

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090519\
 Data File : VX012101.D
 Acq On : 05 Sep 2019 15:19
 Operator : SY/SP
 Sample : K4538-07
 Misc : 5.29g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-7

Quant Time: Sep 06 05:42:15 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	138618	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	237294	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	199953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	79633	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	92635	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
35) Dibromofluoromethane	5.48	113	72081	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
50) Toluene-d8	8.71	98	281105	52.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.98%	
62) 4-Bromofluorobenzene	11.14	95	103952	41.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.48%	

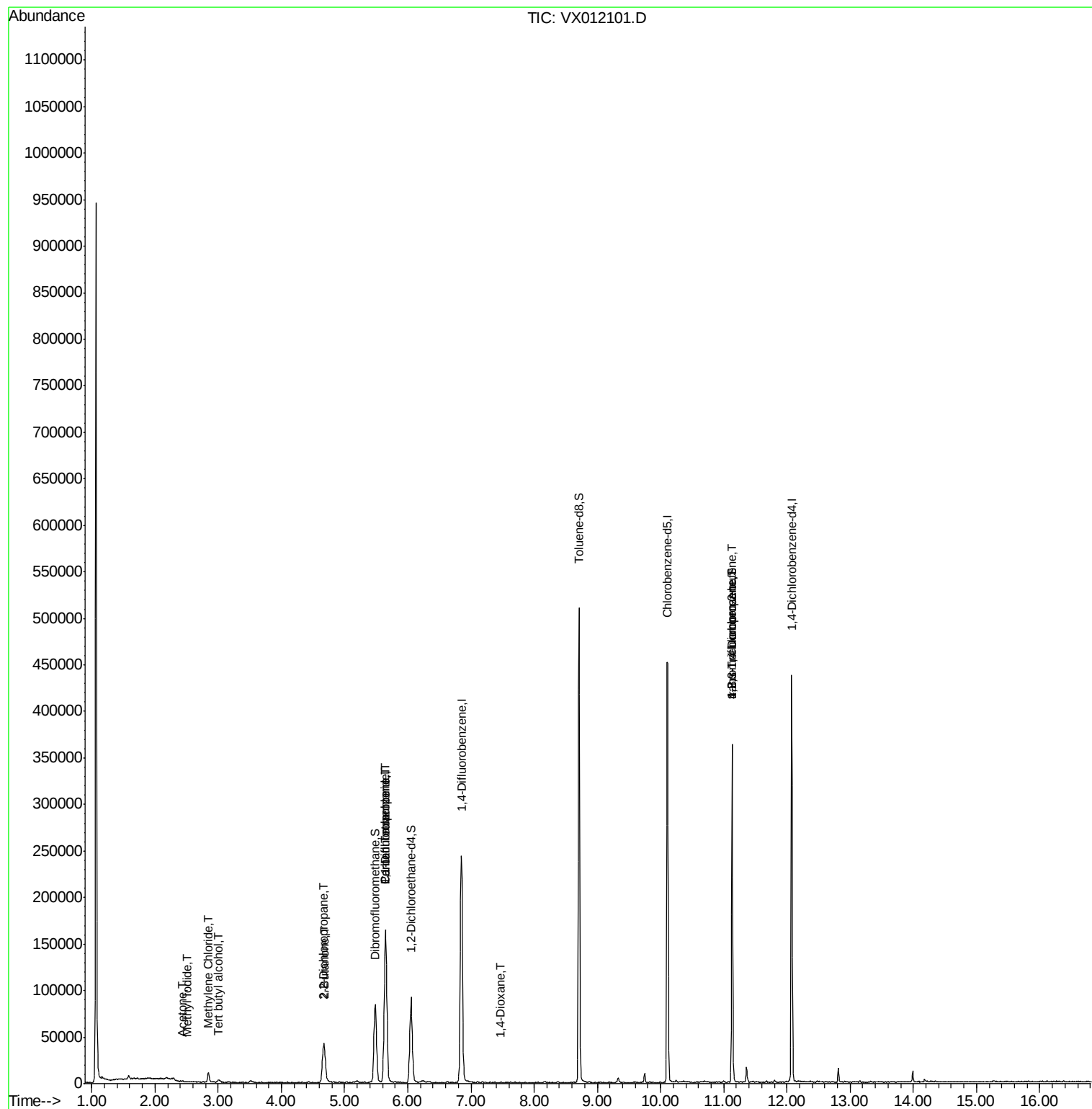
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	21	7.001	ug/l #	1
11) Tert butyl alcohol	3.01	59	1936	10.538	ug/l #	79
13) Acrolein	2.29	56	366	Below Cal	#	12
16) Acetone	2.44	43	1187	2.596	ug/l	97
20) Methylene Chloride	2.84	84	4859	2.647	ug/l	94
25) 2-Butanone	4.67	43	3379	5.806	ug/l #	65
26) 2,2-Dichloropropane	4.66	77	3581	1.328	ug/l #	53
36) 1,1-Dichloropropene	5.64	75	12998	6.219	ug/l #	48
38) Carbon Tetrachloride	5.64	117	16229	7.369	ug/l #	16
49) 1,4-Dioxane	7.45	88	20	1.263	ug/l #	23
76) 1,2,3-Trichloropropane	11.14	75	52928	54.397	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.14	75	52928	128.603	ug/l #	10

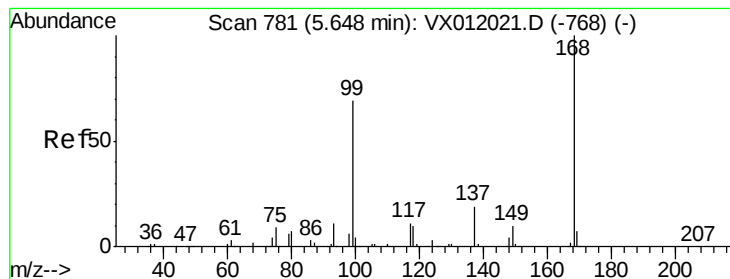
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX090519\
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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: VX012101.D

Acq: 05 Sep 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

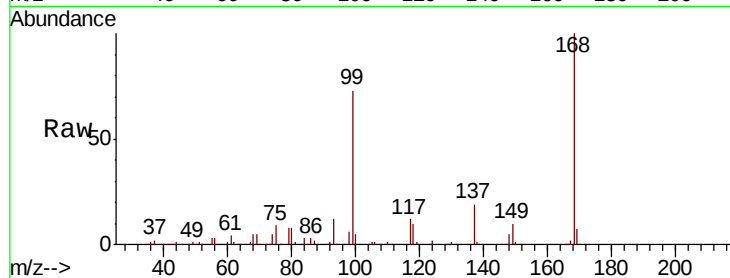
SB-7

Tgt Ion:168 Resp: 138618

Ion Ratio Lower Upper

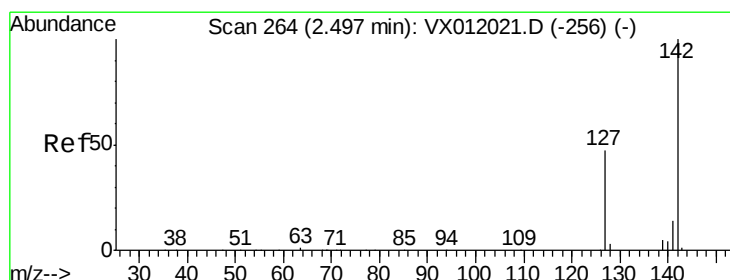
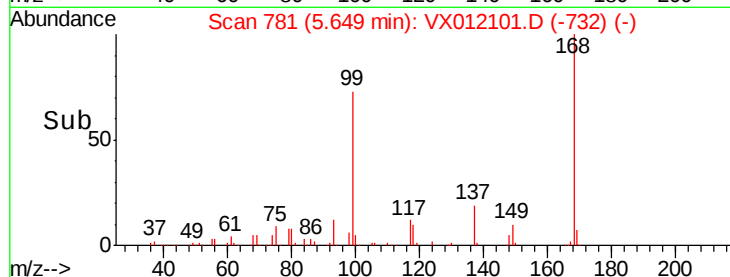
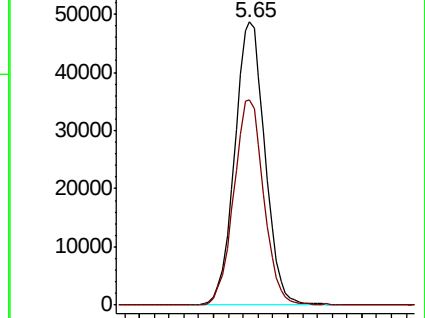
168 100

99 72.5 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#10

Methyl Iodide

Concen: 7.001 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012101.D

Acq: 05 Sep 2019 15:19

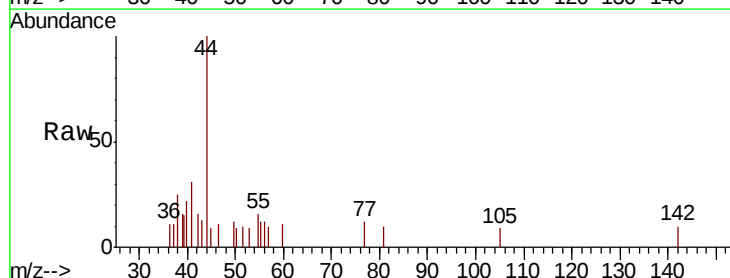
Tgt Ion:142 Resp: 21

Ion Ratio Lower Upper

142 100

127 247.6 35.4 53.2#

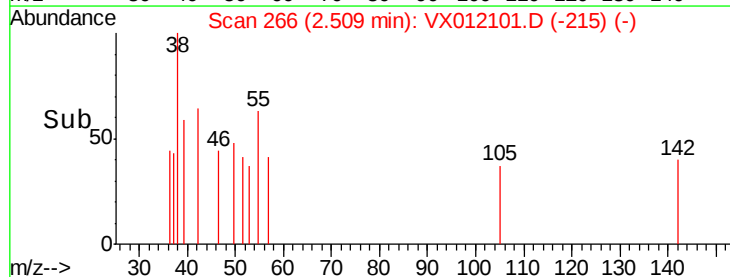
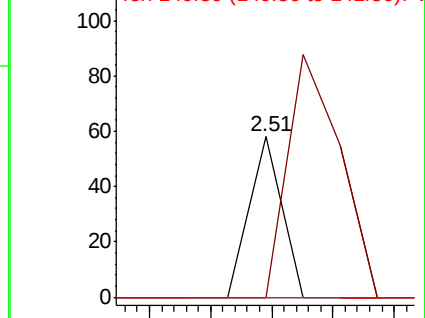
141 0.0 11.4 17.2#

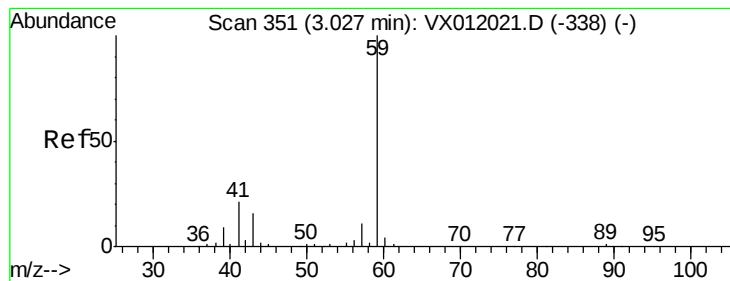


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 10.538 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.01 min

Lab File: VX012101.D

Acq: 05 Sep 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

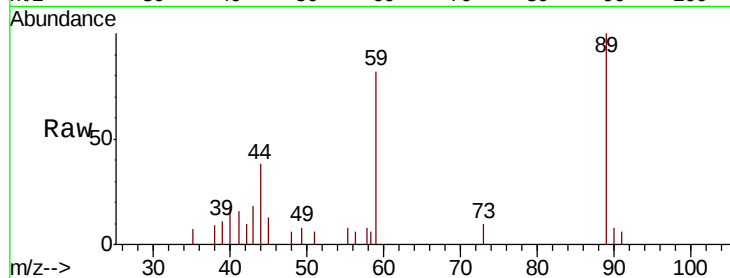
SB-7

Tgt Ion: 59 Resp: 1936

Ion Ratio Lower Upper

59 100

57 2.2 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

800

600

400

200

0

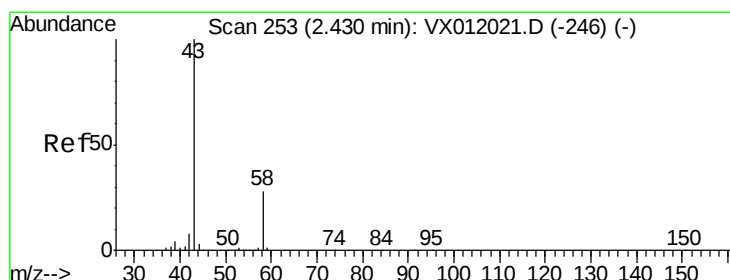
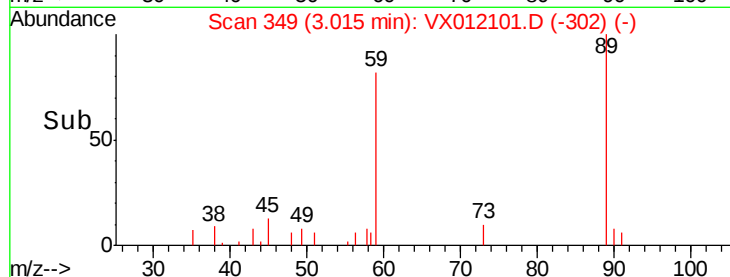
2.95

3.00

3.05

3.10

Time-->



#16

Acetone

Concen: 2.596 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX012101.D

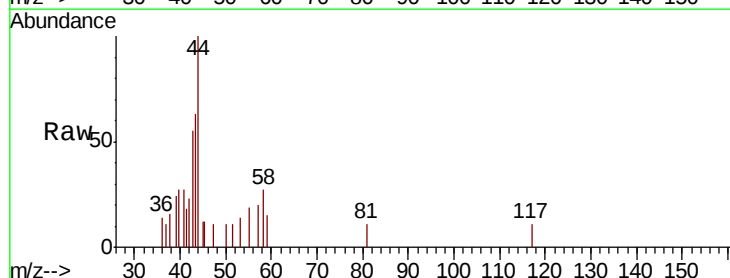
Acq: 05 Sep 2019 15:19

Tgt Ion: 43 Resp: 1187

Ion Ratio Lower Upper

43 100

58 26.8 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

600

400

200

0

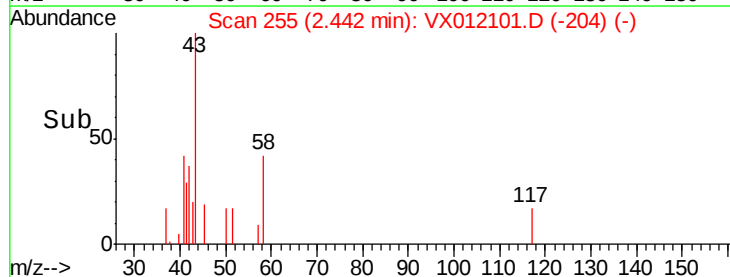
2.35

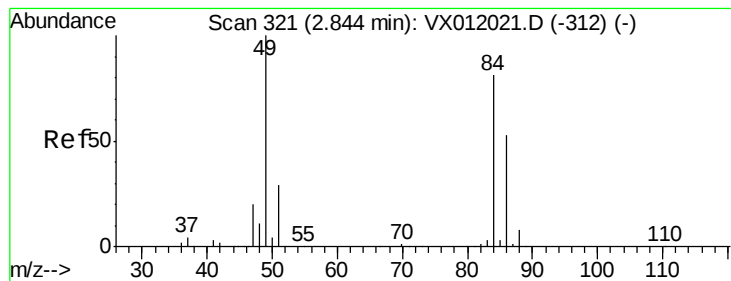
2.40

2.45

2.50

Time-->





#20

Methylene Chloride

Concen: 2.647 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX012101.D

Acq: 05 Sep 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SB-7

Tgt Ion: 84 Resp: 4859

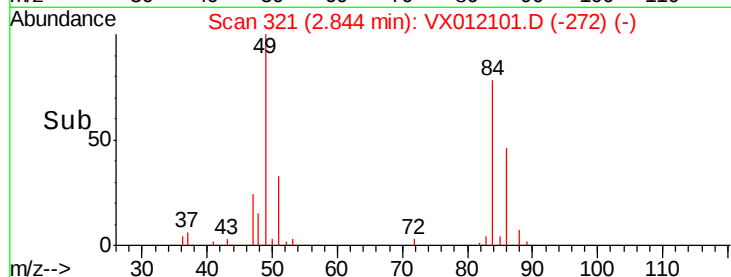
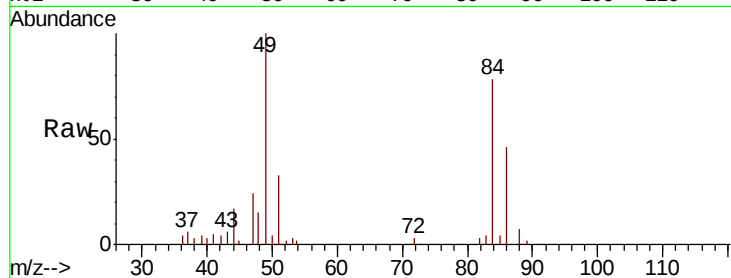
Ion Ratio Lower Upper

84 100

49 125.6 95.8 143.8

51 40.7 28.6 43.0

86 59.3 50.9 76.3

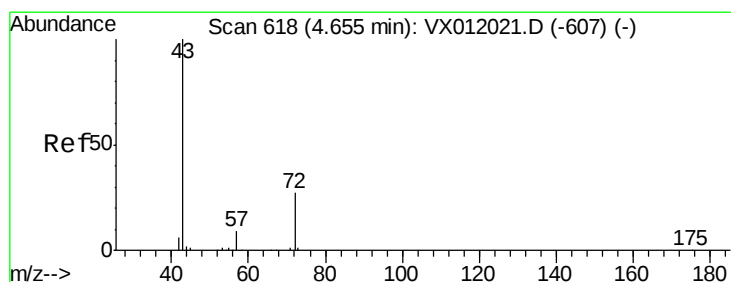
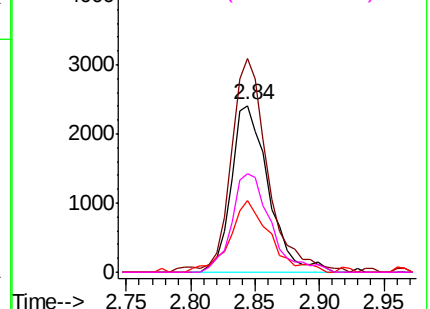


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 5.806 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX012101.D

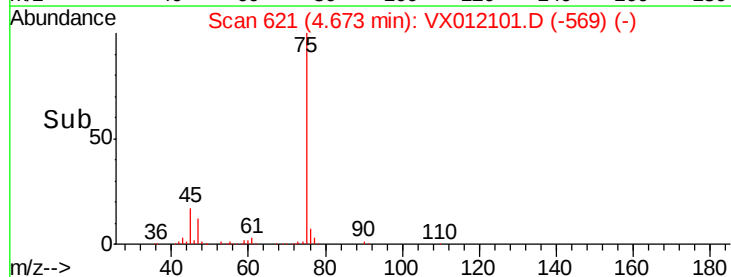
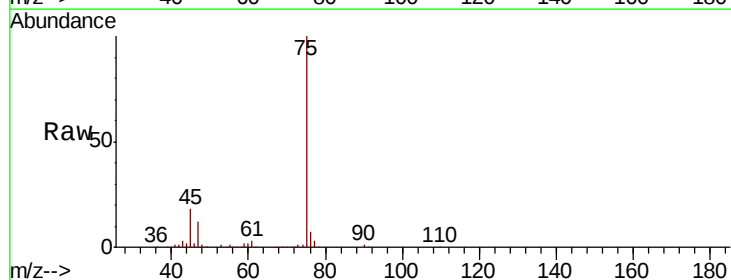
Acq: 05 Sep 2019 15:19

Tgt Ion: 43 Resp: 3379

Ion Ratio Lower Upper

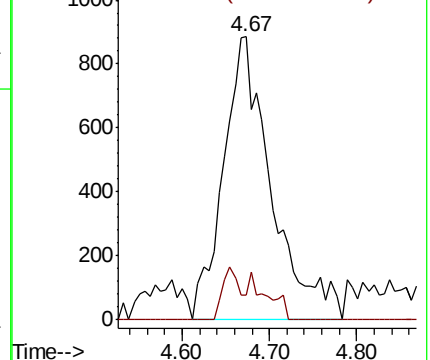
43 100

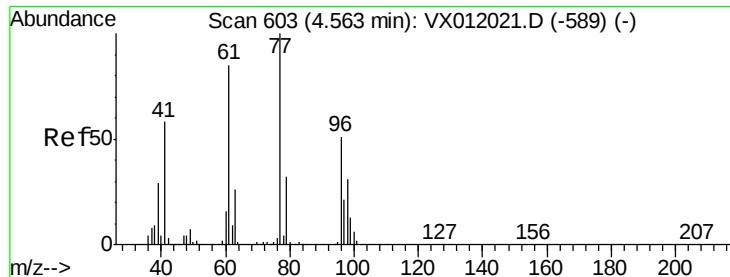
72 8.7 21.3 31.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 1.328 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.09 min

Lab File: VX012101.D

Acq: 05 Sep 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

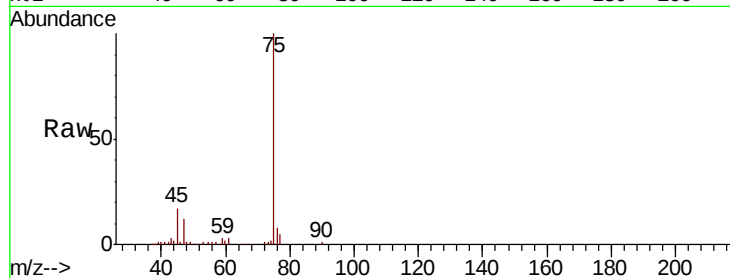
SB-7

Tgt Ion: 77 Resp: 3581

Ion Ratio Lower Upper

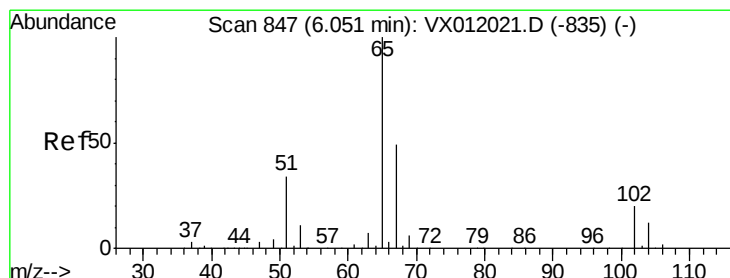
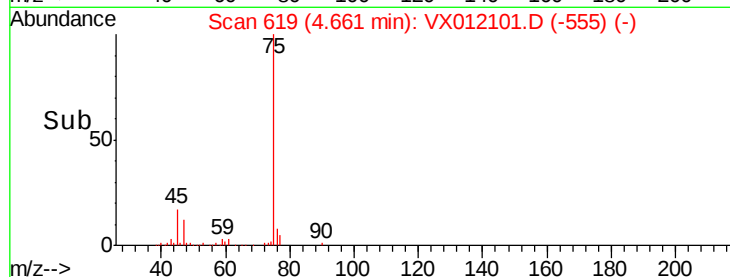
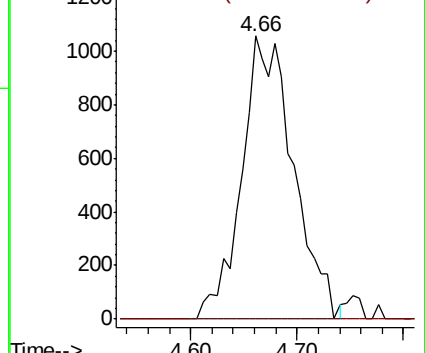
77 100

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: 48.433 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012101.D

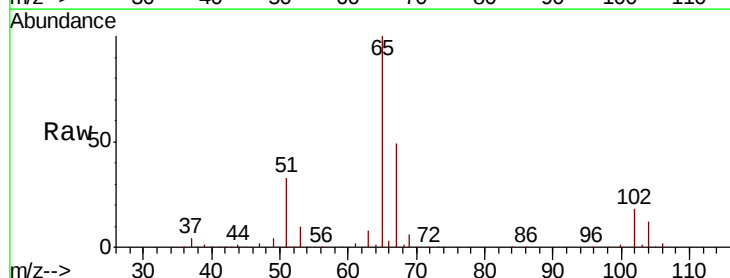
Acq: 05 Sep 2019 15:19

Tgt Ion: 65 Resp: 92635

Ion Ratio Lower Upper

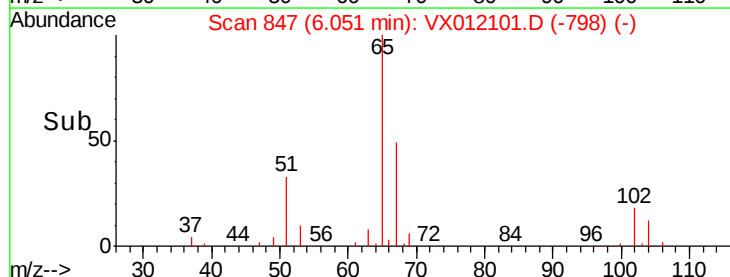
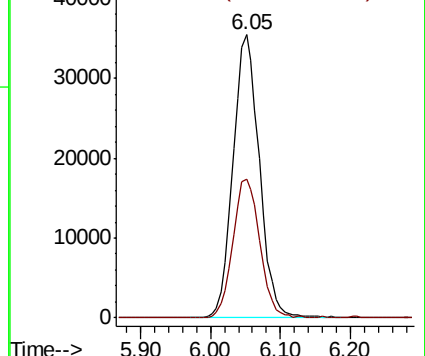
65 100

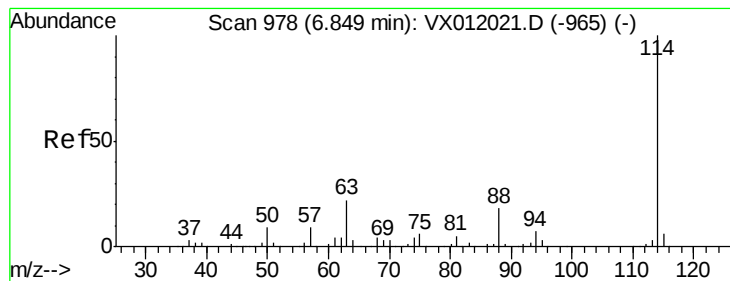
67 50.4 0.0 102.0



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: VX012101.D

Acq: 05 Sep 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SB-7

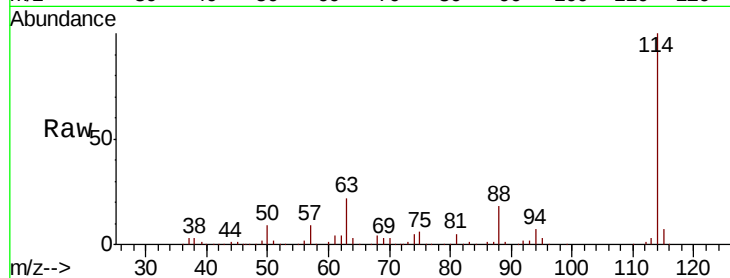
Tgt Ion:114 Resp: 237294

Ion Ratio Lower Upper

114 100

63 21.8 0.0 37.4

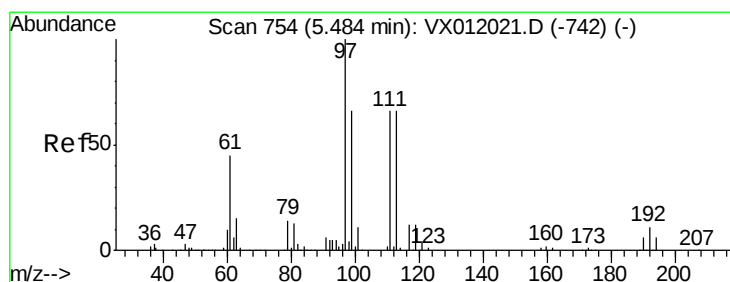
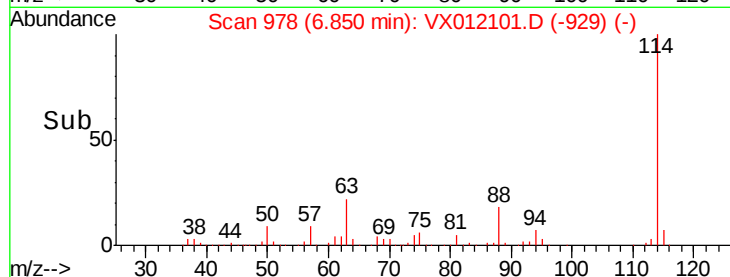
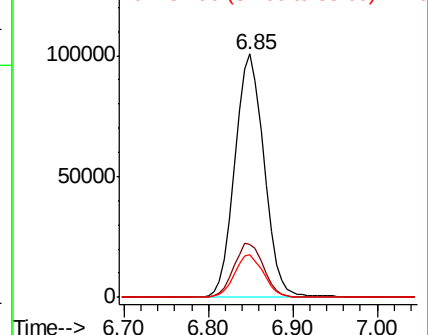
88 17.7 0.0 29.6



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: 49.395 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX012101.D

Acq: 05 Sep 2019 15:19

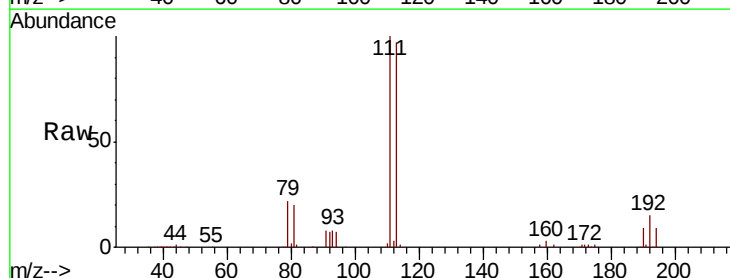
Tgt Ion:113 Resp: 72081

Ion Ratio Lower Upper

113 100

111 102.5 81.7 122.5

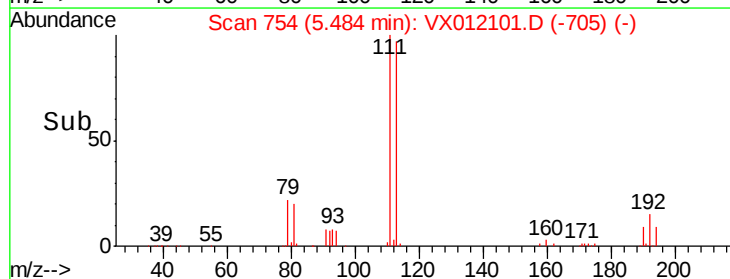
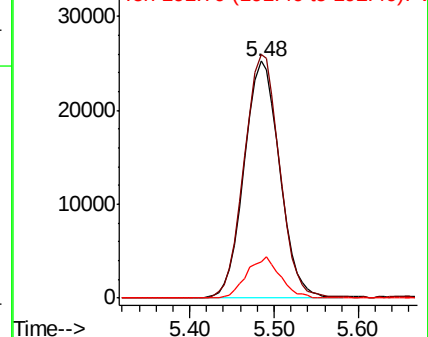
192 16.7 22.5 33.7#

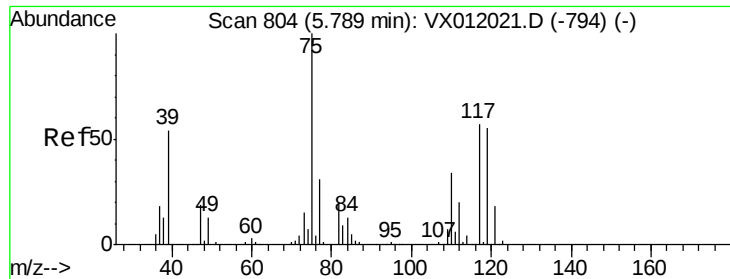


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

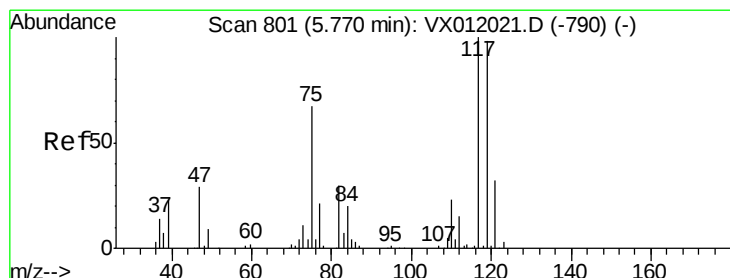
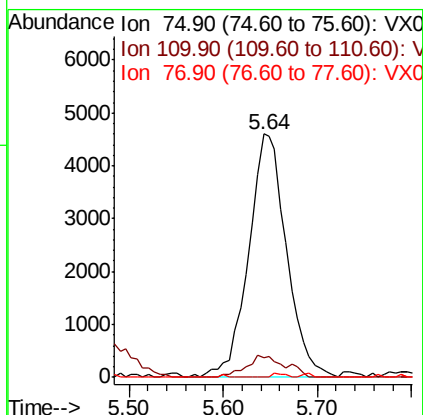
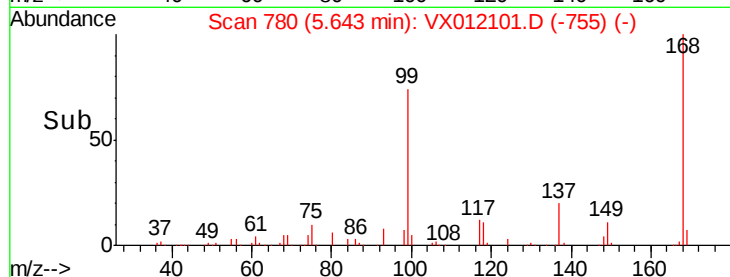
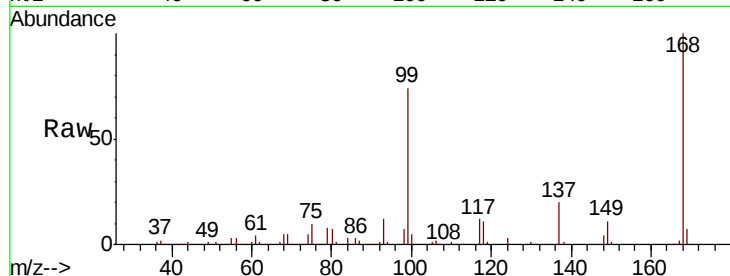




#36
 1,1-Dichloropropene
 Concen: 6.219 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX012101.D
 Acq: 05 Sep 2019 15:19

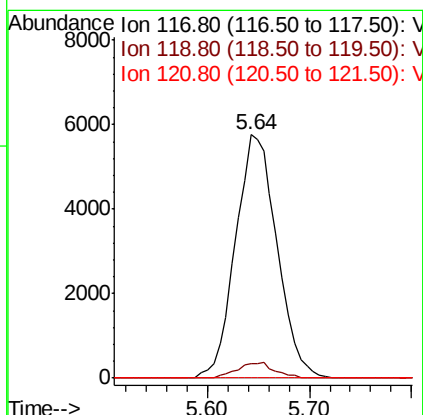
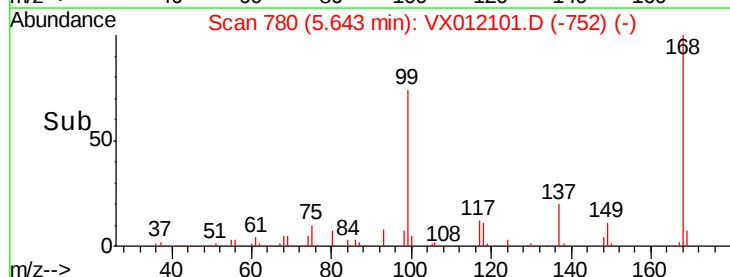
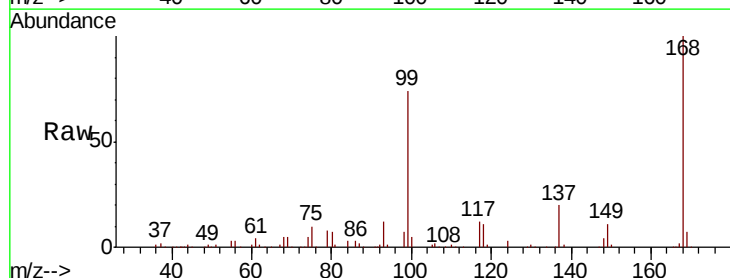
Instrument :
 MSVOA_X
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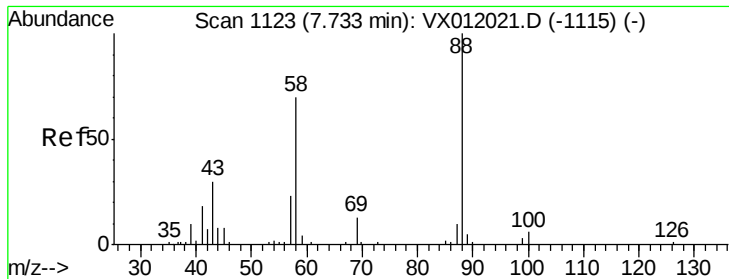
Tgt Ion: 75 Resp: 12998
 Ion Ratio Lower Upper
 75 100
 110 9.2 19.5 58.5#
 77 0.5 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 7.369 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.13 min
 Lab File: VX012101.D
 Acq: 05 Sep 2019 15:19

Tgt Ion: 117 Resp: 16229
 Ion Ratio Lower Upper
 117 100
 119 6.1 78.3 117.5#
 121 0.0 24.2 36.2#

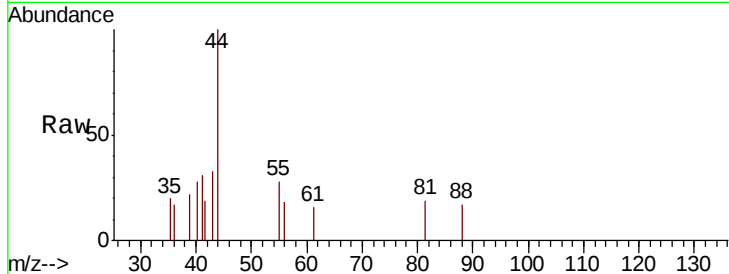




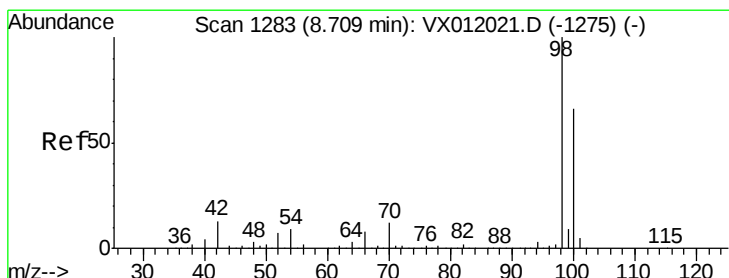
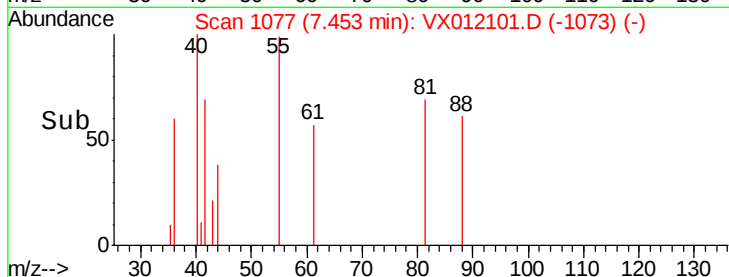
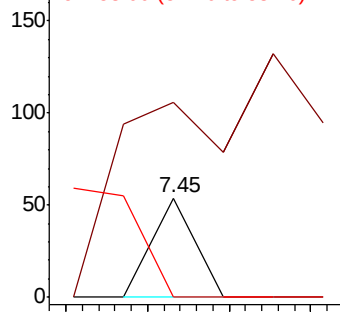
#49
1,4-Dioxane
Concen: 1.263 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. -0.27 min
Lab File: VX012101.D
Acq: 05 Sep 2019 15:19

Instrument :
MSVOA_X
ClientSampled :
SB-7

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 0.0 55.4 83.2#

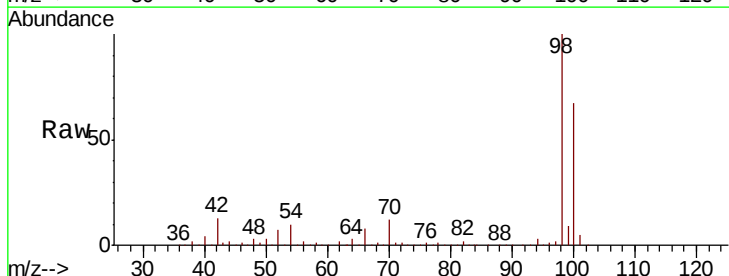


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

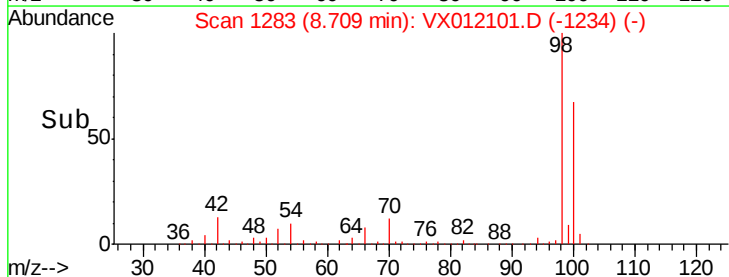
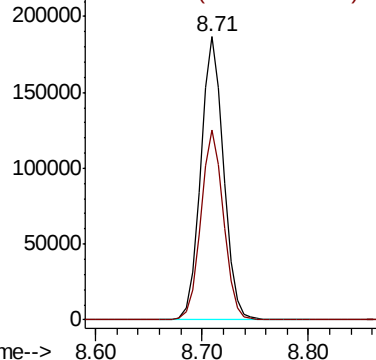


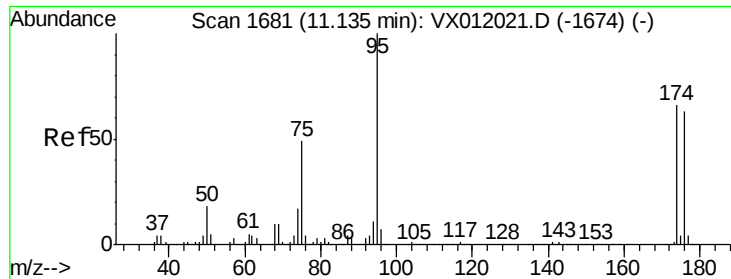
#50
Toluene-d8
Concen: 52.495 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012101.D
Acq: 05 Sep 2019 15:19

Tgt Ion: 98 Resp: 281105
Ion Ratio Lower Upper
98 100
100 66.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 41.742 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012101.D

Acq: 05 Sep 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SB-7

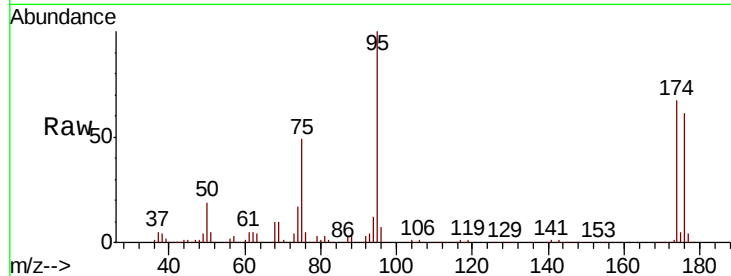
Tgt Ion: 95 Resp: 103952

Ion Ratio Lower Upper

95 100

174 62.7 0.0 205.4

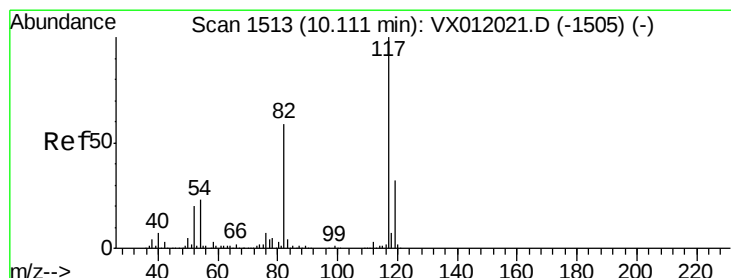
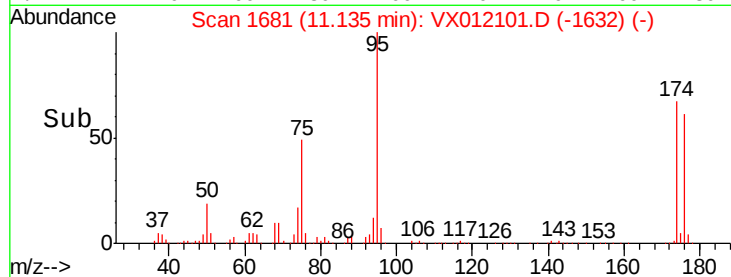
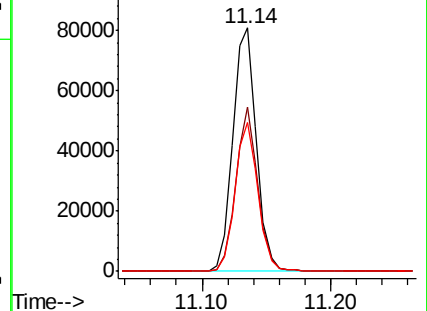
176 59.1 0.0 201.8



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: VX012101.D

Acq: 05 Sep 2019 15:19

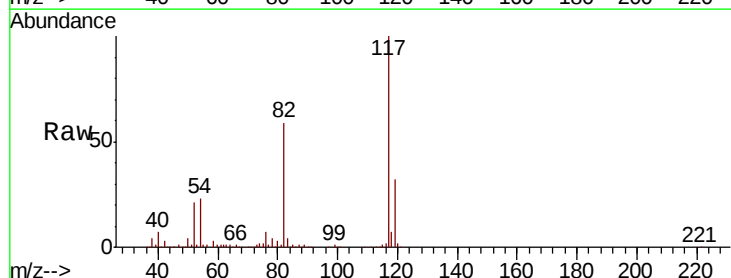
Tgt Ion: 117 Resp: 199953

Ion Ratio Lower Upper

117 100

82 58.7 39.4 59.0

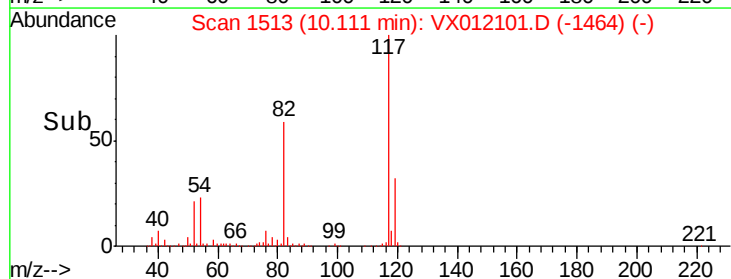
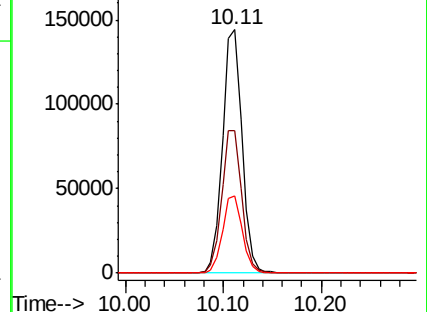
119 31.6 26.1 39.1

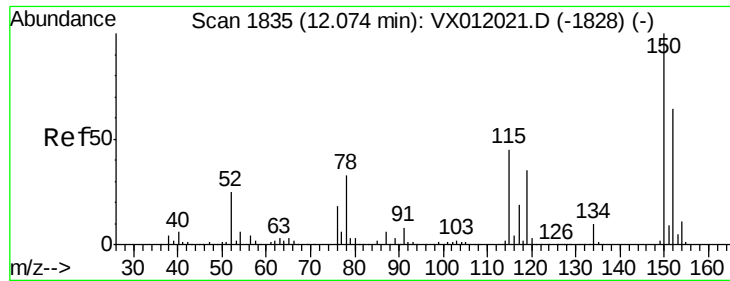


Abundance Ion 116.90 (116.60 to 117.60): VX012021.D (-1505) (-)

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: VX012101.D

Acq: 05 Sep 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SB-7

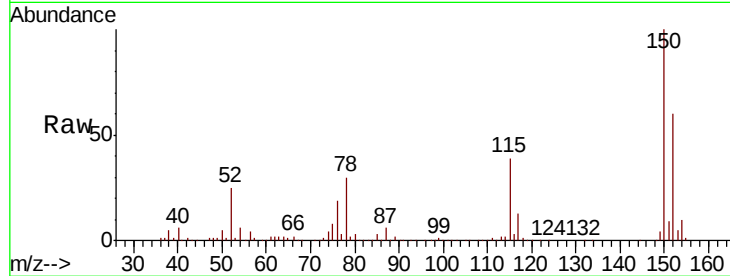
Tgt Ion:152 Resp: 79633

Ion Ratio Lower Upper

152 100

115 67.4 36.4 109.3

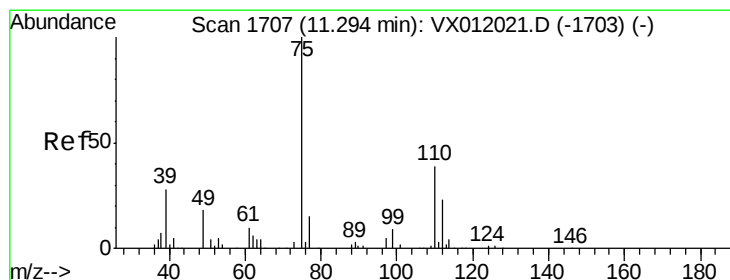
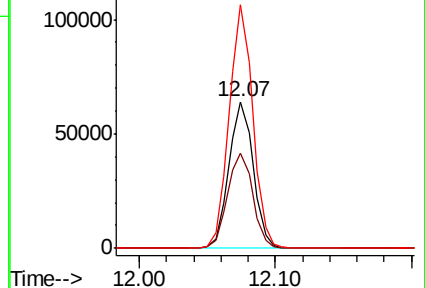
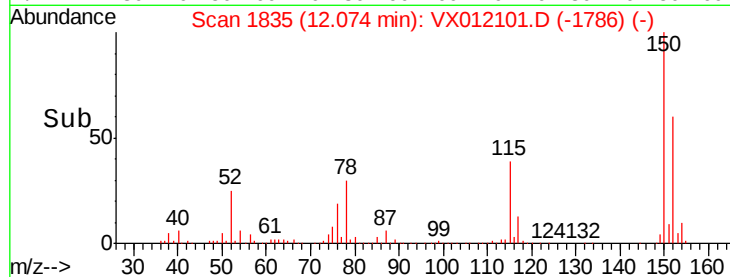
150 161.3 0.0 341.2



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: 54.397 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012101.D

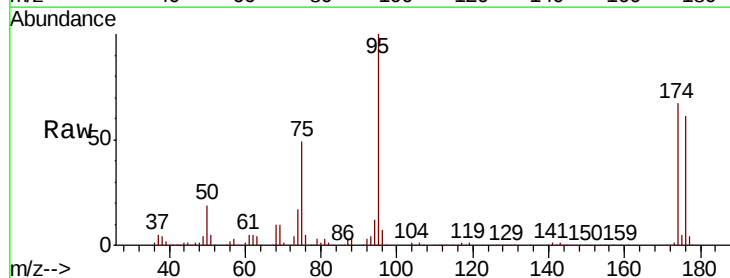
Acq: 05 Sep 2019 15:19

Tgt Ion: 75 Resp: 52928

Ion Ratio Lower Upper

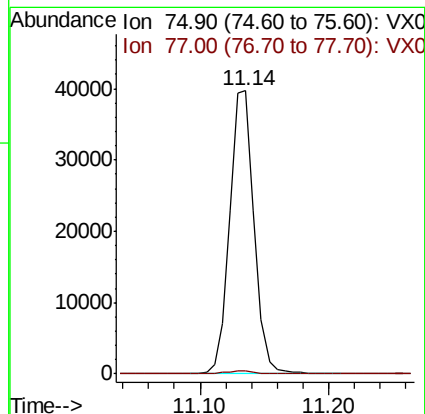
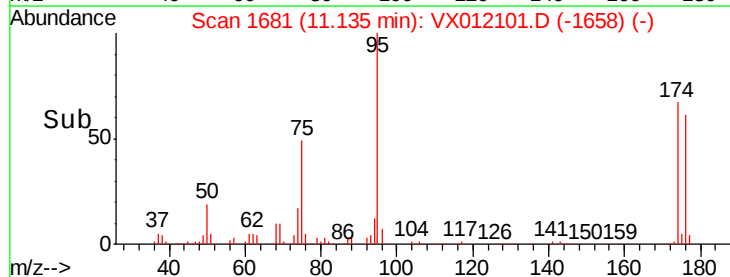
75 100

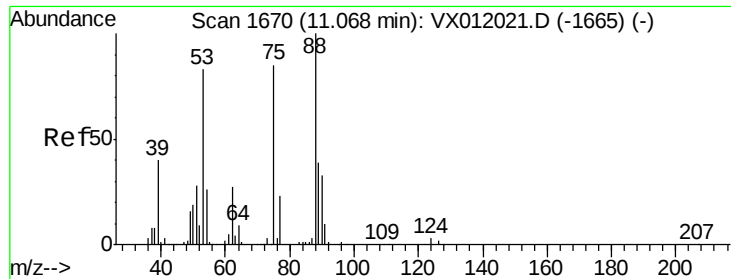
77 1.2 23.5 70.5#



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: 128.603 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012101.D

Acq: 05 Sep 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SB-7

Tgt Ion: 75 Resp: 52928

Ion Ratio Lower Upper

75 100

53 0.0 78.6 117.8#

89 0.0 38.8 58.2#

