

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090519\
 Data File : VX012097.D
 Acq On : 05 Sep 2019 13:28
 Operator : SY/SP
 Sample : K4538-03
 Misc : 4.25g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-3

Quant Time: Sep 06 05:41:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X090319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 03 15:26:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	123037	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	210193	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	183785	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	84870	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	82810	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
35) Dibromofluoromethane	5.48	113	62477	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	8.71	98	249967	52.70	ug/l	0.00
Spiked Amount			Recovery	=	105.40%	
62) 4-Bromofluorobenzene	11.14	95	99696	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	

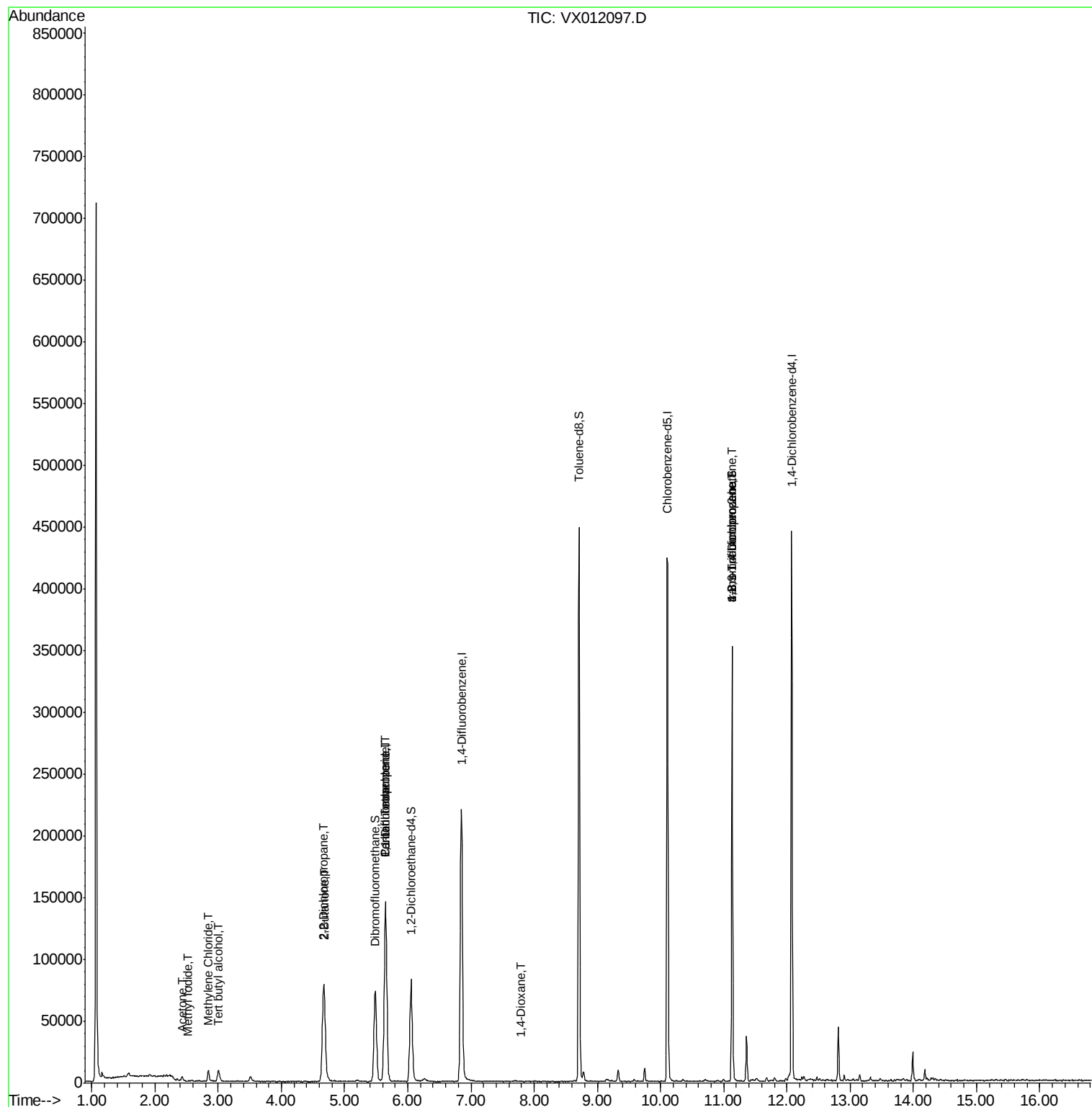
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	120	7.069	ug/l #	60
11) Tert butyl alcohol	3.01	59	5763	35.343	ug/l #	77
13) Acrolein	2.28	56	83	Below Cal	#	42
16) Acetone	2.43	43	3310	8.157	ug/l	93
20) Methylene Chloride	2.84	84	3884	2.384	ug/l	97
25) 2-Butanone	4.67	43	5006	9.692	ug/l #	76
26) 2,2-Dichloropropane	4.66	77	6258	2.616	ug/l #	53
36) 1,1-Dichloropropene	5.65	75	11125	6.009	ug/l #	50
38) Carbon Tetrachloride	5.64	117	14628	7.499	ug/l #	15
49) 1,4-Dioxane	7.78	88	22	1.568	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	52004	50.149	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	52004	118.561	ug/l #	10

(#) = 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: VX012097.D

Acq: 05 Sep 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

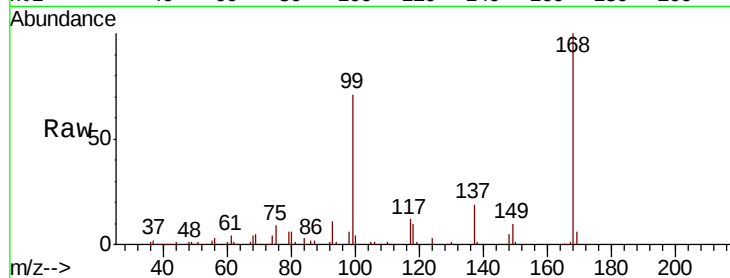
SB-3

Tgt Ion:168 Resp: 123037

Ion Ratio Lower Upper

168 100

99 70.7 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

40000

30000

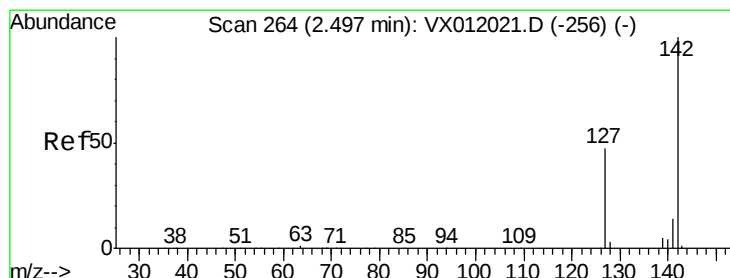
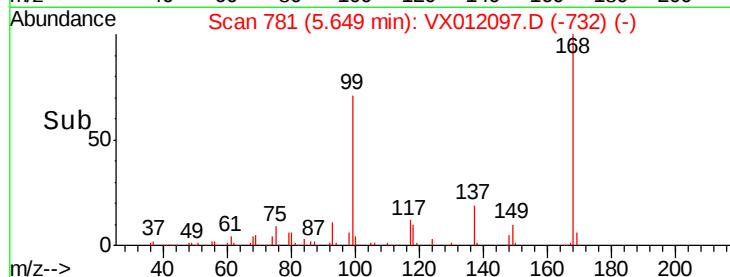
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 7.069 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

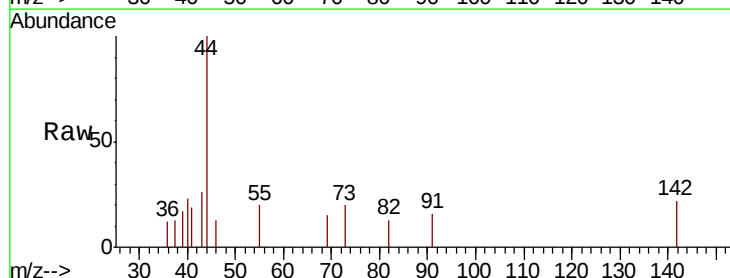
Tgt Ion:142 Resp: 120

Ion Ratio Lower Upper

142 100

127 17.5 35.4 53.2#

141 0.0 11.4 17.2#



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

120

100

80

60

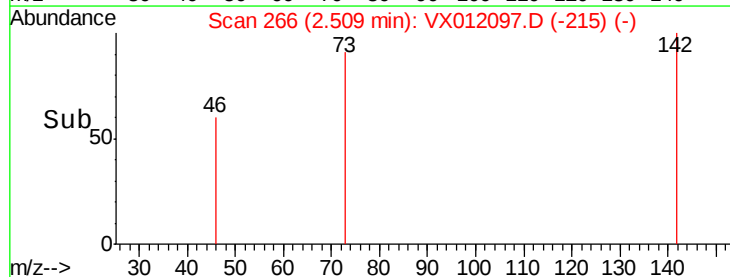
40

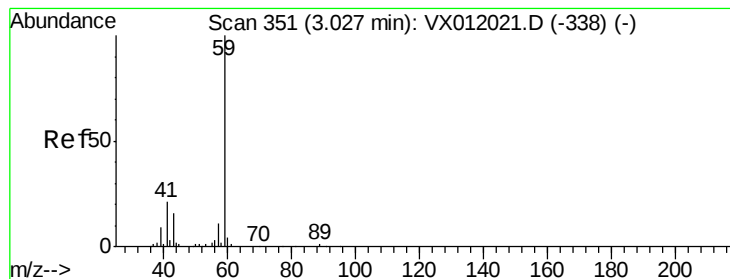
20

0

Time-->

2.48 2.50 2.52 2.54





#11

Tert butyl alcohol

Concen: 35.343 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

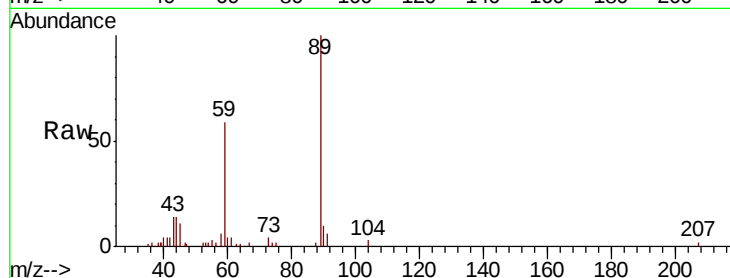
SB-3

Tgt Ion: 59 Resp: 5763

Ion Ratio Lower Upper

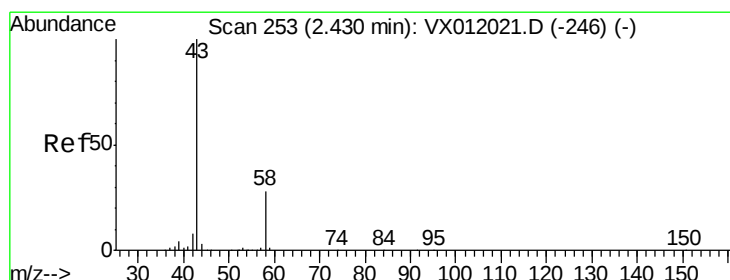
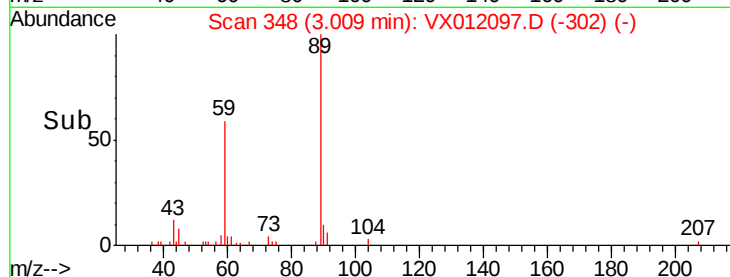
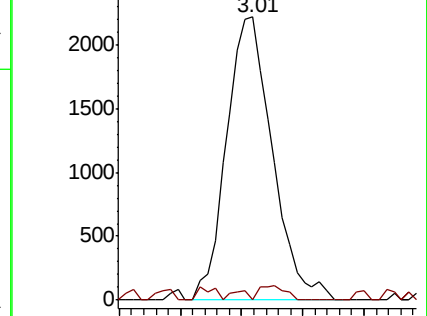
59 100

57 1.2 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#16

Acetone

Concen: 8.157 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012097.D

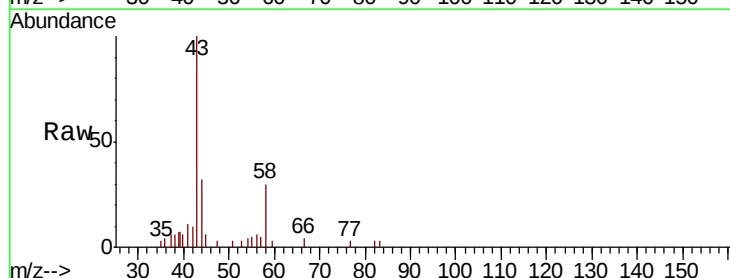
Acq: 05 Sep 2019 13:28

Tgt Ion: 43 Resp: 3310

Ion Ratio Lower Upper

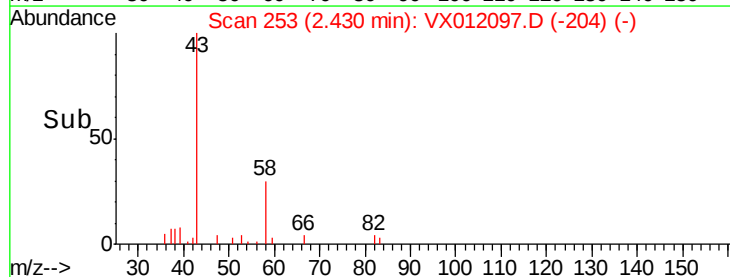
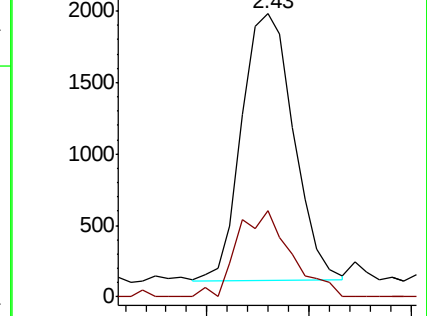
43 100

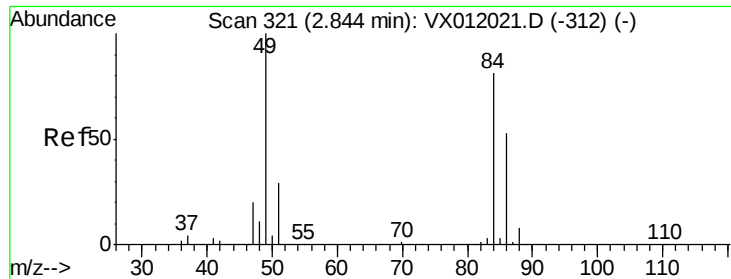
58 32.2 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

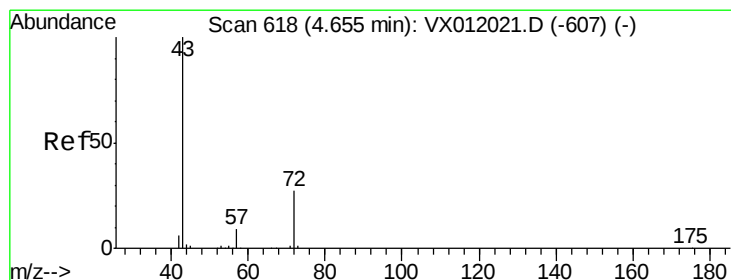
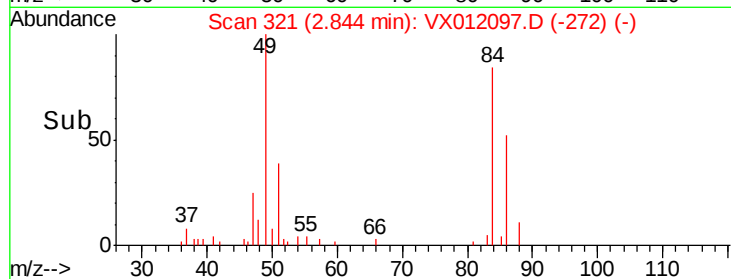
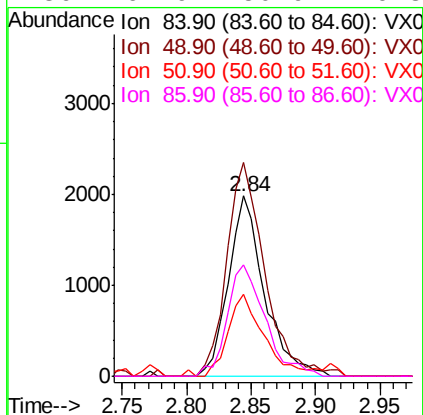
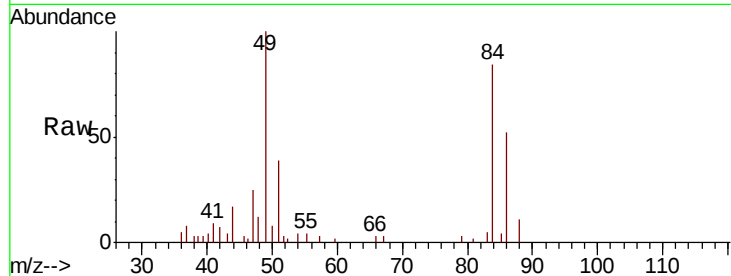




#20
Methylene Chloride
Concen: 2.384 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012097.D
Acq: 05 Sep 2019 13:28

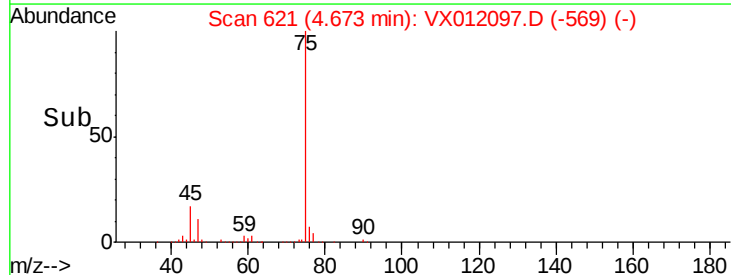
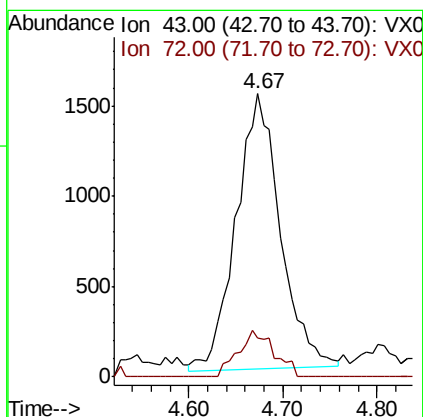
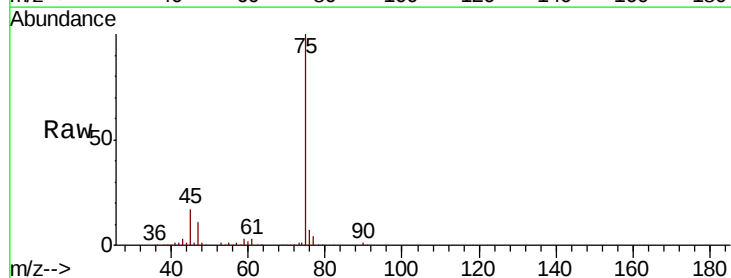
Instrument :
MSVOA_X
ClientSampled :
SB-3

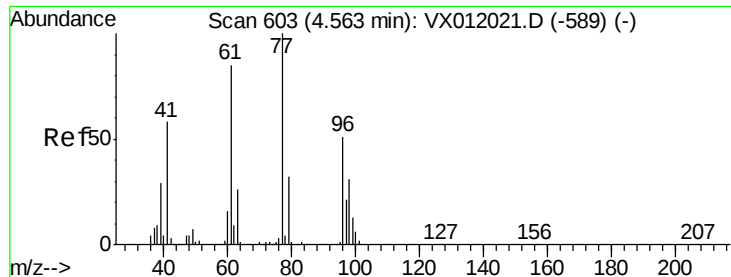
Tgt Ion:	84	Resp:	3884
Ion	Ratio	Lower	Upper
84	100		
49	118.6	95.8	143.8
51	42.3	28.6	43.0
86	61.9	50.9	76.3



#25
2-Butanone
Concen: 9.692 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX012097.D
Acq: 05 Sep 2019 13:28

Tgt Ion:	43	Resp:	5006
Ion	Ratio	Lower	Upper
43	100		
72	14.3	21.3	31.9#





#26

2,2-Dichloropropane

Concen: 2.616 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.09 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

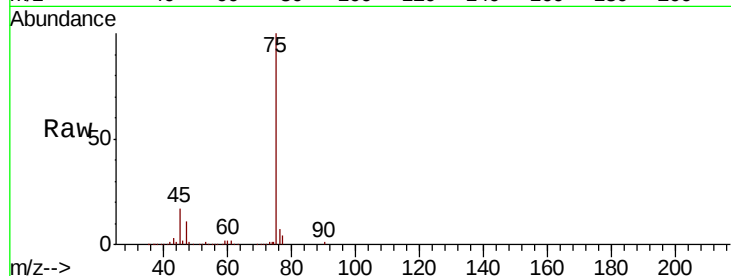
SB-3

Tgt Ion: 77 Resp: 6258

Ion Ratio Lower Upper

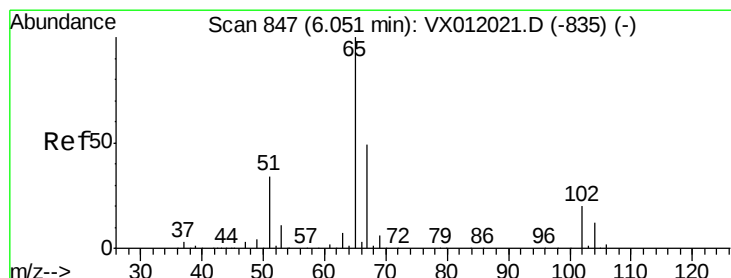
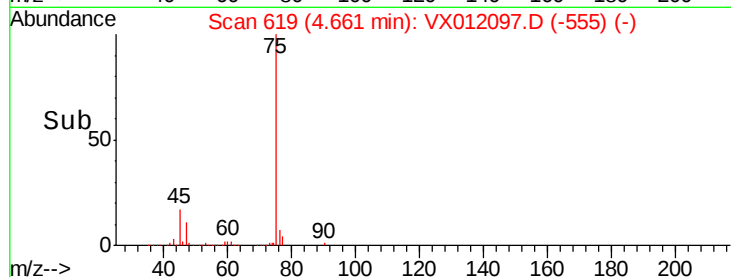
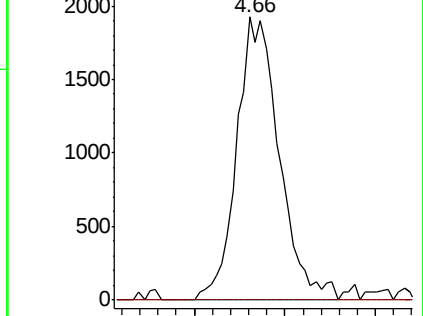
77 100

97 0.0 11.5 34.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.779 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012097.D

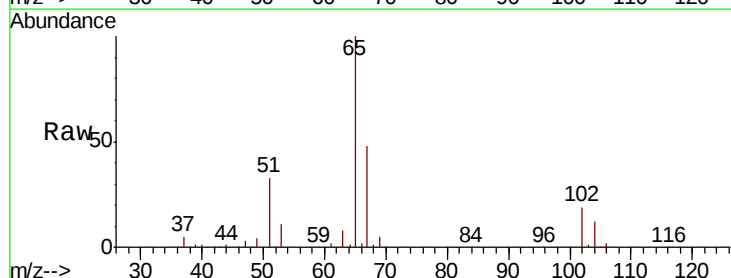
Acq: 05 Sep 2019 13:28

Tgt Ion: 65 Resp: 82810

Ion Ratio Lower Upper

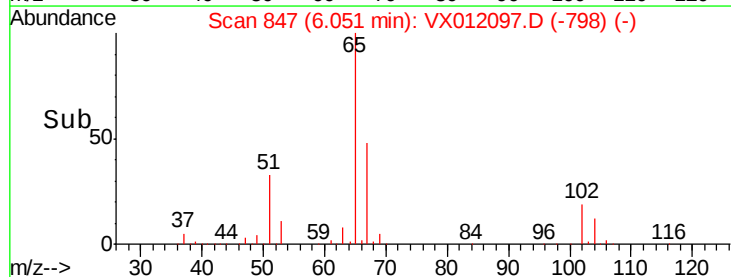
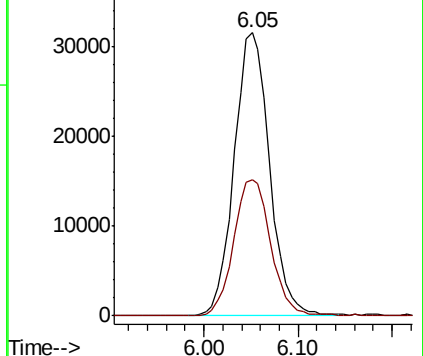
65 100

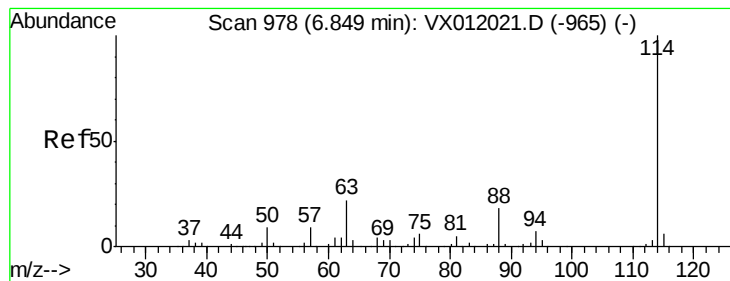
67 50.4 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

SB-3

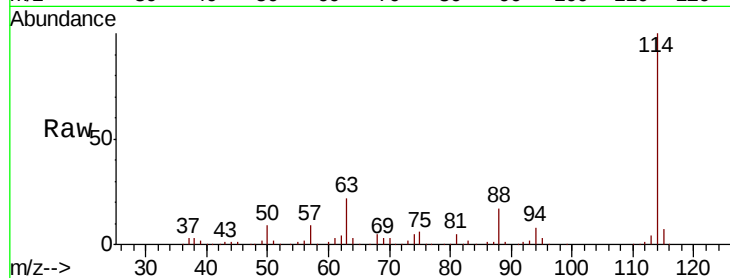
Tgt Ion:114 Resp: 210193

Ion Ratio Lower Upper

114 100

63 22.2 0.0 37.4

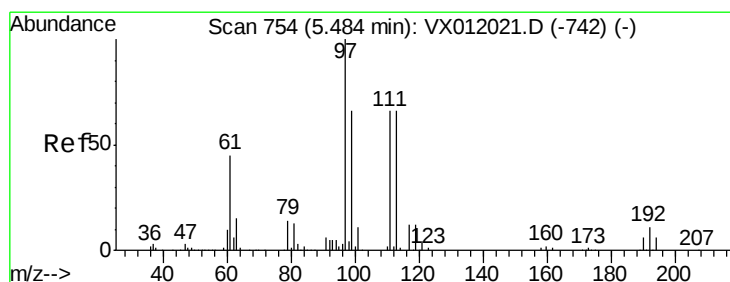
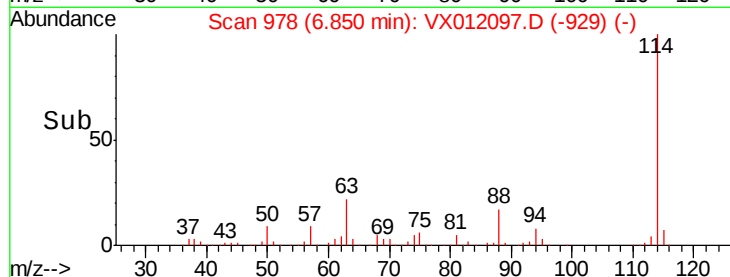
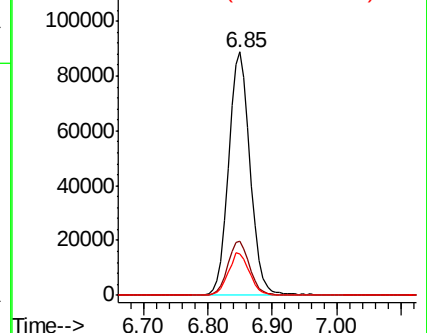
88 17.2 0.0 29.6



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: 48.333 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

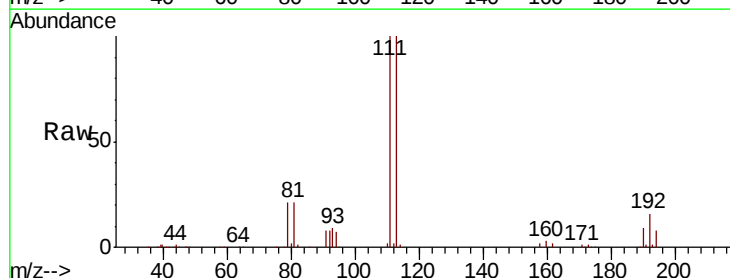
Tgt Ion:113 Resp: 62477

Ion Ratio Lower Upper

113 100

111 101.3 81.7 122.5

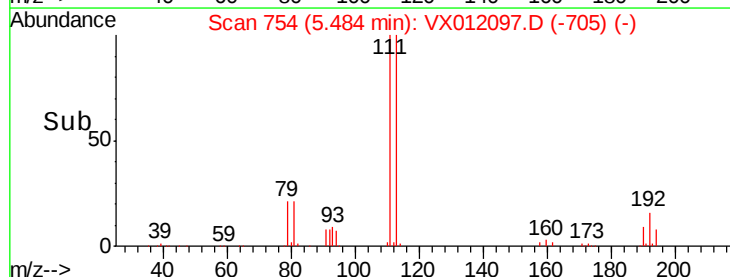
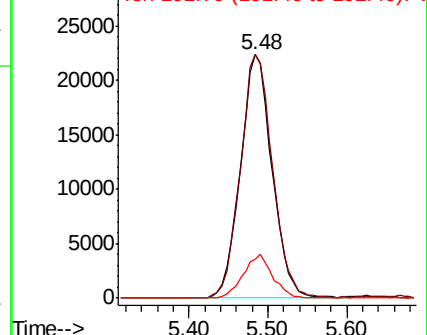
192 16.5 22.5 33.7#

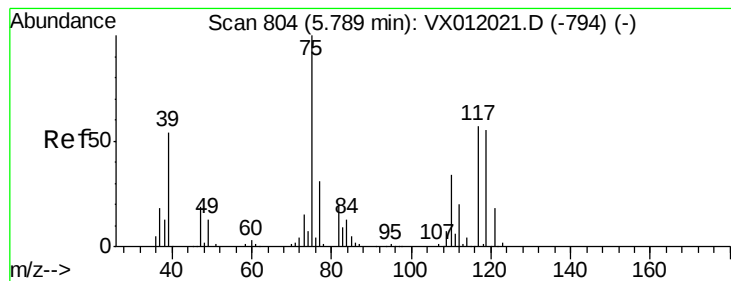


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.009 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

Instrument :

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ClientSampleId :

SB-3

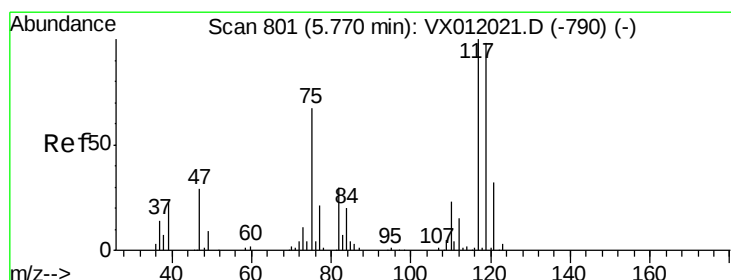
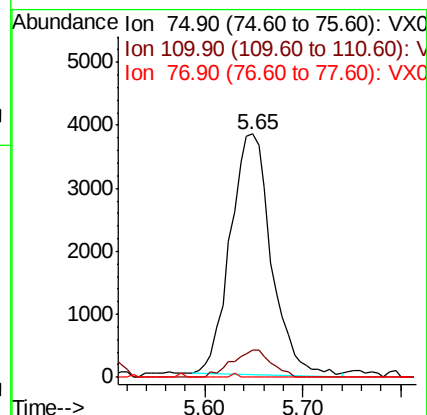
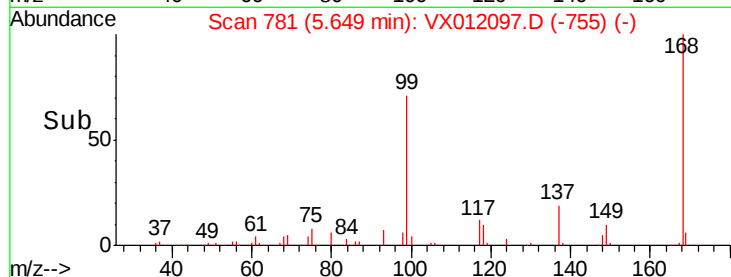
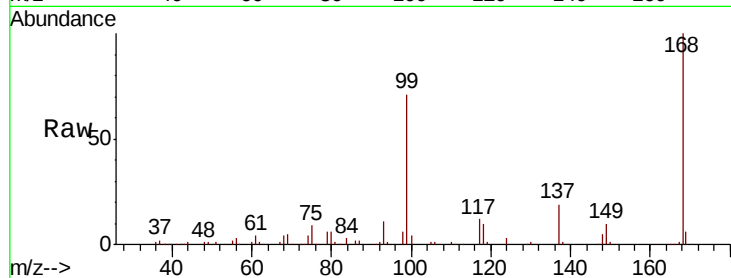
Tgt Ion: 75 Resp: 11125

Ion Ratio Lower Upper

75 100

110 10.8 19.5 58.5#

77 0.2 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 7.499 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

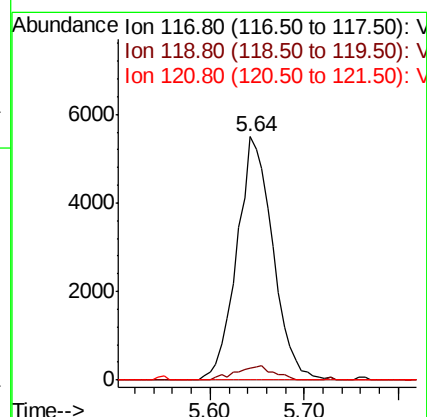
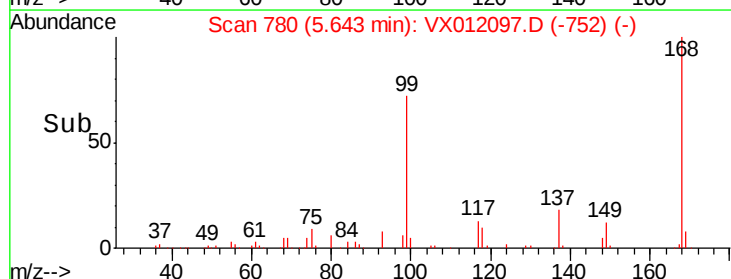
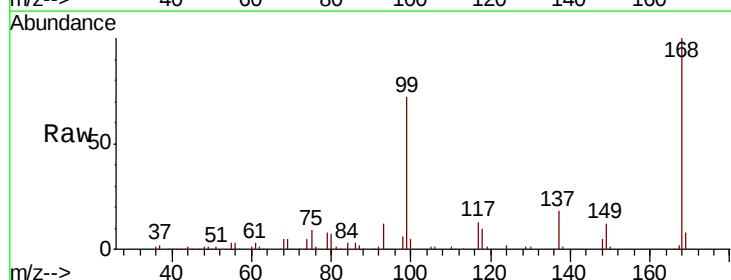
Tgt Ion: 117 Resp: 14628

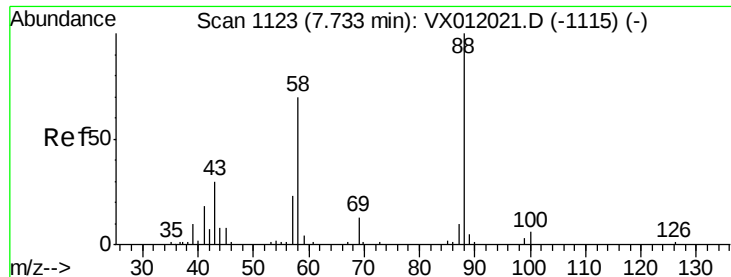
Ion Ratio Lower Upper

117 100

119 5.0 78.3 117.5#

121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 1.568 ug/l

RT: 7.78 min Scan# 1130

Delta R.T. 0.05 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

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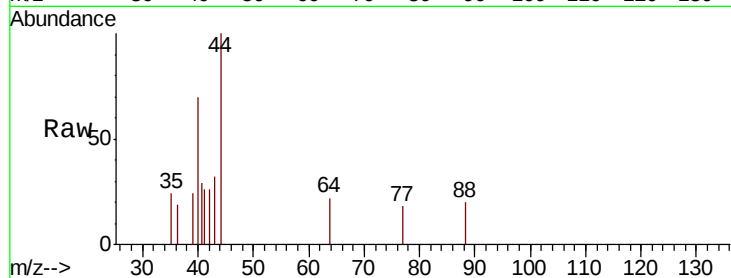
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 2045.5 29.8 44.6#

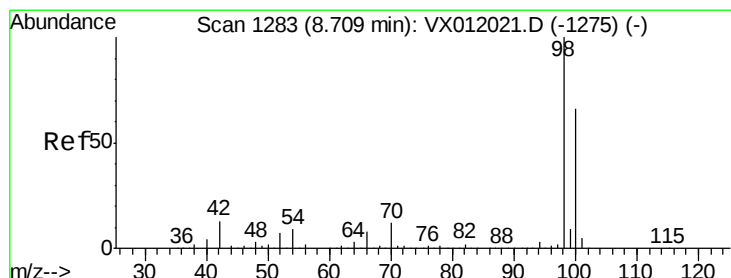
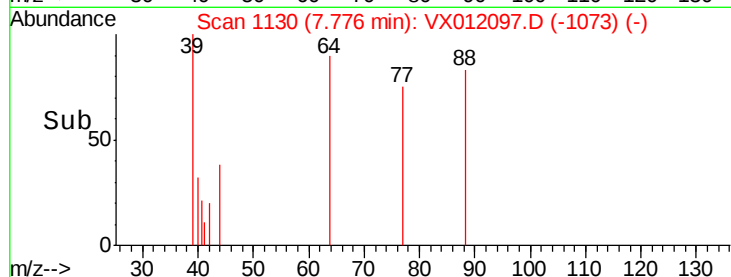
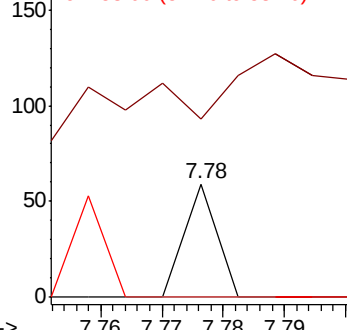
58 0.0 55.4 83.2#



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: 52.698 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012097.D

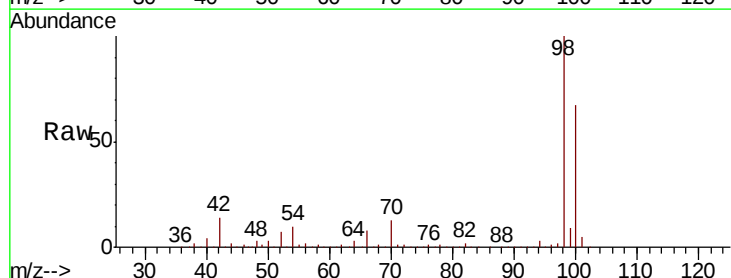
Acq: 05 Sep 2019 13:28

Tgt Ion: 98 Resp: 249967

Ion Ratio Lower Upper

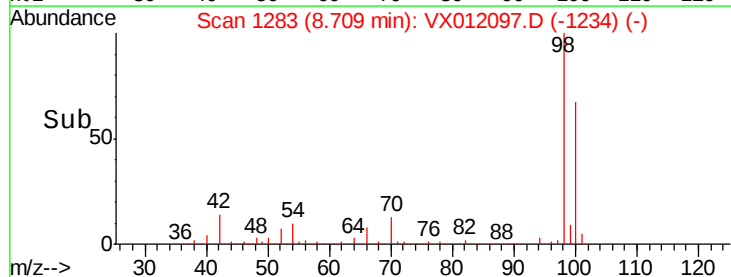
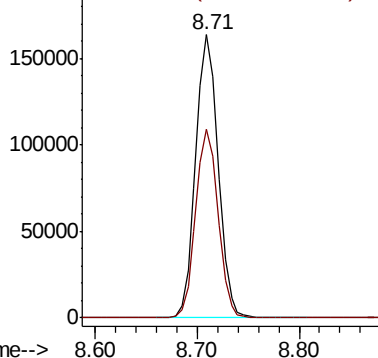
98 100

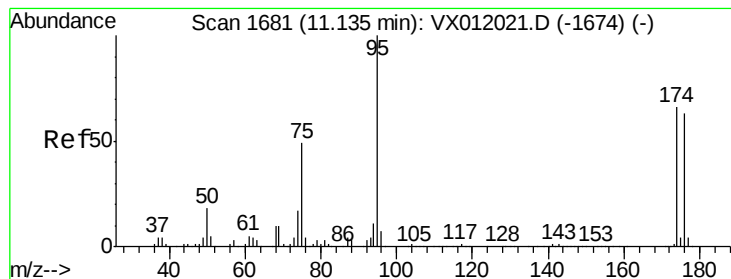
100 66.7 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.194 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

SB-3

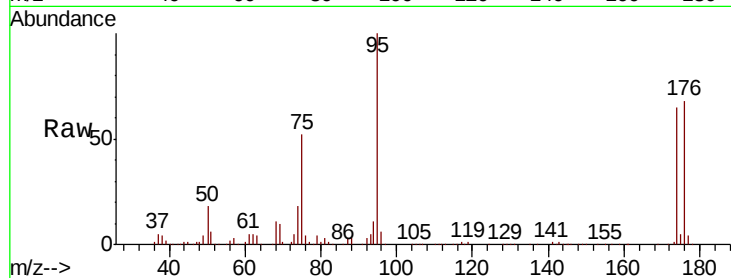
Tgt Ion: 95 Resp: 99696

Ion Ratio Lower Upper

95 100

174 62.9 0.0 205.4

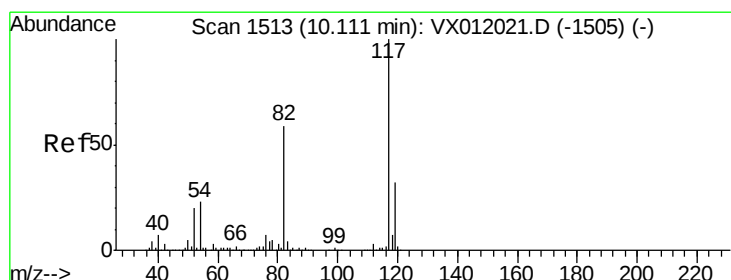
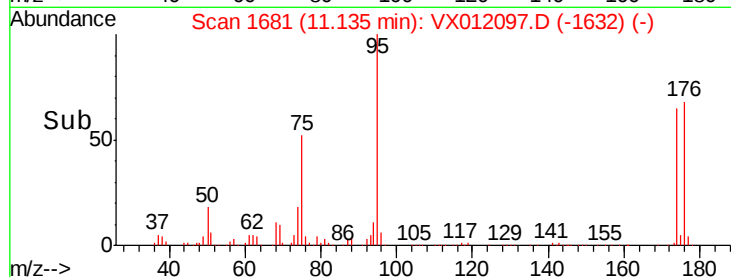
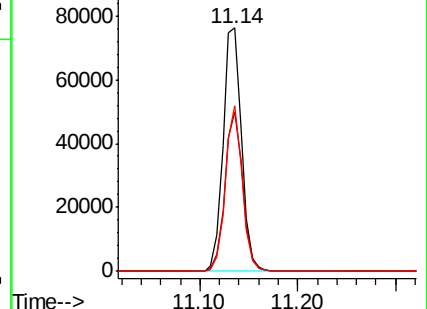
176 61.7 0.0 201.8



Abundance Ion 94.90 (94.60 to 95.60): VX012021.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX012021.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX012021.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

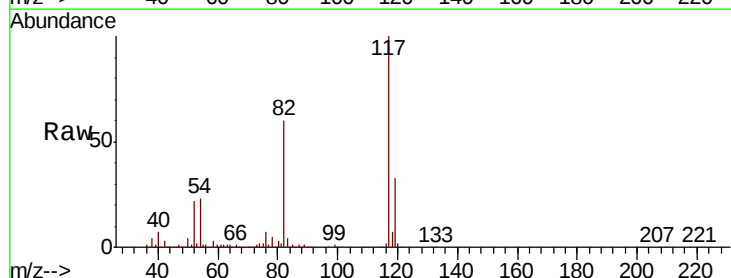
Tgt Ion: 117 Resp: 183785

Ion Ratio Lower Upper

117 100

82 60.1 39.4 59.0#

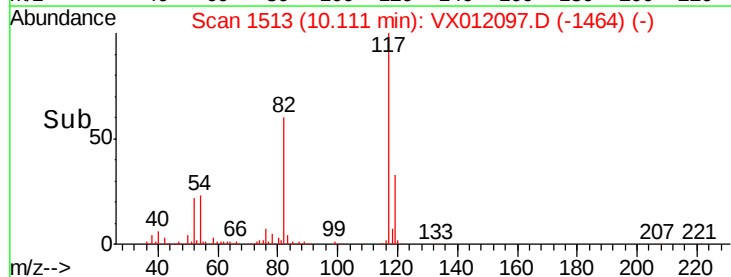
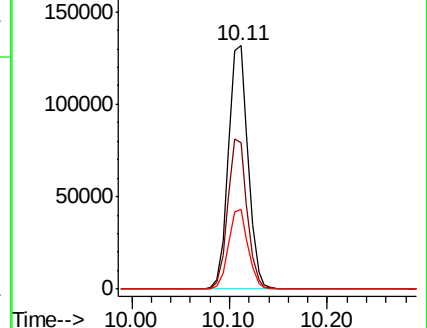
119 32.7 26.1 39.1

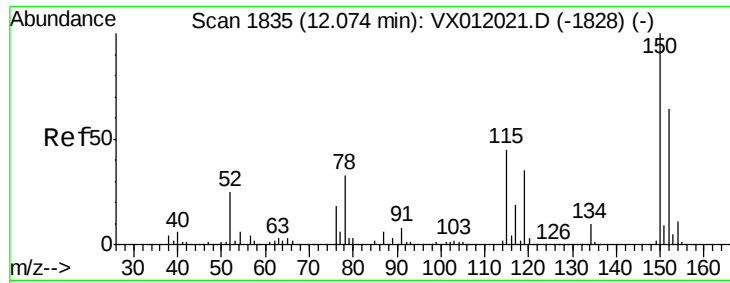


Abundance Ion 116.90 (116.60 to 117.60): VX012021.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012021.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012021.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: VX012097.D

Acq: 05 Sep 2019 13:28

Instrument :

MSVOA_X

ClientSampled :

SB-3

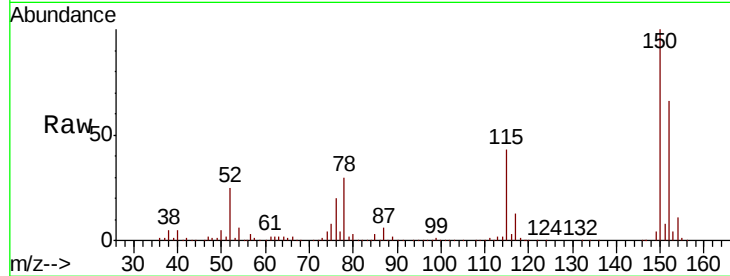
Tgt Ion:152 Resp: 84870

Ion Ratio Lower Upper

152 100

115 65.3 36.4 109.3

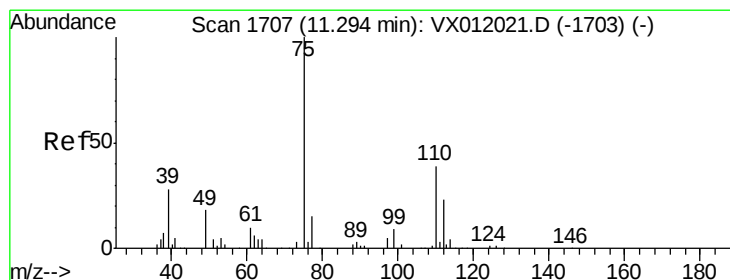
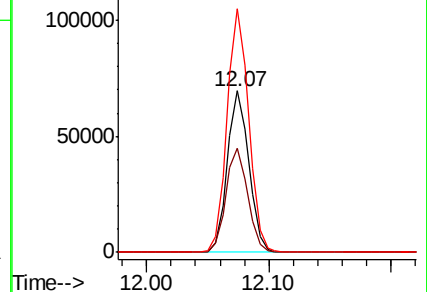
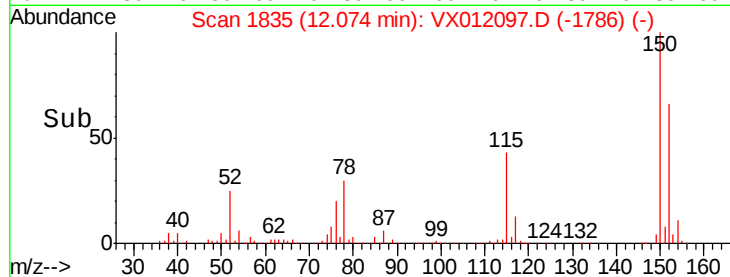
150 152.0 0.0 341.2



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: 50.149 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012097.D

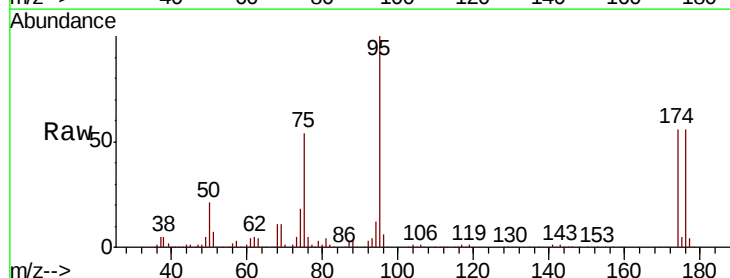
Acq: 05 Sep 2019 13:28

Tgt Ion: 75 Resp: 52004

Ion Ratio Lower Upper

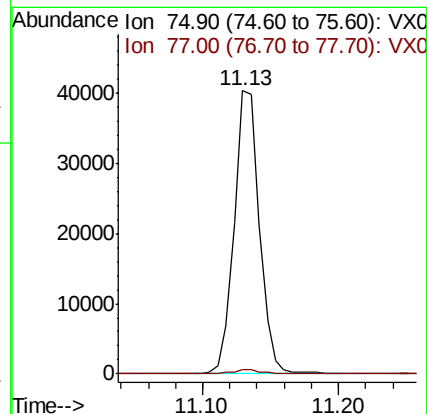
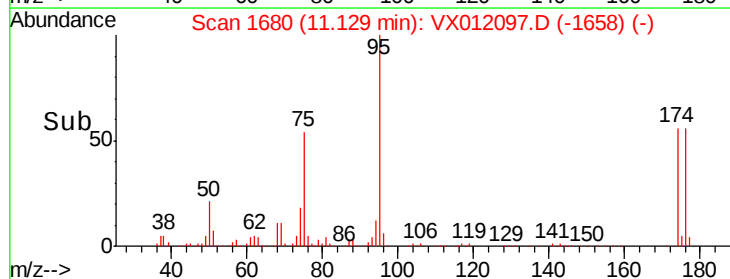
75 100

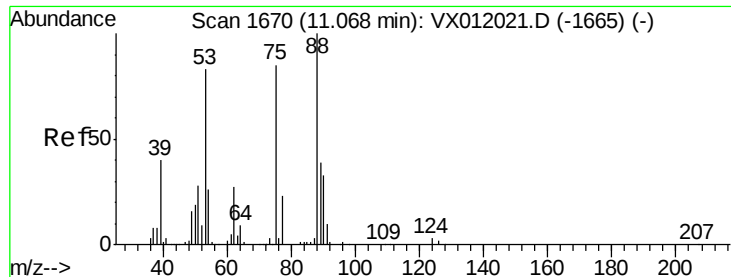
77 1.5 23.5 70.5#



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: 118.561 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012097.D

Acq: 05 Sep 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

SB-3

Tgt Ion: 75 Resp: 52004

Ion Ratio Lower Upper

75 100

53 0.2 78.6 117.8#

89 0.0 38.8 58.2#

