

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091319\
 Data File : VX012397.D
 Acq On : 13 Sep 2019 20:06
 Operator : SY/SP
 Sample : K4738-02
 Misc : 6.44g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FK-BPM-01-H02-H03-H02A-H03A

Quant Time: Sep 14 00:06:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091019S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 12:55:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	163925	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	275566	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	250858	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	116885	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	106253	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	
35) Dibromofluoromethane	5.48	113	81162	45.94	ug/l	0.00
Spiked Amount			Recovery	=	91.88%	
50) Toluene-d8	8.71	98	328120	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	
62) 4-Bromofluorobenzene	11.14	95	129754	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	

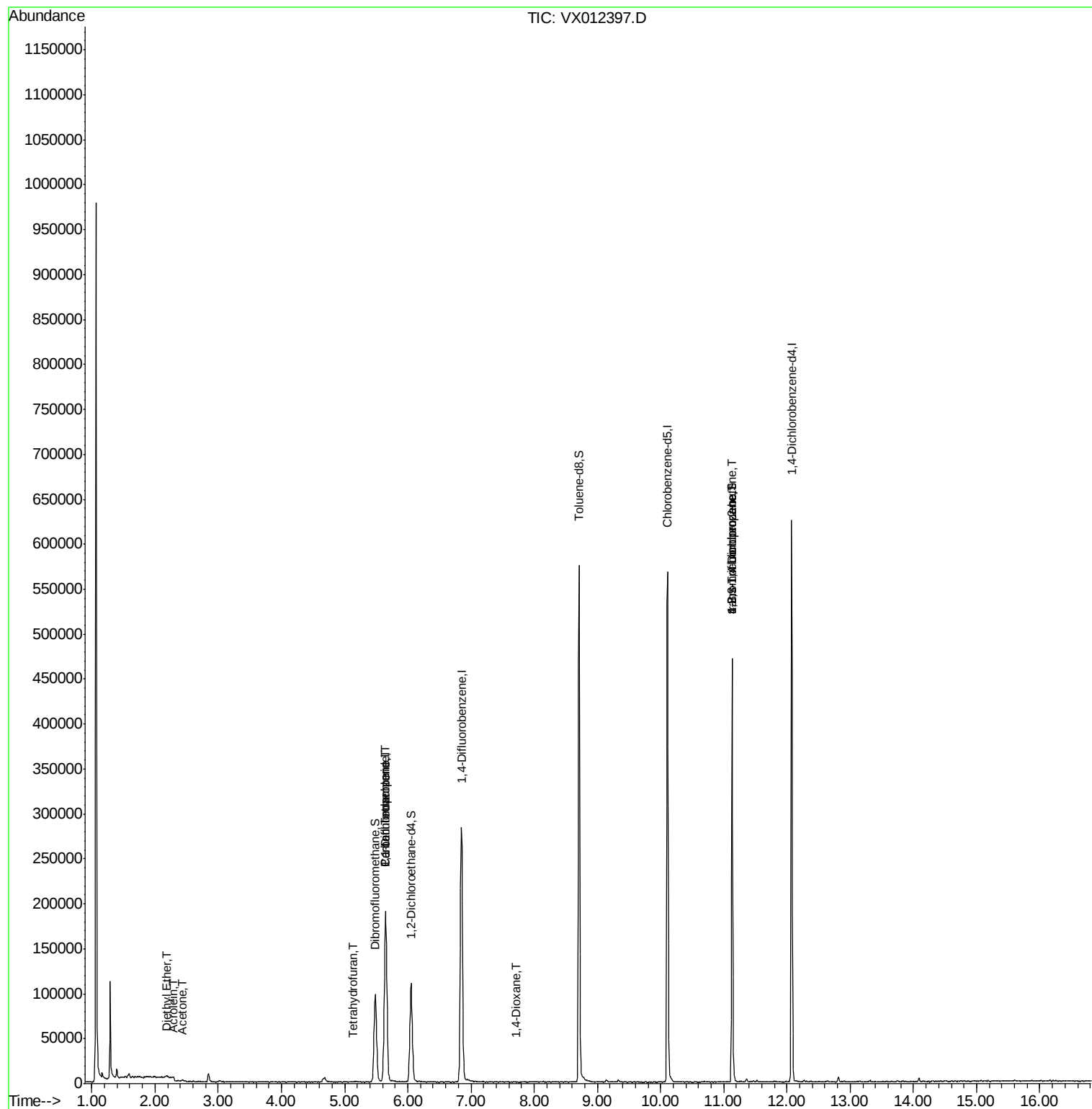
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.59	94	179	Below Cal		100
8) Diethyl Ether	2.18	74	810	1.095 ug/l		84
11) Tert butyl alcohol	3.02	59	1006	Below Cal		97
13) Acrolein	2.28	56	417	3.442 ug/l #		61
16) Acetone	2.43	43	1671	3.046 ug/l		96
20) Methylene Chloride	2.84	84	3974	Below Cal		95
29) Tetrahydrofuran	5.13	42	411	1.086 ug/l #		33
36) 1,1-Dichloropropene	5.64	75	14545	7.239 ug/l #		52
38) Carbon Tetrachloride	5.64	117	18192	7.717 ug/l #		14
49) 1,4-Dioxane	7.71	88	25	1.478 ug/l #		1
76) 1,2,3-Trichloropropane	11.14	75	68287	45.477 ug/l #		38
81) trans-1,4-Dichloro-2-buten	11.14	75	68287	136.260 ug/l #		5

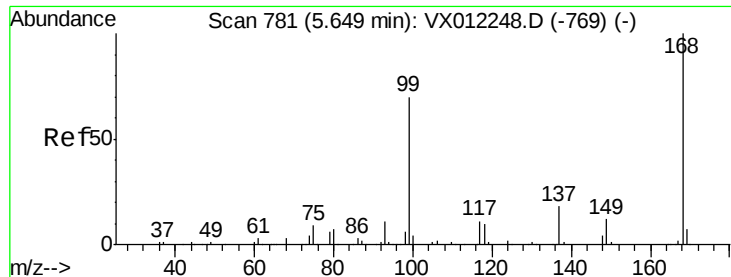
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012397.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

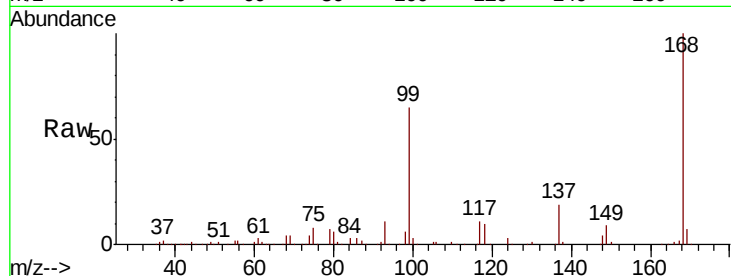
FK-BPM-01-H02-H03-H02A-H03A

Tgt Ion:168 Resp: 163925

Ion Ratio Lower Upper

168 100

99 64.9 55.8 83.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

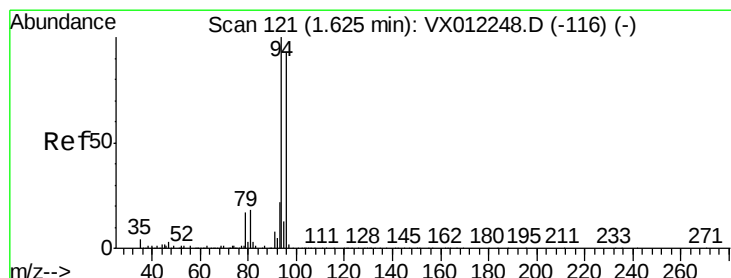
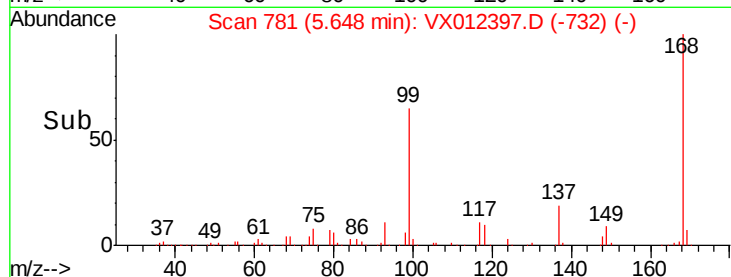
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 115

Delta R.T. -0.04 min

Lab File: VX012397.D

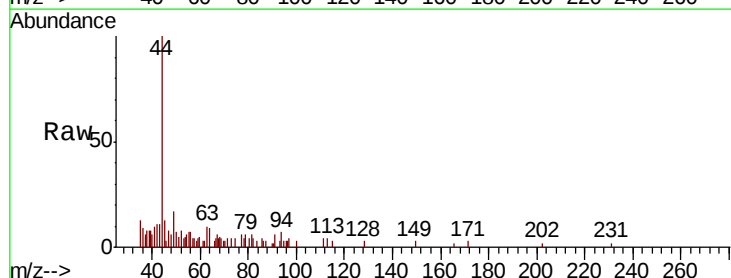
Acq: 13 Sep 2019 20:06

Tgt Ion: 94 Resp: 179

Ion Ratio Lower Upper

94 100

96 92.5 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.59

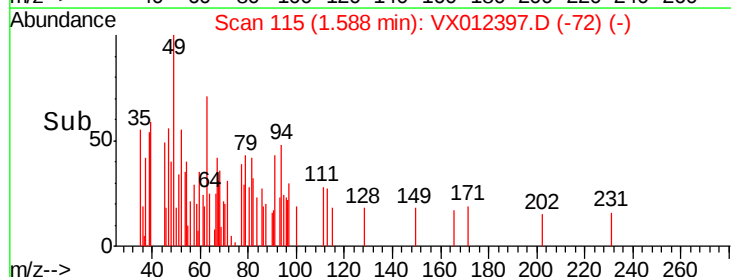
150

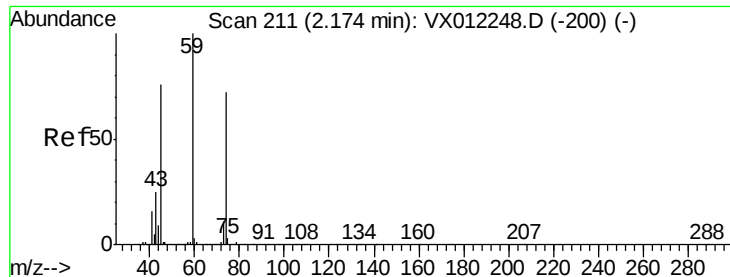
100

50

0

Time--> 1.56 1.58 1.60 1.62





#8

Diethyl Ether

Concen: 1.095 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX012397.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

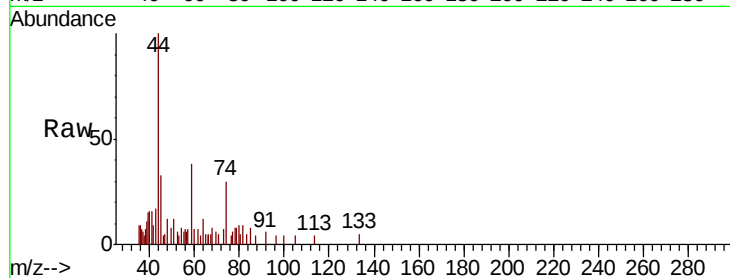
FK-BPM-01-H02-H03-H02A-H03A

Tgt Ion: 74 Resp: 810

Ion Ratio Lower Upper

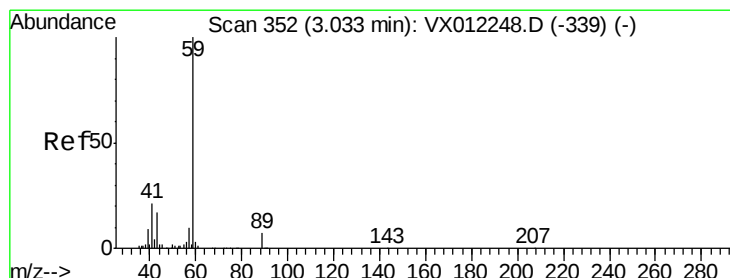
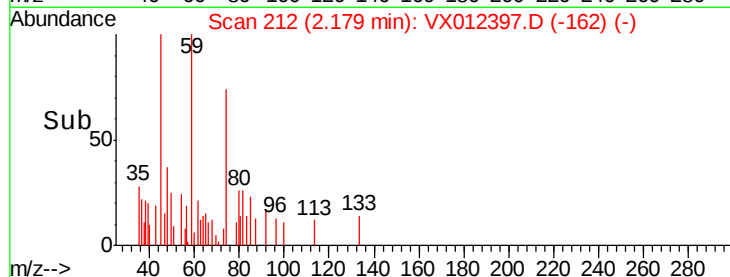
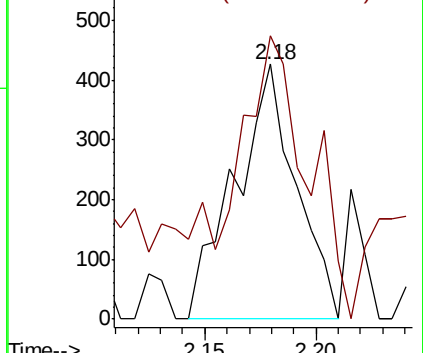
74 100

45 119.0 51.3 153.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX012397.D

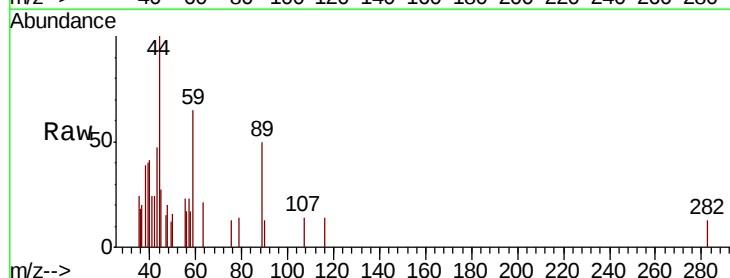
Acq: 13 Sep 2019 20:06

Tgt Ion: 59 Resp: 1006

Ion Ratio Lower Upper

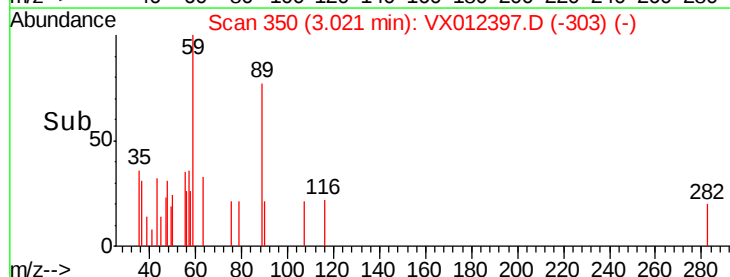
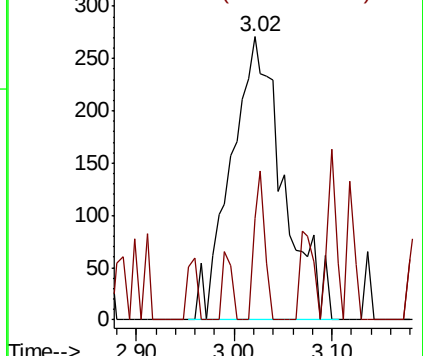
59 100

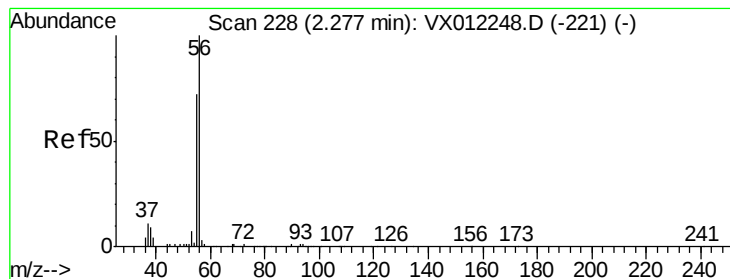
57 10.7 7.8 11.6



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 3.442 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.01 min

Lab File: VX012397.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

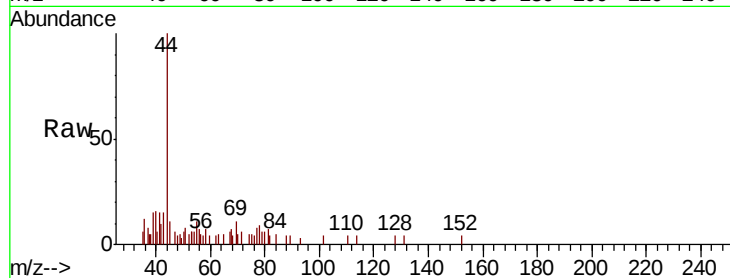
FK-BPM-01-H02-H03-H02A-H03A

Tgt Ion: 56 Resp: 417

Ion Ratio Lower Upper

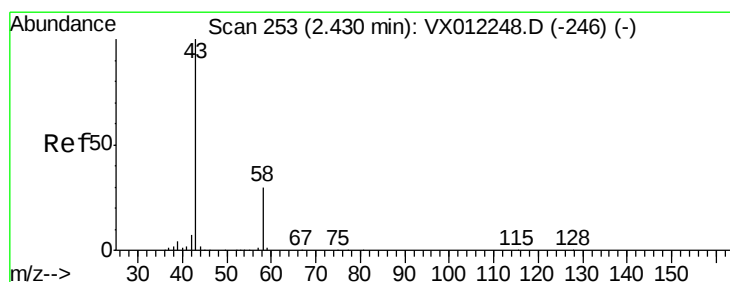
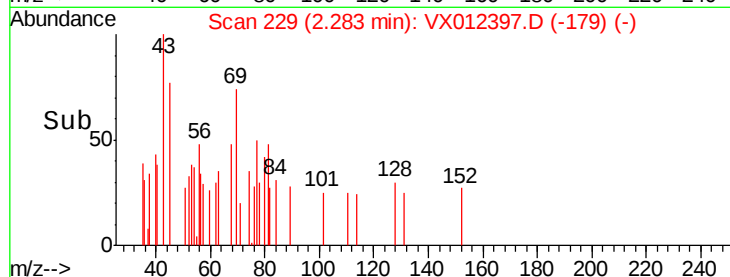
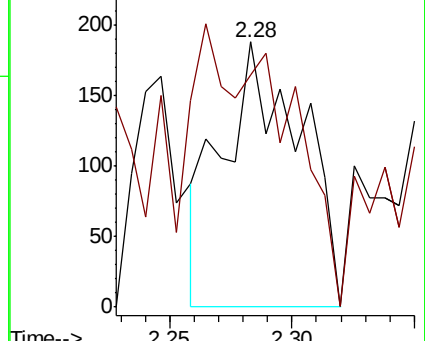
56 100

55 41.5 59.8 89.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.046 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012397.D

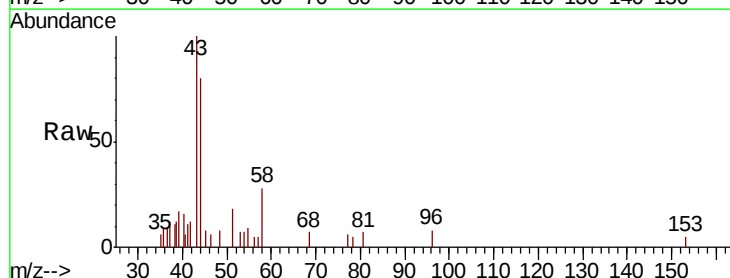
Acq: 13 Sep 2019 20:06

Tgt Ion: 43 Resp: 1671

Ion Ratio Lower Upper

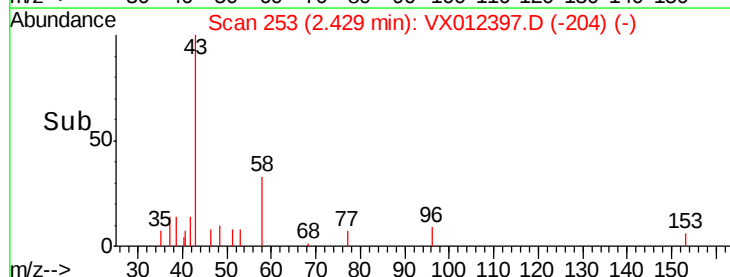
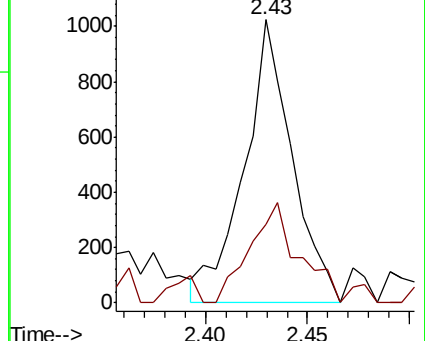
43 100

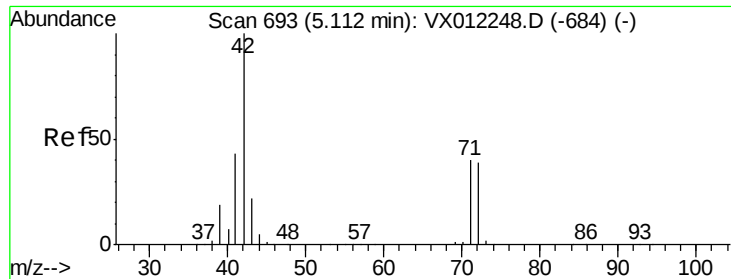
58 27.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

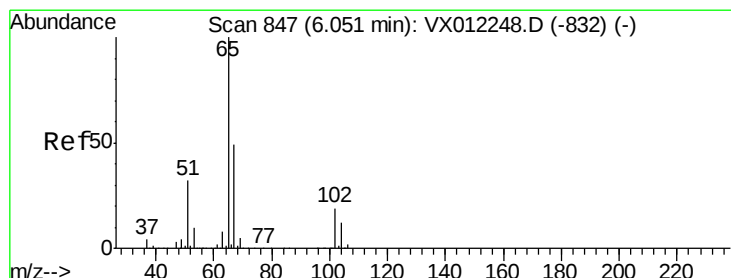
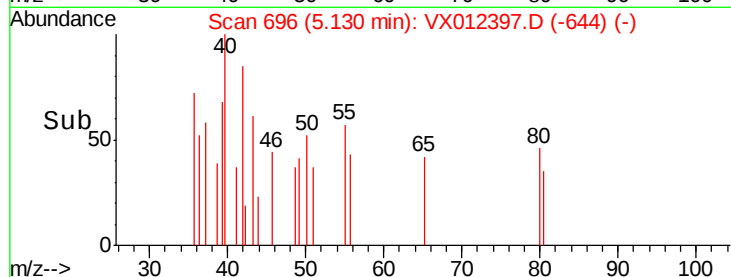
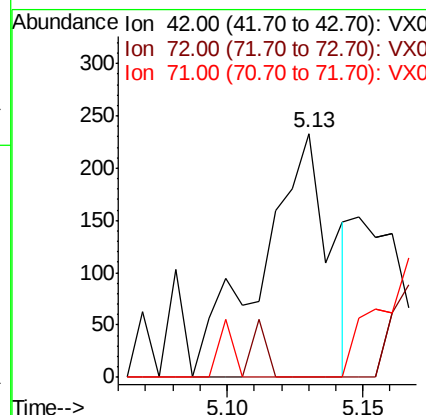
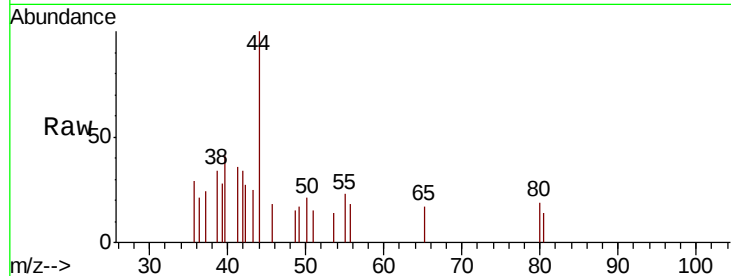




#29
Tetrahydrofuran
Concen: 1.086 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.02 min
Lab File: VX012397.D
Acq: 13 Sep 2019 20:06

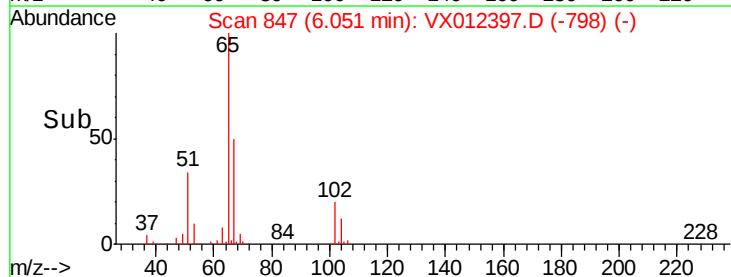
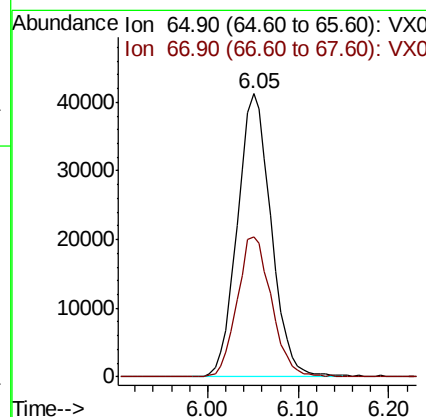
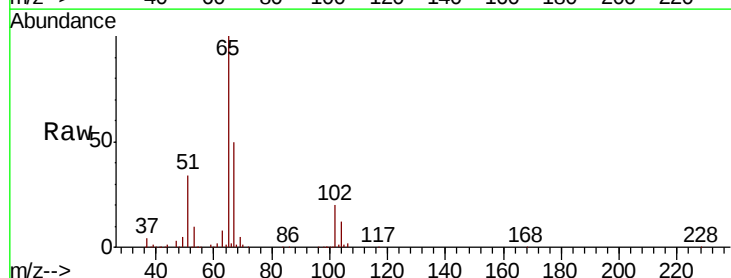
Instrument :
MSVOA_X
ClientSampleId :
FK-BPM-01-H02-H03-H02A-H03A

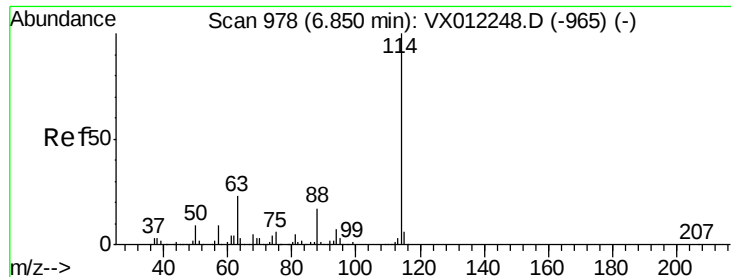
Tgt Ion: 42 Resp: 411
Ion Ratio Lower Upper
42 100
72 0.0 35.2 52.8#
71 0.0 32.5 48.7#



#33
1,2-Dichloroethane-d4
Concen: 45.847 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX012397.D
Acq: 13 Sep 2019 20:06

Tgt Ion: 65 Resp: 106253
Ion Ratio Lower Upper
65 100
67 50.3 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012397.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

FK-BPM-01-H02-H03-H02A-H03A

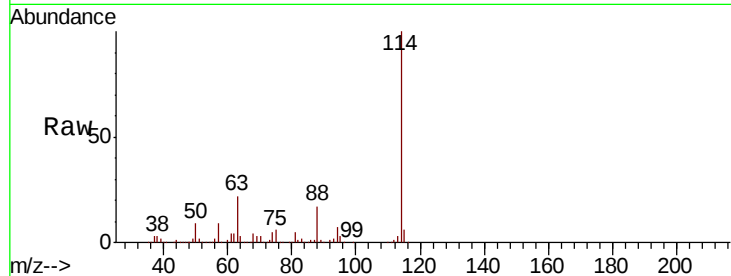
Tgt Ion:114 Resp: 275566

Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.2

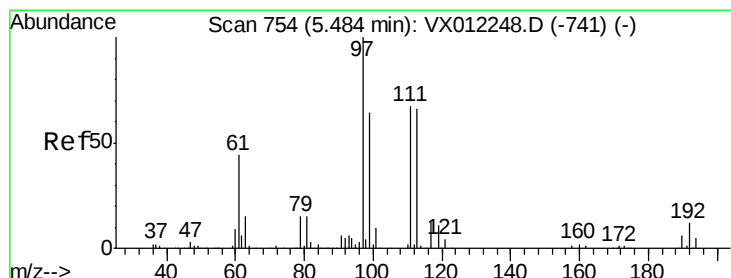
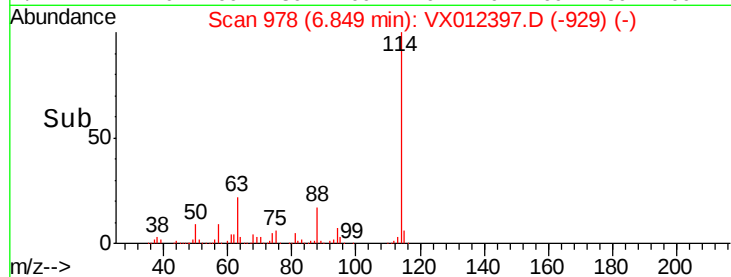
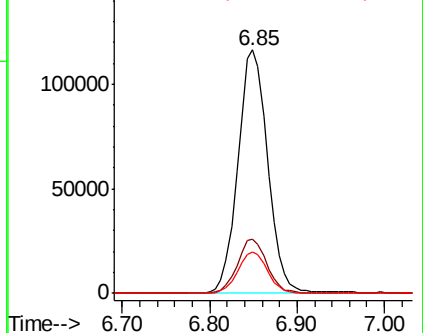
88 16.8 0.0 34.8



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: 45.945 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012397.D

Acq: 13 Sep 2019 20:06

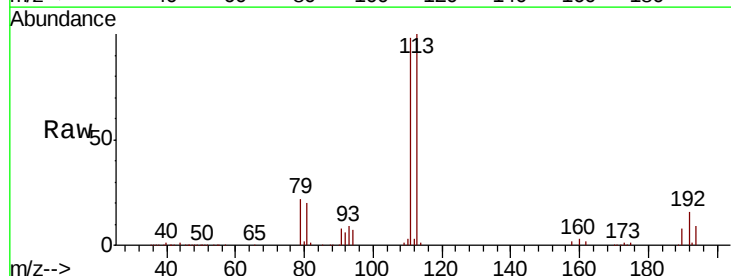
Tgt Ion:113 Resp: 81162

Ion Ratio Lower Upper

113 100

111 101.9 83.0 124.6

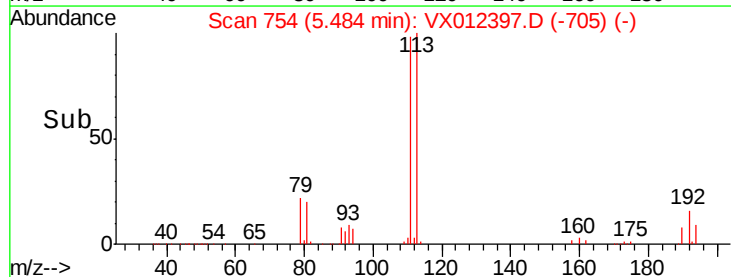
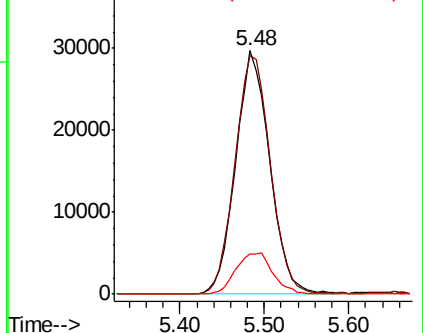
192 18.4 14.3 21.5

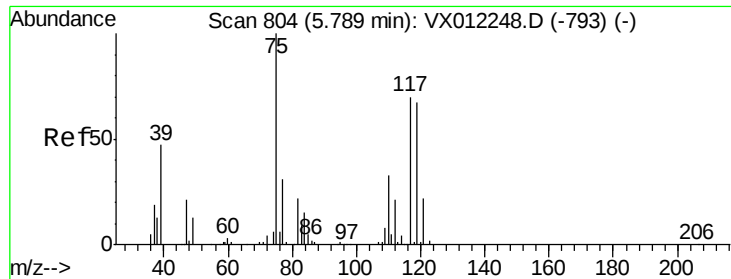


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

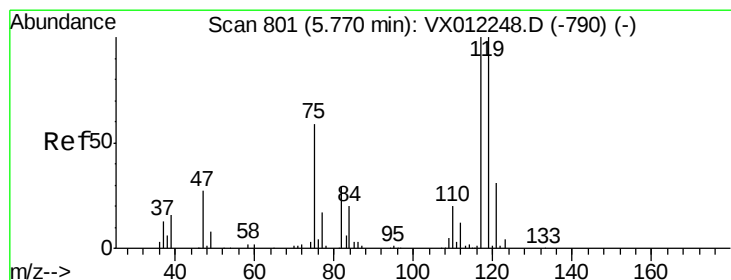
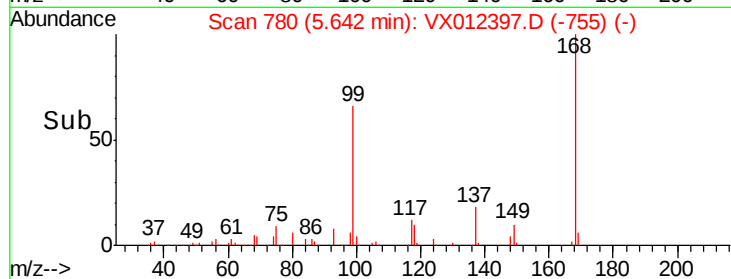
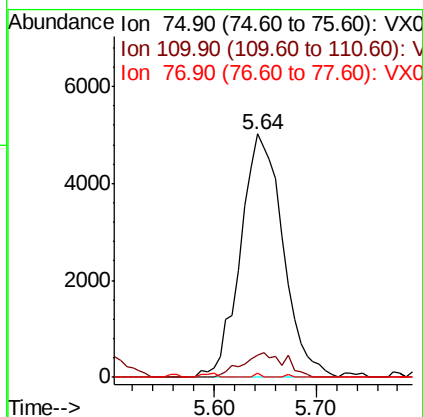
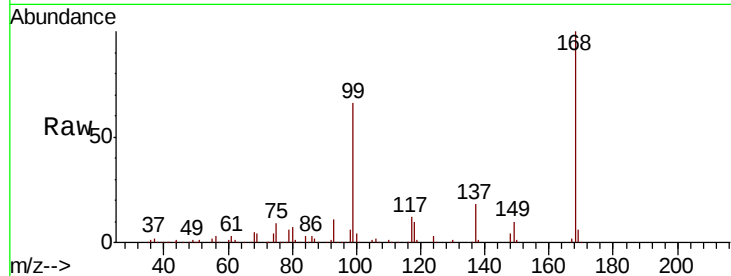




#36
 1,1-Dichloropropene
 Concen: 7.239 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX012397.D
 Acq: 13 Sep 2019 20:06

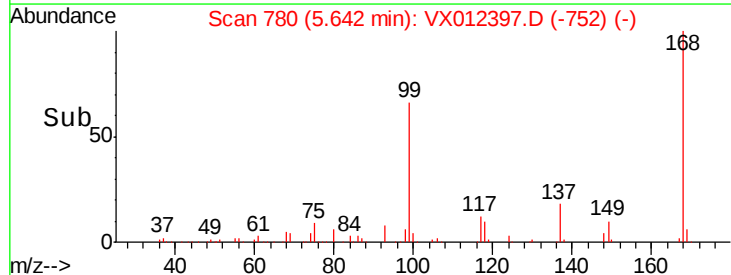
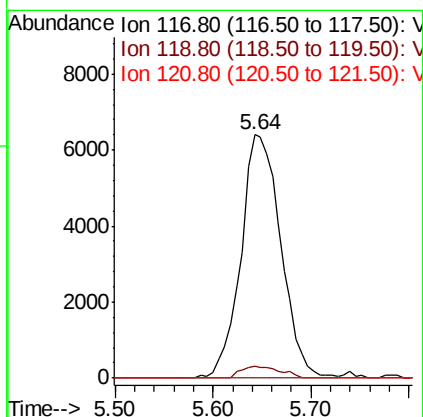
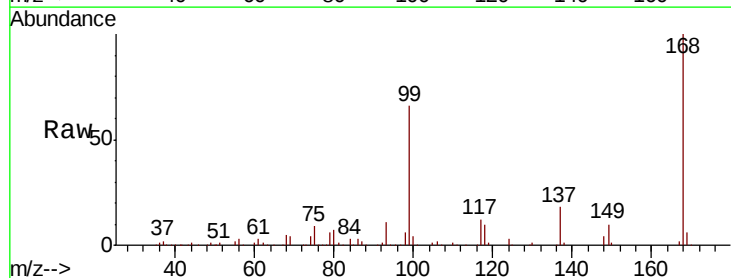
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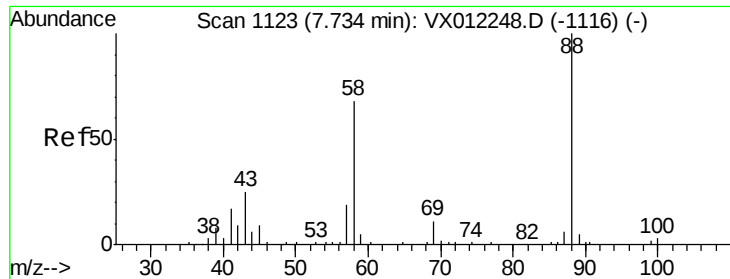
Tgt Ion: 75 Resp: 14545
 Ion Ratio Lower Upper
 75 100
 110 10.3 16.8 50.4#
 77 0.2 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 7.717 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.13 min
 Lab File: VX012397.D
 Acq: 13 Sep 2019 20:06

Tgt Ion: 117 Resp: 18192
 Ion Ratio Lower Upper
 117 100
 119 4.8 79.6 119.4#
 121 0.0 24.7 37.1#

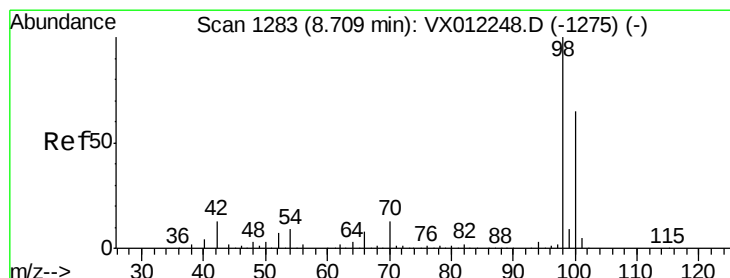
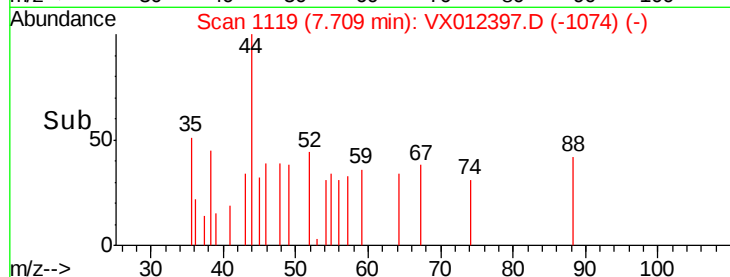
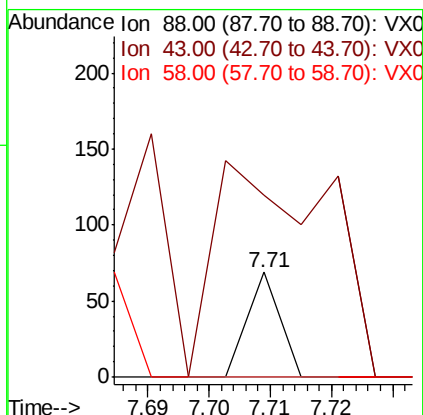
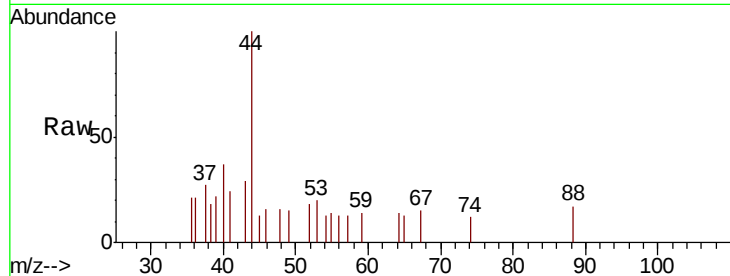




#49
1,4-Dioxane
Concen: 1.478 ug/l
RT: 7.71 min Scan# 1119
Delta R.T. -0.02 min
Lab File: VX012397.D
Acq: 13 Sep 2019 20:06

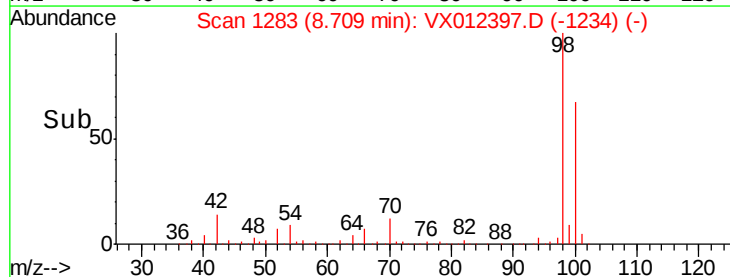
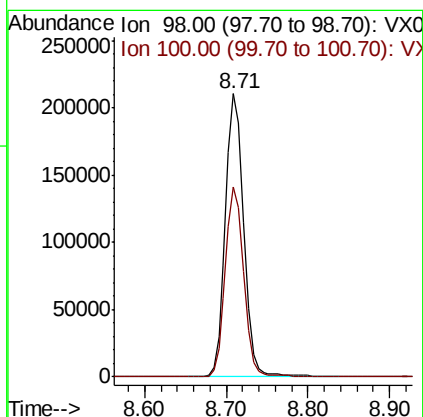
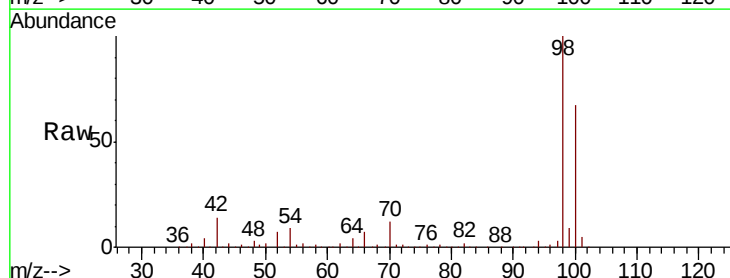
Instrument :
MSVOA_X
ClientSampleId :
FK-BPM-01-H02-H03-H02A-H03A

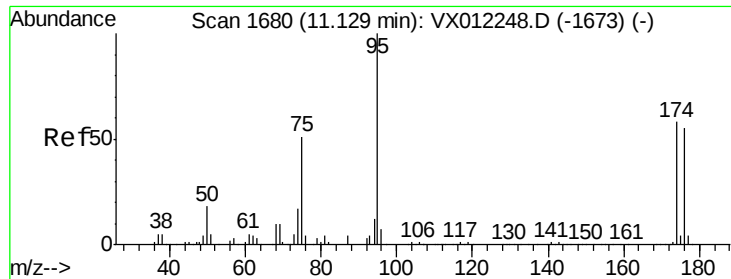
Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 724.0 31.0 46.4#
58 0.0 61.5 92.3#



#50
Toluene-d8
Concen: 52.959 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012397.D
Acq: 13 Sep 2019 20:06

Tgt Ion: 98 Resp: 328120
Ion Ratio Lower Upper
98 100
100 67.6 54.1 81.1





#62

4-Bromofluorobenzene

Concen: 45.173 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX012397.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

FK-BPM-01-H02-H03-H02A-H03A

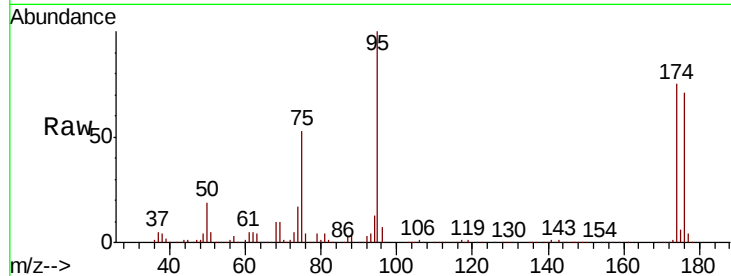
Tgt Ion: 95 Resp: 129754

Ion Ratio Lower Upper

95 100

174 71.0 0.0 127.0

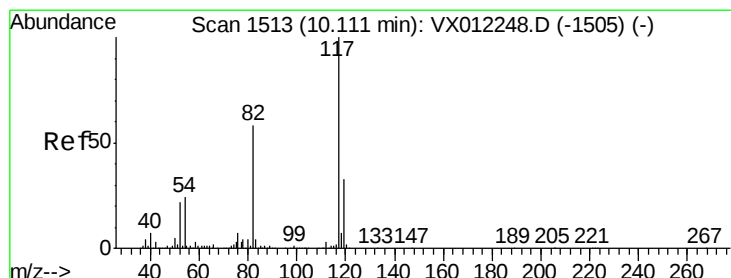
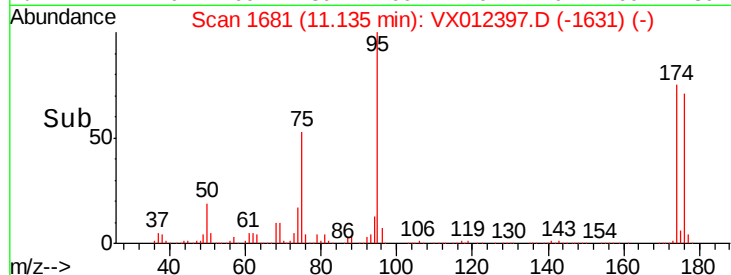
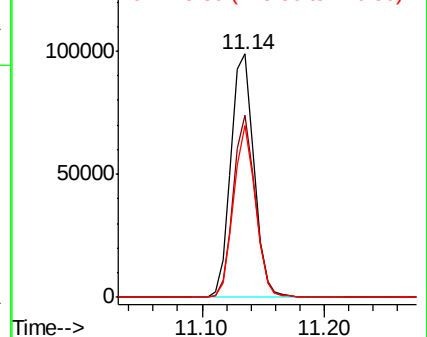
176 66.7 0.0 125.8



Abundance Ion 94.90 (94.60 to 95.60): VX012248.D (-1673) (-)

Ion 173.80 (173.50 to 174.50): VX012248.D (-1673) (-)

Ion 175.80 (175.50 to 176.50): VX012248.D (-1673) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012397.D

Acq: 13 Sep 2019 20:06

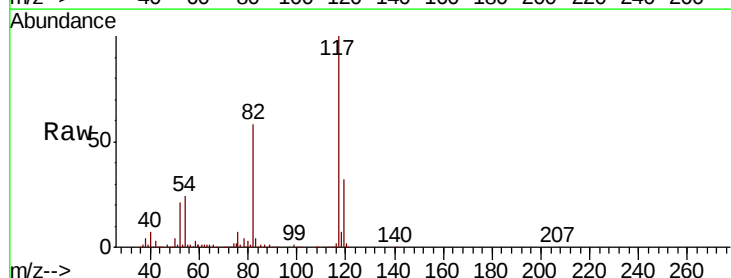
Tgt Ion: 117 Resp: 250858

Ion Ratio Lower Upper

117 100

82 57.5 46.4 69.6

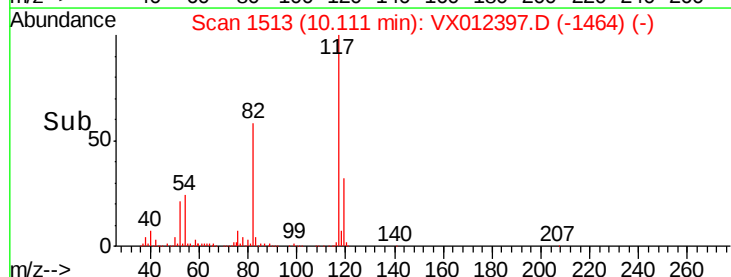
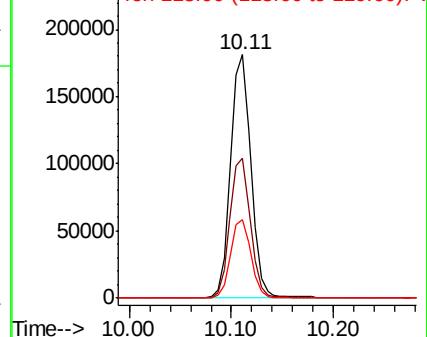
119 32.4 26.6 39.8

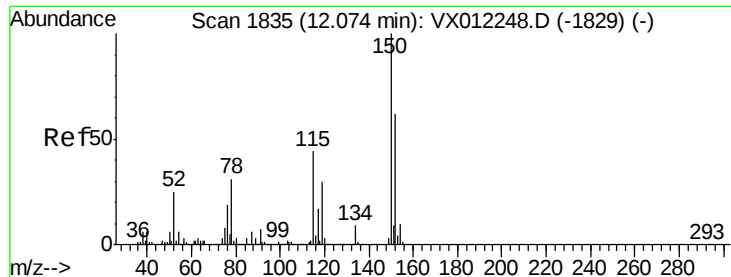


Abundance Ion 116.90 (116.60 to 117.60): VX012248.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012248.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012248.D (-1505) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012397.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

FK-BPM-01-H02-H03-H02A-H03A

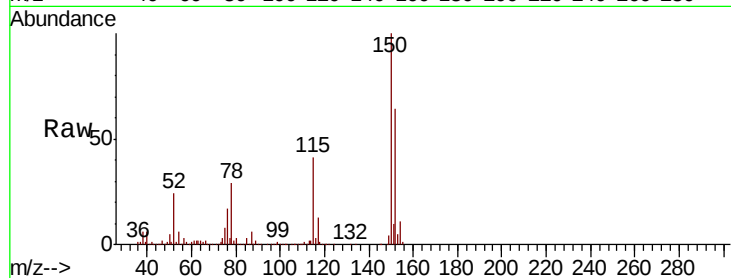
Tgt Ion:152 Resp: 116885

Ion Ratio Lower Upper

152 100

115 64.3 45.5 136.4

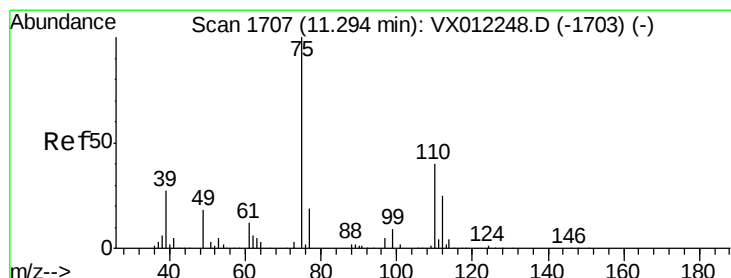
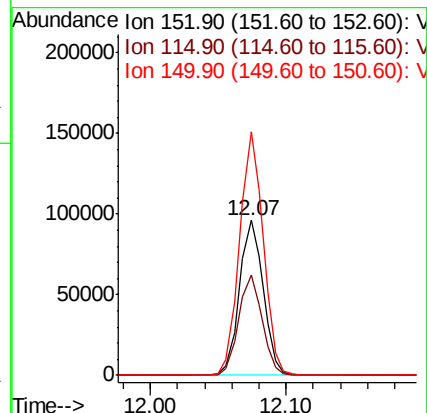
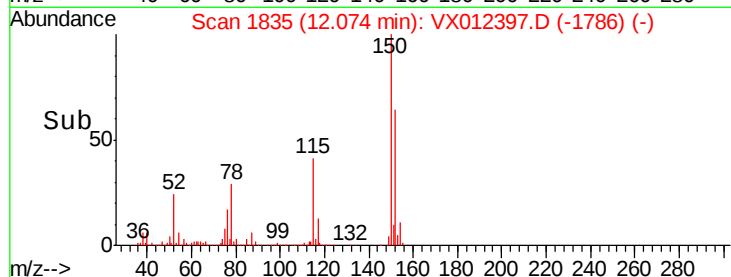
150 156.7 0.0 346.4



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: 45.477 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012397.D

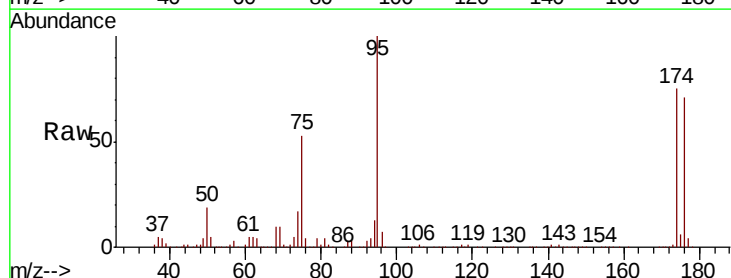
Acq: 13 Sep 2019 20:06

Tgt Ion: 75 Resp: 68287

Ion Ratio Lower Upper

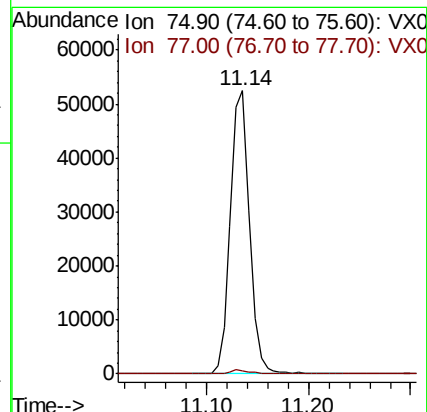
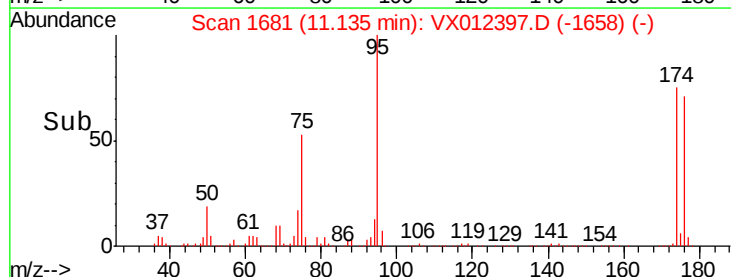
75 100

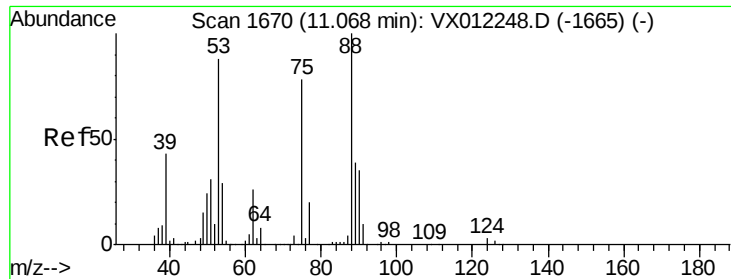
77 1.4 19.7 59.0#



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: 136.260 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012397.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

FK-BPM-01-H02-H03-H02A-H03A

Tgt Ion: 75 Resp: 68287

Ion Ratio Lower Upper

75 100

53 0.2 88.1 132.1#

89 0.0 43.5 65.3#

