

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090519\
 Data File : VX012137.D
 Acq On : 06 Sep 2019 09:23
 Operator : SY/SP
 Sample : K4580-12
 Misc : 5.75g/5.0mL/MSVOA X/SOIL
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

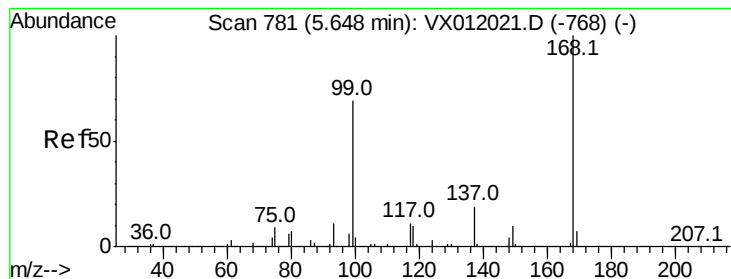
Quant Time: Sep 06 11:32:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X090319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 03 15:26:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	140483	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	251072	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	218736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	90112	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	99998	51.59	ug/l	0.00
Spiked Amount			Recovery	=	103.18%	
35) Dibromofluoromethane	5.48	113	74593	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
50) Toluene-d8	8.71	98	294929	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
62) 4-Bromofluorobenzene	11.14	95	112991	42.88	ug/l	0.00
Spiked Amount			Recovery	=	85.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	914	1.364	ug/l	95
10) Methyl Iodide	2.22	142	20	7.000	ug/l #	27
11) Tert butyl alcohol	3.02	59	1397	7.503	ug/l #	83
13) Acrolein	2.26	56	212	Below Cal	#	12
16) Acetone	2.43	43	20047	43.269	ug/l	98
20) Methylene Chloride	2.84	84	7840	4.214	ug/l	93
29) Tetrahydrofuran	5.13	42	2954	8.313	ug/l	92
31) Cyclohexane	5.65	56	4039	1.700	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	12859	5.815	ug/l #	49
38) Carbon Tetrachloride	5.64	117	17151	7.361	ug/l #	16
76) 1,2,3-Trichloropropane	11.13	75	59873	54.379	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.13	75	59873	128.560	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

Instrument :

MSVOA_X

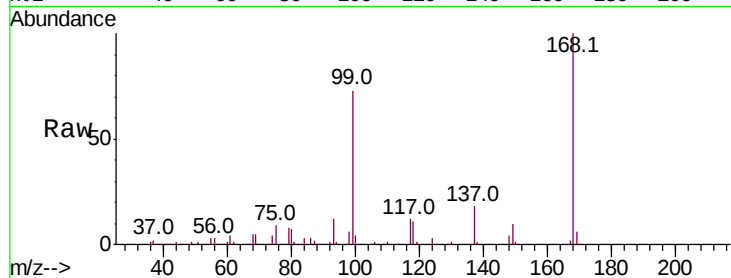
ClientSampleId :

Tot Ion:168 Resp: 140483

Ion Ratio Lower Upper

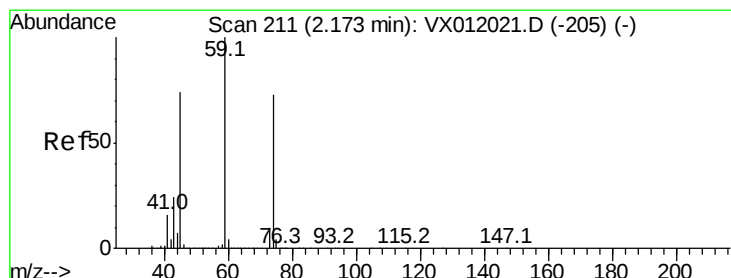
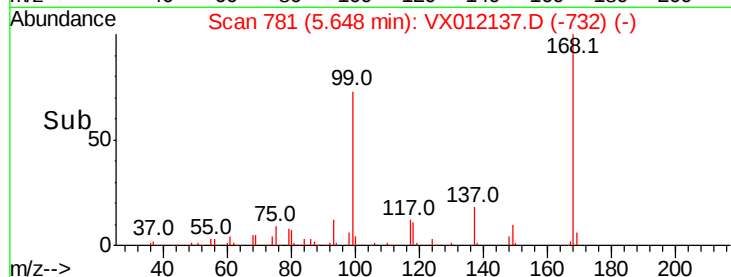
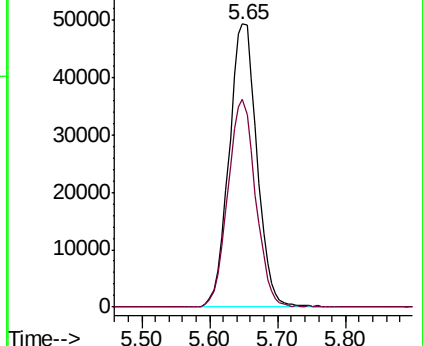
168 100

99 73.3 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 1.364 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012137.D

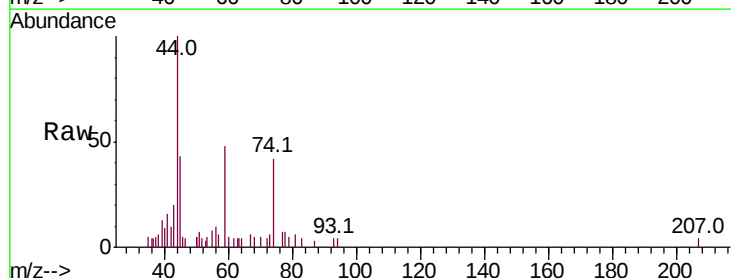
Acq: 06 Sep 2019 09:23

Tgt Ion: 74 Resp: 914

Ion Ratio Lower Upper

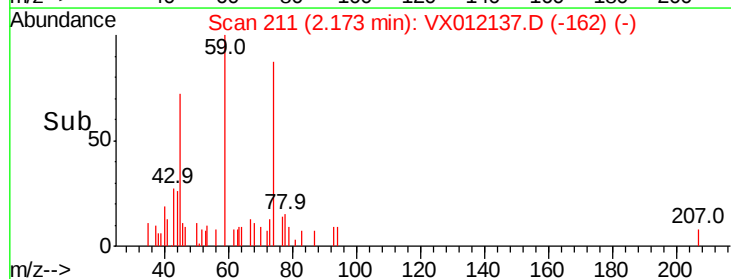
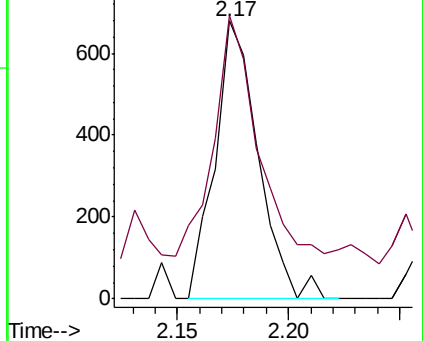
74 100

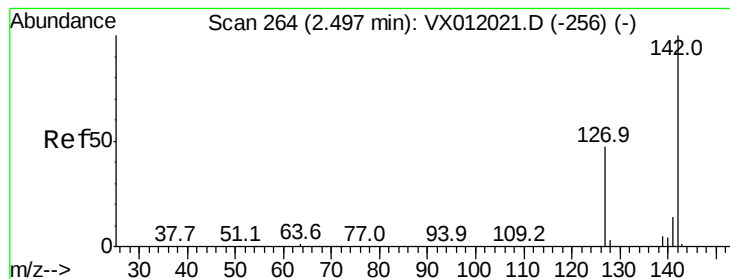
45 87.1 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 7.000 ug/l

RT: 2.22 min Scan# 219

Delta R.T. -0.27 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

Instrument :

MSVOA_X

ClientSampled :

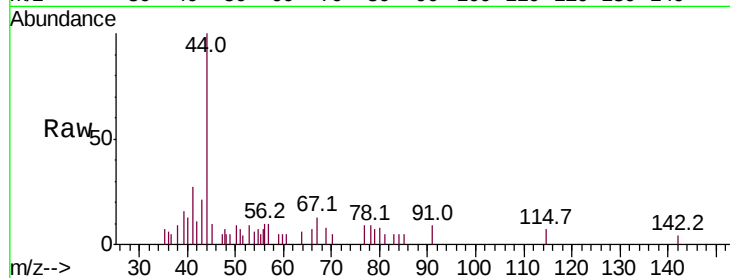
Tot Ion:142 Resp: 20

Ion Ratio Lower Upper

142 100

127 100.0 35.4 53.2#

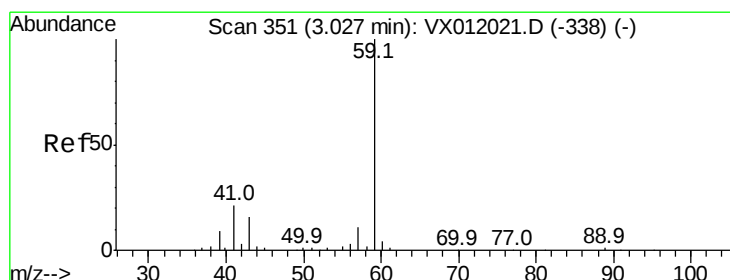
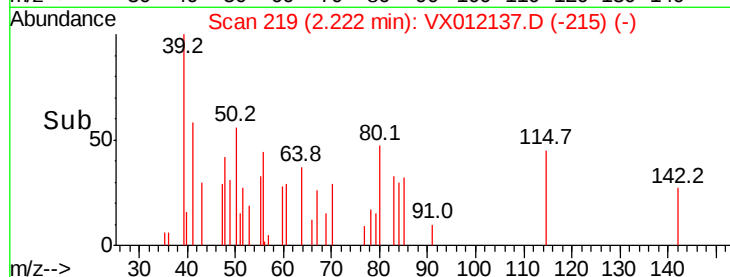
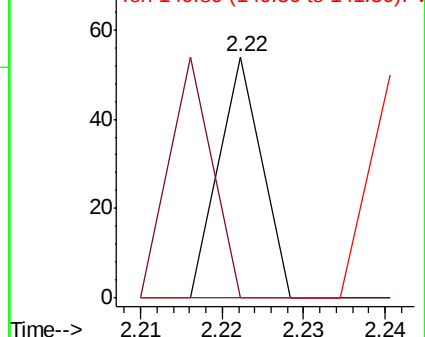
141 0.0 11.4 17.2#



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: 7.503 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX012137.D

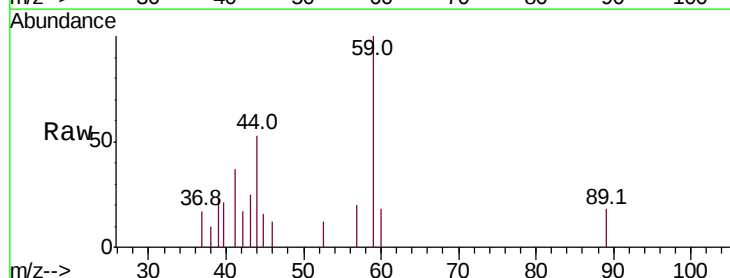
Acq: 06 Sep 2019 09:23

Tgt Ion: 59 Resp: 1397

Ion Ratio Lower Upper

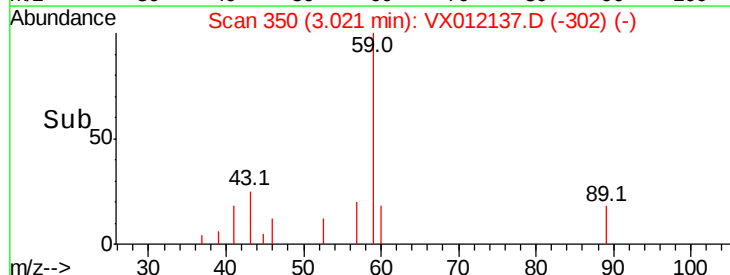
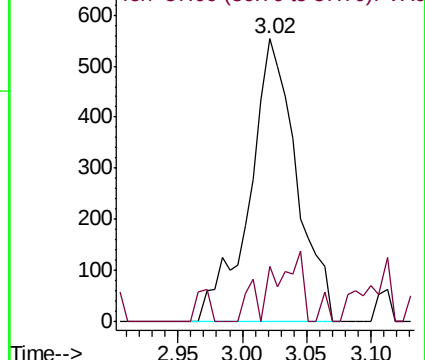
59 100

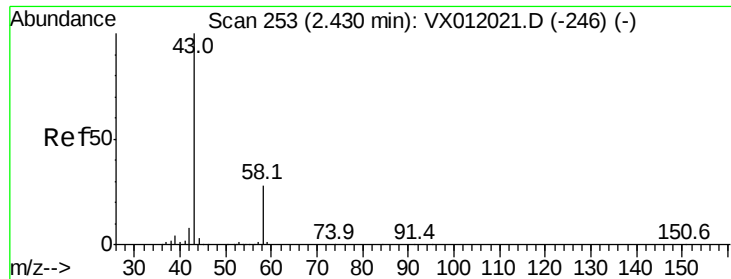
57 3.7 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 43.269 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

Instrument :

MSVOA_X

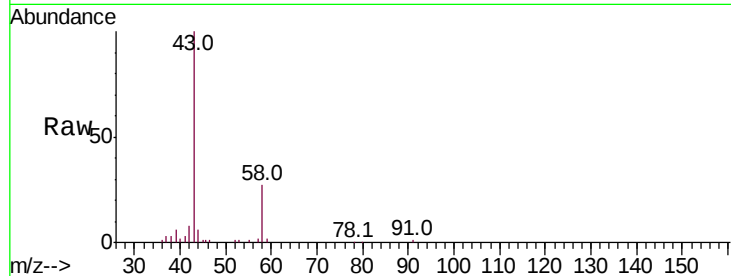
ClientSampled :

Tot Ion: 43 Resp: 20047

Ion Ratio Lower Upper

43 100

58 27.3 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

15000

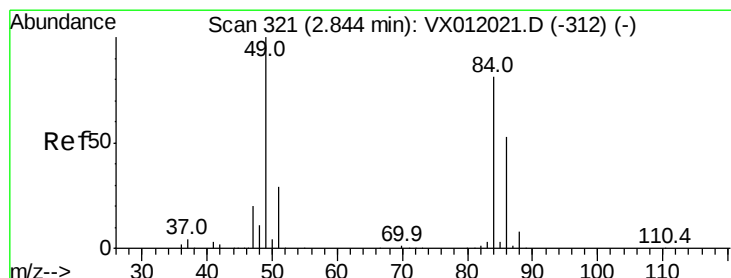
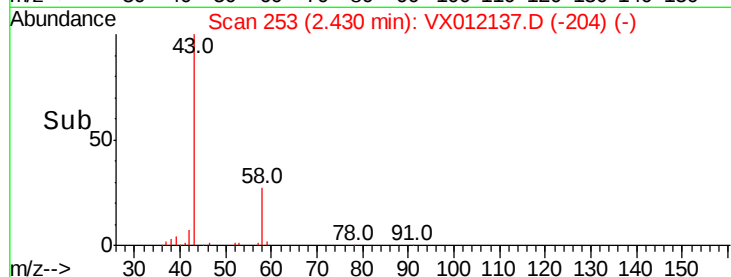
10000

5000

0

Time-->

2.35 2.40 2.45 2.50 2.55



#20

Methylene Chloride

Concen: 4.214 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

Tgt Ion: 84 Resp: 7840

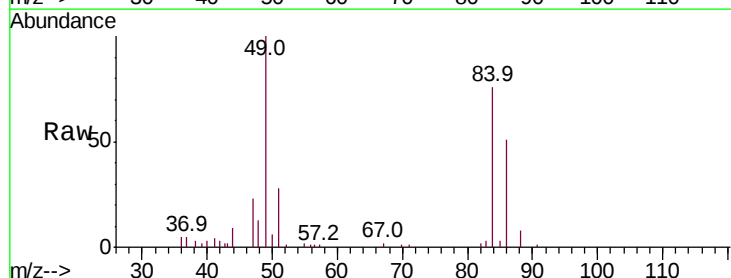
Ion Ratio Lower Upper

84 100

49 130.8 95.8 143.8

51 36.5 28.6 43.0

86 66.7 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

6000

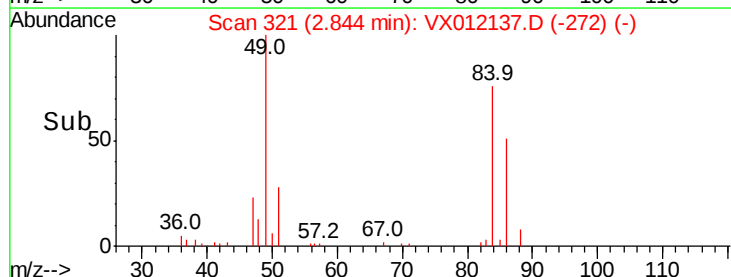
4000

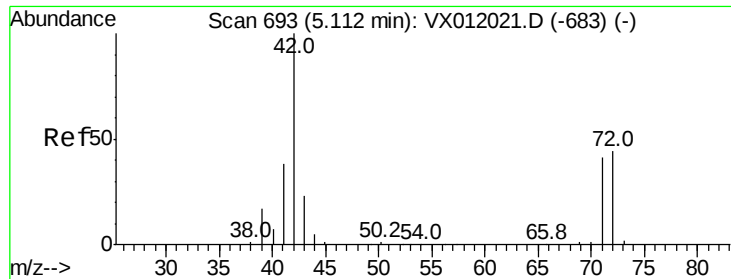
2000

0

Time-->

2.75 2.80 2.85 2.90 2.95





#29

Tetrahydrofuran

Concen: 8.313 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

Instrument :

MSVOA_X

ClientSampled :

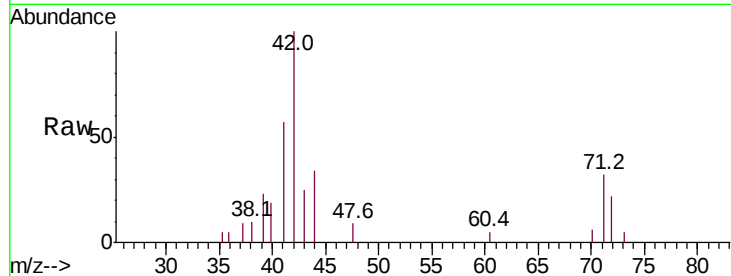
Tot Ion: 42 Resp: 2954

Ion Ratio Lower Upper

42 100

72 40.6 37.0 55.4

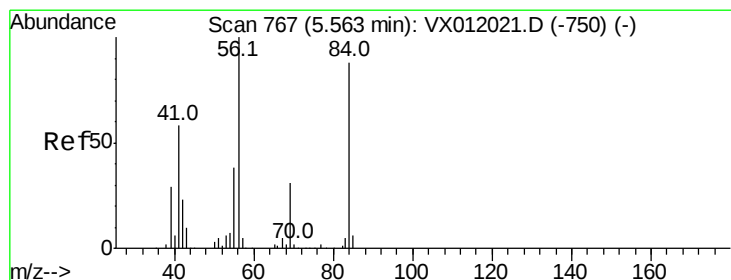
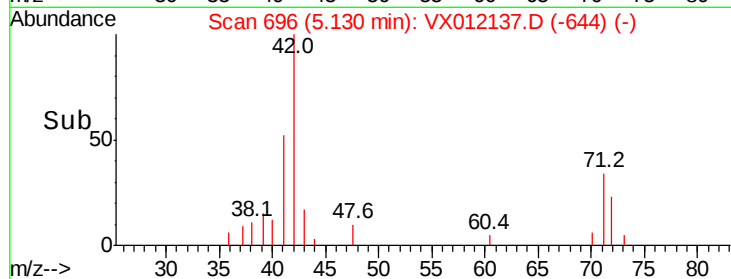
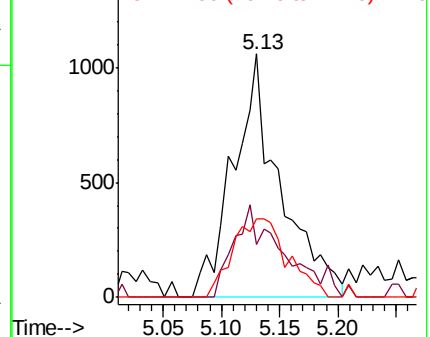
71 38.1 33.8 50.8



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: 1.700 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.09 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

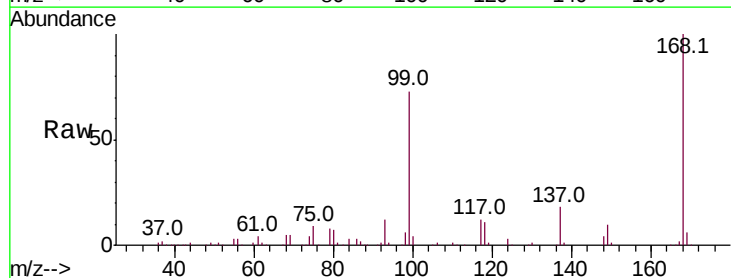
Tgt Ion: 56 Resp: 4039

Ion Ratio Lower Upper

56 100

69 193.4 25.7 38.5#

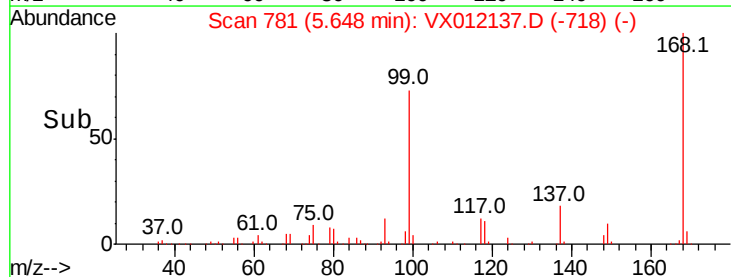
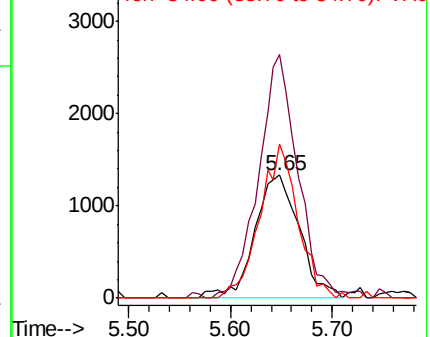
84 125.1 70.3 105.5#

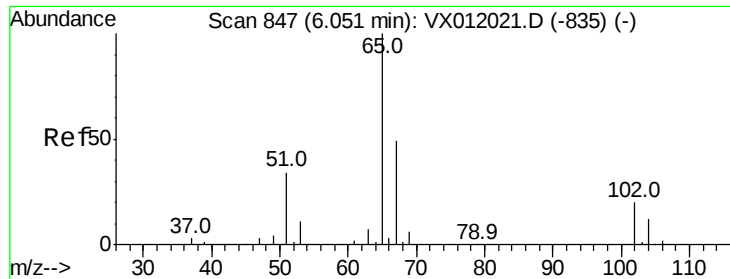


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

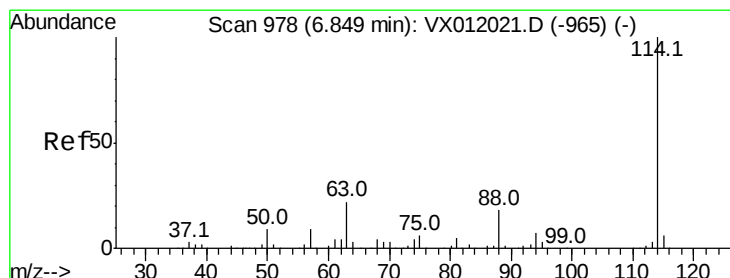
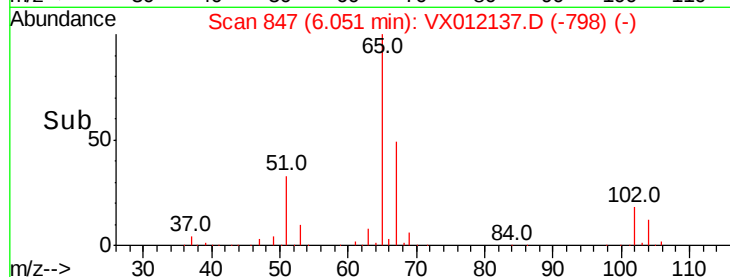
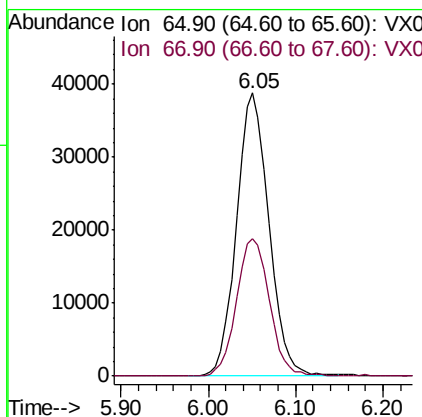
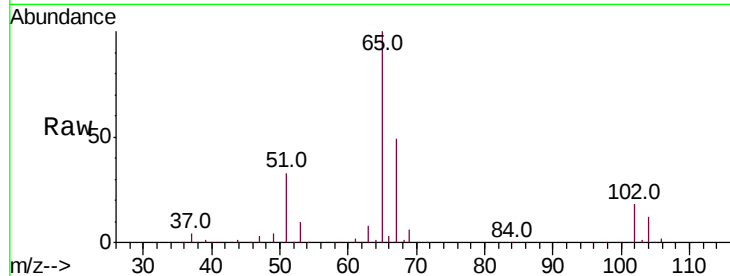




#33
 1,2-Dichloroethane-d4
 Concen: 51.588 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX012137.D
 Acq: 06 Sep 2019 09:23

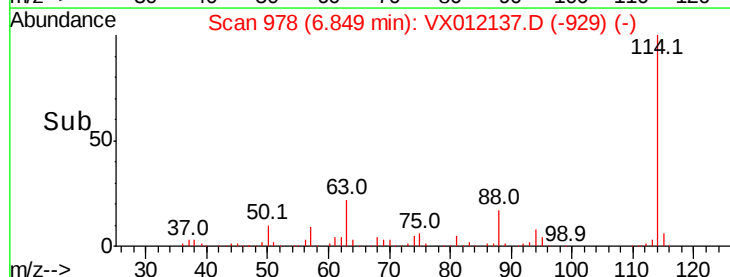
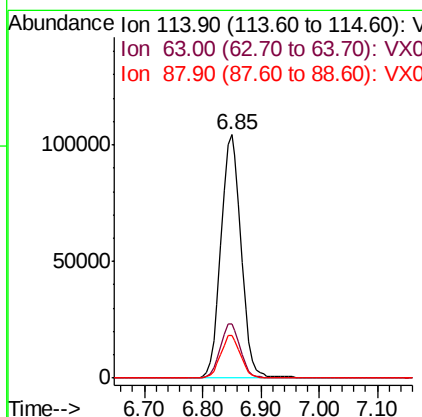
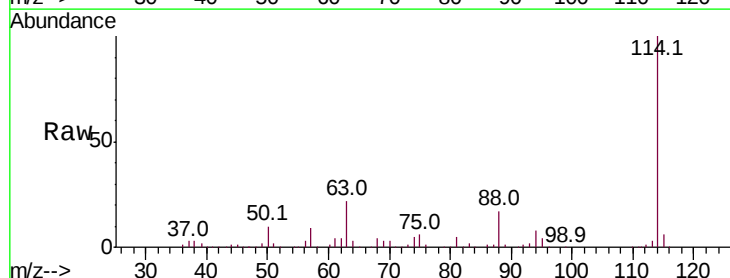
Instrument :
 MSVOA_X
 ClientSampleId :

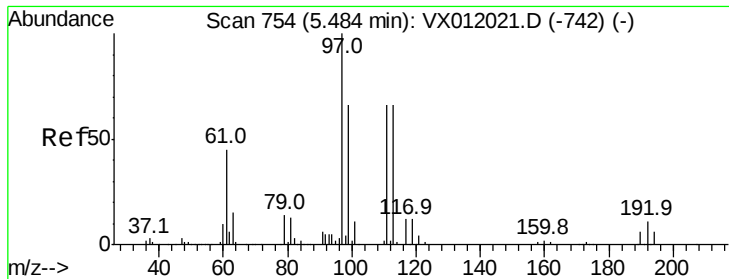
Tot Ion: 65 Resp: 99998
 Ion Ratio Lower Upper
 65 100
 67 49.5 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012137.D
 Acq: 06 Sep 2019 09:23

Tgt Ion: 114 Resp: 251072
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 37.4
 88 17.5 0.0 29.6





#35

Dibromofluoromethane

Concen: 48.311 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

Instrument :

MSVOA_X

ClientSampleId :

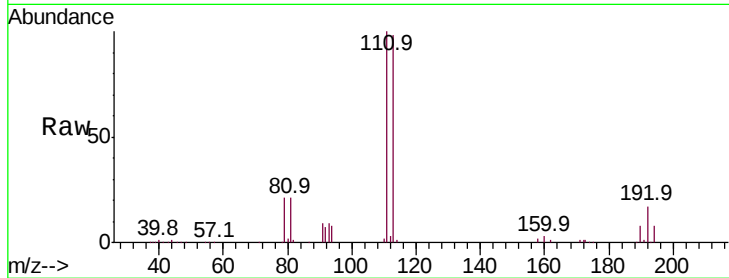
Tot Ion:113 Resp: 74593

Ion Ratio Lower Upper

113 100

111 104.7 81.7 122.5

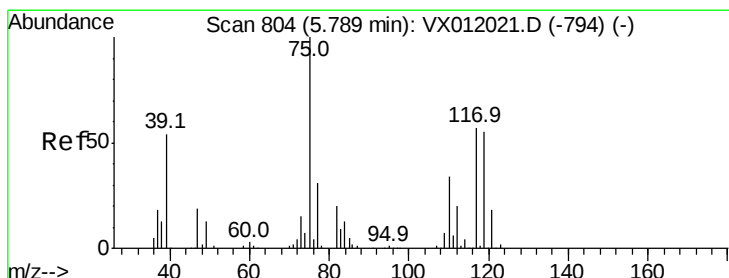
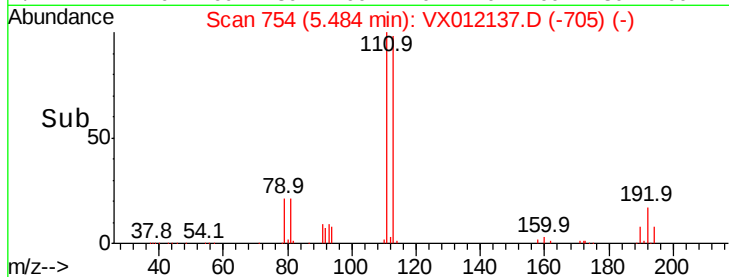
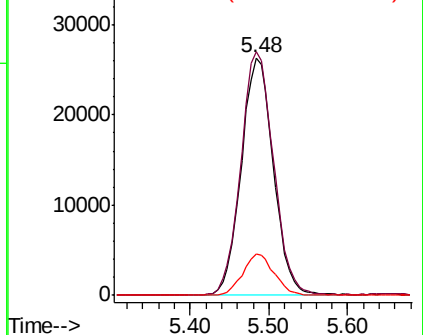
192 17.0 22.5 33.7#



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: 5.815 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

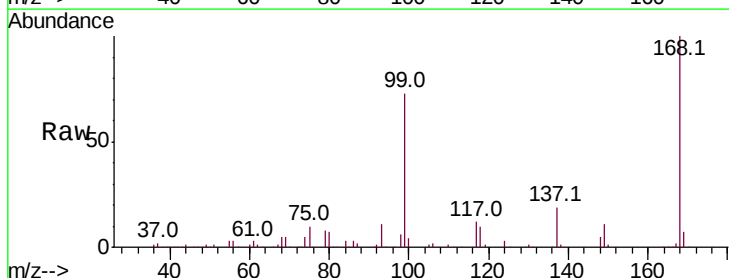
Tgt Ion: 75 Resp: 12859

Ion Ratio Lower Upper

75 100

110 10.4 19.5 58.5#

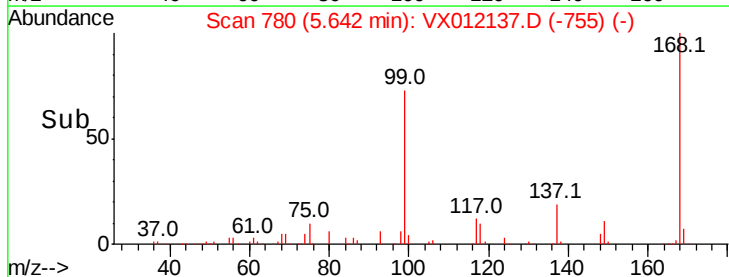
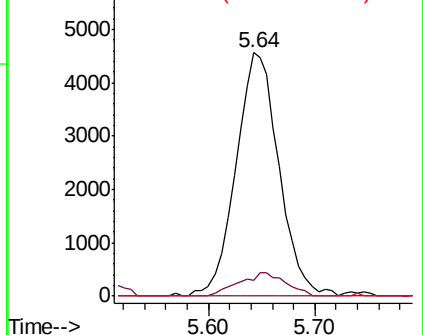
77 0.0 24.6 37.0#

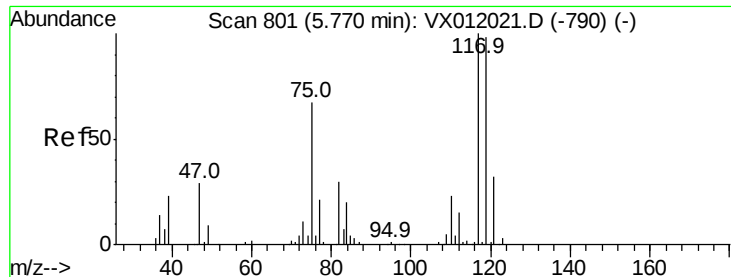


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

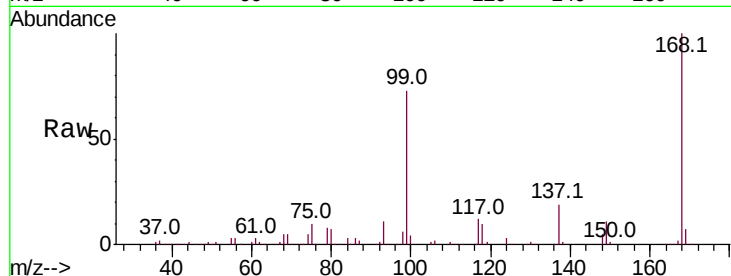




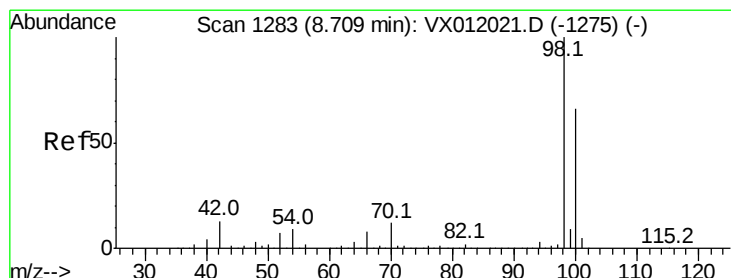
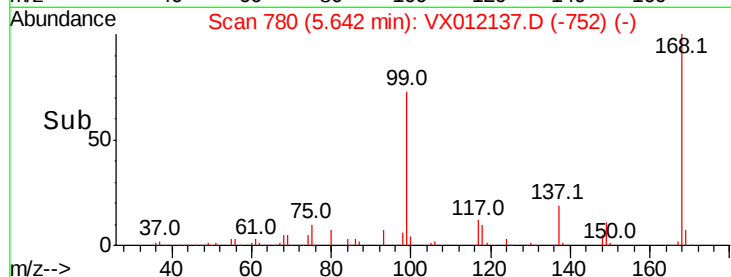
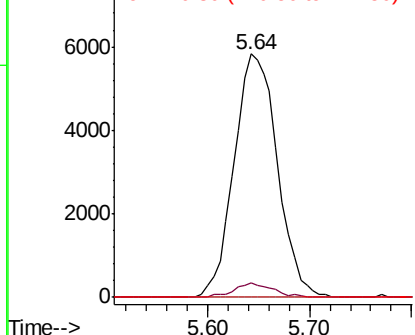
#38
Carbon Tetrachloride
Concen: 7.361 ug/l
RT: 5.64 min Scan# 780
Delta R.T. -0.13 min
Lab File: VX012137.D
Acq: 06 Sep 2019 09:23

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 17151
Ion Ratio Lower Upper
117 100
119 6.2 78.3 117.5#
121 0.0 24.2 36.2#

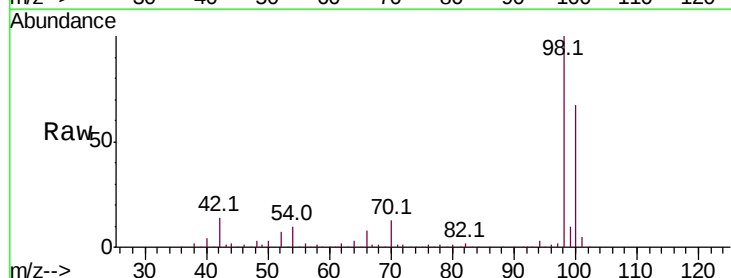


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

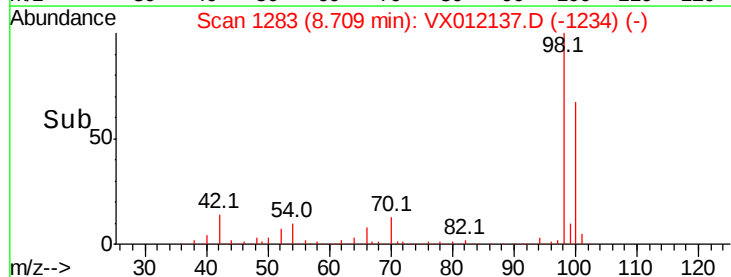
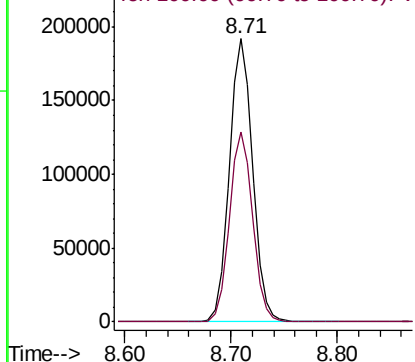


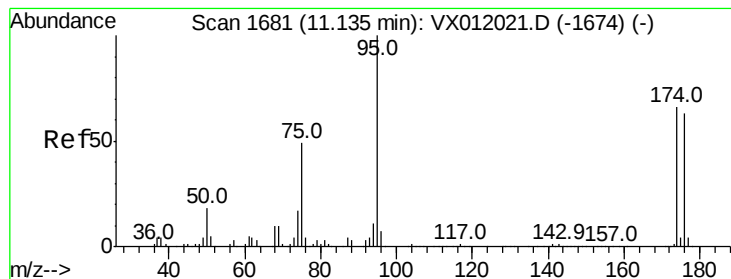
#50
Toluene-d8
Concen: 52.054 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012137.D
Acq: 06 Sep 2019 09:23

Tgt Ion: 98 Resp: 294929
Ion Ratio Lower Upper
98 100
100 66.9 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: 42.882 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

Instrument :

MSVOA_X

ClientSampleId :

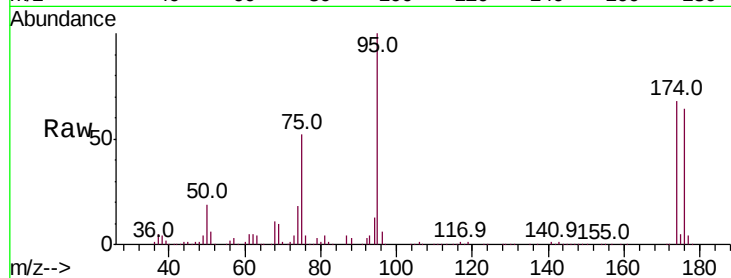
Tot Ion: 95 Resp: 112991

Ion Ratio Lower Upper

95 100

174 65.0 0.0 205.4

176 61.9 0.0 201.8

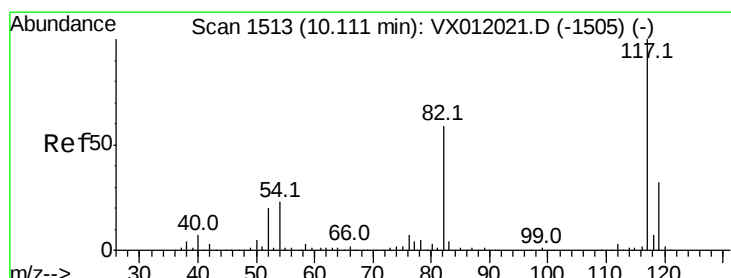
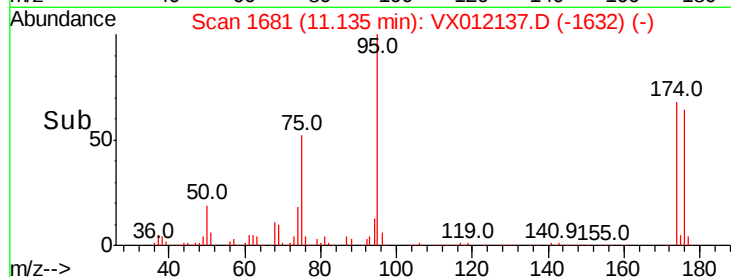


Abundance Ion 94.90 (94.60 to 95.60): VX012021.D (-1674) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

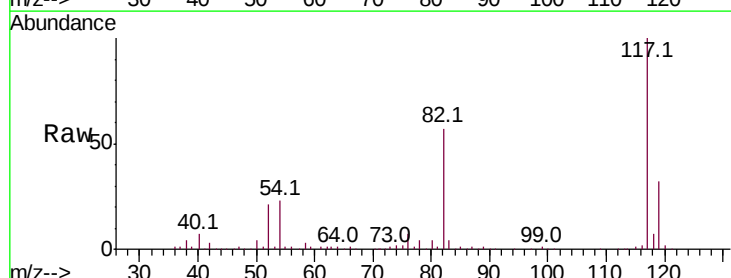
Tgt Ion: 117 Resp: 218736

Ion Ratio Lower Upper

117 100

82 57.0 39.4 59.0

119 32.3 26.1 39.1

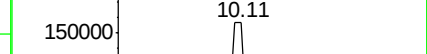
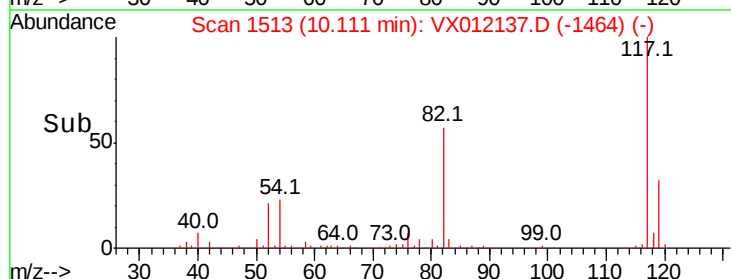


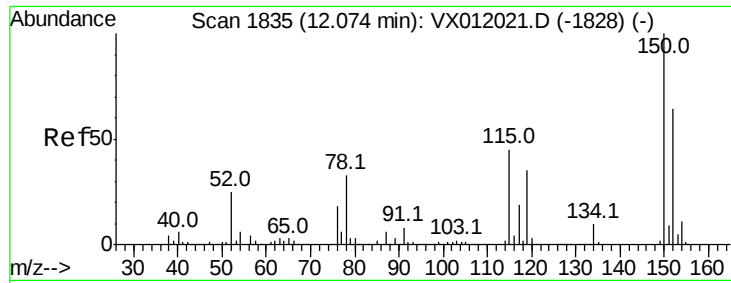
Abundance Ion 116.90 (116.60 to 117.60): VX012021.D (-1505) (-)

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

Ion 118.90 (118.60 to 119.60): VX012021.D (-1505) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012137.D

Acq: 06 Sep 2019 09:23

Instrument :

MSVOA_X

ClientSampleId :

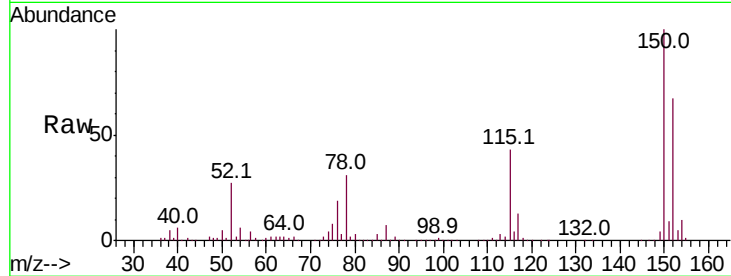
Tot Ion:152 Resp: 90112

Ion Ratio Lower Upper

152 100

115 65.5 36.4 109.3

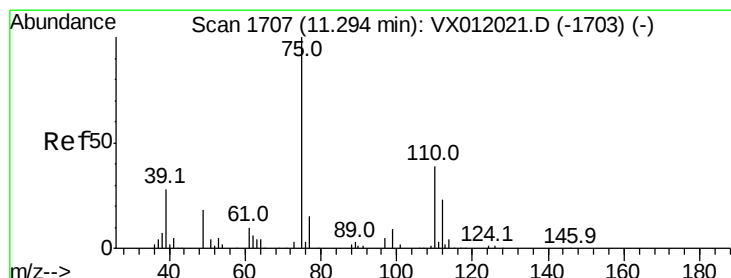
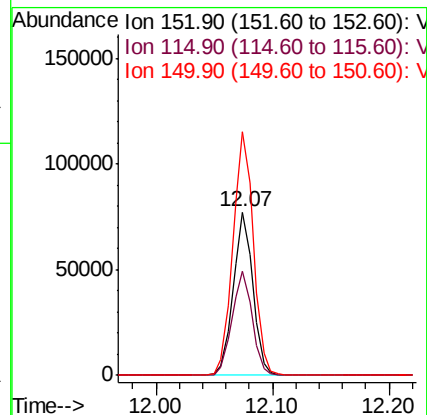
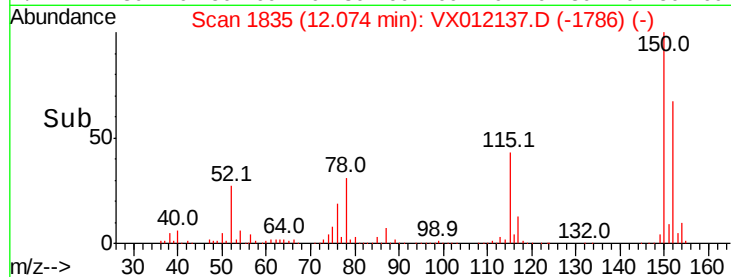
150 155.8 0.0 341.2



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: 54.379 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012137.D

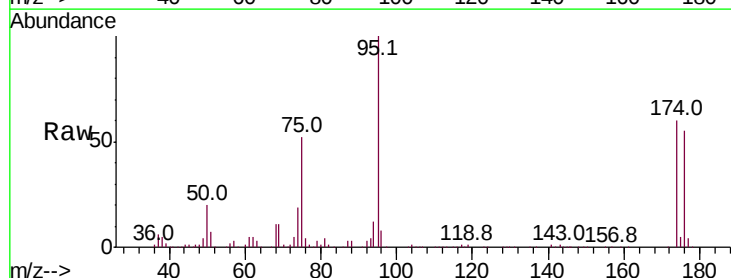
Acq: 06 Sep 2019 09:23

Tgt Ion: 75 Resp: 59873

Ion Ratio Lower Upper

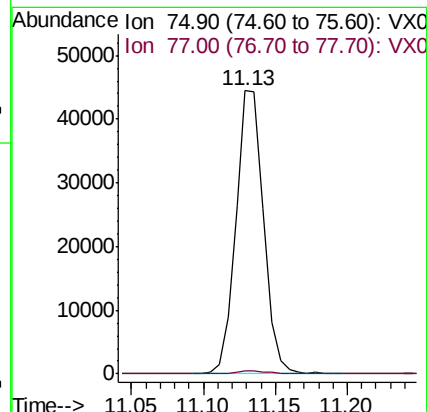
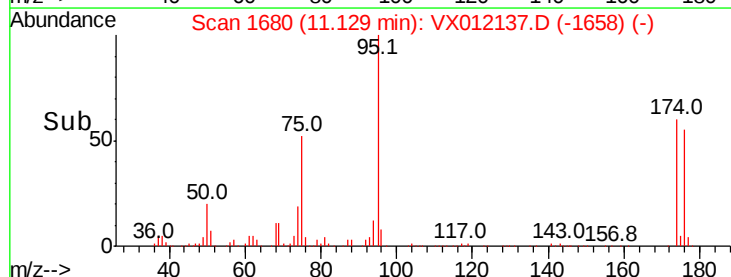
75 100

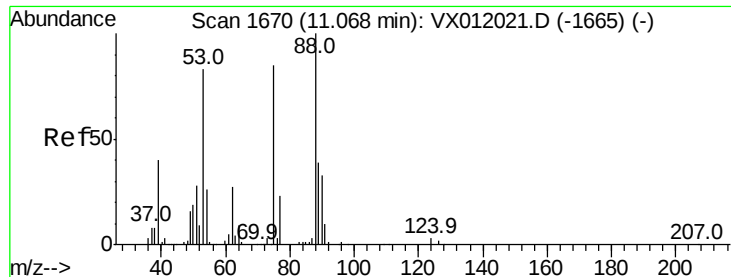
77 1.1 23.5 70.5#



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: 128.560 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX012137.D
 Acq: 06 Sep 2019 09:23

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 59873
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.6 117.8#
 89 0.0 38.8 58.2#

