

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021419\
 Data File : VX007530.D
 Acq On : 13 Feb 2019 19:37
 Operator : JC/SP
 Sample : K1460-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-20190208

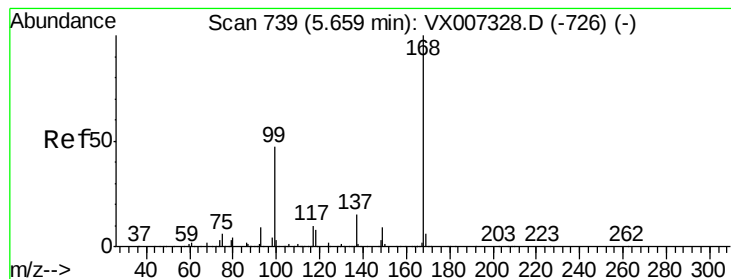
Quant Time: Feb 14 02:39:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	514571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	813658	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	747744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	354413	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	283039	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
35) Dibromofluoromethane	5.51	113	262641	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
50) Toluene-d8	8.71	98	960570	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
62) 4-Bromofluorobenzene	11.13	95	334611	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.22	85	247	0.216	ug/l	98
5) Bromomethane	1.65	94	527	Below Cal		82
6) Chloroethane	1.62	64	6891	1.873	ug/l #	55
11) Tert butyl alcohol	3.02	59	31739	28.080	ug/l #	78
12) 1,1-Dichloroethene	2.37	96	1303	0.265	ug/l #	62
13) Acrolein	2.28	56	172	0.325	ug/l #	1
16) Acetone	2.45	43	5439	2.174	ug/l	93
17) Carbon Disulfide	2.57	76	1262	2.215	ug/l #	89
18) Methyl Acetate	2.79	43	985	0.742	ug/l #	52
20) Methylene Chloride	2.87	84	3454	0.285	ug/l #	87
36) 1,1-Dichloropropene	5.66	75	32774	4.489	ug/l #	50
38) Carbon Tetrachloride	5.67	117	46771	6.604	ug/l #	19
49) 1,4-Dioxane	7.76	88	30	7.109	ug/l #	1
64) Tetrachloroethene	9.34	164	1723	0.244	ug/l #	80
71) Bromoform	10.88	173	119	4.052	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	160897	23.339	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	160897	70.268	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007530.D

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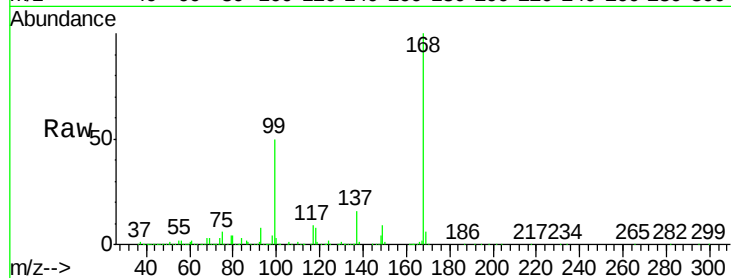
FB-20190208

Tot Ion:168 Resp: 514571

Ion Ratio Lower Upper

168 100

99 50.4 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

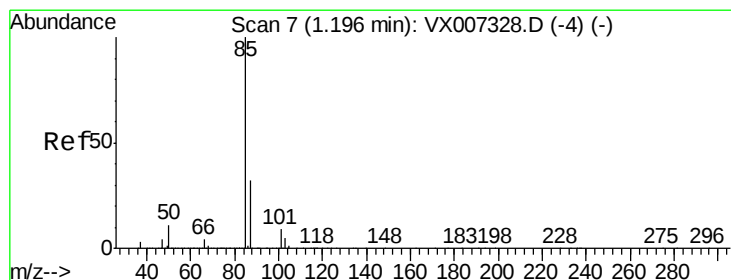
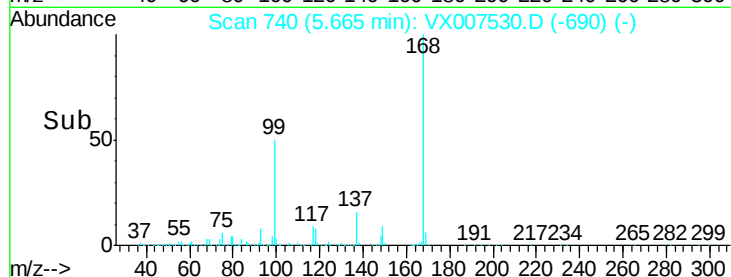
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.216 ug/l

RT: 1.22 min Scan# 11

Delta R.T. 0.02 min

Lab File: VX007530.D

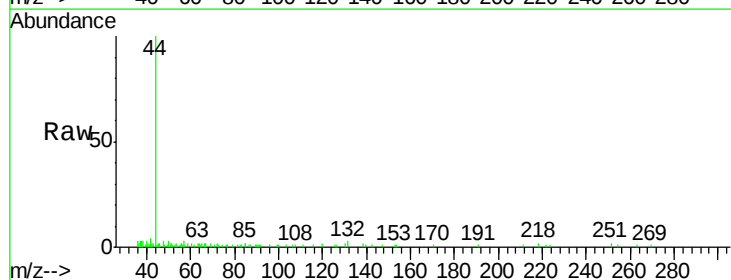
Acq: 13 Feb 2019 19:37

Tgt Ion: 85 Resp: 247

Ion Ratio Lower Upper

85 100

87 30.5 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.22

250

200

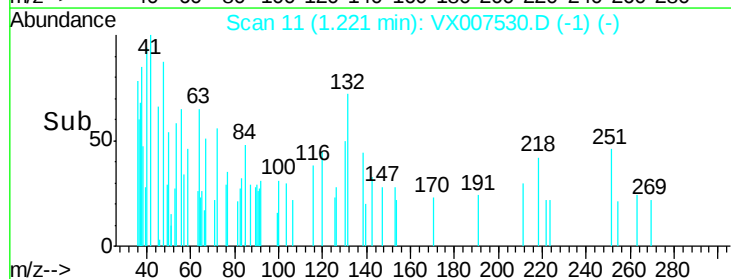
150

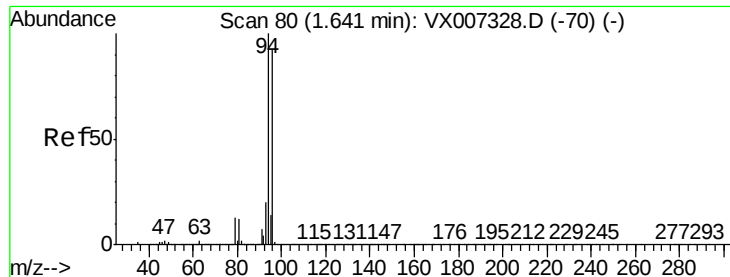
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007530.D

Acq: 13 Feb 2019 19:37

Instrument :

MSVOA_X

ClientSampleId :

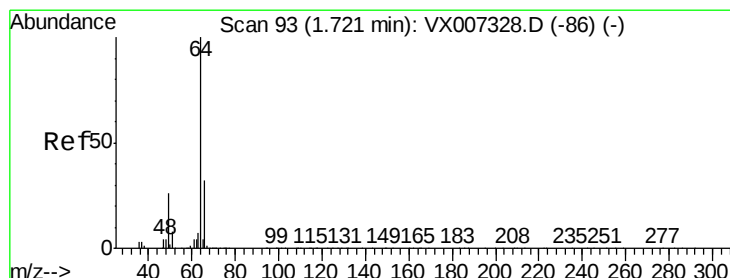
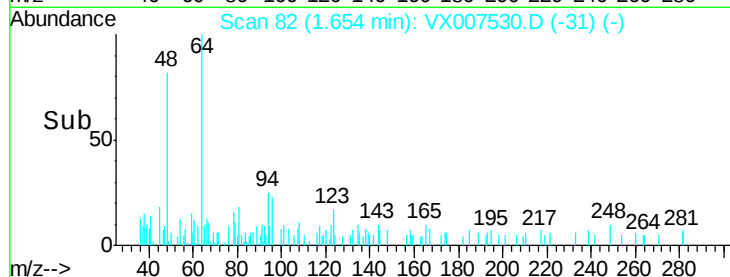
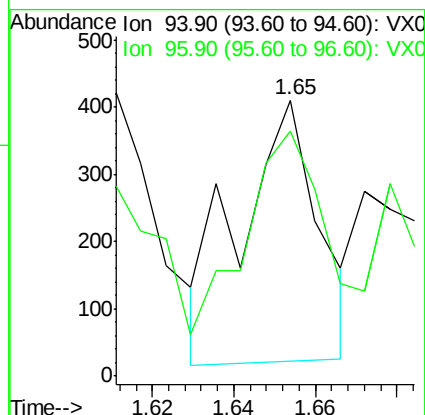
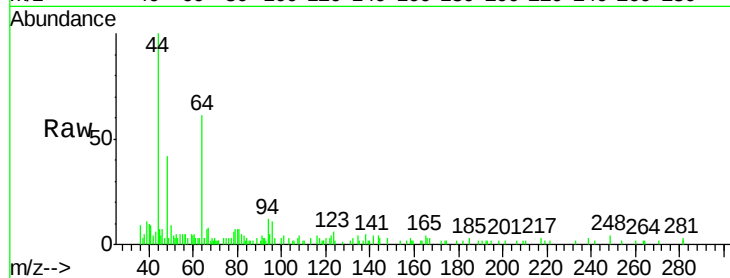
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Tot Ion: 94 Resp: 527

Ion Ratio Lower Upper

94 100

96 109.4 73.9 110.9



#6

Chloroethane

Concen: 1.873 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.10 min

Lab File: VX007530.D

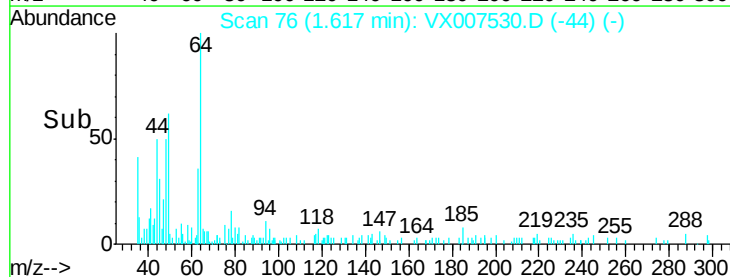
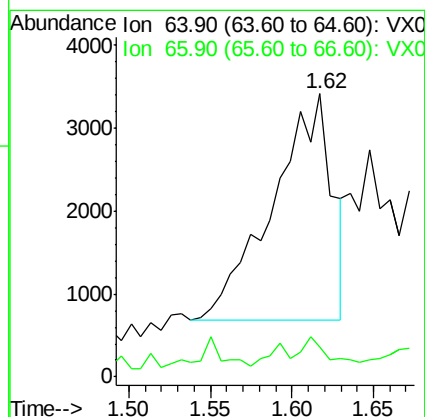
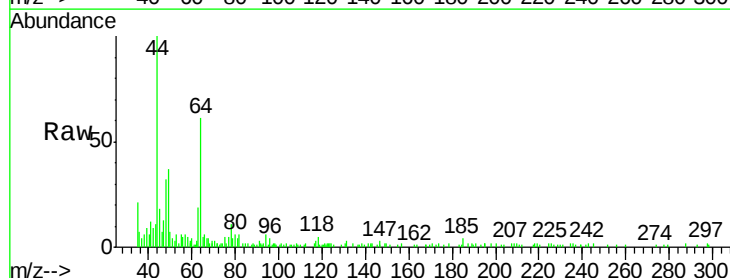
Acq: 13 Feb 2019 19:37

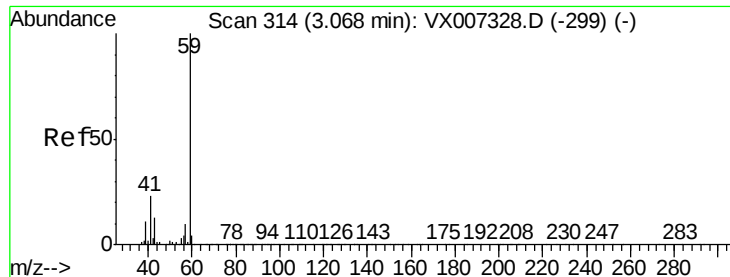
Tgt Ion: 64 Resp: 6891

Ion Ratio Lower Upper

64 100

66 6.7 25.5 38.3#



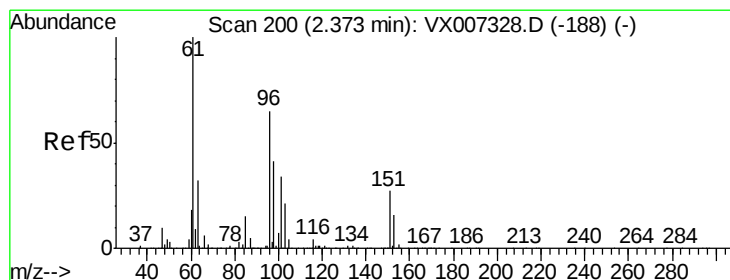
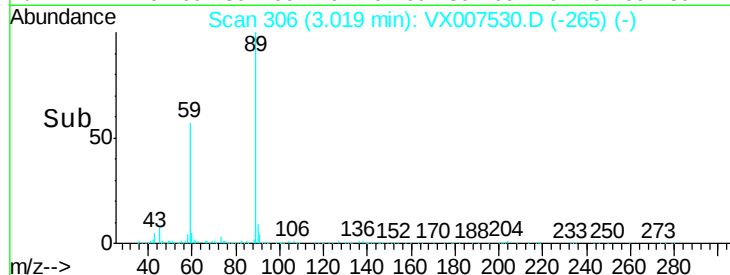
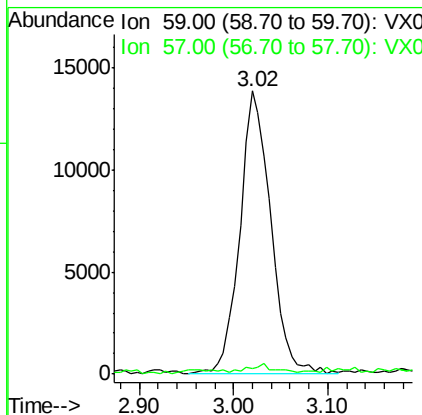
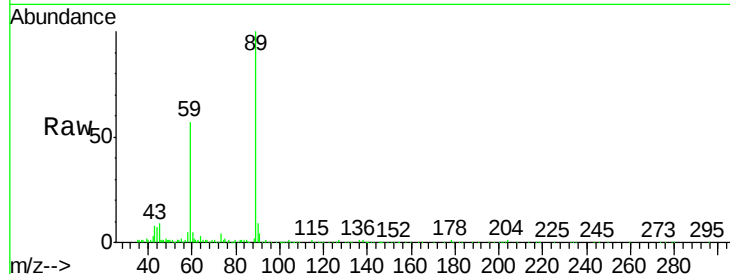


#11

Tert butyl alcohol
 Concen: 28.080 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.05 min
 Lab File: VX007530.D
 Acq: 13 Feb 2019 19:37

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-20190208

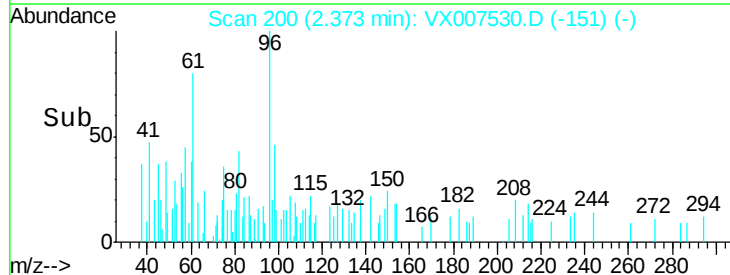
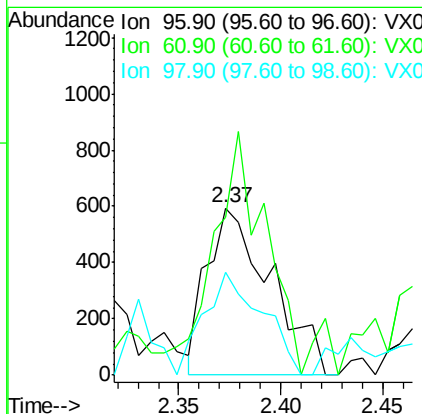
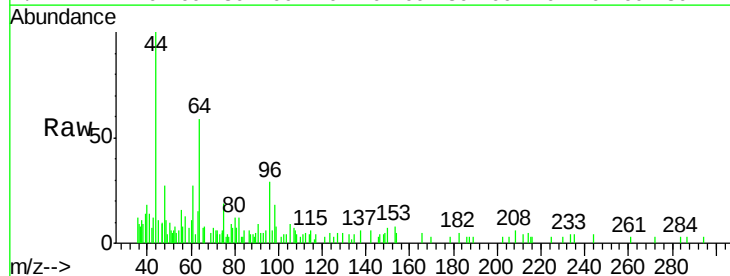
Tot Ion: 59 Resp: 31739
 Ion Ratio Lower Upper
 59 100
 57 2.1 8.1 12.1#

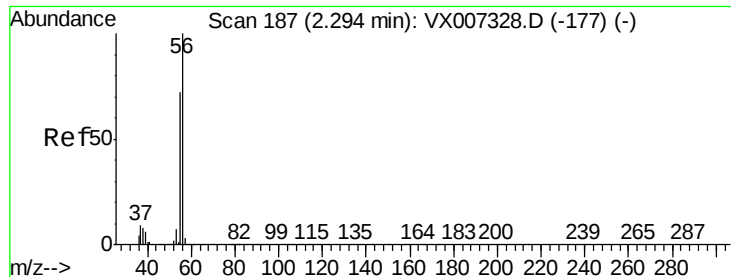


#12

1,1-Dichloroethene
 Concen: 0.265 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.00 min
 Lab File: VX007530.D
 Acq: 13 Feb 2019 19:37

Tgt Ion: 96 Resp: 1303
 Ion Ratio Lower Upper
 96 100
 61 94.8 123.0 184.4#
 98 49.0 50.9 76.3#





#13

Acrolein

Concen: 0.325 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX007530.D

Acq: 13 Feb 2019 19:37

Instrument :

MSVOA_X

ClientSampleId :

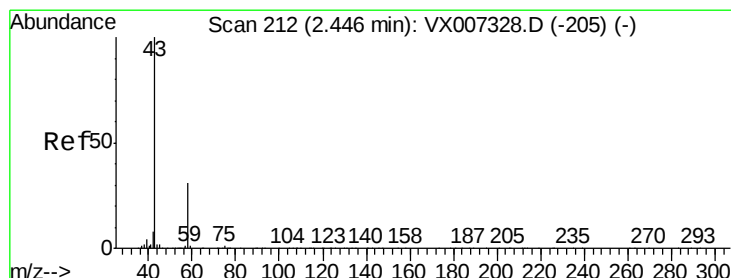
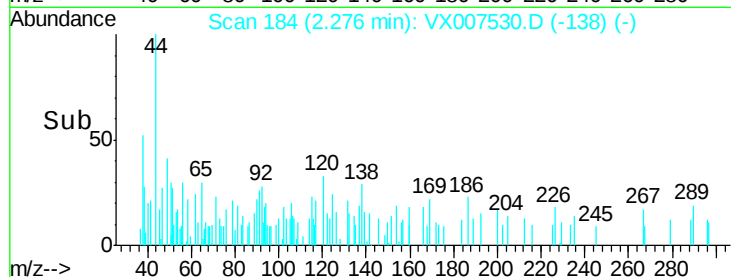
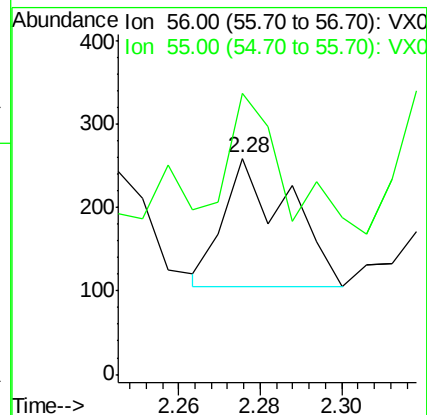
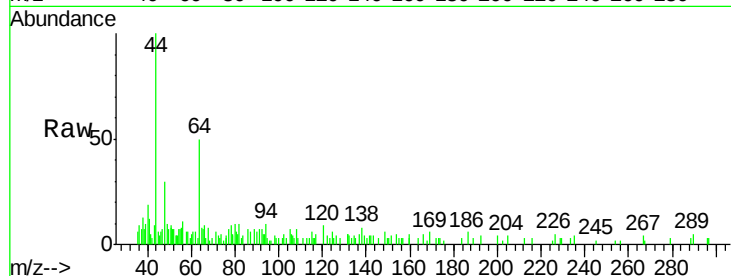
FB-20190208

Tot Ion: 56 Resp: 172

Ion Ratio Lower Upper

56 100

55 309.9 56.9 85.3#



#16

Acetone

Concen: 2.174 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007530.D

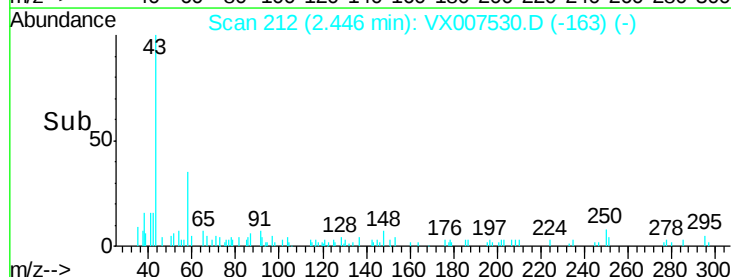
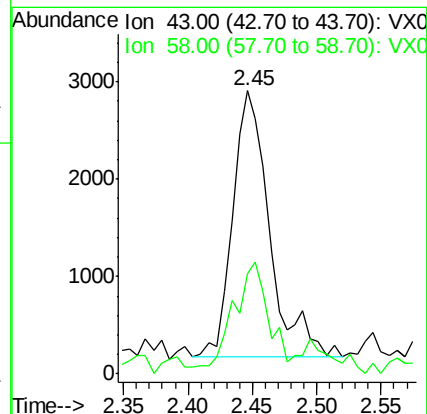
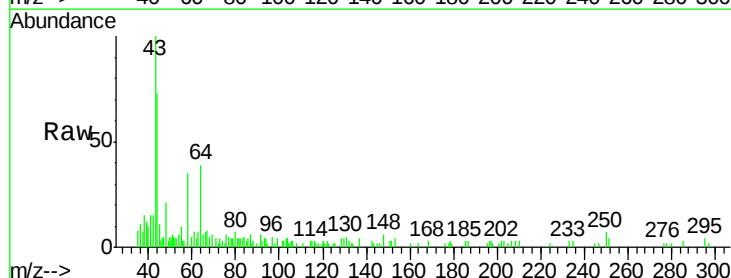
Acq: 13 Feb 2019 19:37

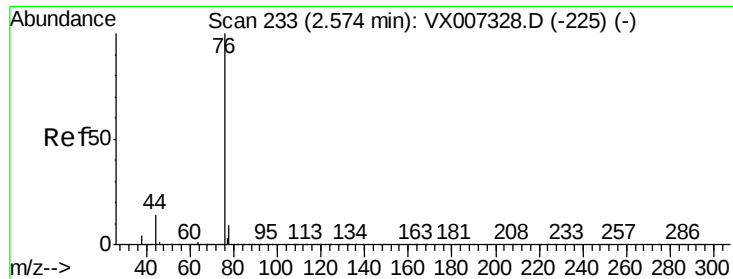
Tgt Ion: 43 Resp: 5439

Ion Ratio Lower Upper

43 100

58 34.8 24.9 37.3





#17

Carbon Disulfide

Concen: 2.215 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX007530.D

Acq: 13 Feb 2019 19:37

Instrument :

MSVOA_X

ClientSampleId :

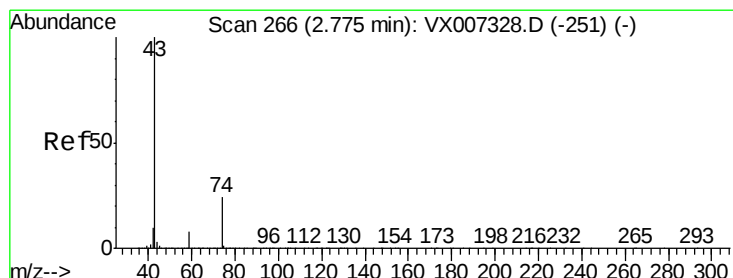
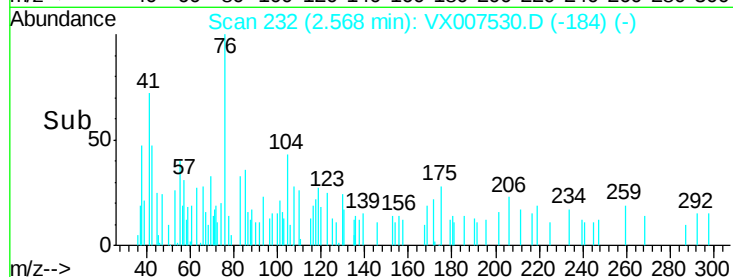
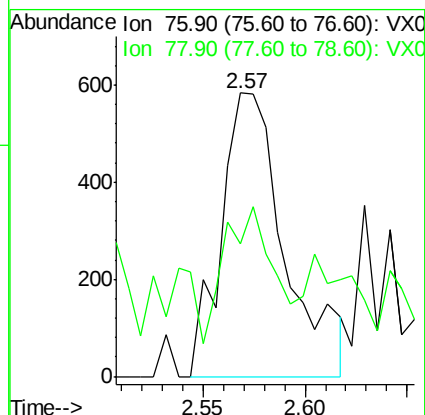
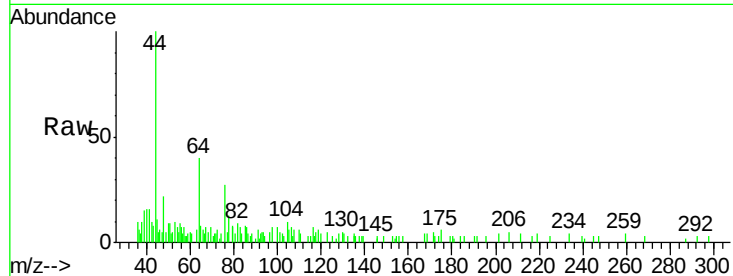
FB-20190208

Tot Ion: 76 Resp: 1262

Ion Ratio Lower Upper

76 100

78 12.7 7.1 10.7#



#18

Methyl Acetate

Concen: 0.742 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX007530.D

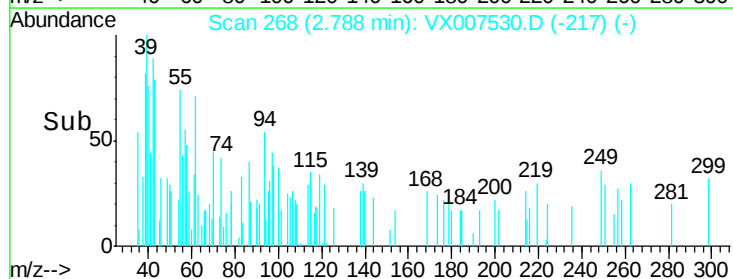
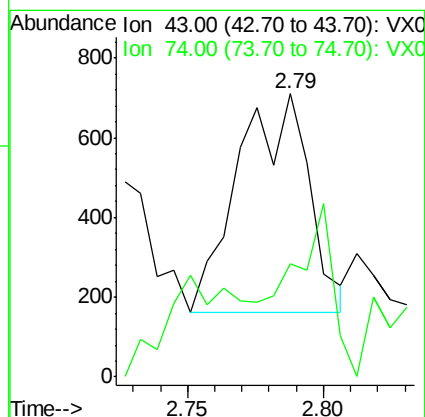
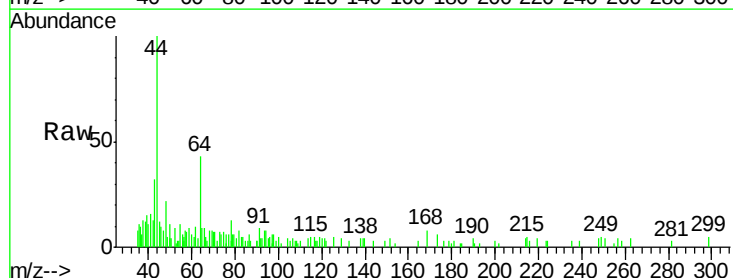
Acq: 13 Feb 2019 19:37

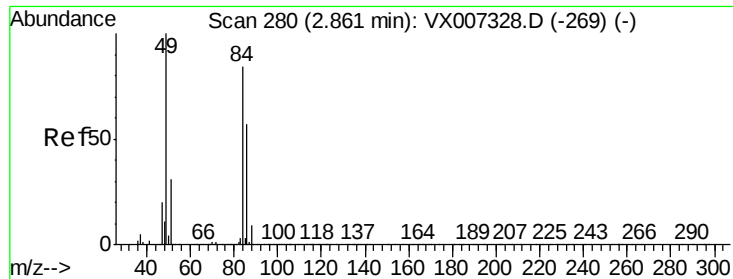
Tgt Ion: 43 Resp: 985

Ion Ratio Lower Upper

43 100

74 48.1 19.4 29.2#

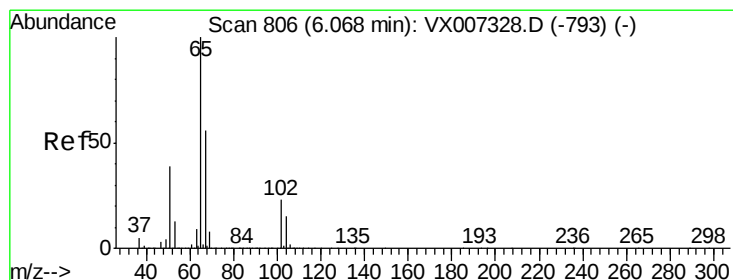
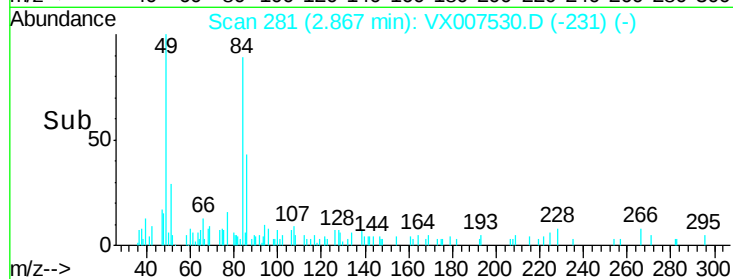
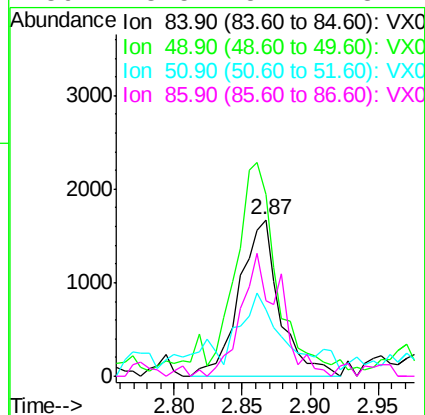
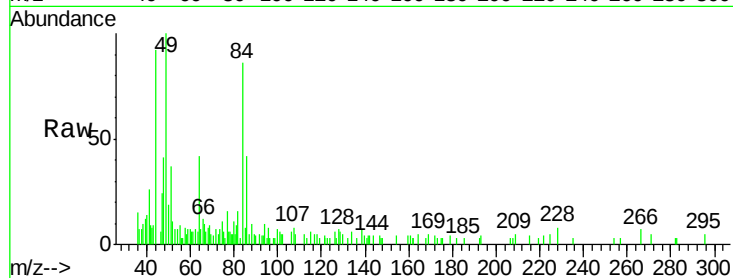




#20
Methvlene Chloride
Concen: 0.285 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX007530.D
Acq: 13 Feb 2019 19:37

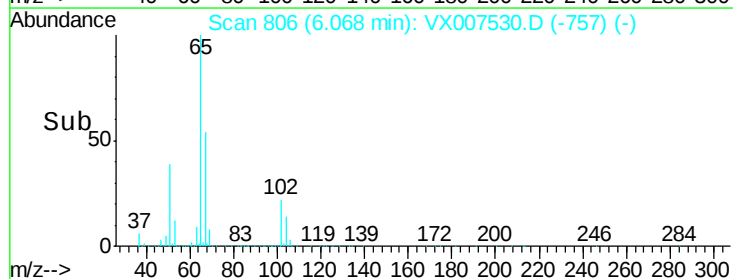
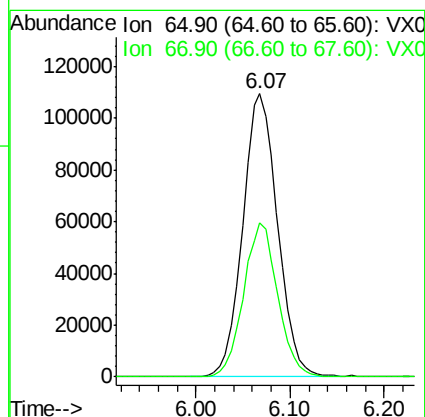
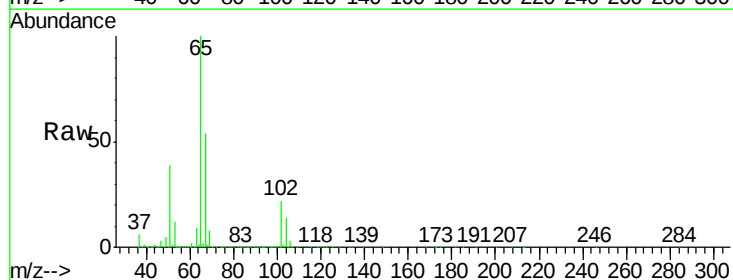
Instrument :
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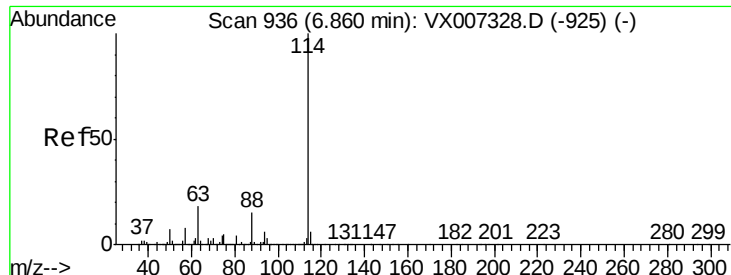
Tot Ion: 84 Resp: 3454
Ion Ratio Lower Upper
84 100
49 106.9 94.8 142.2
51 38.7 29.8 44.8
86 48.5 54.1 81.1#



#33
1,2-Dichloroethane-d4
Concen: 51.822 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007530.D
Acq: 13 Feb 2019 19:37

Tgt Ion: 65 Resp: 283039
Ion Ratio Lower Upper
65 100
67 53.1 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: VX007530.D

Acq: 13 Feb 2019 19:37

Instrument :

MSVOA_X

ClientSampleId :

FB-20190208

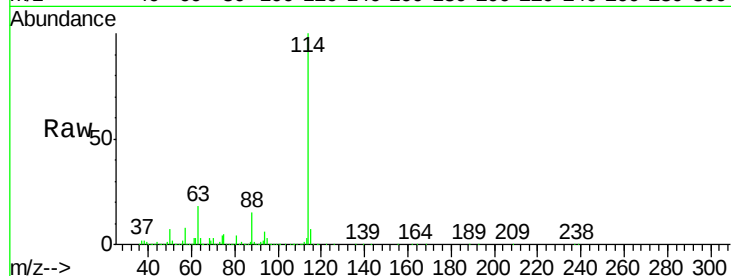
Tot Ion:114 Resp: 813658

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

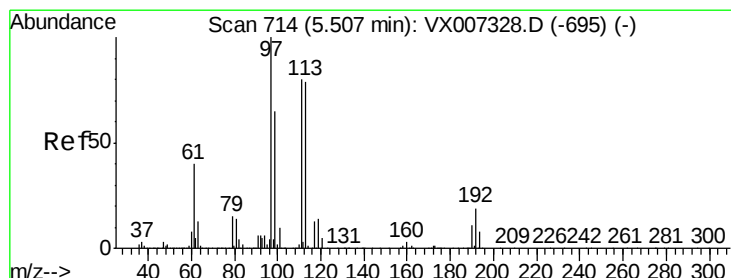
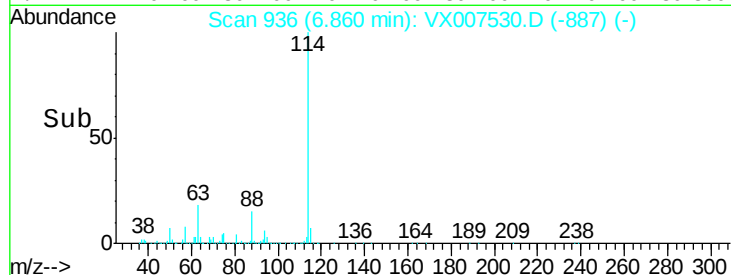
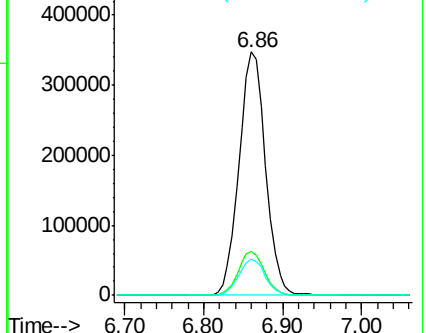
88 14.9 0.0 29.6



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: 49.609 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007530.D

Acq: 13 Feb 2019 19:37

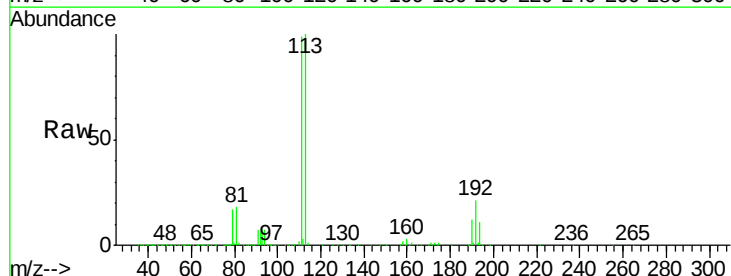
Tgt Ion:113 Resp: 262641

Ion Ratio Lower Upper

113 100

111 100.8 81.8 122.8

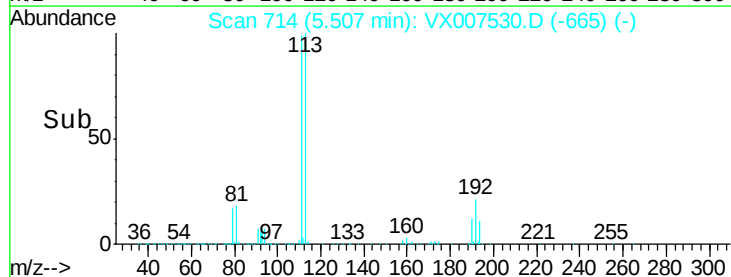
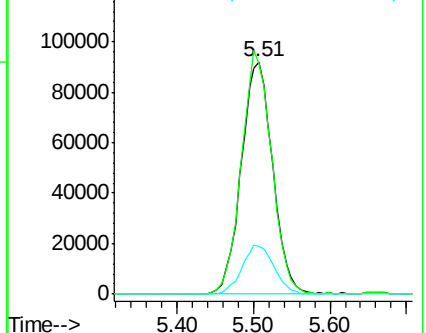
192 21.5 18.5 27.7

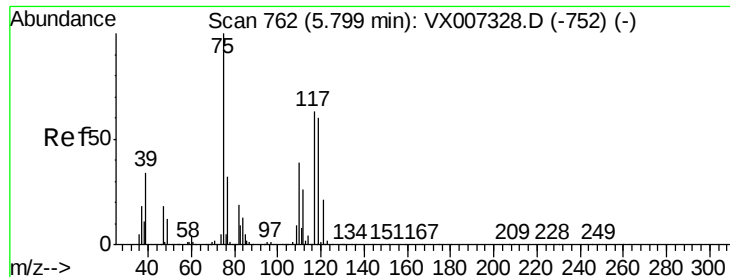


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.489 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007530.D

Acq: 13 Feb 2019 19:37

Instrument :

MSVOA_X

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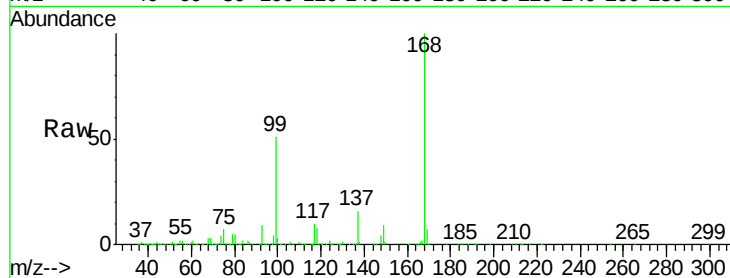
Tot Ion: 75 Resp: 32774

Ion Ratio Lower Upper

75 100

110 11.6 20.0 59.9#

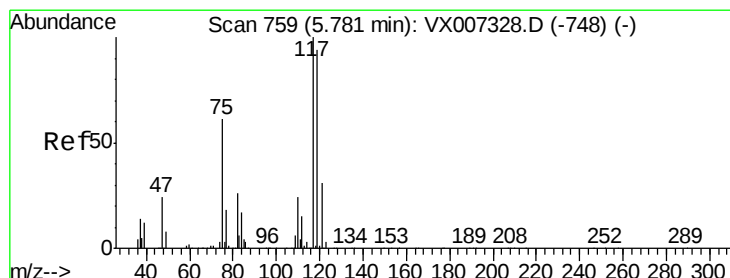
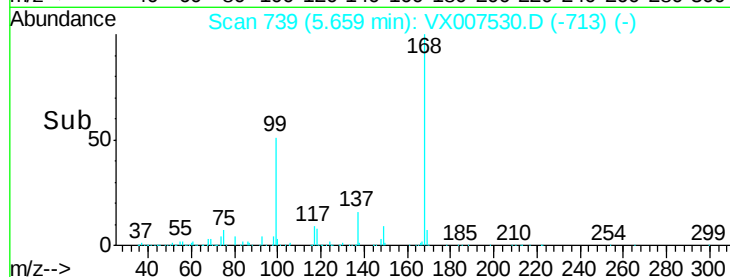
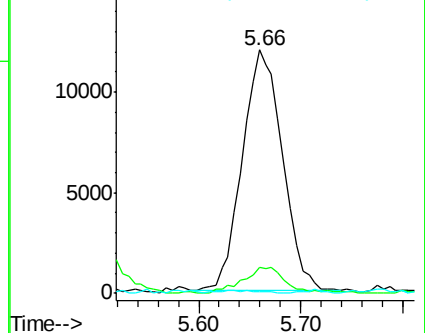
77 0.0 24.7 37.1#



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: 6.604 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007530.D

Acq: 13 Feb 2019 19:37

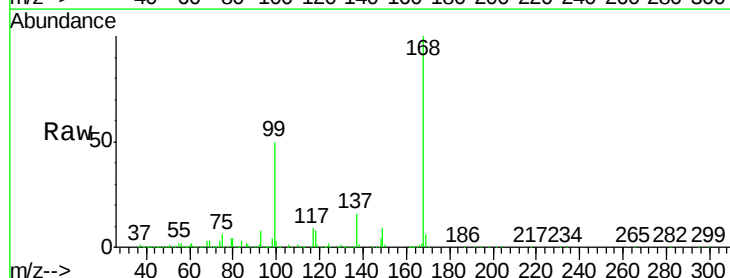
Tgt Ion: 117 Resp: 46771

Ion Ratio Lower Upper

117 100

119 8.0 75.3 112.9#

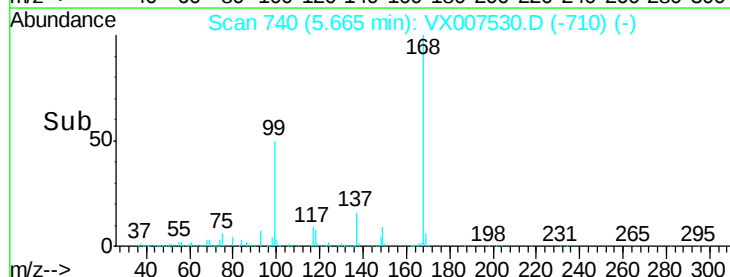
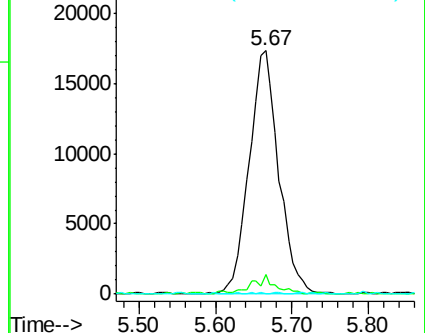
121 0.4 25.0 37.4#

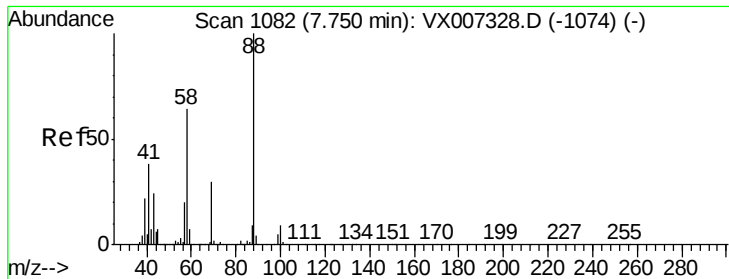


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

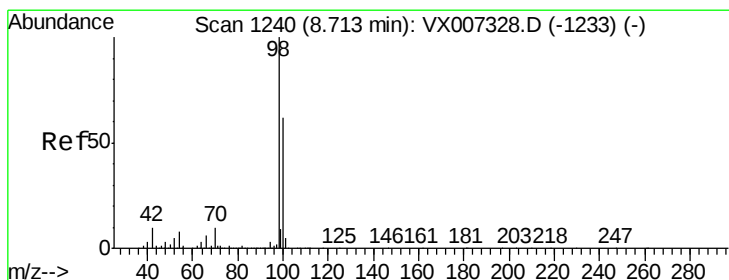
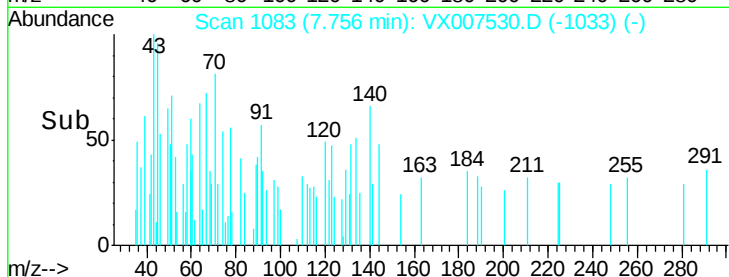
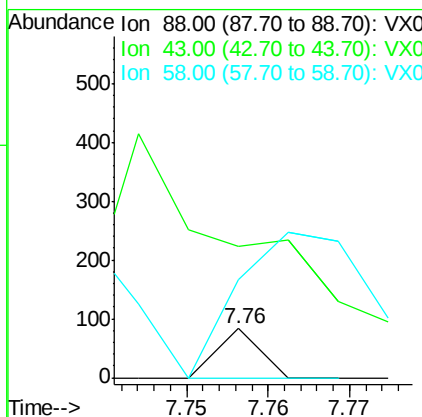
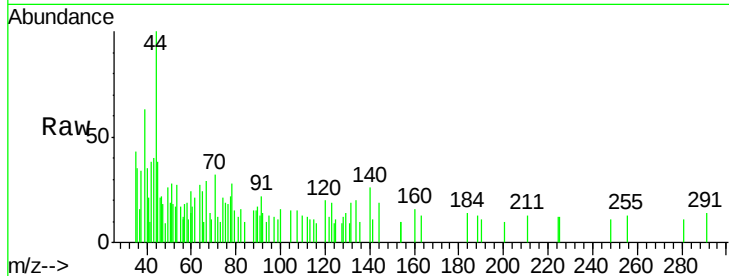




#49
1,4-Dioxane
Concen: 7.109 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007530.D
Acq: 13 Feb 2019 19:37

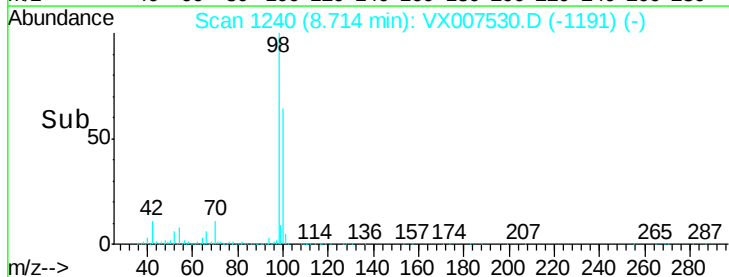
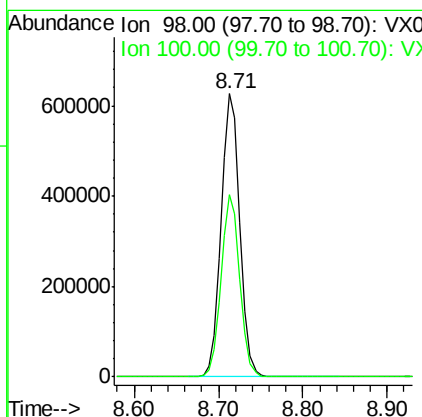
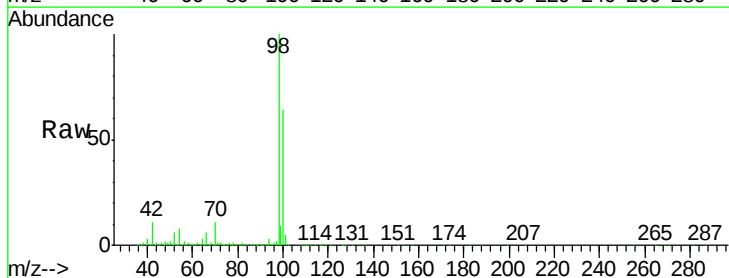
Instrument :
MSVOA_X
ClientSampled :
FB-20190208

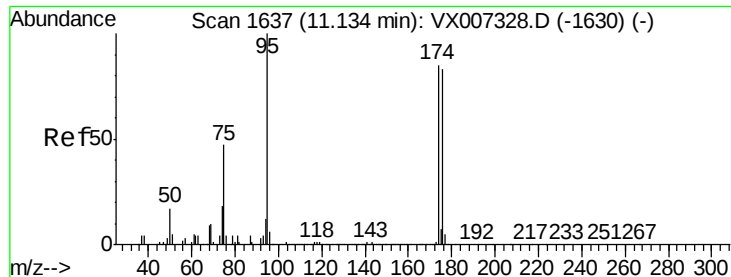
Tot Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 24.2 36.4#
58 913.3 53.0 79.4#



#50
Toluene-d8
Concen: 48.903 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007530.D
Acq: 13 Feb 2019 19:37

Tgt Ion: 98 Resp: 960570
Ion Ratio Lower Upper
98 100
100 63.9 51.6 77.4

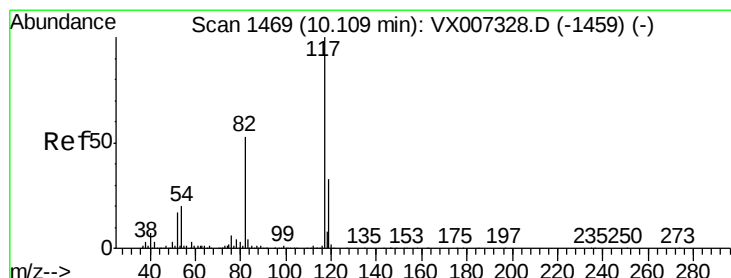
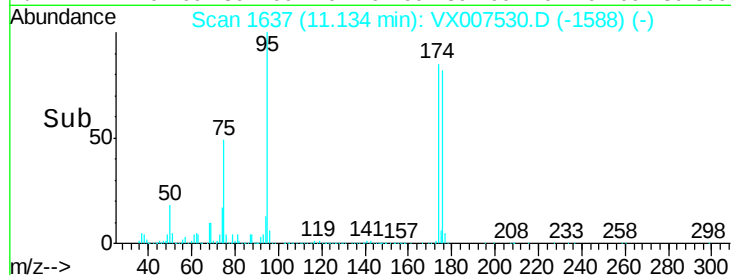
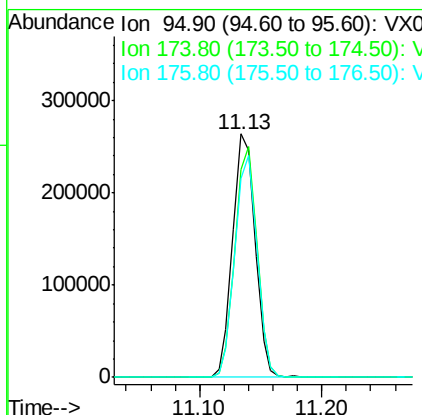
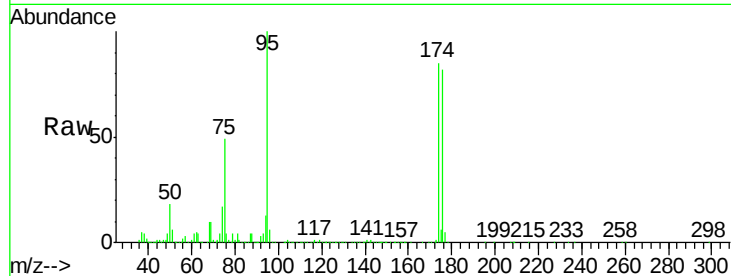




#62
4-Bromofluorobenzene
Concen: 46.659 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007530.D
Acq: 13 Feb 2019 19:37

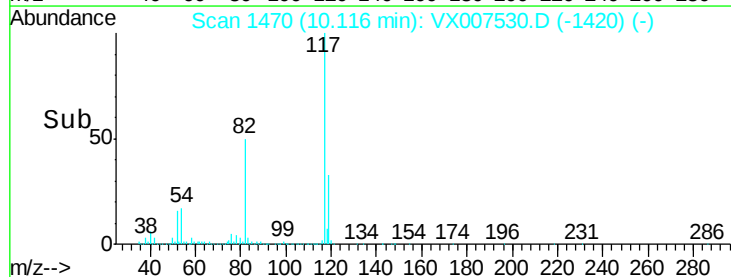
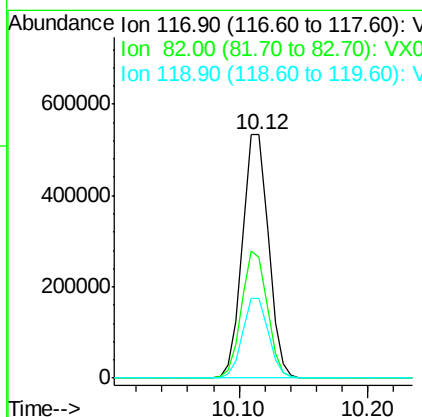
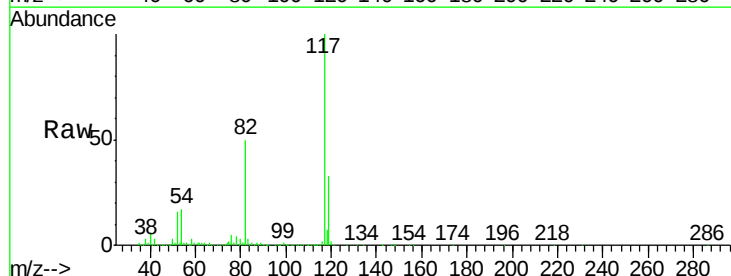
Instrument :
MSVOA_X
ClientSampleId :
FB-20190208

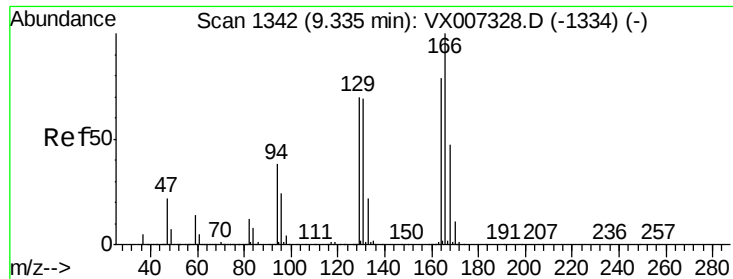
Tot Ion	Ratio	Lower	Upper
95	100		
174	93.1	0.0	189.2
176	90.3	0.0	186.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007530.D
Acq: 13 Feb 2019 19:37

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.6	42.1	63.1
119	32.9	26.5	39.7

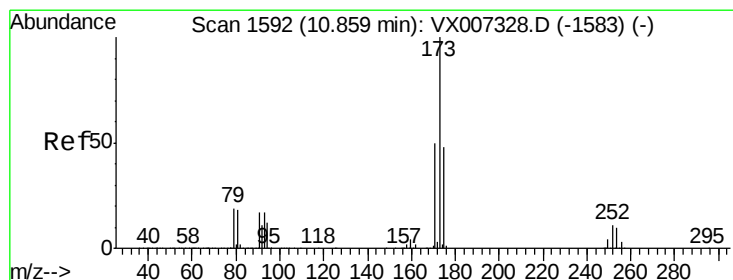
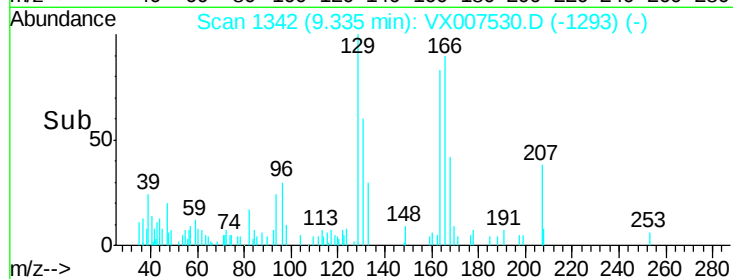
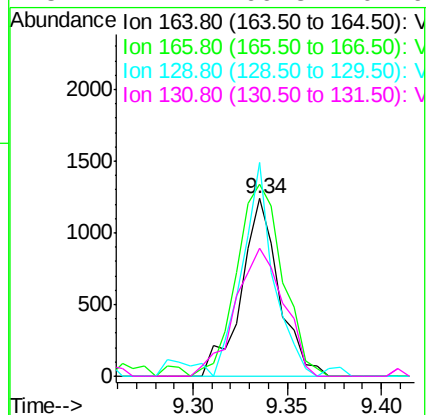
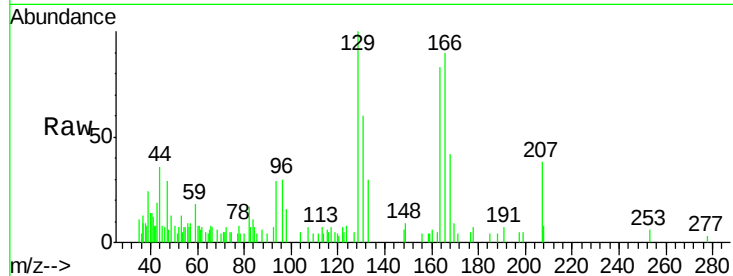




#64
Tetrachloroethene
Concen: 0.244 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007530.D
Acq: 13 Feb 2019 19:37

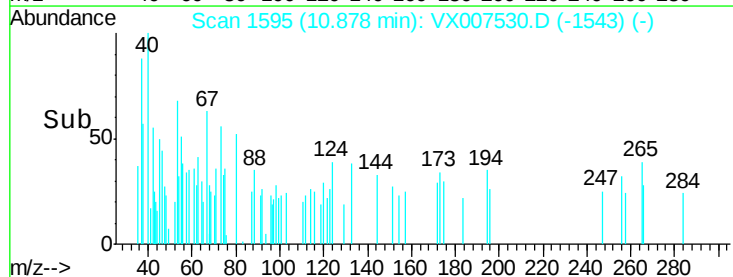
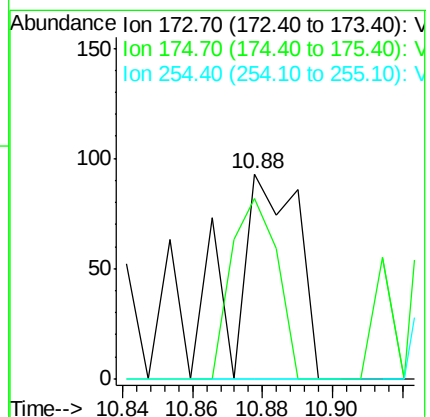
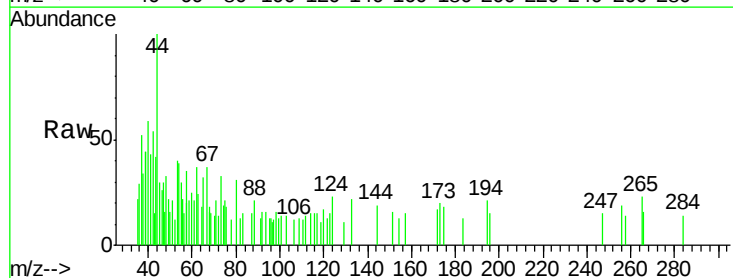
Instrument :
MSVOA_X
ClientSampleId :
FB-20190208

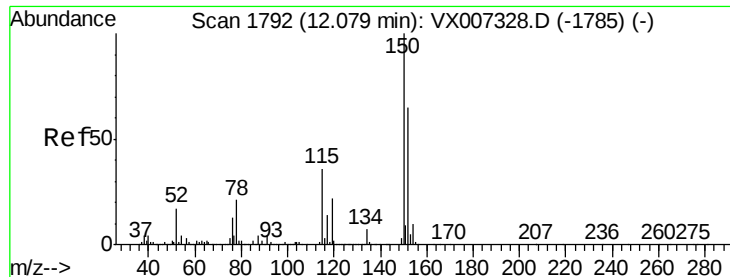
Tot Ion:164 Resp: 1723
Ion Ratio Lower Upper
164 100
166 107.7 101.0 151.4
129 115.6 70.5 105.7#
131 72.2 69.8 104.6



#71
Bromoform
Concen: 4.052 ug/l
RT: 10.88 min Scan# 1595
Delta R.T. 0.02 min
Lab File: VX007530.D
Acq: 13 Feb 2019 19:37

Tgt Ion:173 Resp: 119
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007530.D

Acq: 13 Feb 2019 19:37

Instrument :

MSVOA_X

ClientSampleId :

FB-20190208

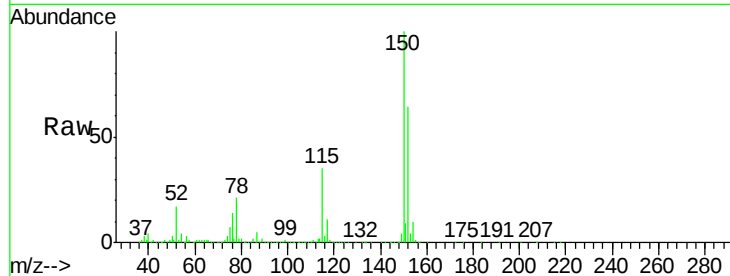
Tot Ion:152 Resp: 354413

Ion Ratio Lower Upper

152 100

115 54.9 38.0 114.0

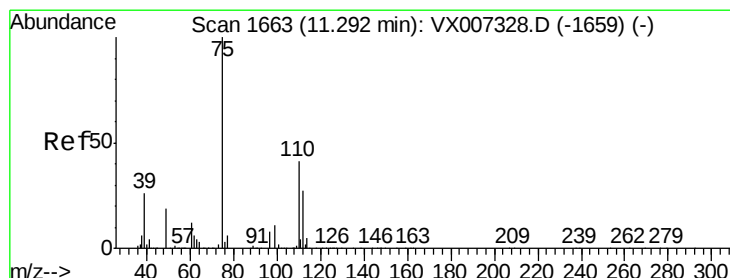
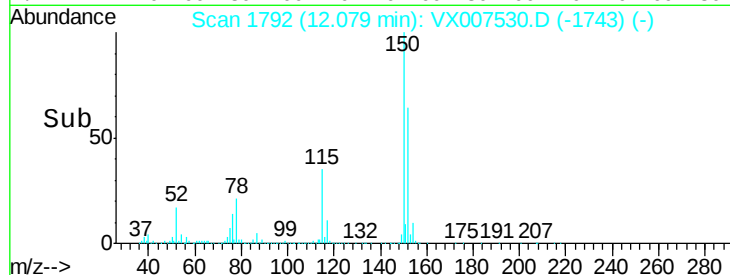
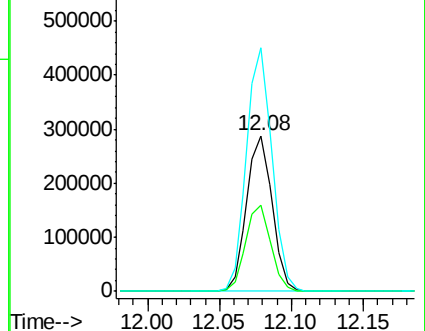
150 156.3 0.0 346.4



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: 23.339 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007530.D

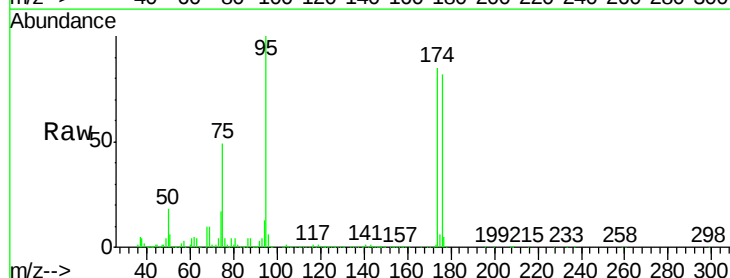
Acq: 13 Feb 2019 19:37

Tgt Ion: 75 Resp: 160897

Ion Ratio Lower Upper

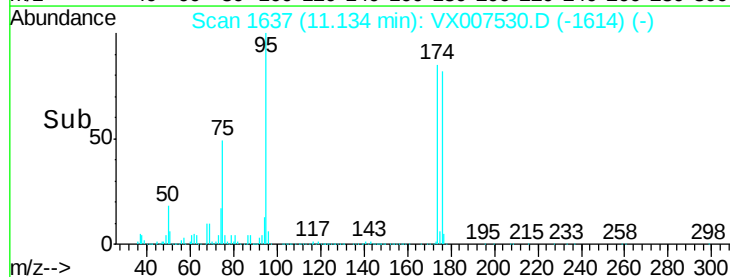
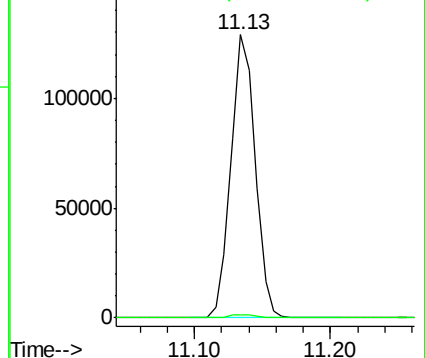
75 100

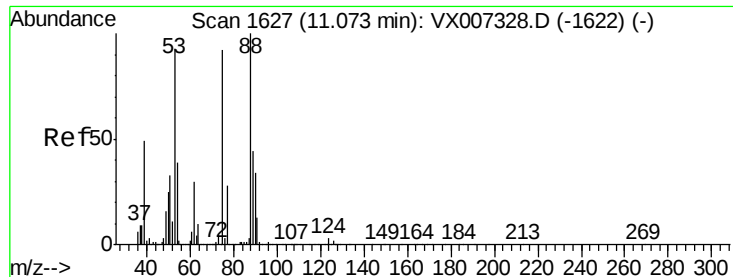
77 1.5 23.0 69.0#



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: 70.268 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007530.D

Acq: 13 Feb 2019 19:37

Instrument :

MSVOA_X

ClientSampleId :

FB-20190208

Tot Ion: 75 Resp: 160897

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 41.4 62.0#

