

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090519\
 Data File : VX012129.D
 Acq On : 06 Sep 2019 05:39
 Operator : SY/SP
 Sample : K4580-04
 Misc : 4.03g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T12-B1-(0)

Quant Time: Sep 06 07:36:16 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	154370	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	273574	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	236530	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	98328	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	107522	50.48	ug/l	0.00
Spiked Amount			Recovery	=	100.96%	
35) Dibromofluoromethane	5.48	113	81539	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
50) Toluene-d8	8.71	98	319654	51.78	ug/l	0.00
Spiked Amount			Recovery	=	103.56%	
62) 4-Bromofluorobenzene	11.14	95	127708	44.48	ug/l	0.00
Spiked Amount			Recovery	=	88.96%	

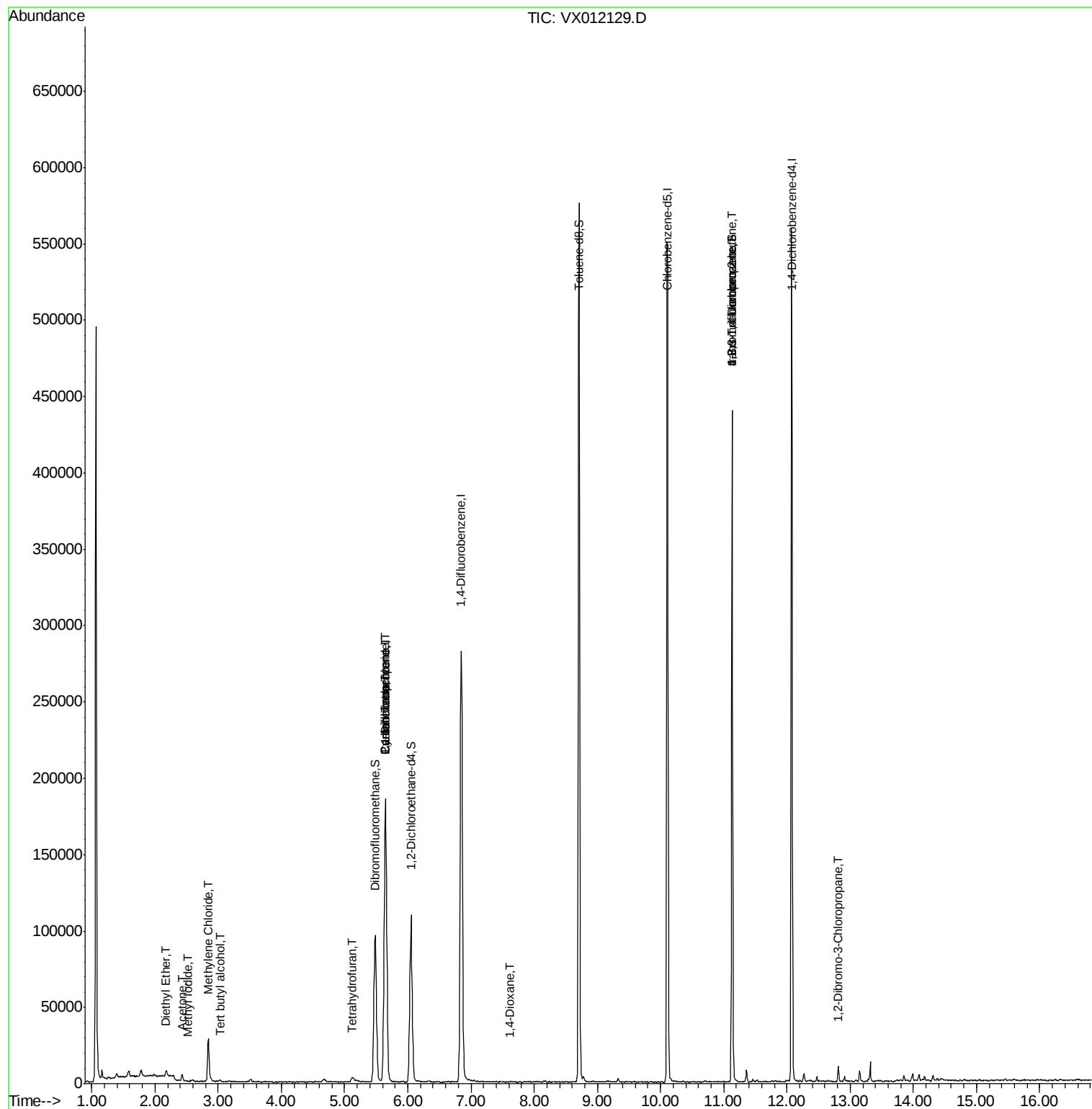
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1101	1.495	ug/l	99
10) Methyl Iodide	2.52	142	70	7.026	ug/l #	40
11) Tert butyl alcohol	3.03	59	958	4.683	ug/l #	29
13) Acrolein	2.28	56	47	Below Cal	#	16
16) Acetone	2.43	43	3995	7.847	ug/l	99
20) Methylene Chloride	2.84	84	12684	6.204	ug/l	90
29) Tetrahydrofuran	5.12	42	2916	7.468	ug/l	96
31) Cyclohexane	5.65	56	4614	1.767	ug/l #	15
36) 1,1-Dichloropropene	5.64	75	14775	6.132	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18477	7.277	ug/l #	15
49) 1,4-Dioxane	7.61	88	19	1.040	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	66366	55.240	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.13	75	66366	130.595	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	12.81	75	451	1.433	ug/l #	1

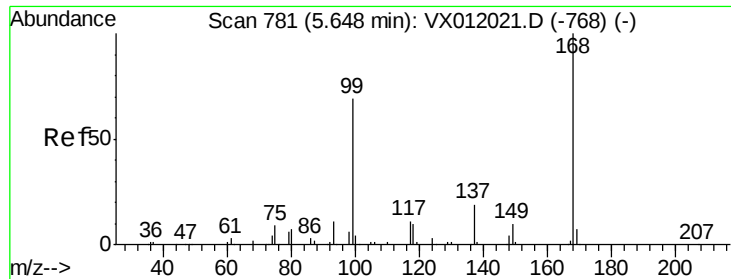
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012129.D

Acq: 06 Sep 2019 05:39

Instrument :

MSVOA_X

ClientSampleId :

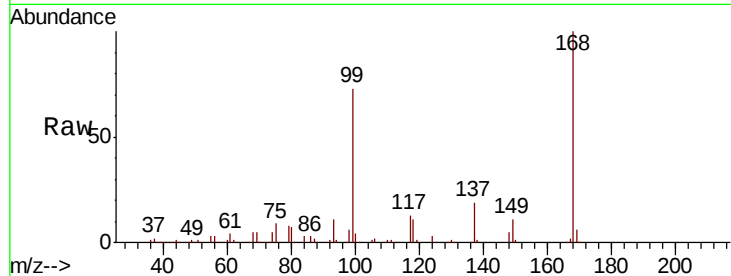
T12-B1-(0)

Tgt Ion:168 Resp: 154370

Ion Ratio Lower Upper

168 100

99 73.1 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

60000

50000

40000

30000

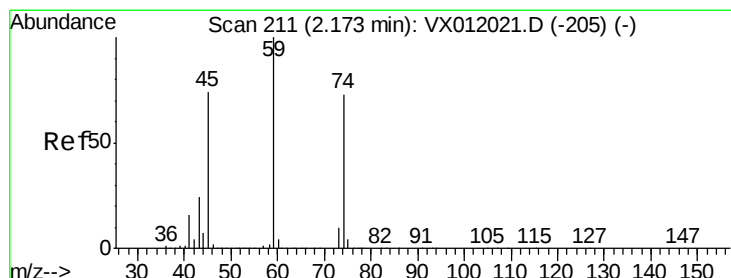
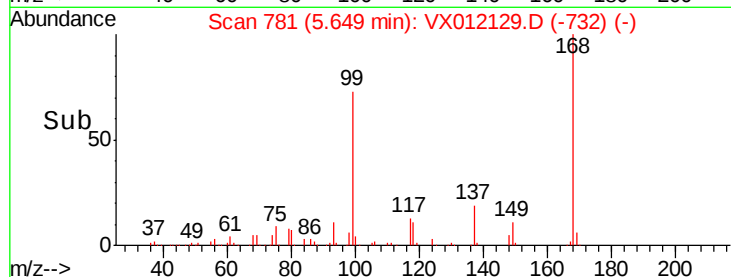
20000

10000

0

Time-->

5.50 5.60 5.70



#8

Diethyl Ether

Concen: 1.495 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012129.D

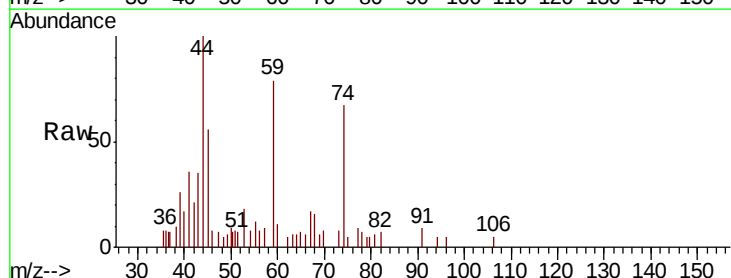
Acq: 06 Sep 2019 05:39

Tgt Ion: 74 Resp: 1101

Ion Ratio Lower Upper

74 100

45 90.5 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

800

600

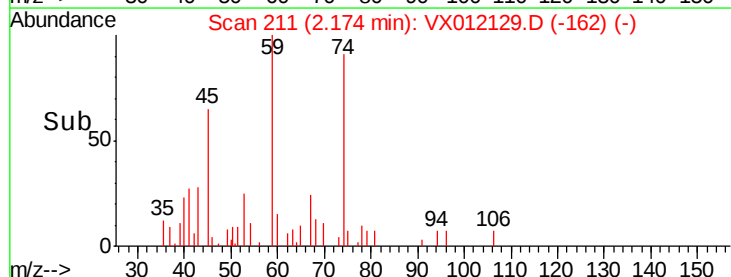
400

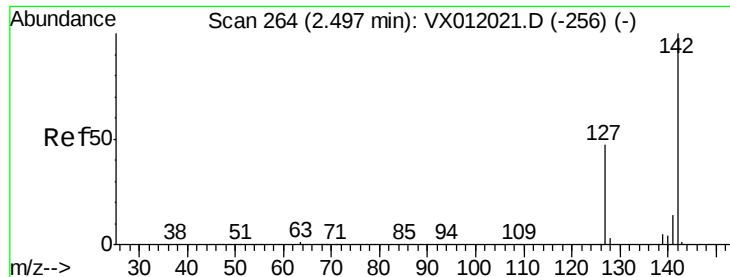
200

0

Time-->

2.15 2.20

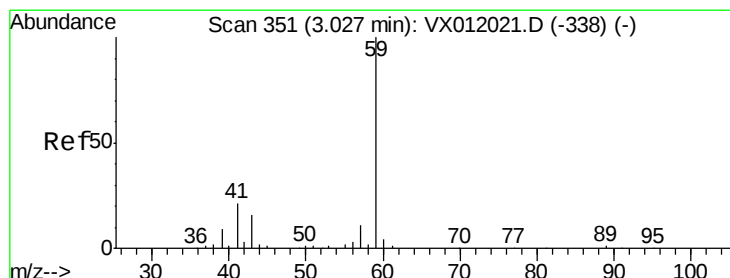
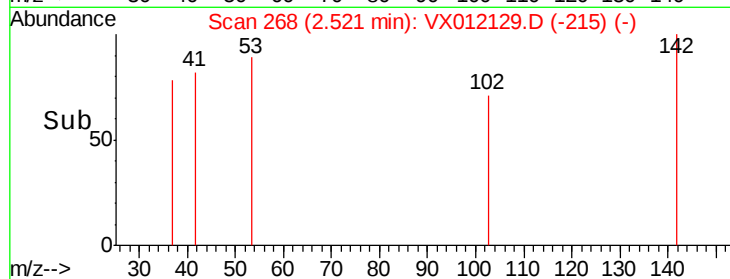
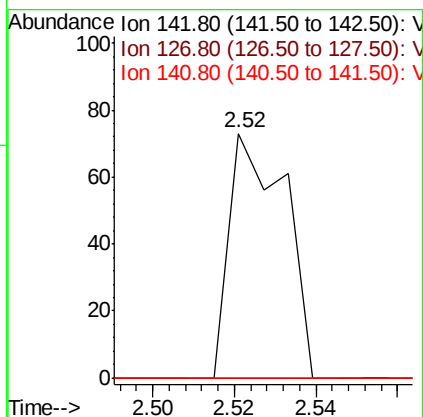
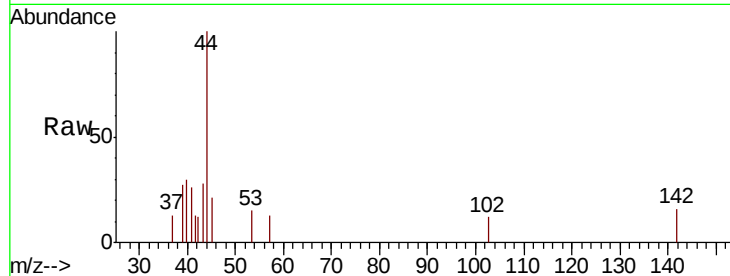




#10
Methyl Iodide
Concen: 7.026 ug/l
RT: 2.52 min Scan# 268
Delta R.T. 0.03 min
Lab File: VX012129.D
Acq: 06 Sep 2019 05:39

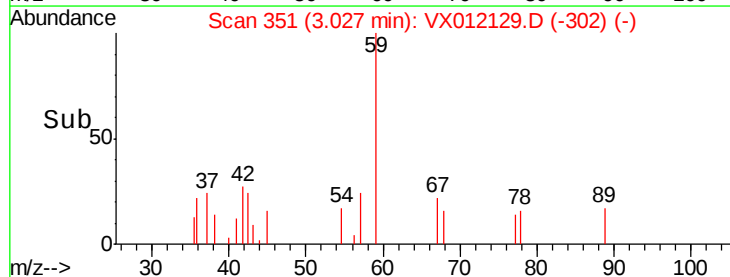
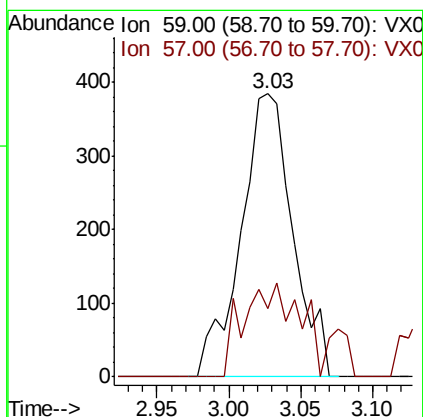
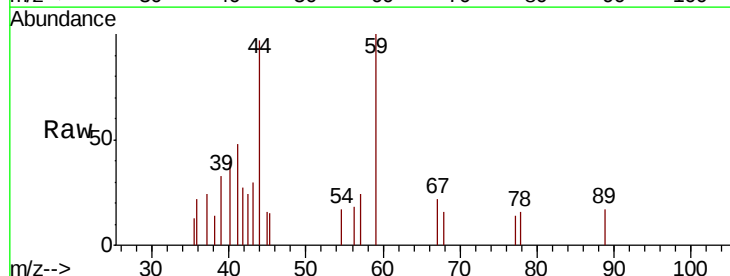
Instrument :
MSVOA_X
ClientSampleId :
T12-B1-(0)

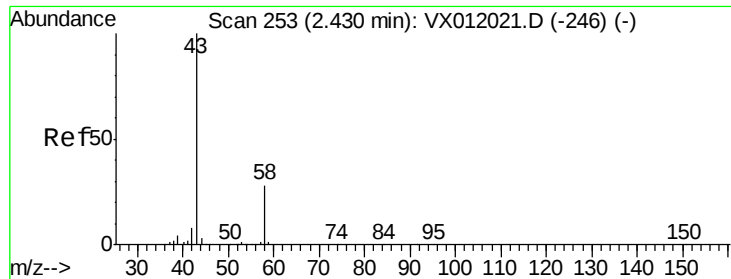
Tgt Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.4	53.2#
141	0.0	11.4	17.2#



#11
Tert butyl alcohol
Concen: 4.683 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.00 min
Lab File: VX012129.D
Acq: 06 Sep 2019 05:39

Tgt Ion	Ratio	Lower	Upper
59	100		
57	36.0	7.9	11.9#





#16

Acetone

Concen: 7.847 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

Instrument :

MSVOA_X

ClientSampleId :

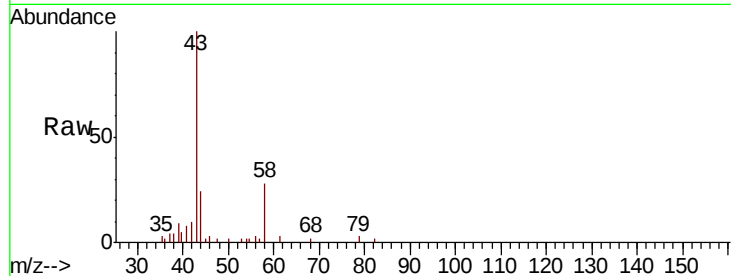
T12-B1-(0)

Tgt Ion: 43 Resp: 3995

Ion Ratio Lower Upper

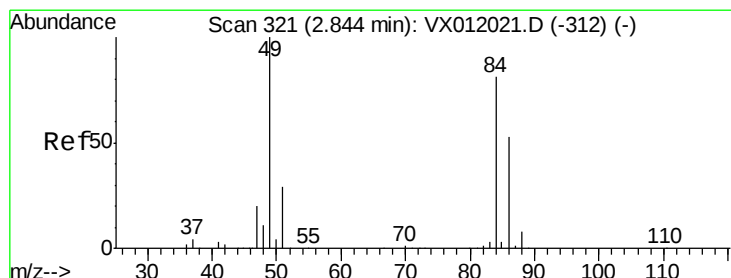
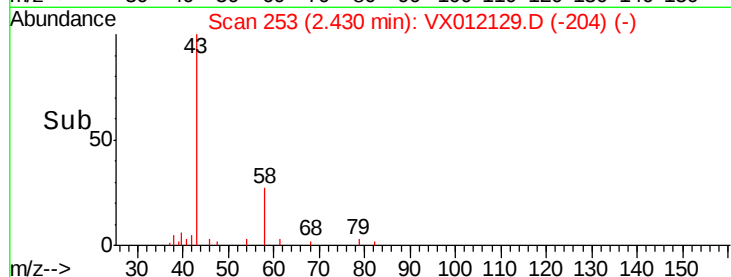
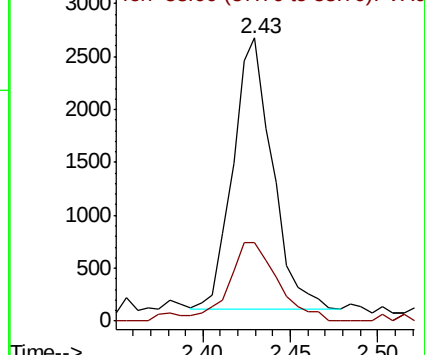
43 100

58 28.9 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: 6.204 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

Tgt Ion: 84 Resp: 12684

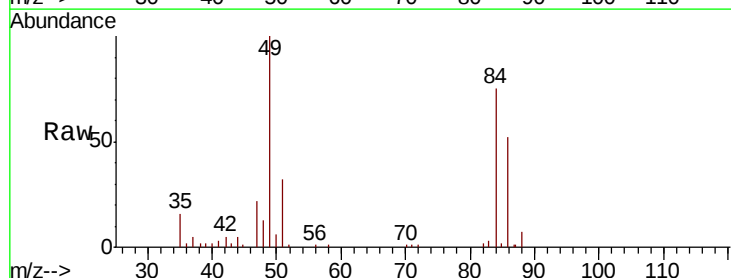
Ion Ratio Lower Upper

84 100

49 132.8 95.8 143.8

51 42.3 28.6 43.0

86 68.9 50.9 76.3

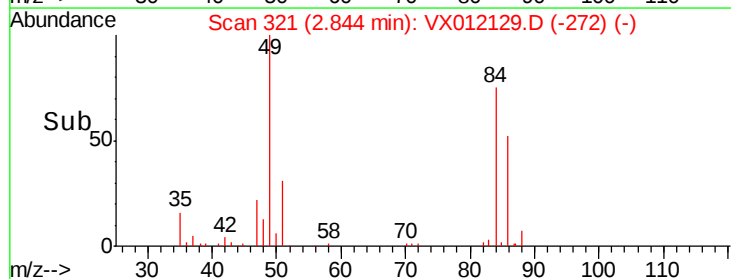
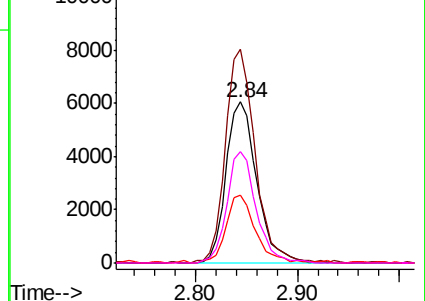


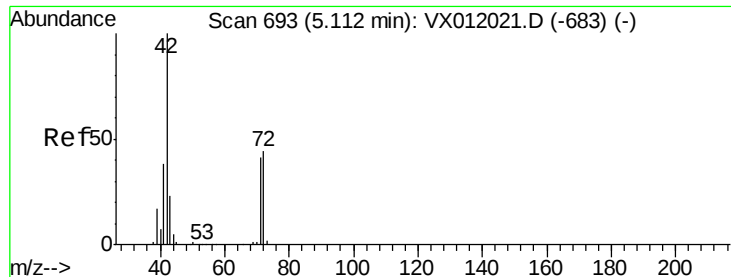
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#29

Tetrahydrofuran

Concen: 7.468 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

Instrument :

MSVOA_X

ClientSampleId :

T12-B1-(0)

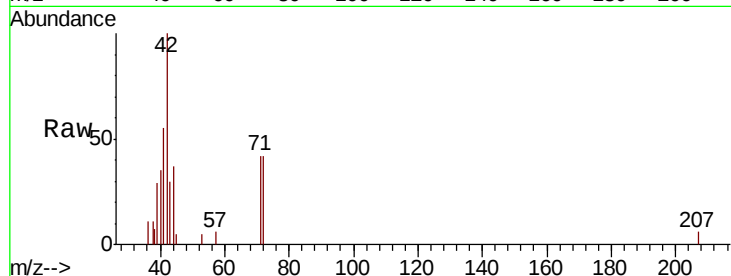
Tgt Ion: 42 Resp: 2916

Ion Ratio Lower Upper

42 100

72 47.3 37.0 55.4

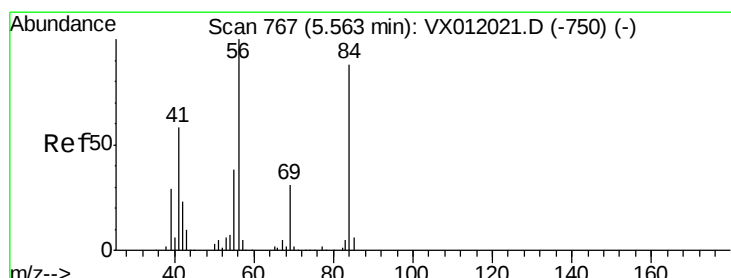
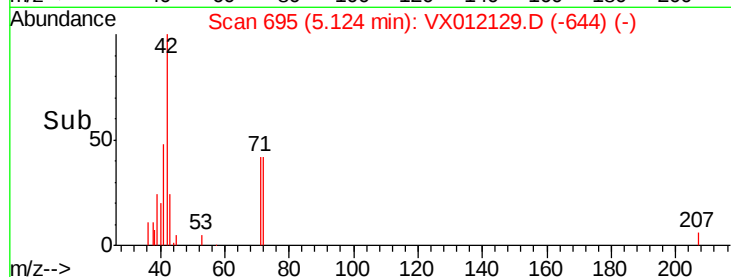
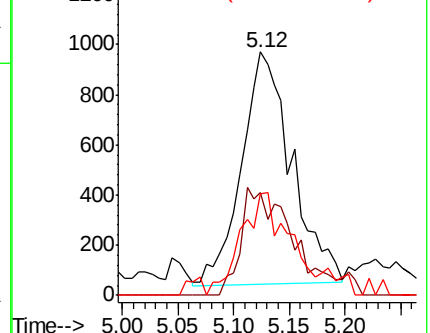
71 46.9 33.8 50.8



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.767 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.09 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

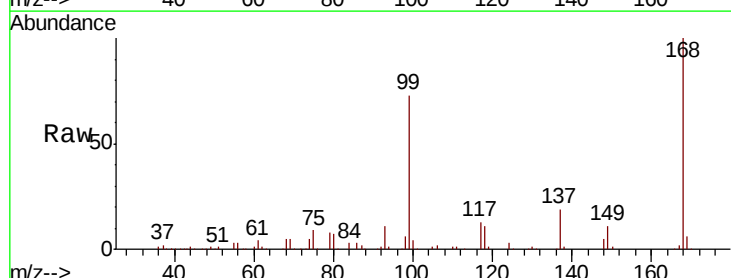
Tgt Ion: 56 Resp: 4614

Ion Ratio Lower Upper

56 100

69 184.4 25.7 38.5#

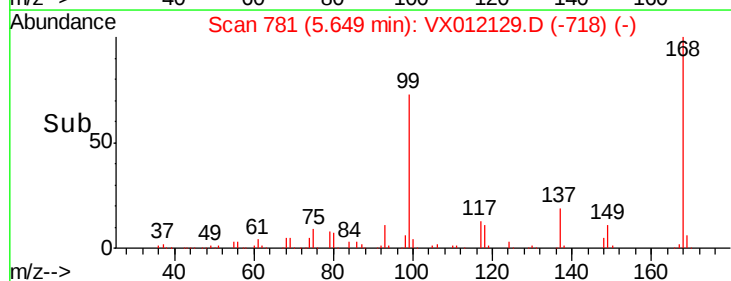
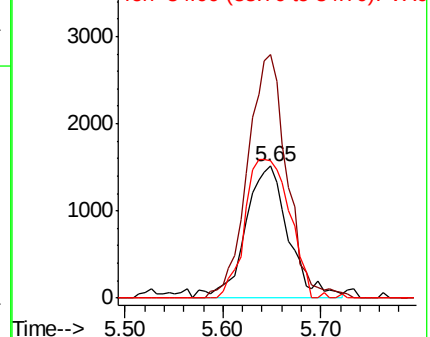
84 103.8 70.3 105.5

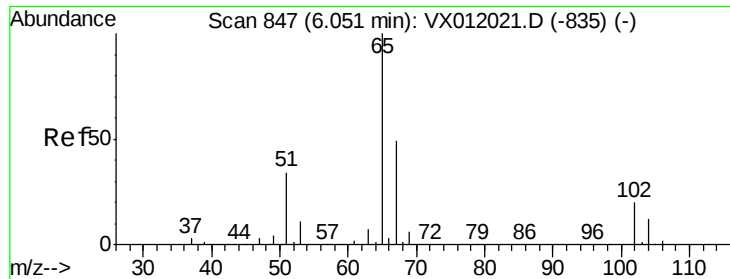


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.480 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

Instrument :

MSVOA_X

ClientSampleId :

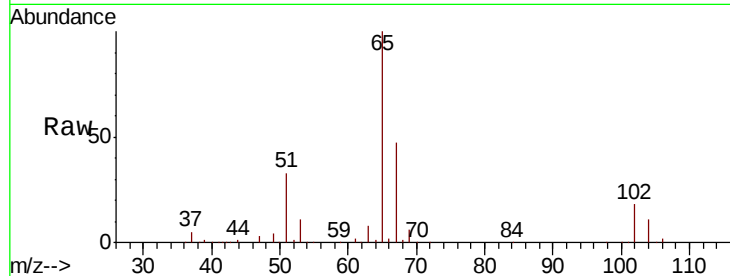
T12-B1-(0)

Tgt Ion: 65 Resp: 107522

Ion Ratio Lower Upper

65 100

67 49.1 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

40000

30000

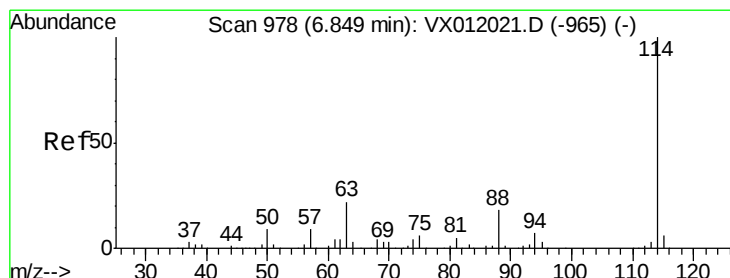
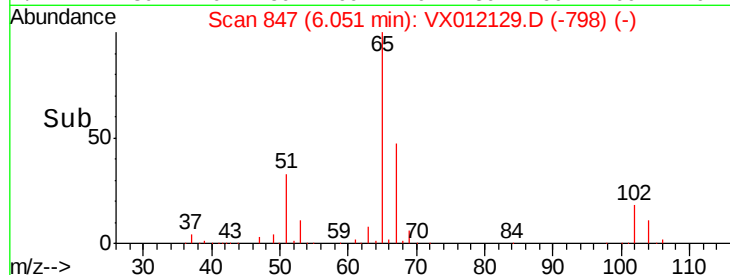
20000

10000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

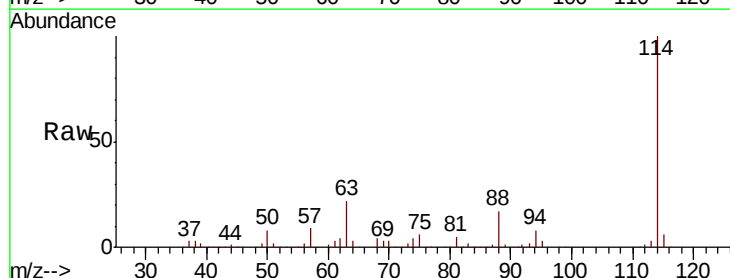
Tgt Ion: 114 Resp: 273574

Ion Ratio Lower Upper

114 100

63 21.8 0.0 37.4

88 17.3 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

6.85

150000

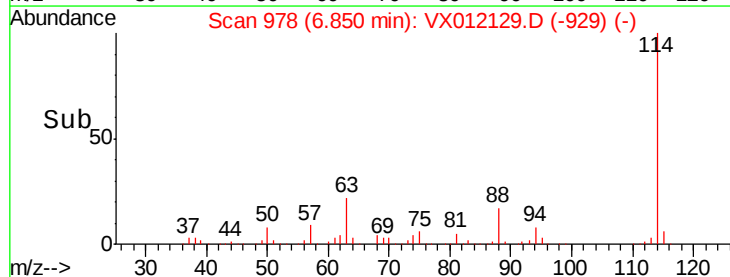
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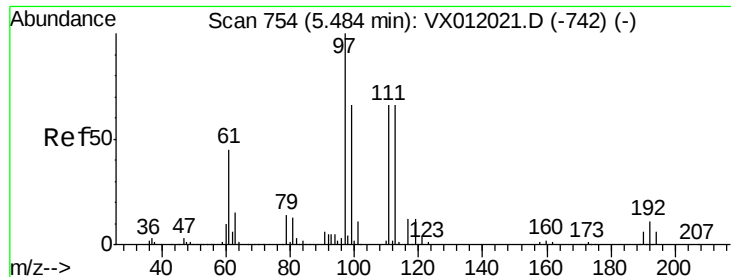
50000

0

6.70 6.80 6.90 7.00 7.10

Time-->





#35

Dibromofluoromethane

Concen: 48.466 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

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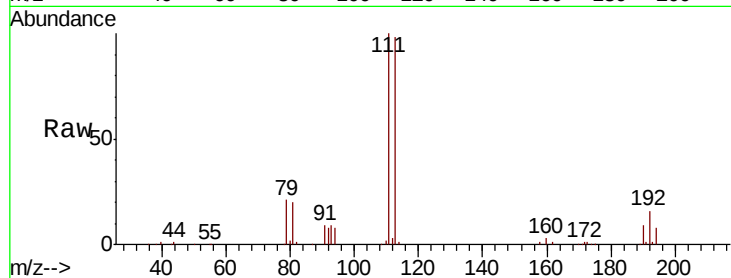
Tgt Ion:113 Resp: 81539

Ion Ratio Lower Upper

113 100

111 101.3 81.7 122.5

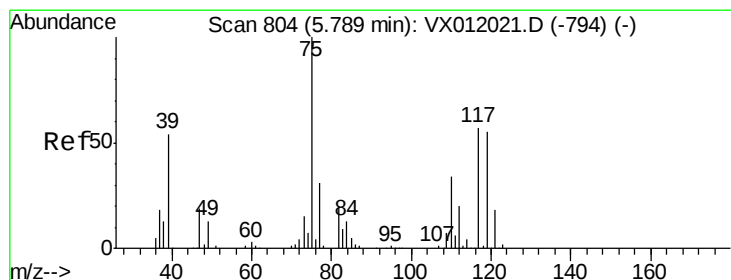
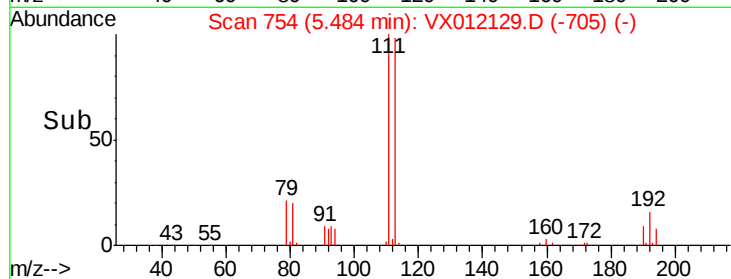
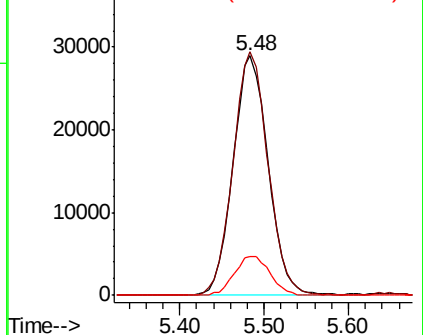
192 16.6 22.5 33.7#



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: 6.132 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

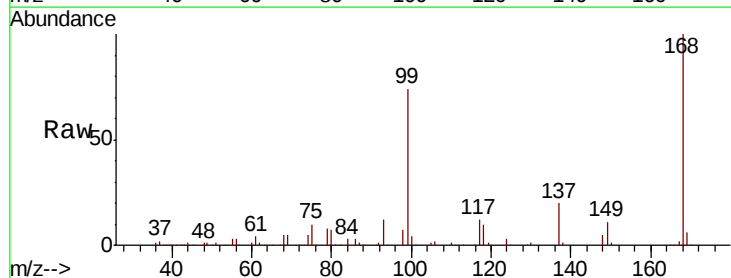
Tgt Ion: 75 Resp: 14775

Ion Ratio Lower Upper

75 100

110 9.8 19.5 58.5#

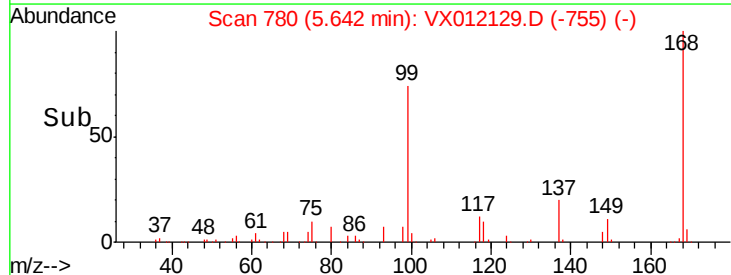
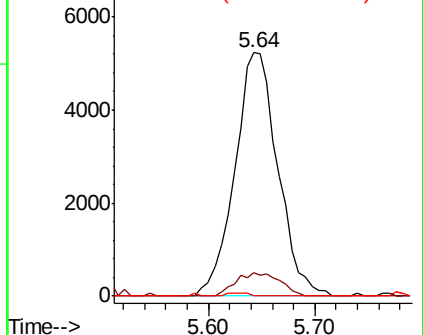
77 0.6 24.6 37.0#

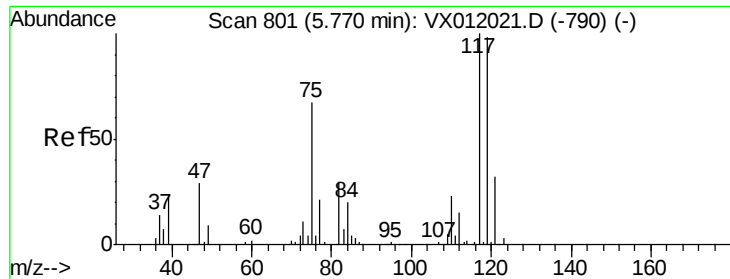


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.277 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.12 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

Instrument :

MSVOA_X

ClientSampleId :

T12-B1-(0)

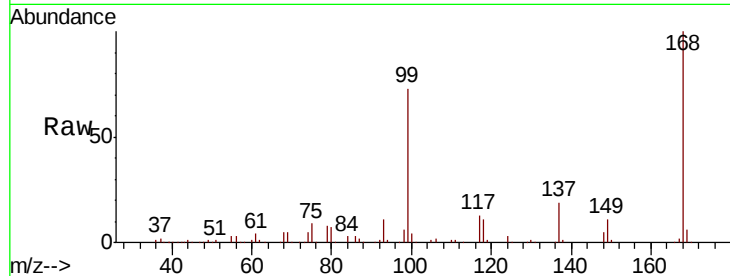
Tgt Ion:117 Resp: 18477

Ion Ratio Lower Upper

117 100

119 5.0 78.3 117.5#

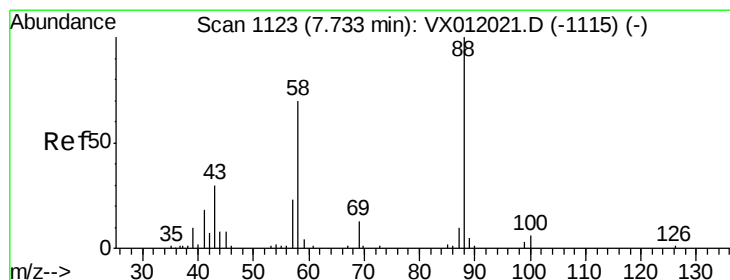
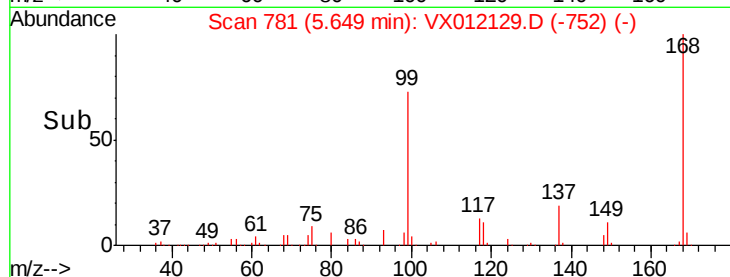
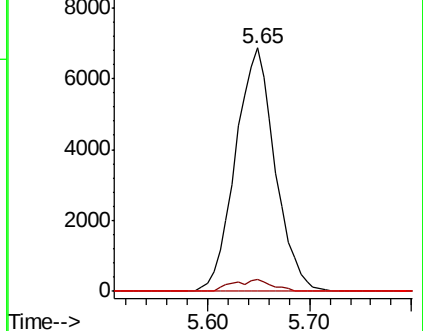
121 0.0 24.2 36.2#



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: 1.040 ug/l

RT: 7.61 min Scan# 1103

Delta R.T. -0.12 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

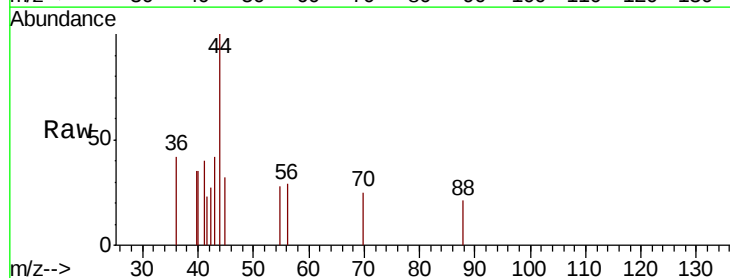
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

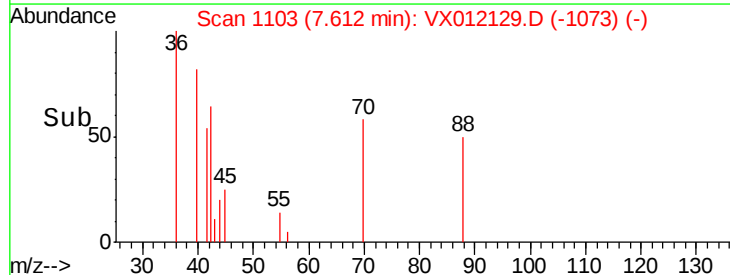
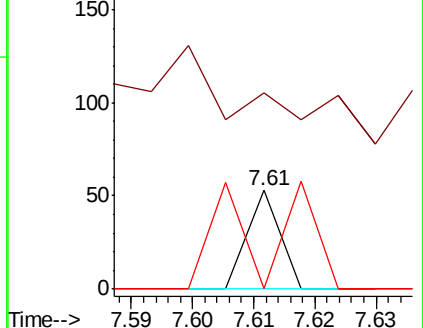
58 221.1 55.4 83.2#

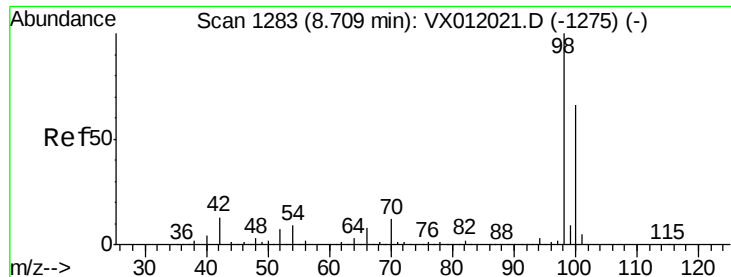


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

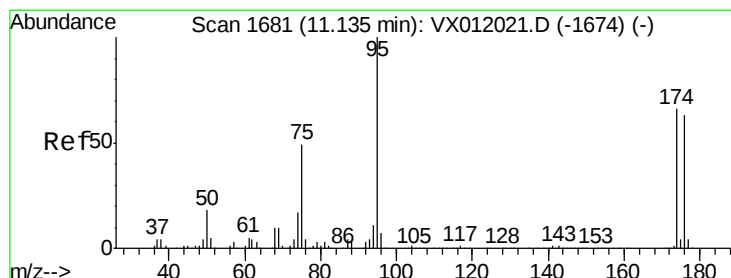
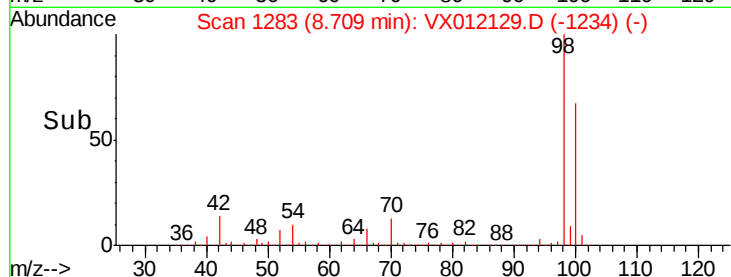
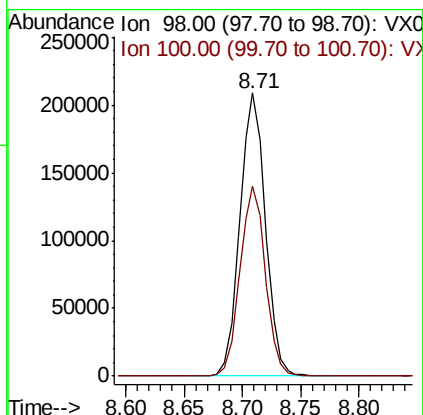
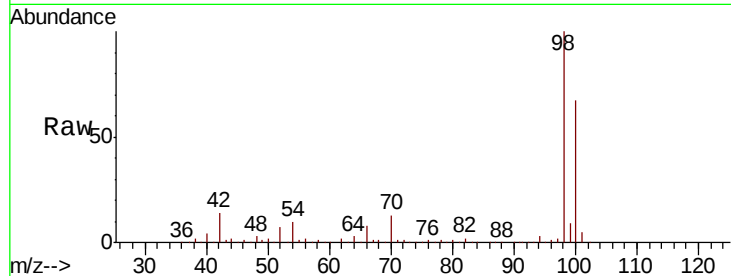




#50
Toluene-d8
Concen: 51.777 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012129.D
Acq: 06 Sep 2019 05:39

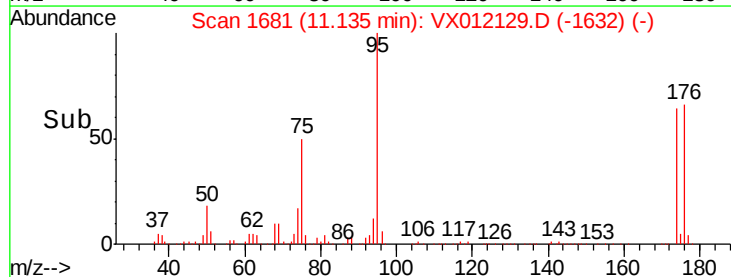
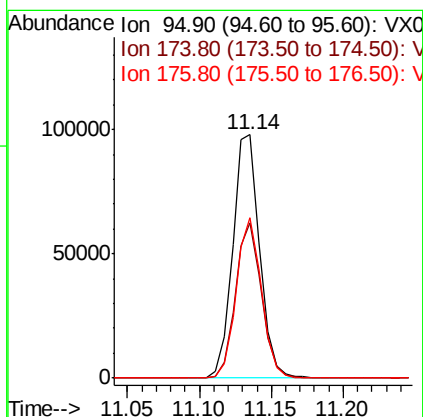
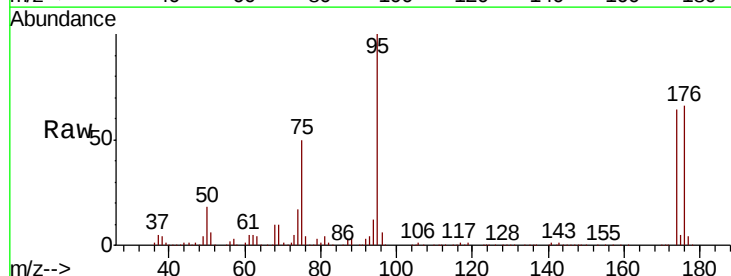
Instrument :
MSVOA_X
ClientSampleId :
T12-B1-(0)

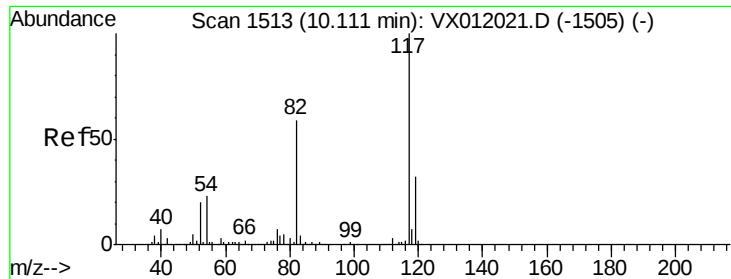
Tgt Ion: 98 Resp: 319654
Ion Ratio Lower Upper
98 100
100 67.0 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 44.480 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX012129.D
Acq: 06 Sep 2019 05:39

Tgt Ion: 95 Resp: 127708
Ion Ratio Lower Upper
95 100
174 61.6 0.0 205.4
176 61.7 0.0 201.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

Instrument :

MSVOA_X

ClientSampleId :

T12-B1-(0)

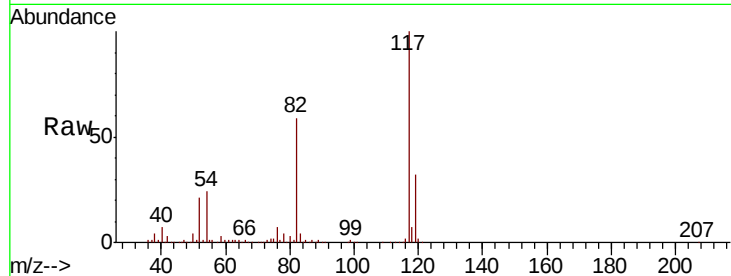
Tgt Ion:117 Resp: 236530

Ion Ratio Lower Upper

117 100

82 58.8 39.4 59.0

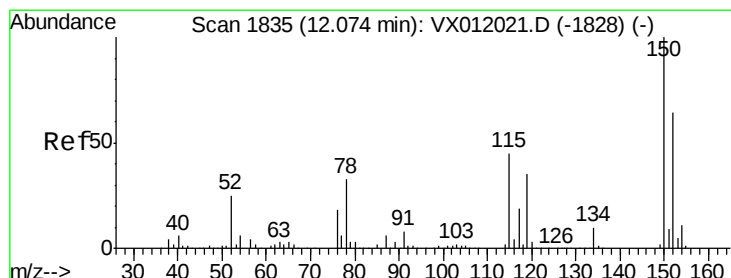
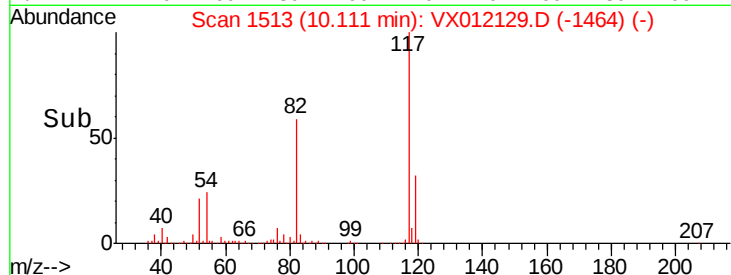
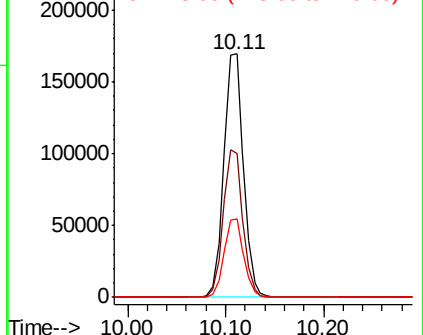
119 32.2 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

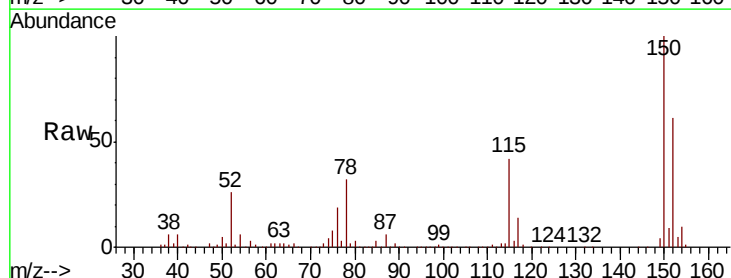
Tgt Ion:152 Resp: 98328

Ion Ratio Lower Upper

152 100

115 68.1 36.4 109.3

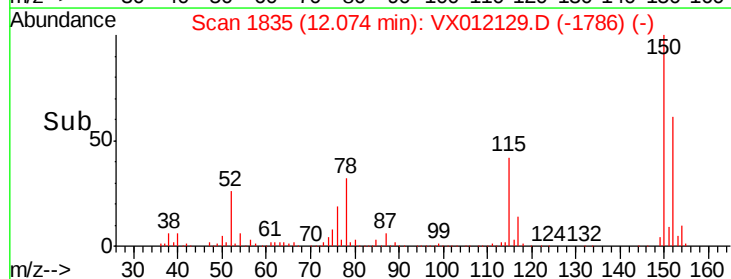
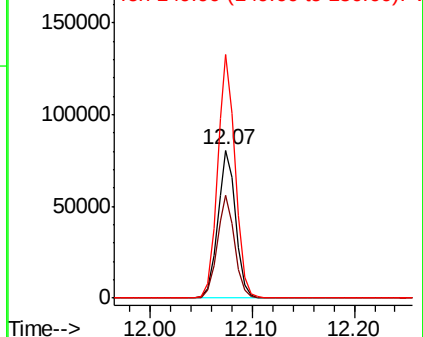
150 163.3 0.0 341.2

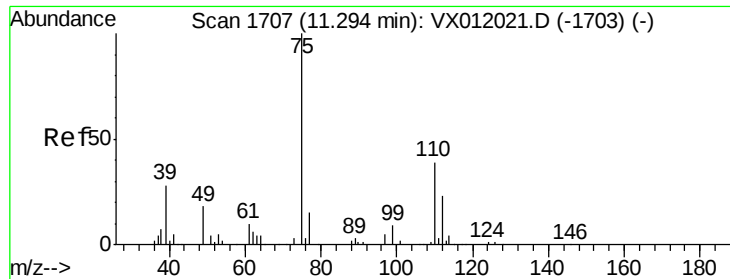


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 55.240 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

Instrument :

MSVOA_X

ClientSampleId :

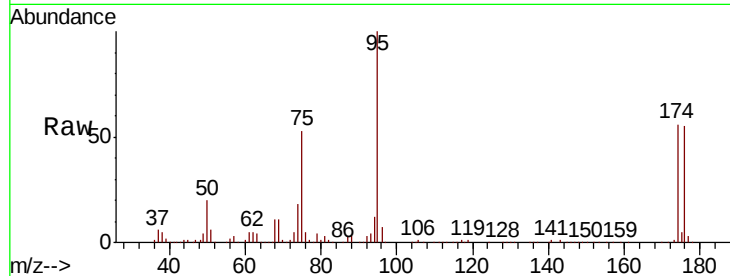
T12-B1-(0)

Tgt Ion: 75 Resp: 66366

Ion Ratio Lower Upper

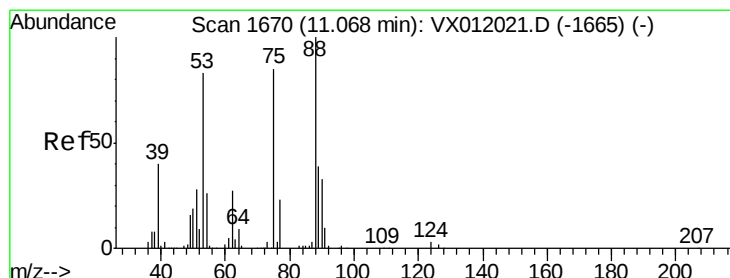
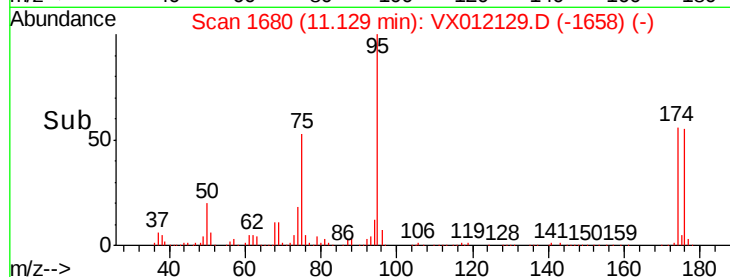
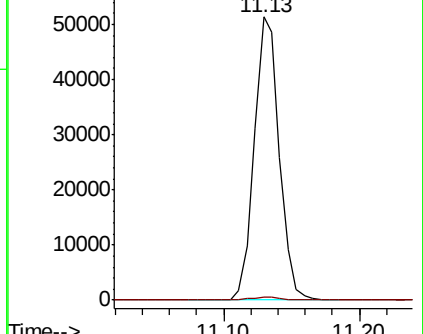
75 100

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: 130.595 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

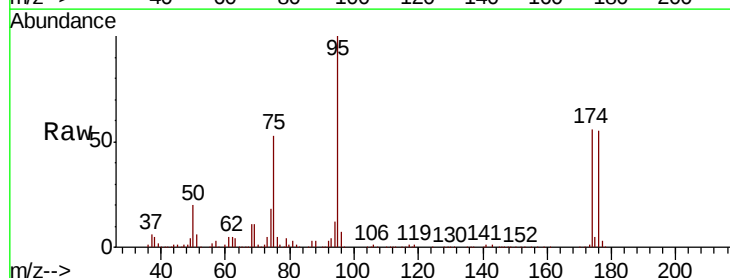
Tgt Ion: 75 Resp: 66366

Ion Ratio Lower Upper

75 100

53 0.0 78.6 117.8#

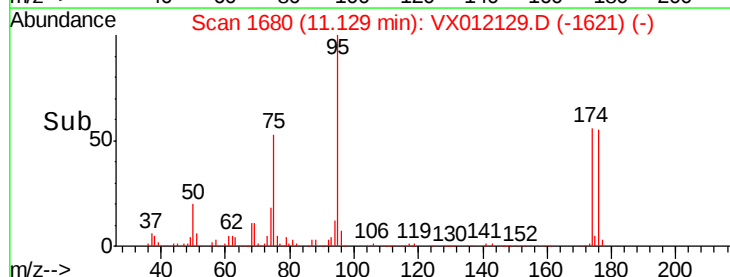
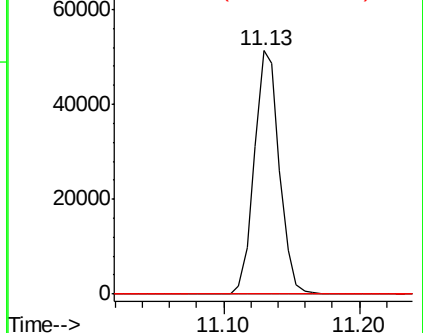
89 0.0 38.8 58.2#

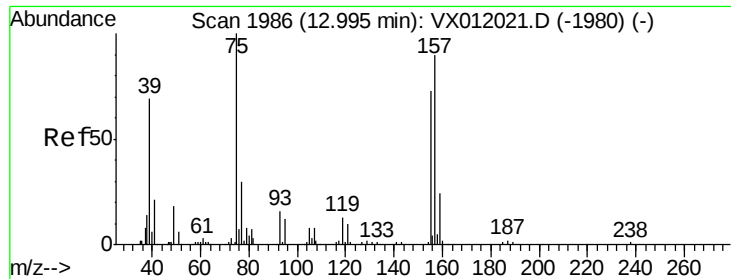


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.433 ug/l

RT: 12.81 min Scan# 1955

Delta R.T. -0.19 min

Lab File: VX012129.D

Acq: 06 Sep 2019 05:39

Instrument :

MSVOA_X

ClientSampleId :

T12-B1-(0)

Tgt Ion: 75 Resp: 451

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.2#

157 0.0 66.9 200.7#

