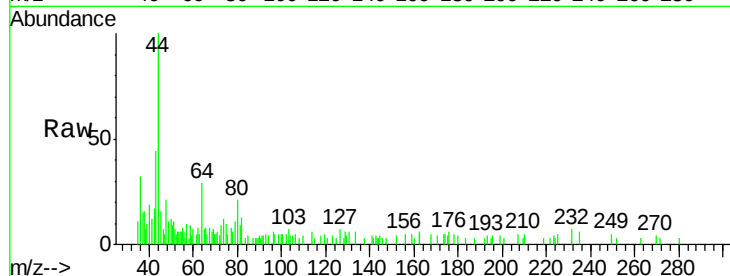




#18
Methyl Acetate
Concen: 0.823 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007519.D
Acq: 13 Feb 2019 14:44

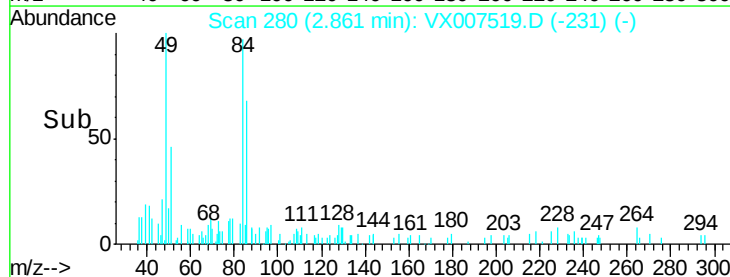
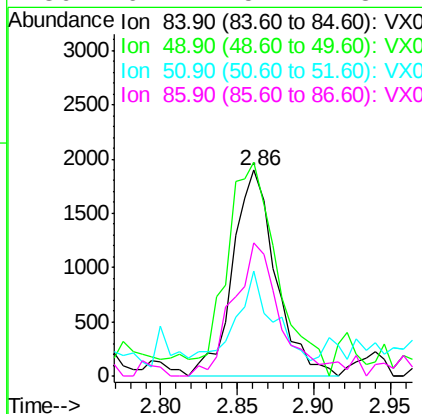
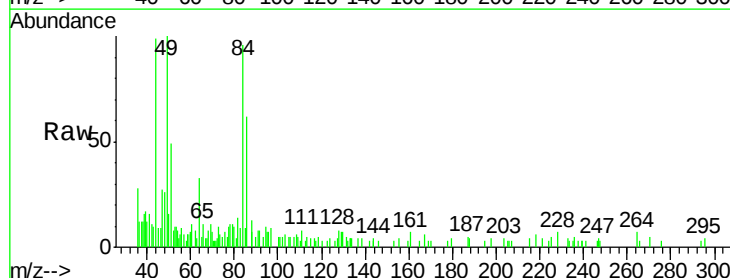
Instrument :
MSVOA_X
ClientSampled :
FB-20190208

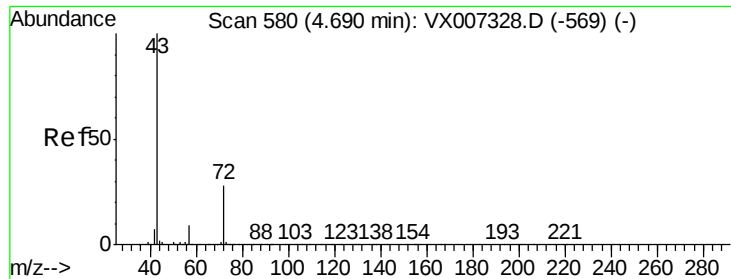
Tot Ion: 43 Resp: 1620
Ion Ratio Lower Upper
43 100
74 31.8 19.4 29.2#



#20
Methylene Chloride
Concen: 0.285 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007519.D
Acq: 13 Feb 2019 14:44

Tgt Ion: 84 Resp: 3690
Ion Ratio Lower Upper
84 100
49 95.7 94.8 142.2
51 42.4 29.8 44.8
86 64.7 54.1 81.1





#25

2-Butanone

Concen: 0.247 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.03 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

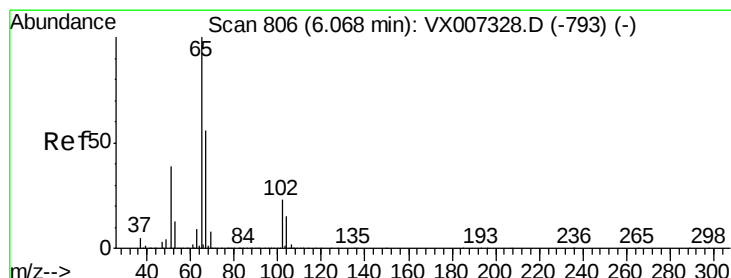
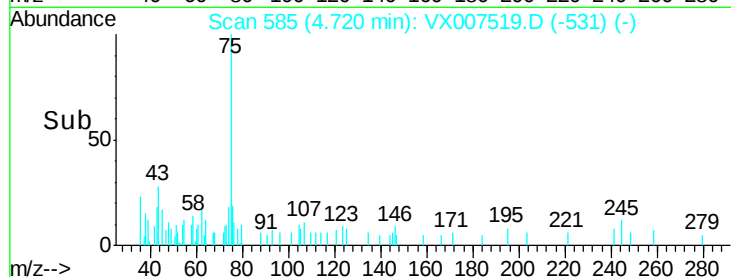
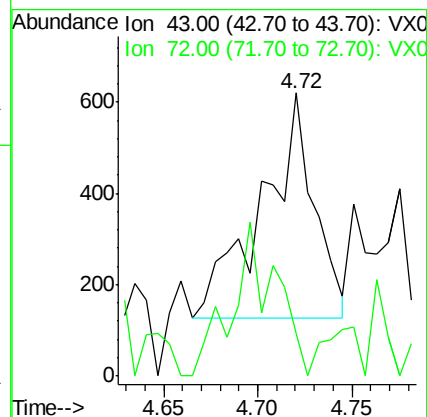
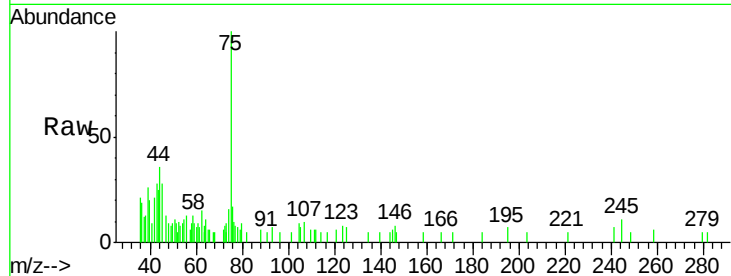
FB-20190208

Tot Ion: 43 Resp: 940

Ion Ratio Lower Upper

43 100

72 18.7 22.2 33.2#



#33

1,2-Dichloroethane-d4

Concen: 49.595 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007519.D

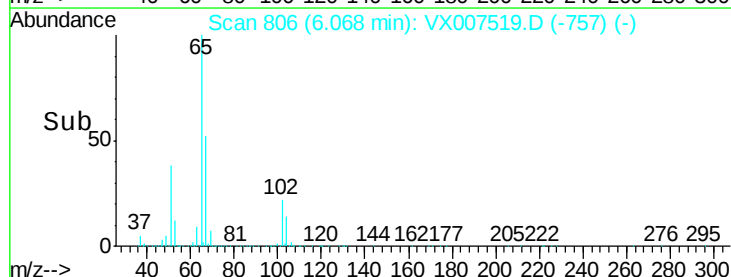
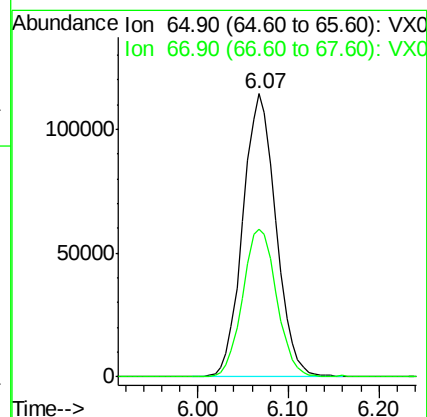
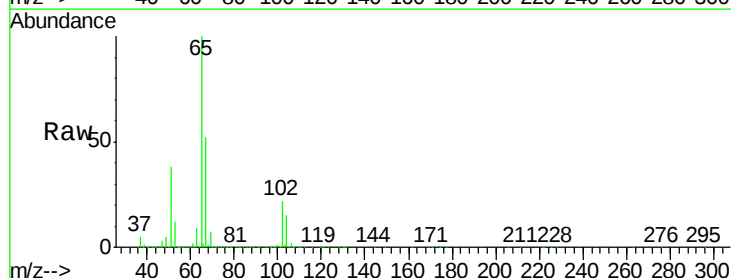
Acq: 13 Feb 2019 14:44

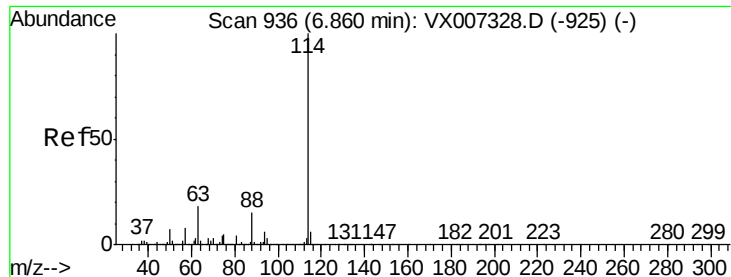
Tgt Ion: 65 Resp: 289254

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

FB-20190208

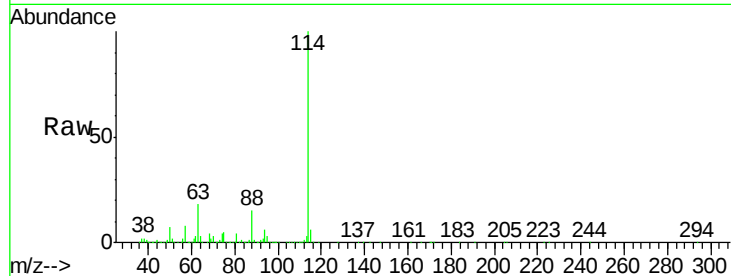
Tot Ion:114 Resp: 845852

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

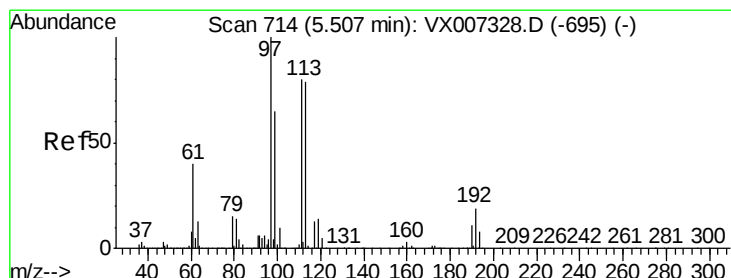
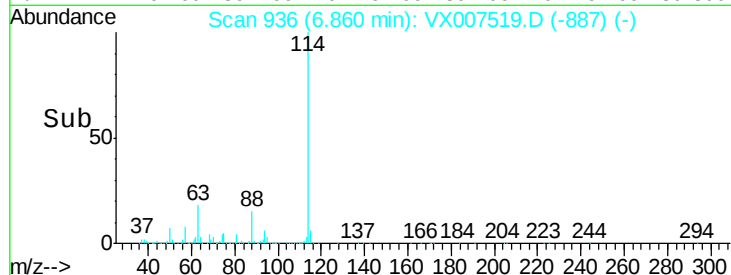
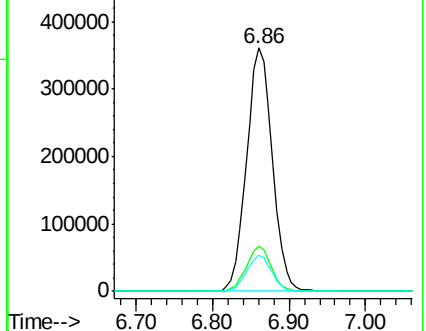
88 14.8 0.0 29.6



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: 48.534 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

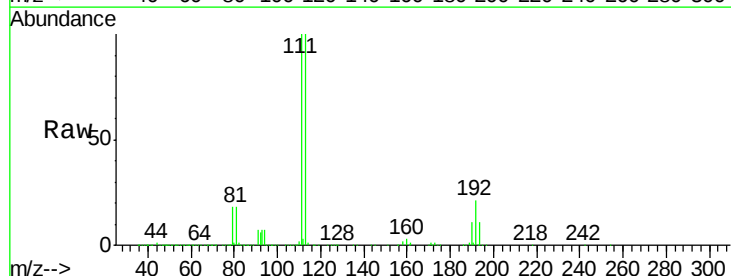
Tgt Ion:113 Resp: 267112

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

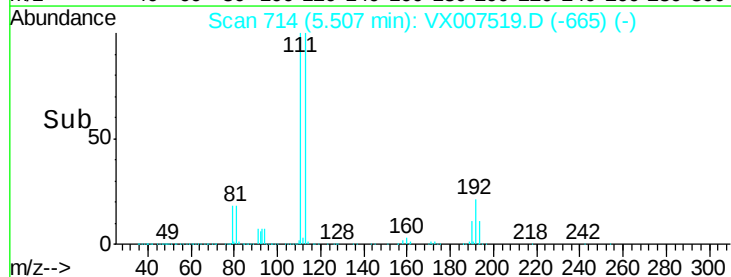
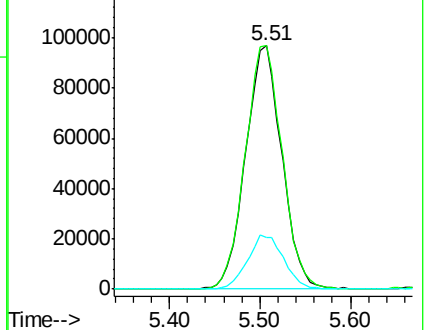
192 22.4 18.5 27.7

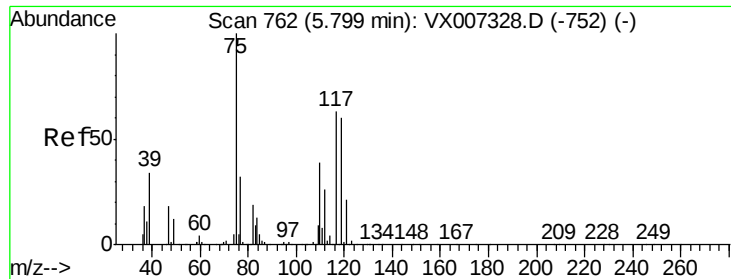


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.677 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

FB-20190208

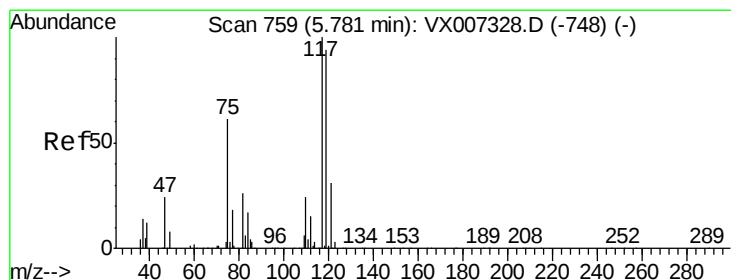
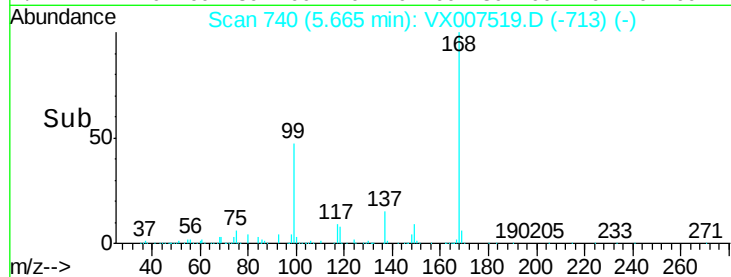
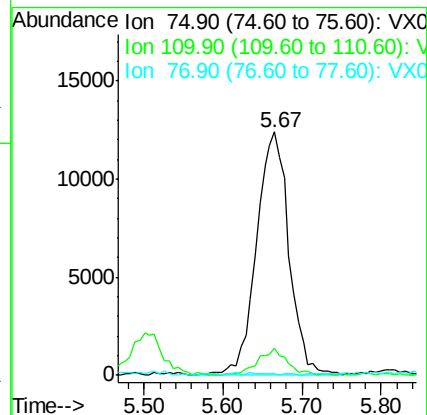
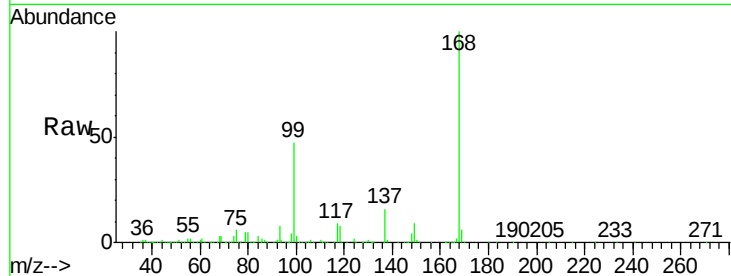
Tot Ion: 75 Resp: 35499

Ion Ratio Lower Upper

75 100

110 10.0 20.0 59.9#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.676 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

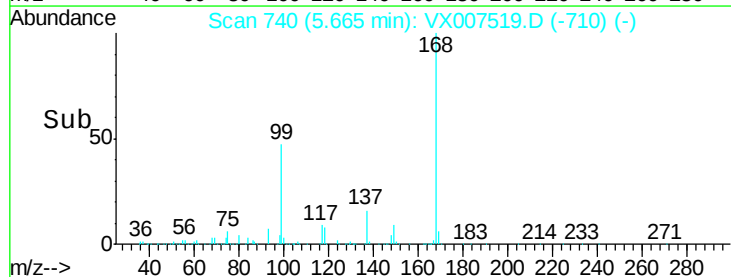
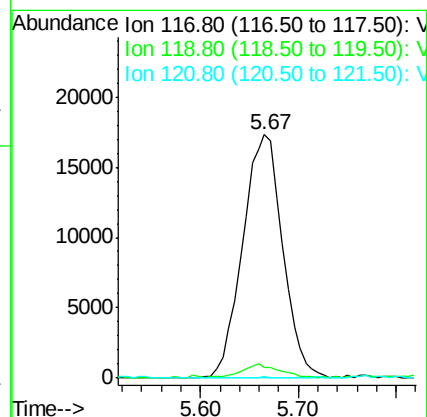
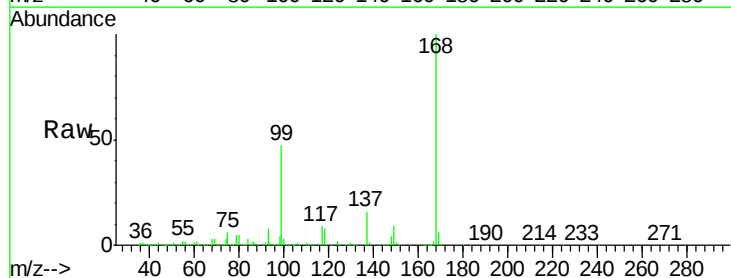
Tgt Ion:117 Resp: 49154

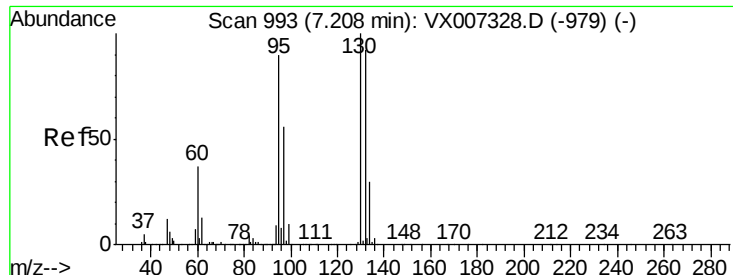
Ion Ratio Lower Upper

117 100

119 4.4 75.3 112.9#

121 0.5 25.0 37.4#





#44

Trichloroethene

Concen: 0.328 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

Instrument :

MSVOA_X

ClientSampled :

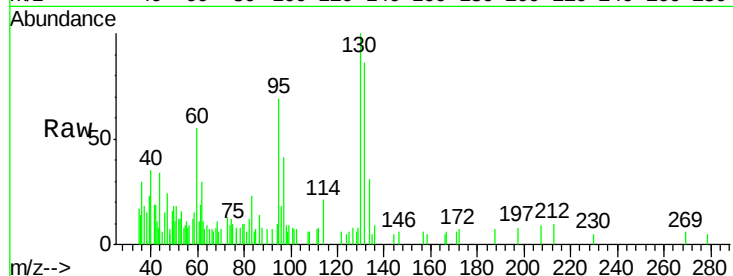
FB-20190208

Tot Ion:130 Resp: 2208

Ion Ratio Lower Upper

130 100

95 68.7 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

1200

1000

800

600

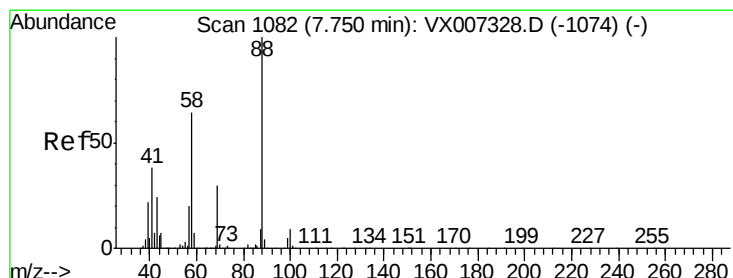
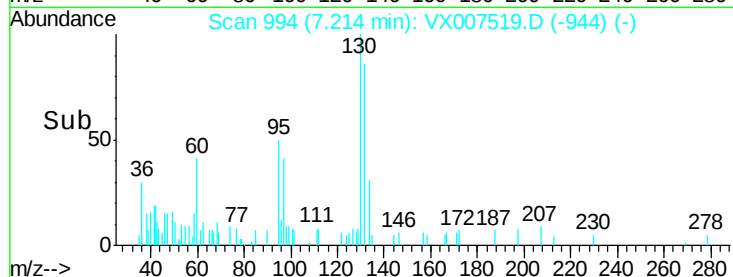
400

200

0

7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 8.169 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

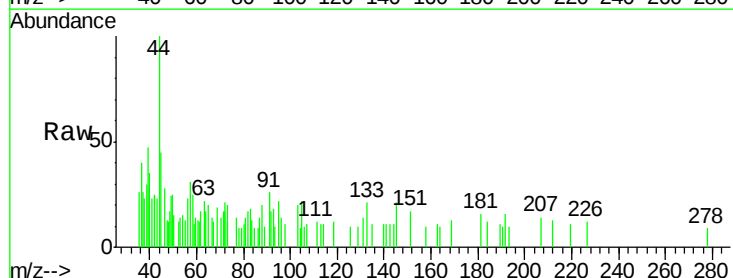
Tgt Ion: 88 Resp: 175

Ion Ratio Lower Upper

88 100

43 180.0 24.2 36.4#

58 0.0 53.0 79.4#



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

300

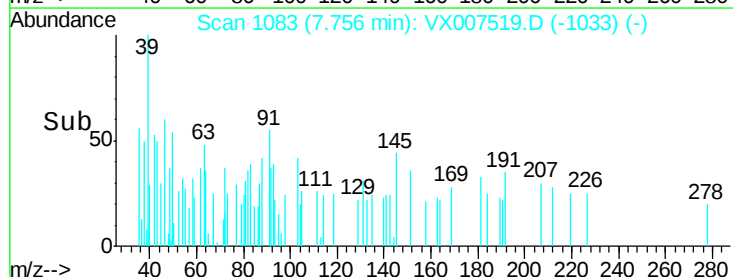
200

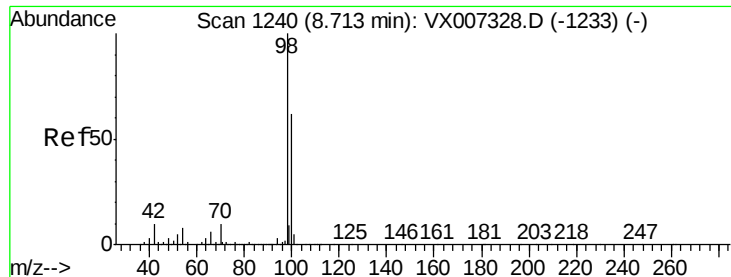
100

0

7.72 7.74 7.76 7.78

Time-->





#50

Toluene-d8

Concen: 48.718 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007519.D

Acq: 13 Feb 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

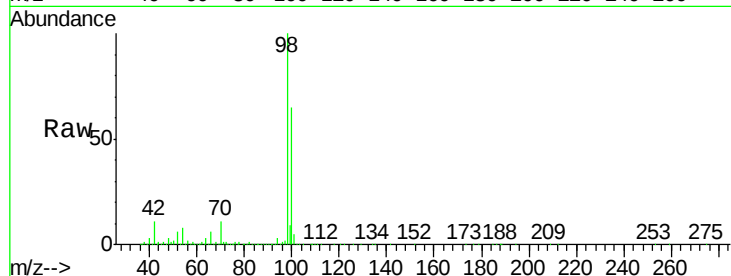
FB-20190208

Tot Ion: 98 Resp: 994806

Ion Ratio Lower Upper

98 100

100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

600000

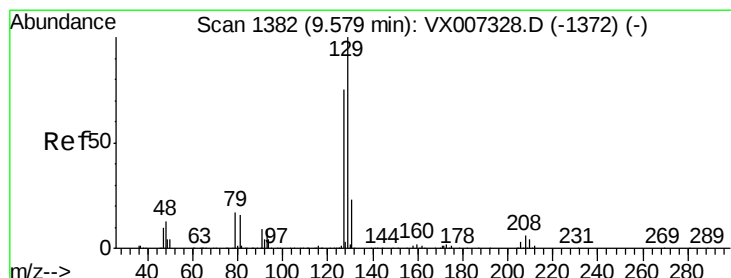
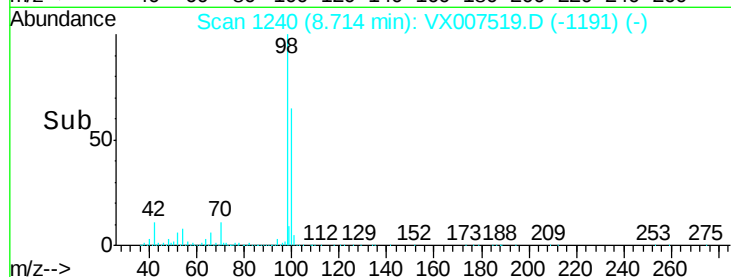
400000

200000

0

Time-->

8.60 8.70 8.80



#60

Dibromochloromethane

Concen: 4.671 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007519.D

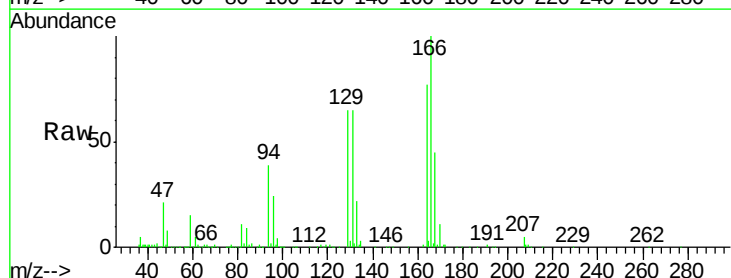
Acq: 13 Feb 2019 14:44

Tgt Ion:129 Resp: 26562

Ion Ratio Lower Upper

129 100

127 0.2 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

20000

15000

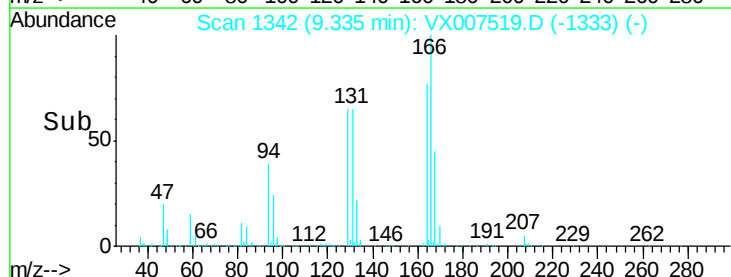
10000

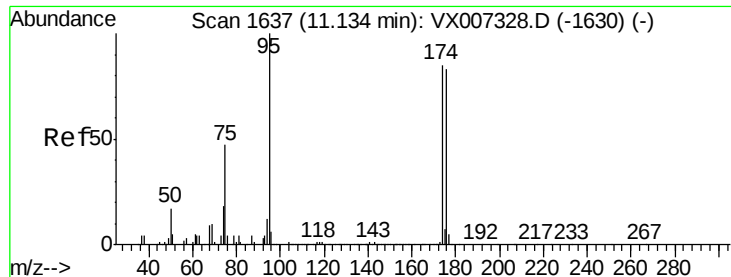
5000

0

Time-->

9.30 9.35 9.40

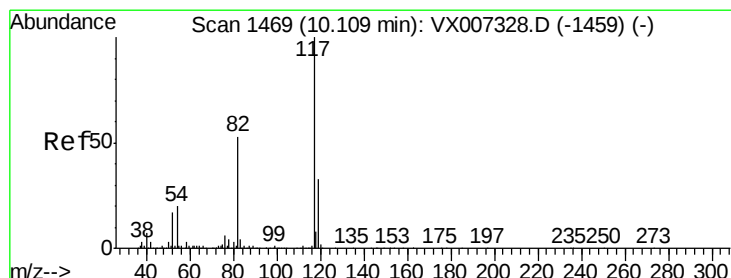
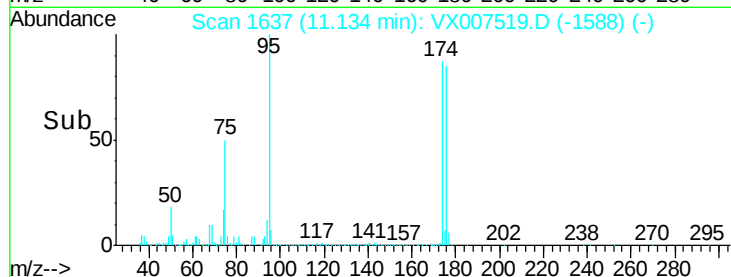
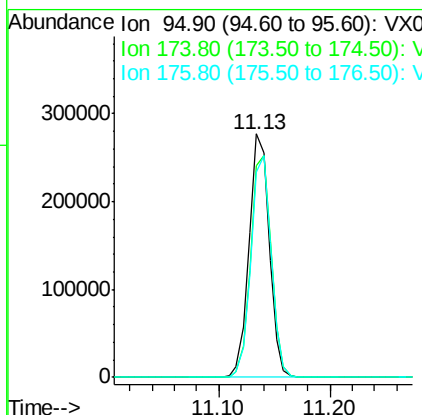
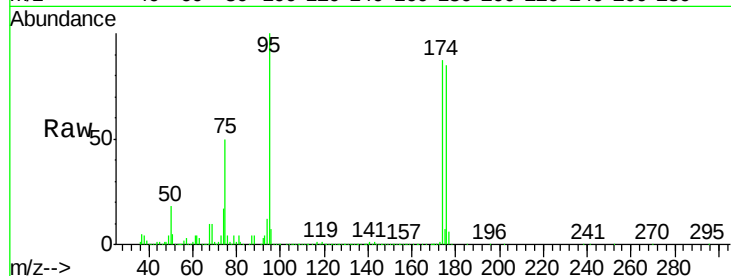




#62
4-Bromofluorobenzene
Concen: 47.105 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007519.D
Acq: 13 Feb 2019 14:44

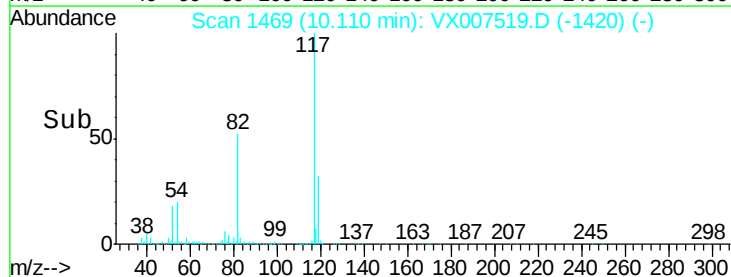
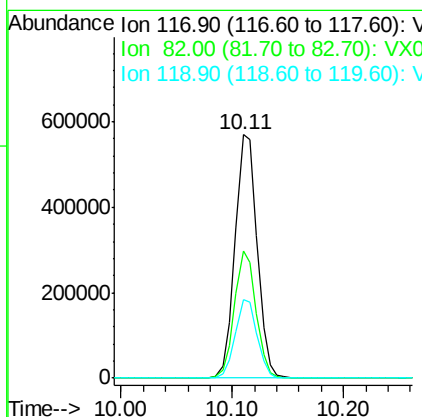
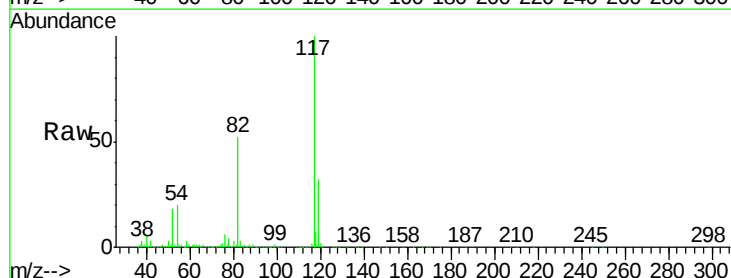
Instrument :
MSVOA_X
ClientSampleId :
FB-20190208

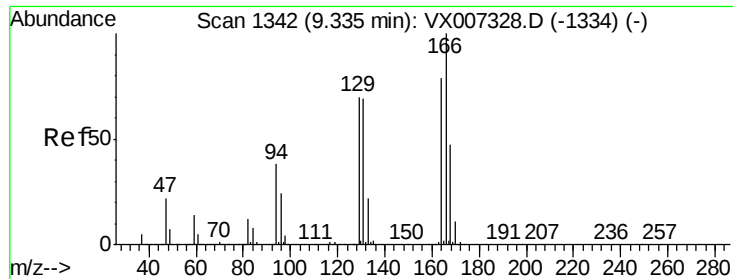
Tot Ion: 95 Resp: 351179
Ion Ratio Lower Upper
95 100
174 92.8 0.0 189.2
176 91.1 0.0 186.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007519.D
Acq: 13 Feb 2019 14:44

Tgt Ion: 117 Resp: 782099
Ion Ratio Lower Upper
117 100
82 52.4 42.1 63.1
119 32.1 26.5 39.7

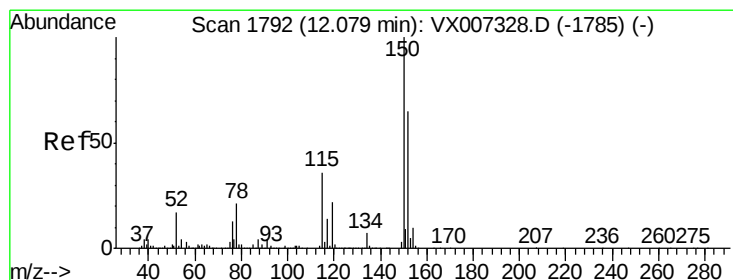
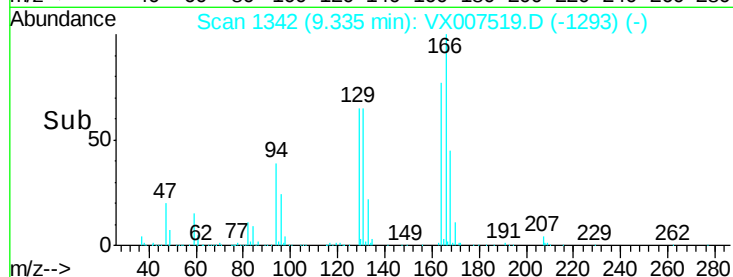
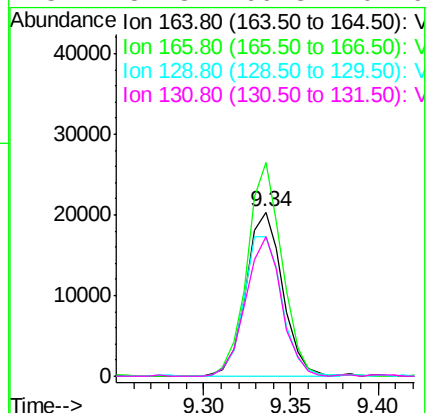
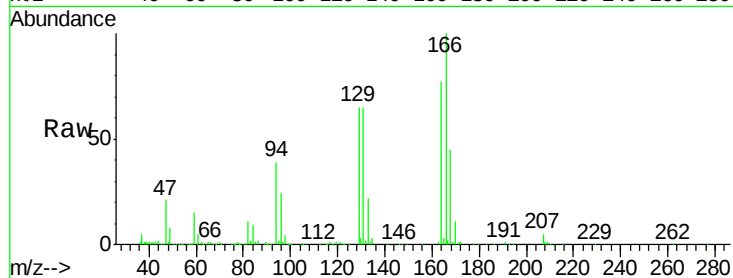




#64
Tetrachloroethene
Concen: 4.014 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007519.D
Acq: 13 Feb 2019 14:44

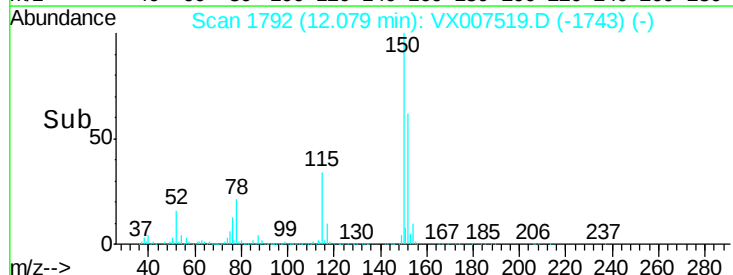
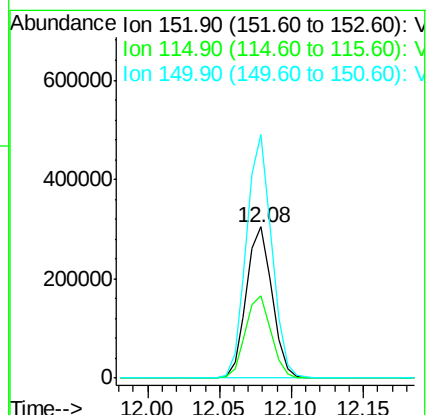
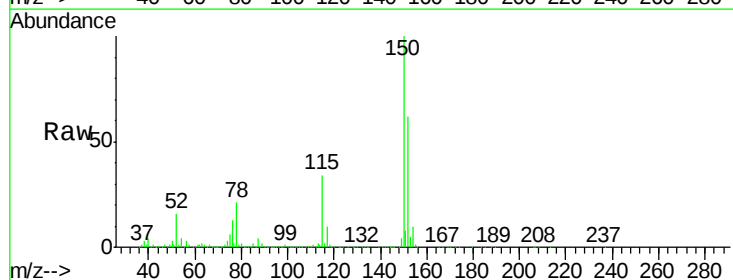
Instrument :
MSVOA_X
ClientSampleId :
FB-20190208

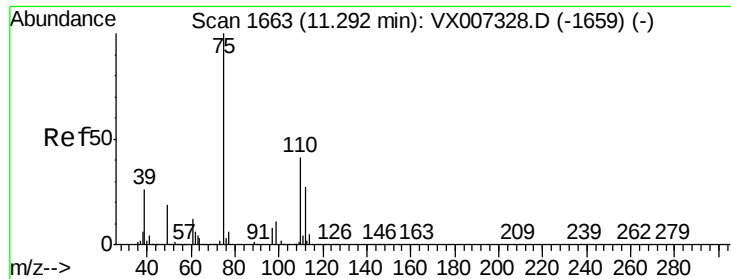
Tot Ion:164 Resp: 29587
Ion Ratio Lower Upper
164 100
166 129.9 101.0 151.4
129 84.9 70.5 105.7
131 84.8 69.8 104.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007519.D
Acq: 13 Feb 2019 14:44

Tgt Ion:152 Resp: 375417
Ion Ratio Lower Upper
152 100
115 54.7 38.0 114.0
150 158.9 0.0 346.4

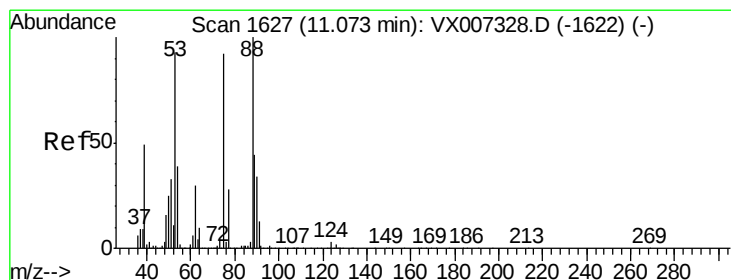
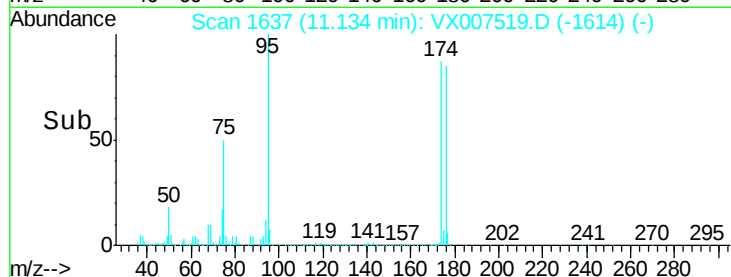
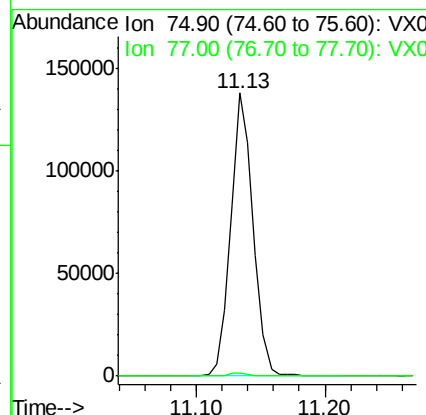
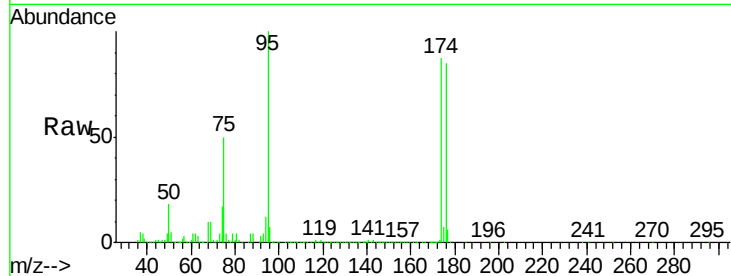




#76
 1,2,3-Trichloropropane
 Concen: 23.031 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007519.D
 Acq: 13 Feb 2019 14:44

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-20190208

Tot Ion: 75 Resp: 168179
 Ion Ratio Lower Upper
 75 100
 77 1.4 23.0 69.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.395 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007519.D
 Acq: 13 Feb 2019 14:44

Tgt Ion: 75 Resp: 168179
 Ion Ratio Lower Upper
 75 100
 53 0.3 81.0 121.6#
 89 0.0 41.4 62.0#

