

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014356.D
 Acq On : 30 Dec 2019 16:10
 Operator : JC/SP
 Sample : K6464-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FIELD-BLANK

Quant Time: Dec 31 01:19:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	525132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	827426	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	739368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	317643	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	296949	49.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.78%	
35) Dibromofluoromethane	5.49	113	248433	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
50) Toluene-d8	8.71	98	974461	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
62) 4-Bromofluorobenzene	11.13	95	321902	44.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.94%	

Target Compounds

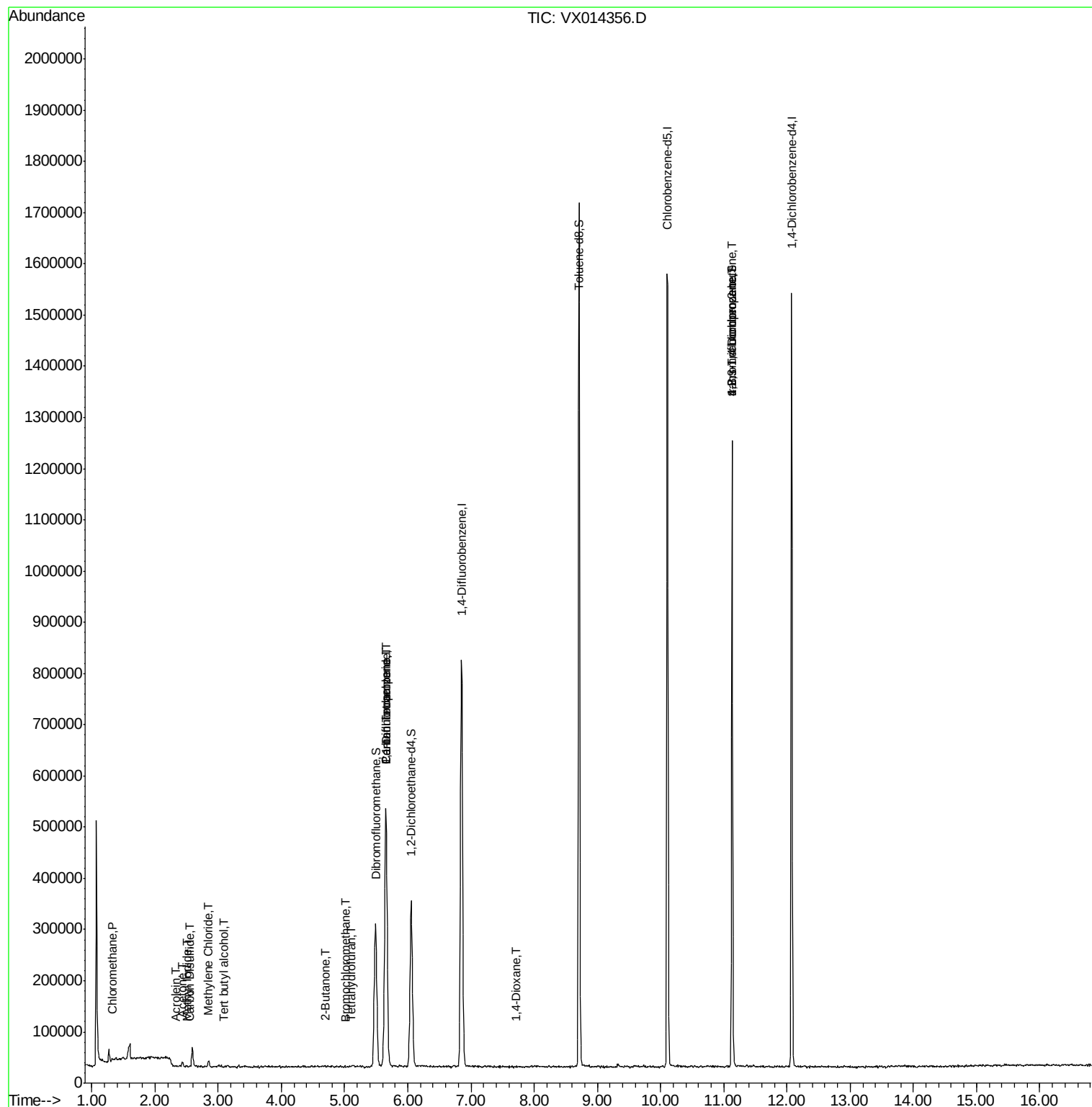
						Qvalue
3) Chloromethane	1.32	50	3228	0.512	ug/l	95
10) Methyl Iodide	2.51	142	982	2.763	ug/l	97
11) Tert butyl alcohol	3.09	59	284	0.221	ug/l #	1
13) Acrolein	2.32	56	421	0.572	ug/l #	1
16) Acetone	2.43	43	9700	2.510	ug/l	92
17) Carbon Disulfide	2.56	76	774	0.805	ug/l #	46
20) Methylene Chloride	2.85	84	6666	1.096	ug/l #	83
25) 2-Butanone	4.70	43	2745	0.576	ug/l	91
28) Bromochloromethane	5.02	49	366	0.548	ug/l #	47
29) Tetrahydrofuran	5.10	42	568	0.213	ug/l	90
36) 1,1-Dichloropropene	5.65	75	35417	4.665	ug/l #	51
38) Carbon Tetrachloride	5.65	117	45787	6.620	ug/l #	19
49) 1,4-Dioxane	7.73	88	706	5.106	ug/l #	65
76) 1,2,3-Trichloropropane	11.13	75	160693	23.302	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	160693	65.772	ug/l #	12

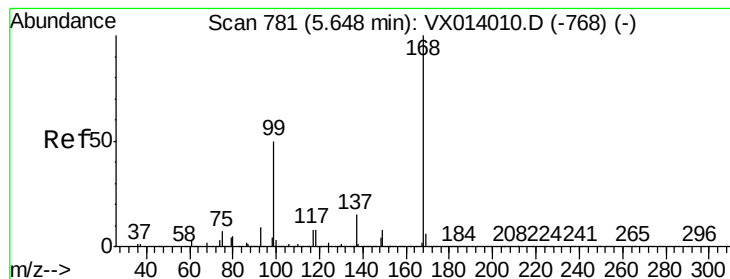
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 31 01:19:46 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

Instrument :

MSVOA_X

ClientSampleId :

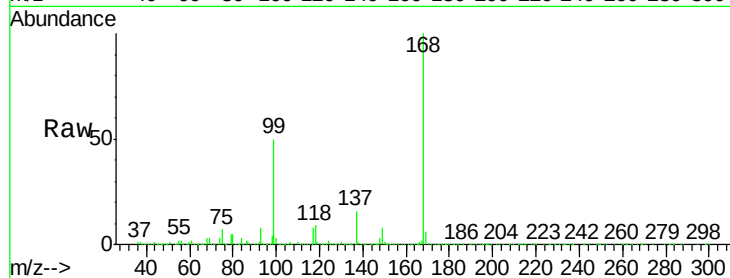
FIELD-BLANK

Tot Ion:168 Resp: 525132

Ion Ratio Lower Upper

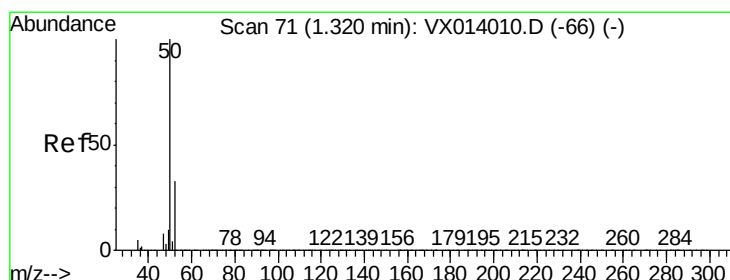
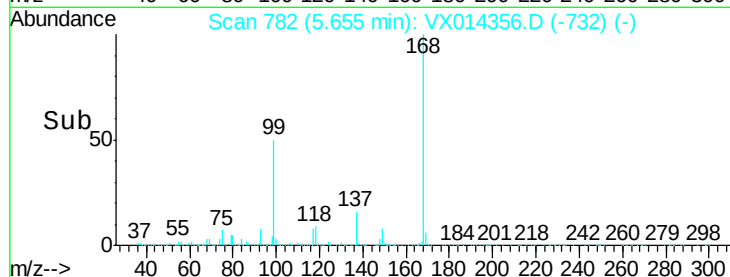
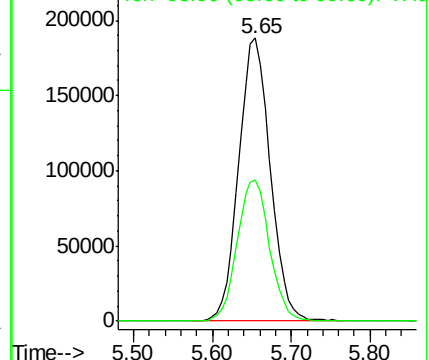
168 100

99 49.8 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.512 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014356.D

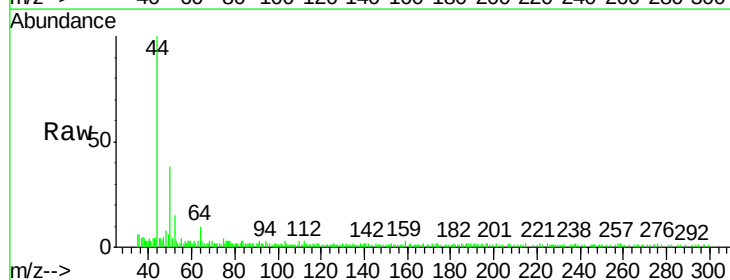
Acq: 30 Dec 2019 16:10

Tgt Ion: 50 Resp: 3228

Ion Ratio Lower Upper

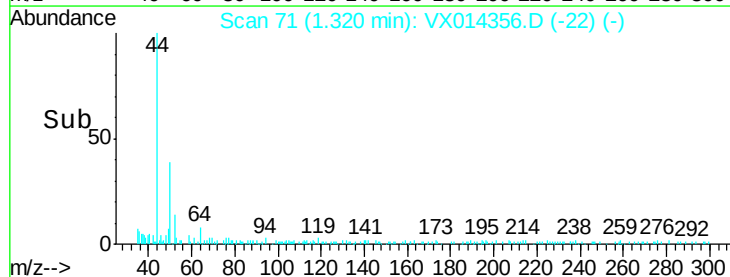
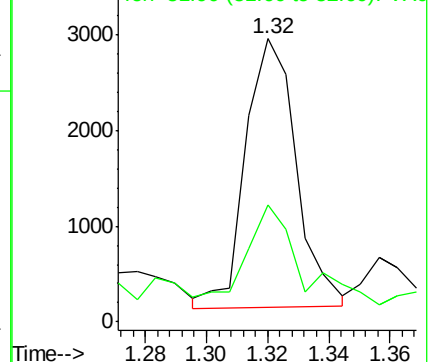
50 100

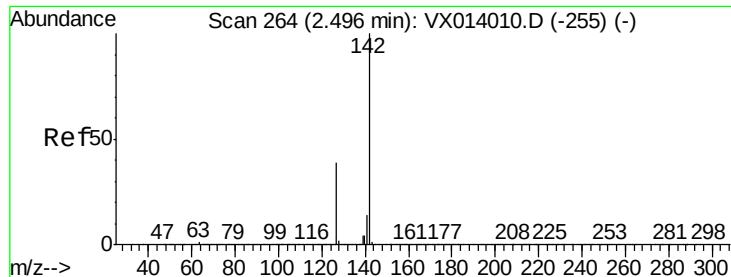
52 35.7 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#10

Methvl Iodide

Concen: 2.763 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

Instrument :

MSVOA_X

ClientSampled :

FIELD-BLANK

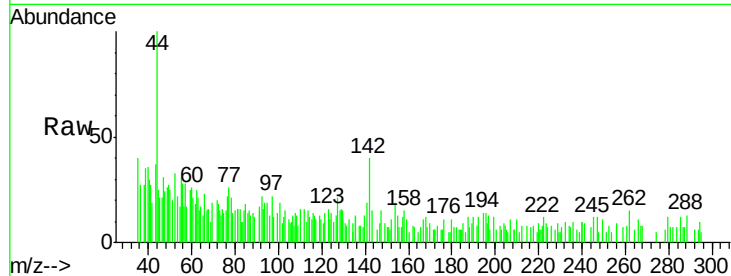
Tot Ion:142 Resp: 982

Ion Ratio Lower Upper

142 100

127 37.9 31.6 47.4

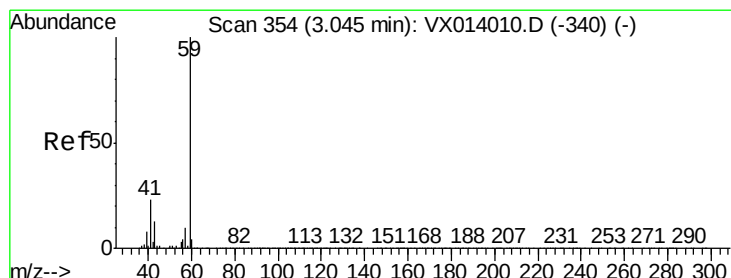
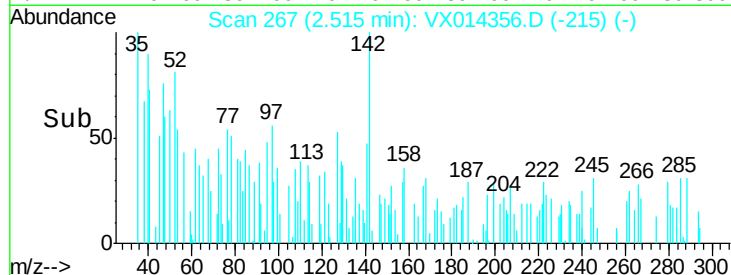
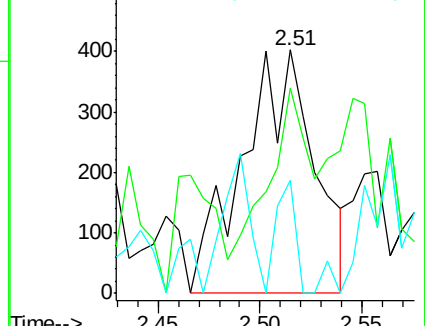
141 12.3 11.6 17.4



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: 0.221 ug/l

RT: 3.09 min Scan# 361

Delta R.T. 0.04 min

Lab File: VX014356.D

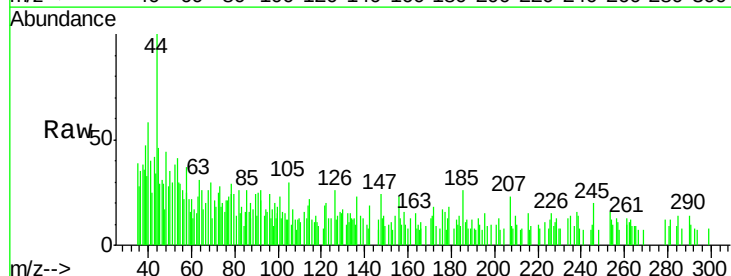
Acq: 30 Dec 2019 16:10

Tgt Ion: 59 Resp: 284

Ion Ratio Lower Upper

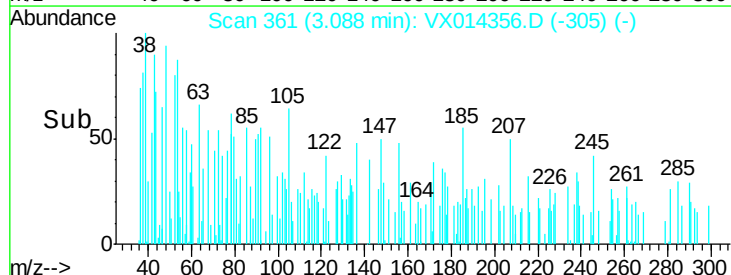
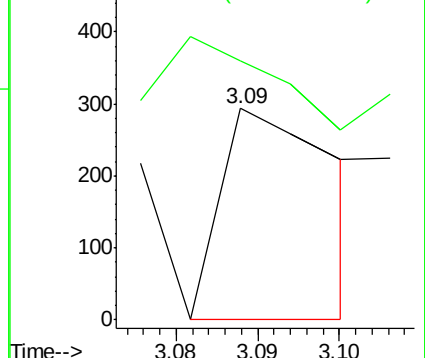
59 100

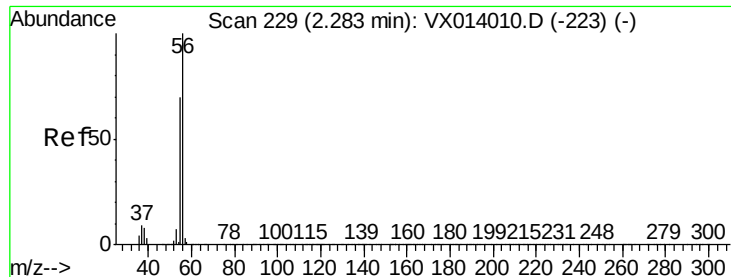
57 114.8 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.572 ug/l

RT: 2.32 min Scan# 235

Delta R.T. 0.04 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

Instrument :

MSVOA_X

ClientSampled :

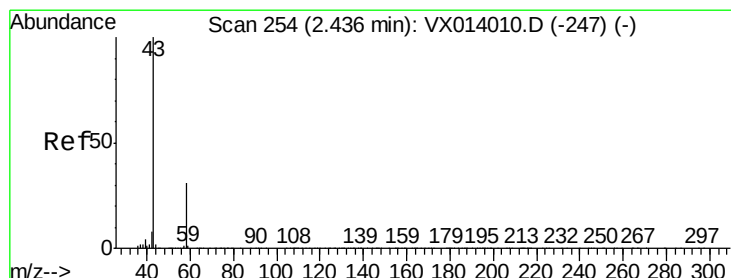
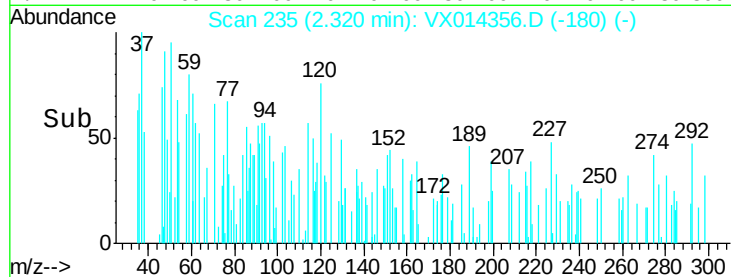
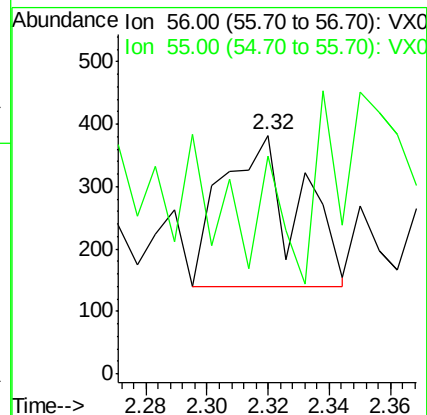
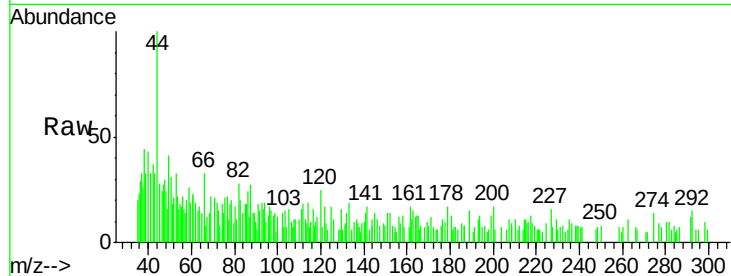
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Tot Ion: 56 Resp: 421

Ion Ratio Lower Upper

56 100

55 251.3 56.9 85.3#



#16

Acetone

Concen: 2.510 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014356.D

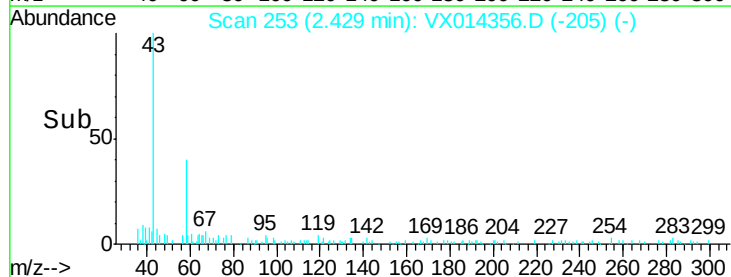
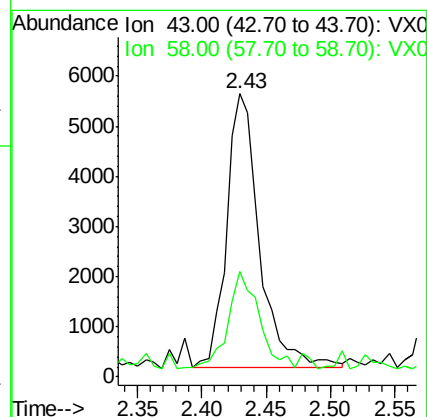
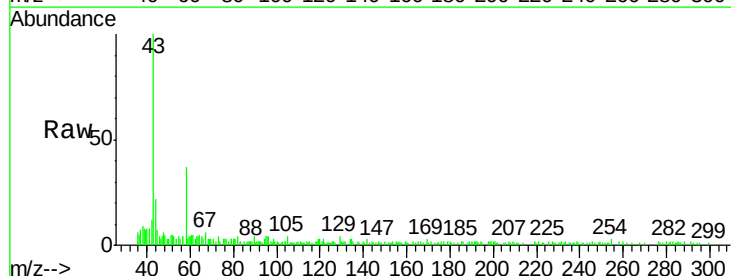
Acq: 30 Dec 2019 16:10

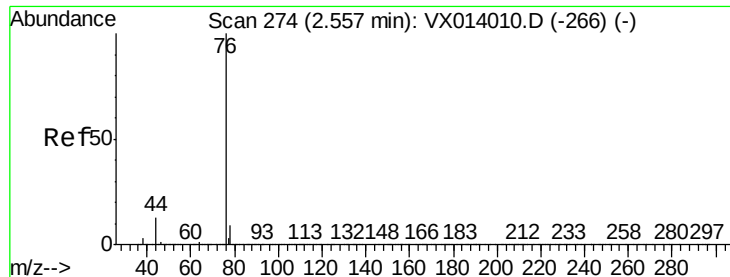
Tgt Ion: 43 Resp: 9700

Ion Ratio Lower Upper

43 100

58 35.3 24.9 37.3





#17

Carbon Disulfide

Concen: 0.805 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

Instrument :

MSVOA_X

ClientSampleId :

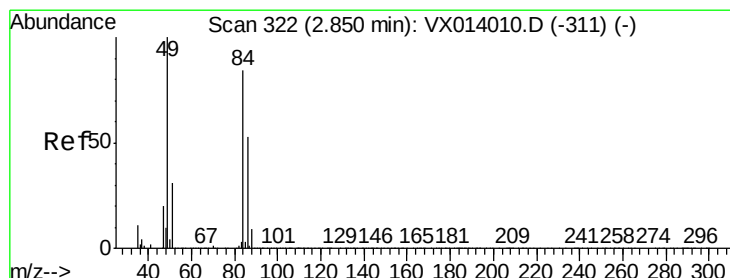
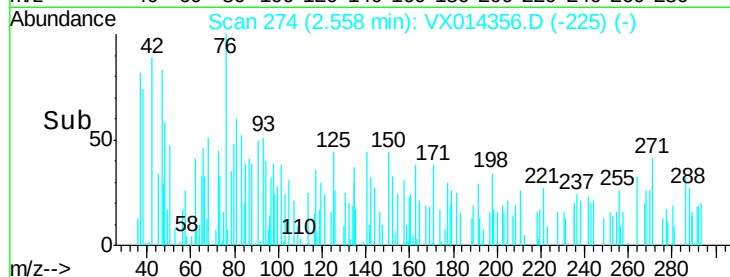
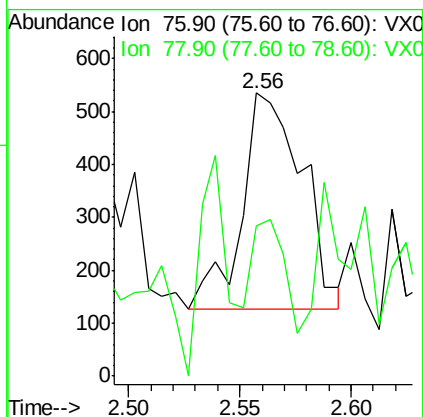
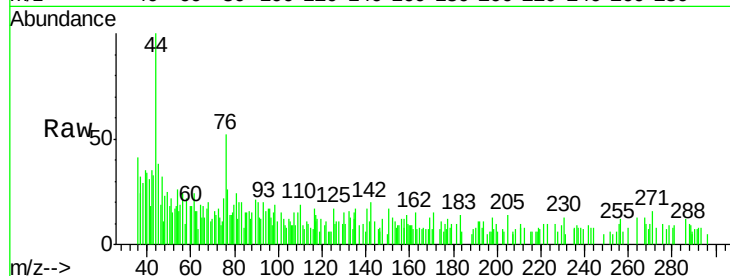
FIELD-BLANK

Tot Ion: 76 Resp: 774

Ion Ratio Lower Upper

76 100

78 28.4 7.2 10.8#



#20

Methylene Chloride

Concen: 1.096 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

Tgt Ion: 84 Resp: 6666

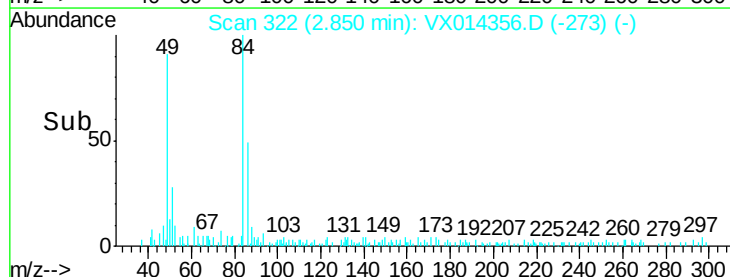
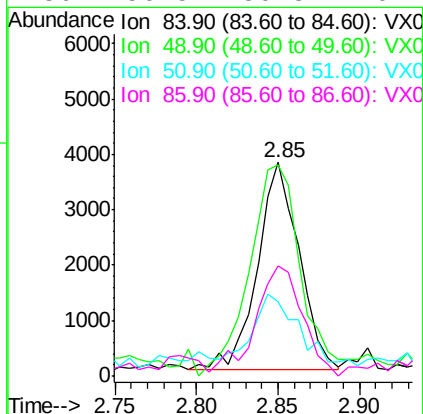
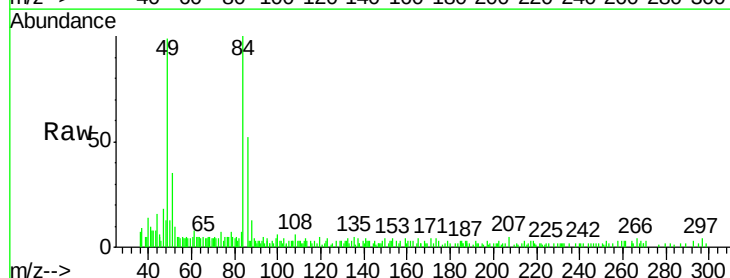
Ion Ratio Lower Upper

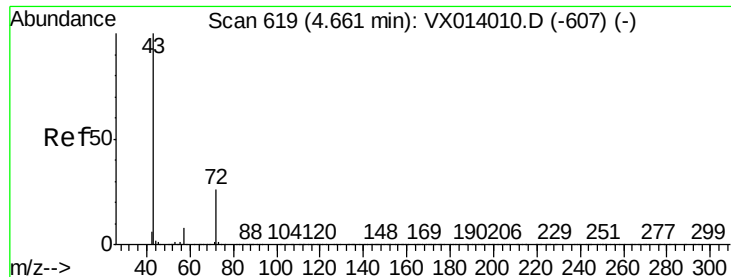
84 100

49 94.1 95.8 143.6#

51 29.0 29.8 44.8#

86 56.5 50.8 76.2





#25

2-Butanone

Concen: 0.576 ug/l

RT: 4.70 min Scan# 625

Delta R.T. 0.04 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

Instrument :

MSVOA_X

ClientSampled :

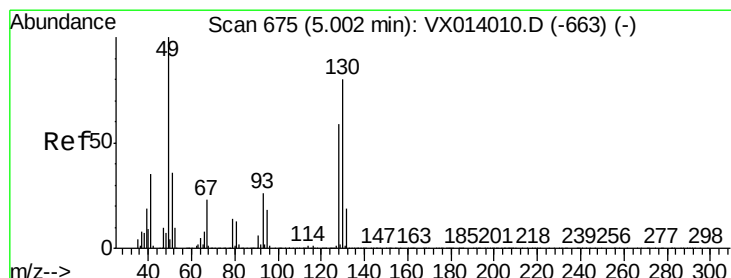
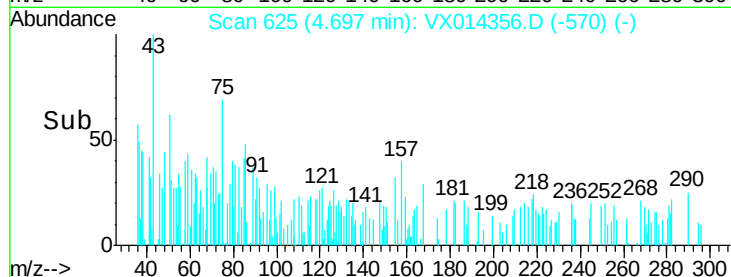
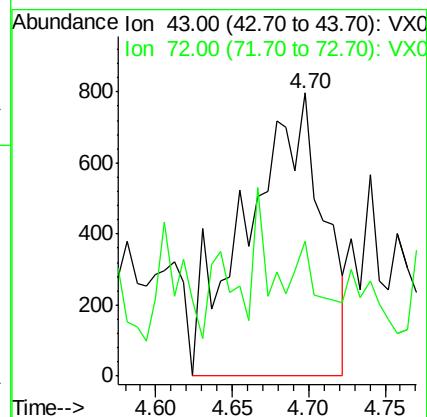
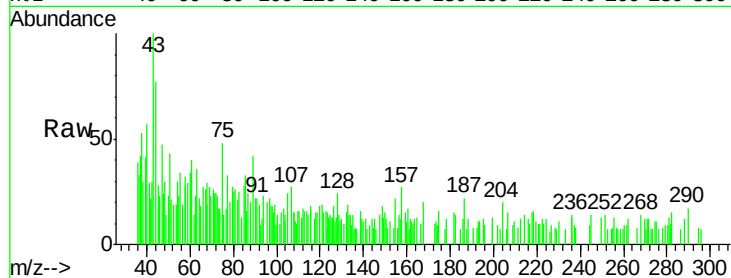
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Tot Ion: 43 Resp: 2745

Ion Ratio Lower Upper

43 100

72 21.8 21.0 31.4



#28

Bromochloromethane

Concen: 0.548 ug/l

RT: 5.02 min Scan# 678

Delta R.T. 0.02 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

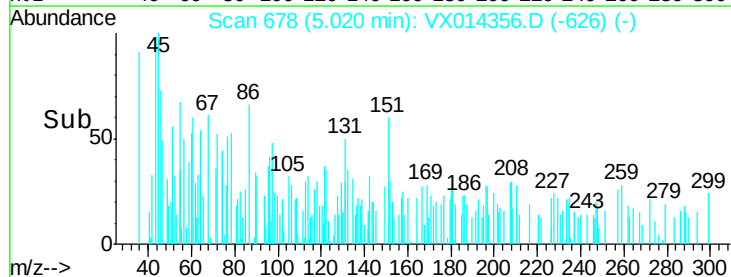
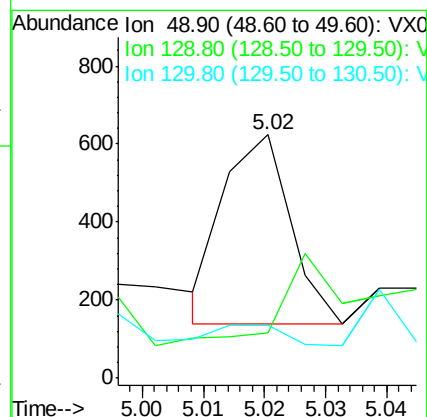
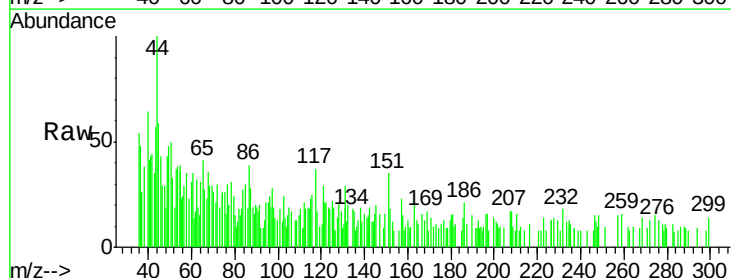
Tgt Ion: 49 Resp: 366

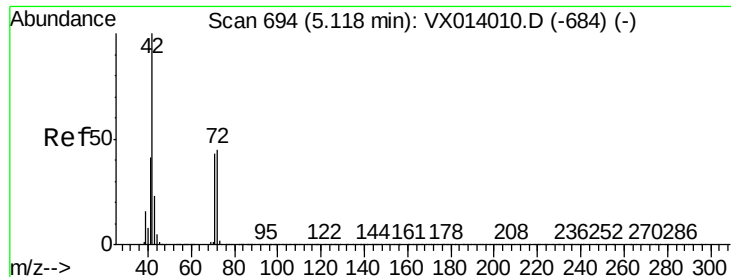
Ion Ratio Lower Upper

49 100

129 143.7 0.0 5.0#

130 43.7 64.6 97.0#





#29

Tetrahydrofuran

Concen: 0.213 ug/l

RT: 5.10 min Scan# 691

Delta R.T. -0.02 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

Instrument :

MSVOA_X

ClientSampled :

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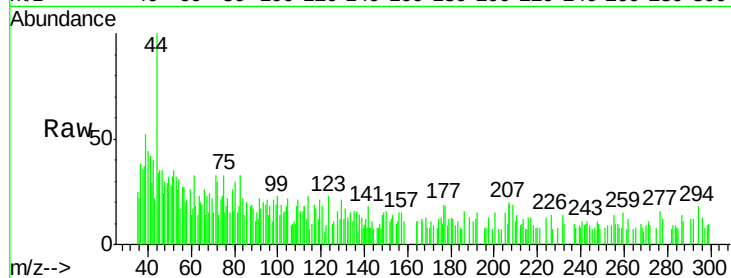
Tot Ion: 42 Resp: 568

Ion Ratio Lower Upper

42 100

72 40.1 35.8 53.8

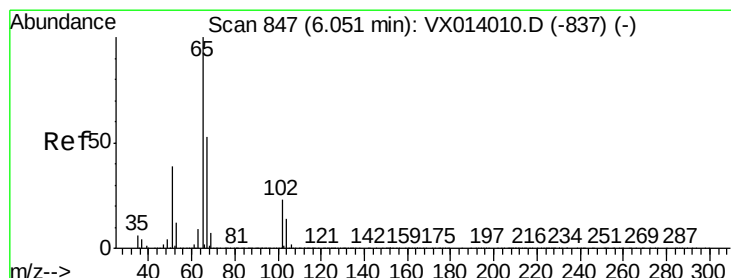
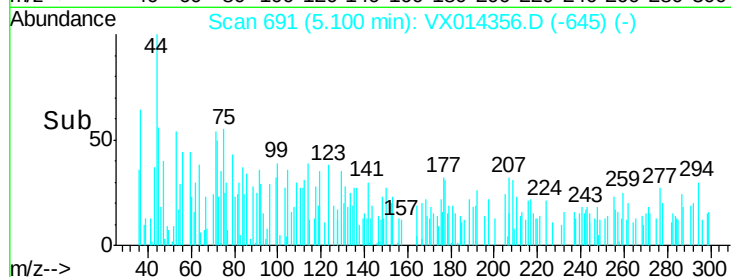
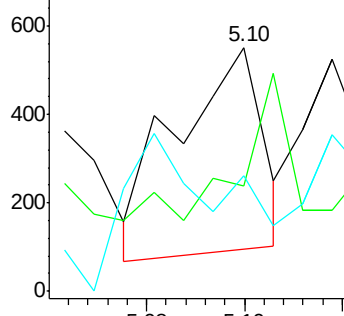
71 50.0 33.6 50.4



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



#33

1,2-Dichloroethane-d4

Concen: 49.894 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014356.D

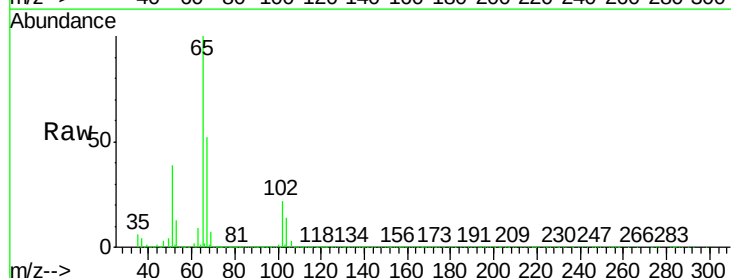
Acq: 30 Dec 2019 16:10

Tgt Ion: 65 Resp: 296949

Ion Ratio Lower Upper

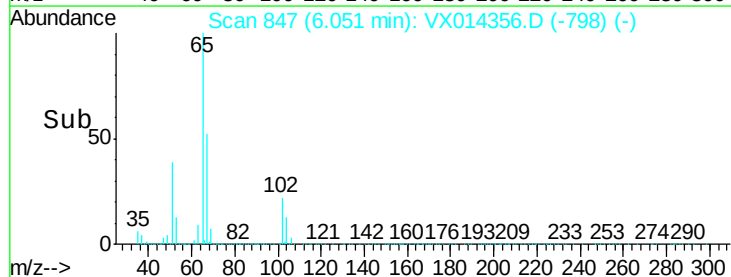
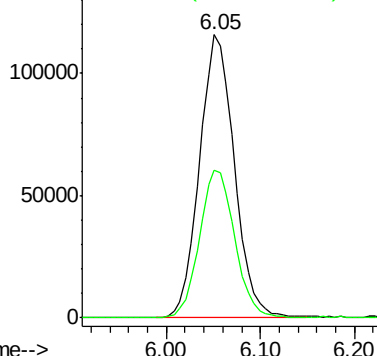
65 100

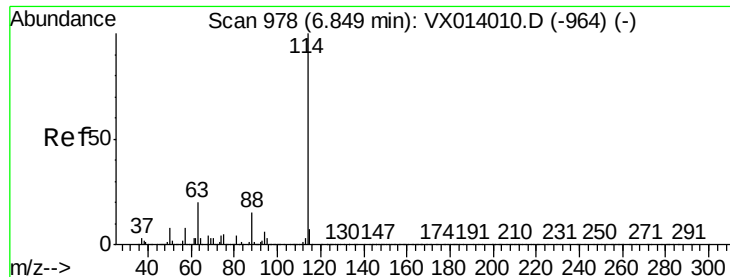
67 52.6 0.0 106.4



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: VX014356.D

Acq: 30 Dec 2019 16:10

Instrument :

MSVOA_X

ClientSampleId :

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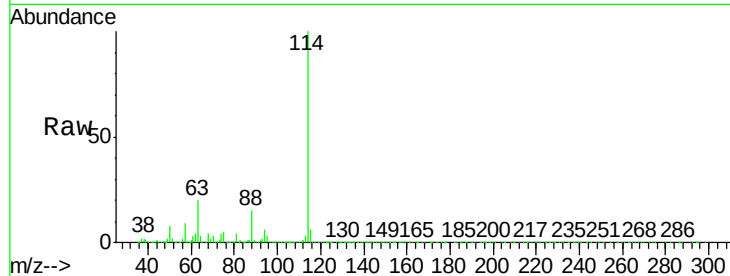
Tot Ion:114 Resp: 827426

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

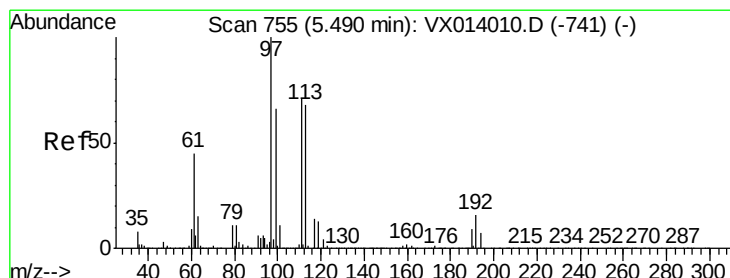
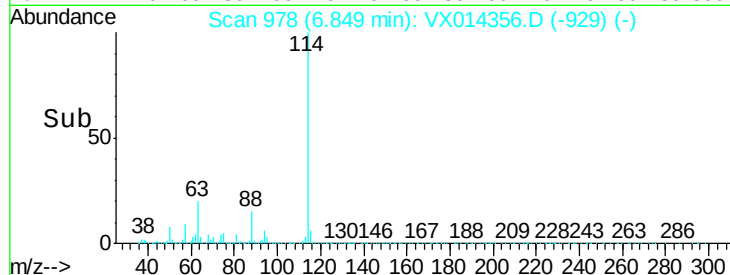
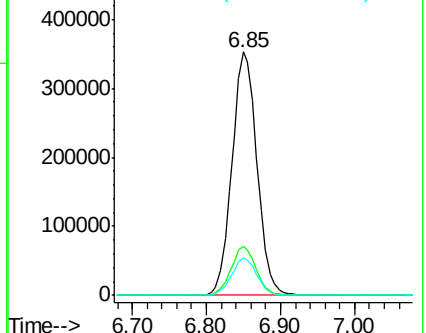
88 15.4 0.0 30.4



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: 49.392 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

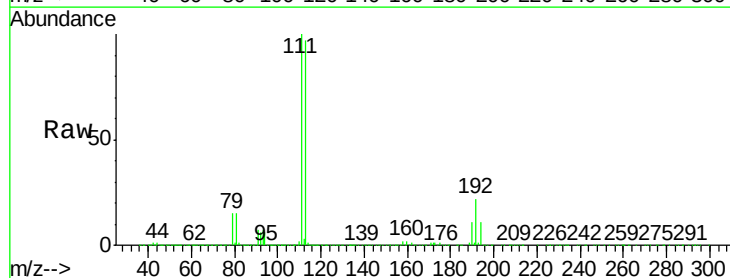
Tgt Ion:113 Resp: 248433

Ion Ratio Lower Upper

113 100

111 101.2 82.0 123.0

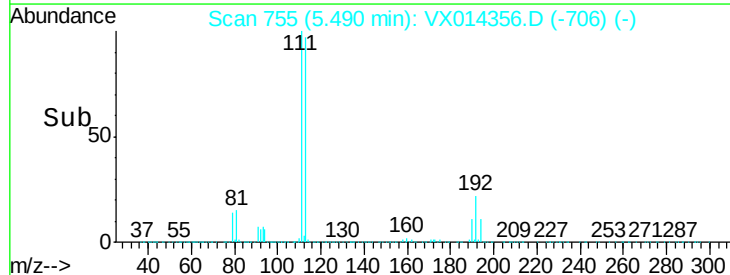
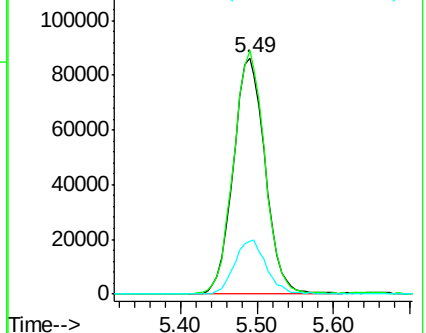
192 22.6 19.3 28.9

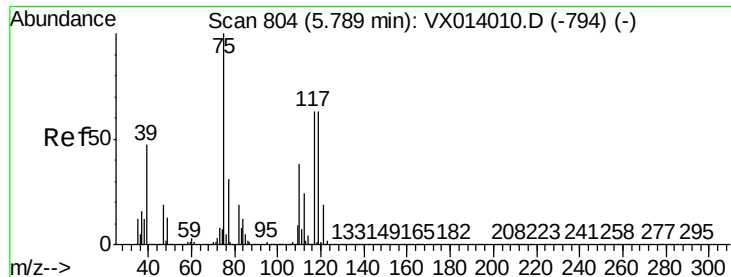


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.665 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

Instrument :

MSVOA_X

ClientSampleId :

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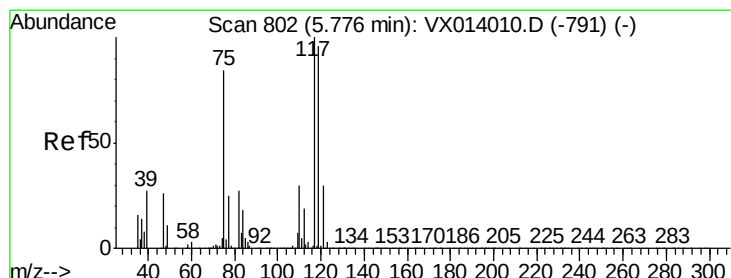
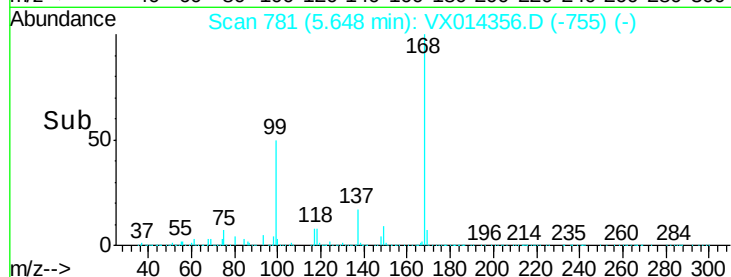
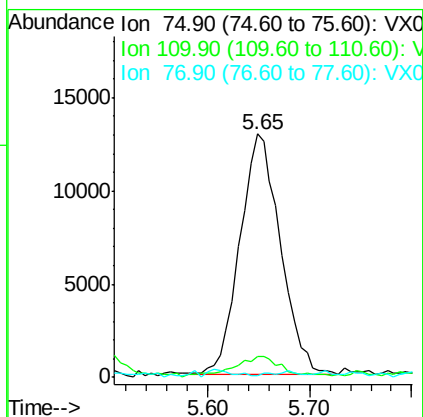
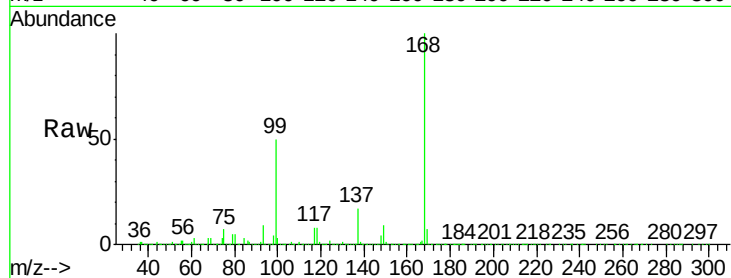
Tot Ion: 75 Resp: 35417

Ion Ratio Lower Upper

75 100

110 11.0 18.3 54.9#

77 0.7 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.620 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

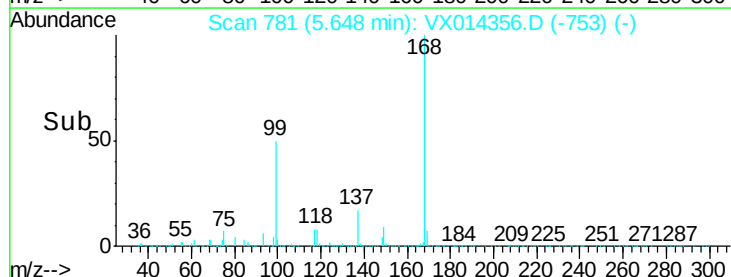
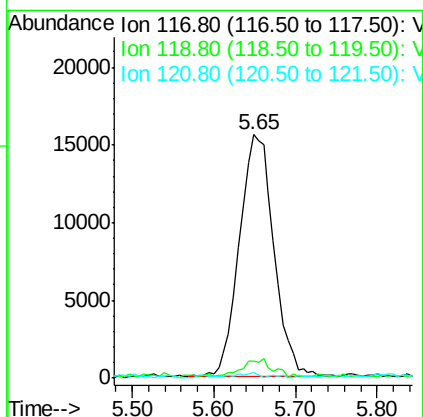
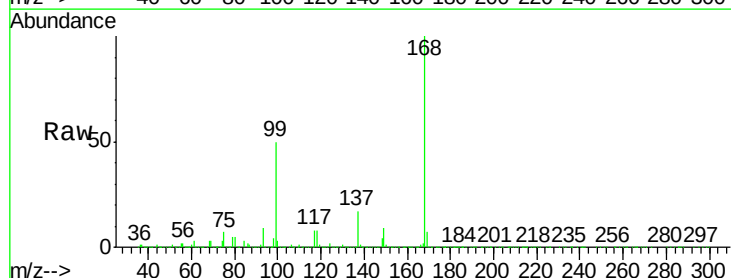
Tgt Ion: 117 Resp: 45787

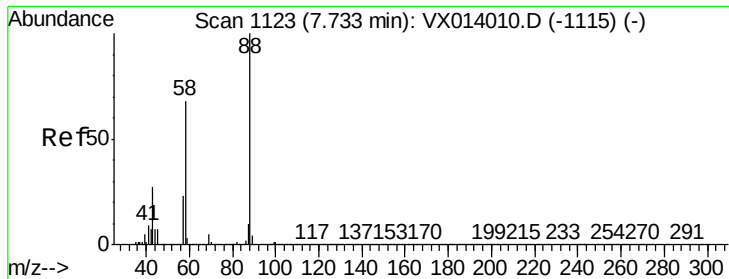
Ion Ratio Lower Upper

117 100

119 6.8 76.2 114.4#

121 2.3 23.6 35.4#

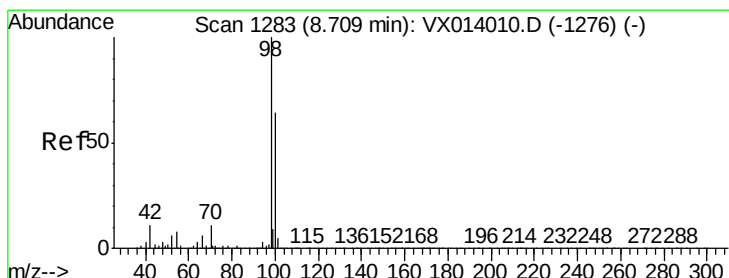
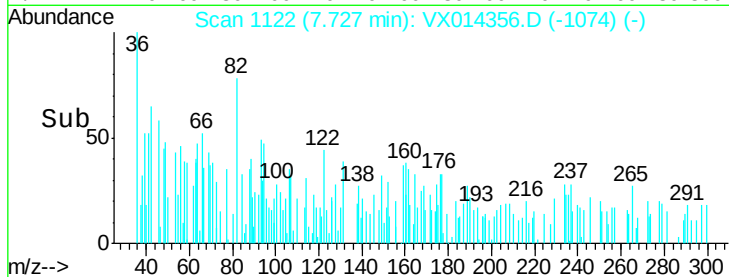
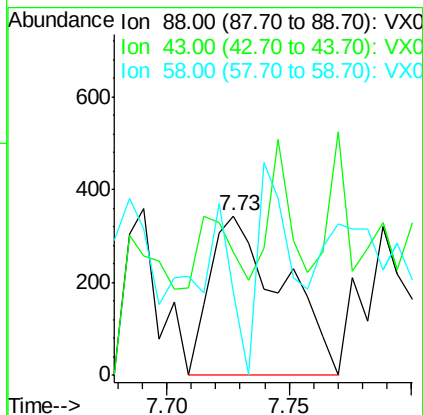
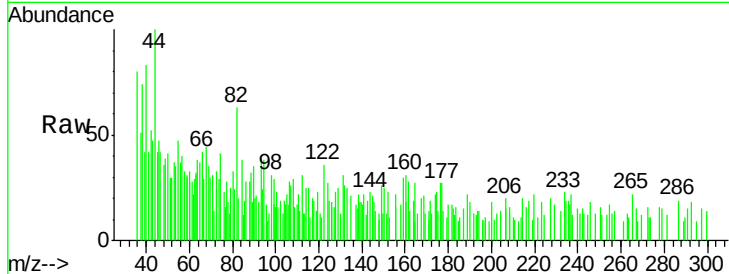




#49
1,4-Dioxane
Concen: 5.106 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VX014356.D
Acq: 30 Dec 2019 16:10

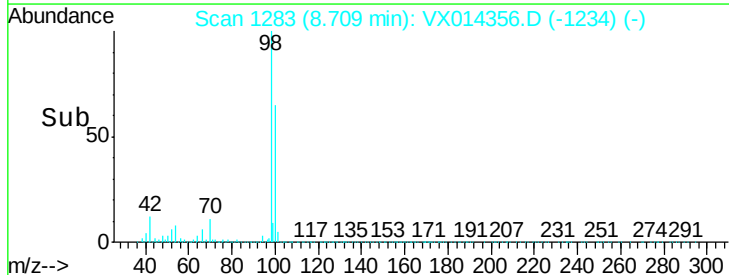
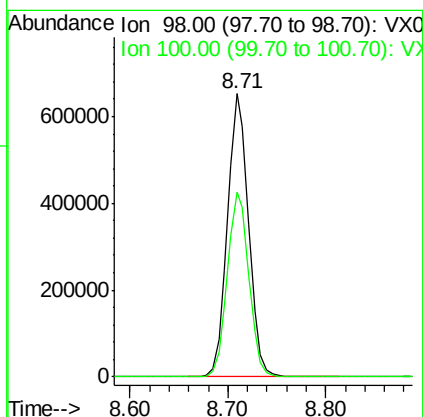
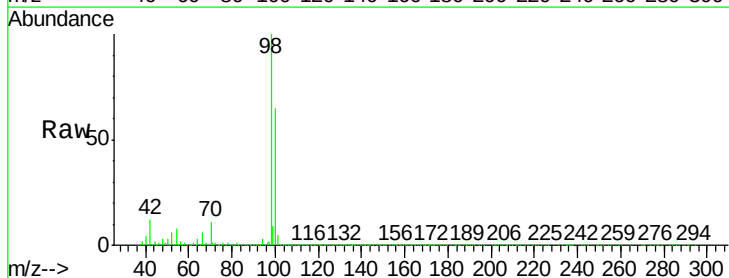
Instrument :
MSVOA_X
ClientSampleId :
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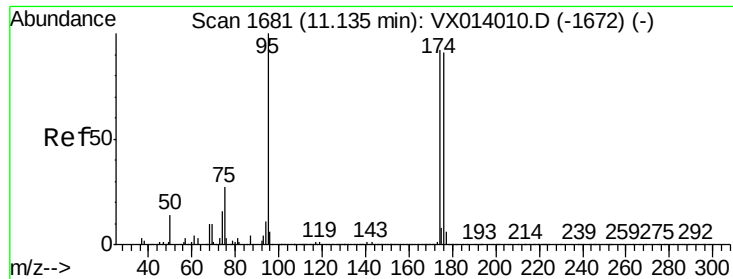
Tot Ion: 88 Resp: 706
Ion Ratio Lower Upper
88 100
43 62.7 26.5 39.7#
58 48.7 56.8 85.2#



#50
Toluene-d8
Concen: 49.762 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014356.D
Acq: 30 Dec 2019 16:10

Tgt Ion: 98 Resp: 974461
Ion Ratio Lower Upper
98 100
100 66.4 52.9 79.3

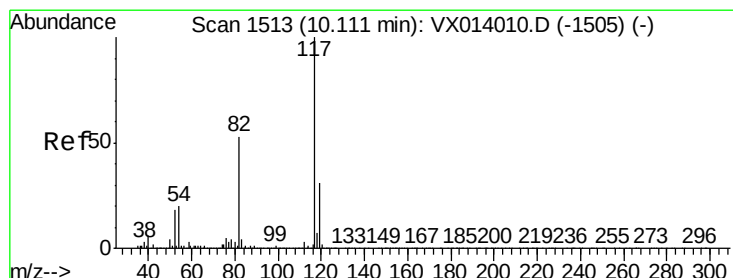
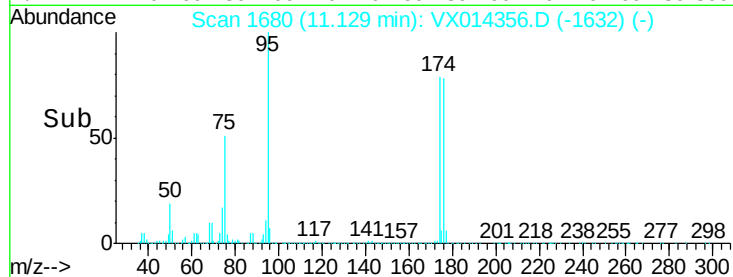
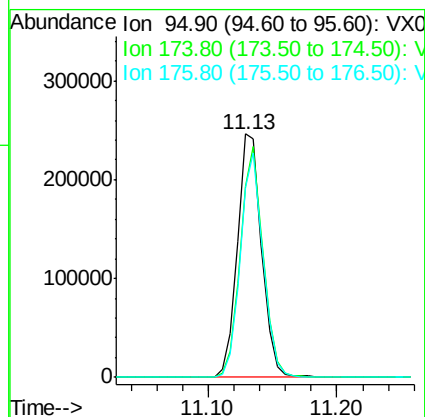
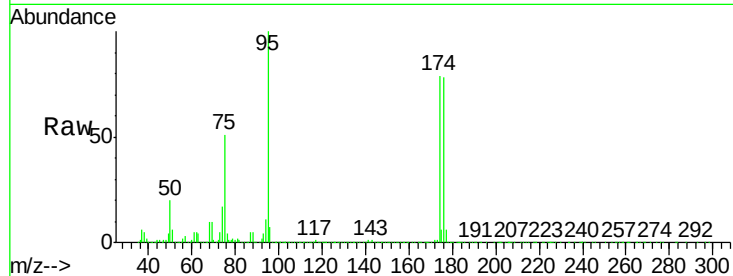




#62
4-Bromofluorobenzene
Concen: 44.969 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014356.D
Acq: 30 Dec 2019 16:10

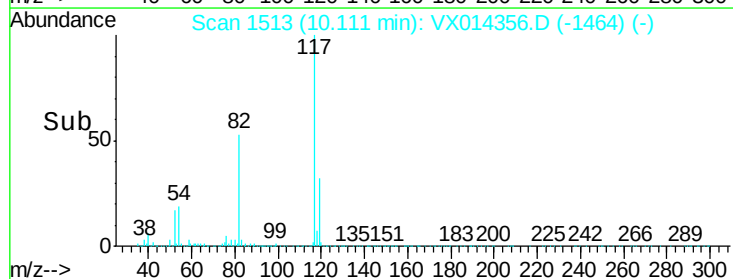
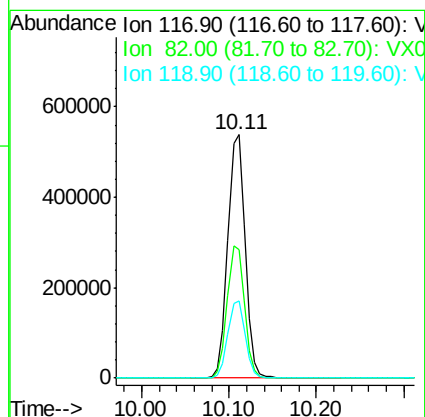
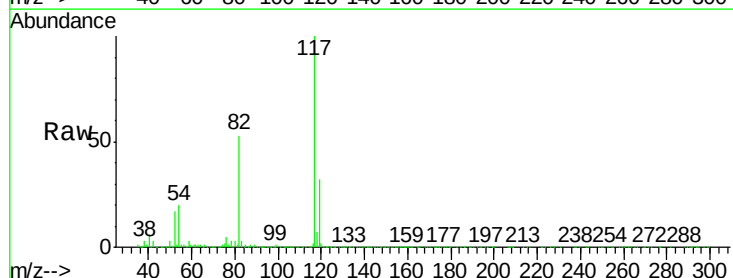
Instrument :
MSVOA_X
ClientSampleId :
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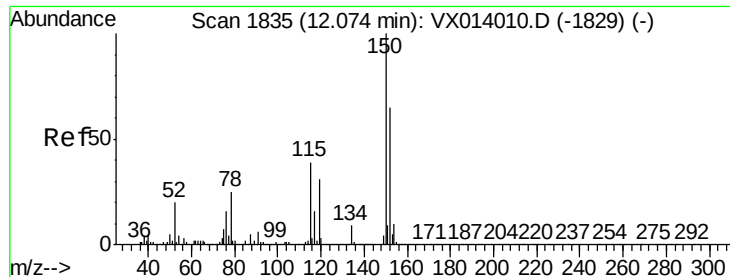
Tot Ion: 95 Resp: 321902
Ion Ratio Lower Upper
95 100
174 89.1 0.0 175.8
176 86.5 0.0 173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014356.D
Acq: 30 Dec 2019 16:10

Tgt Ion: 117 Resp: 739368
Ion Ratio Lower Upper
117 100
82 52.6 42.2 63.4
119 31.6 25.1 37.7

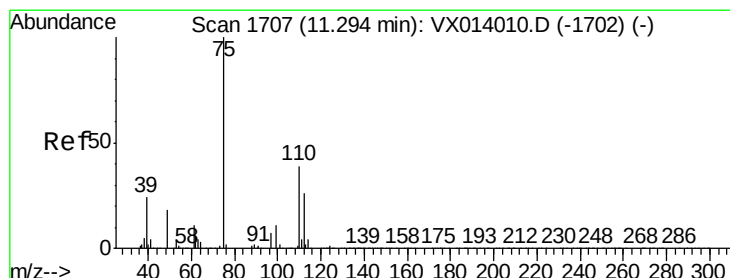
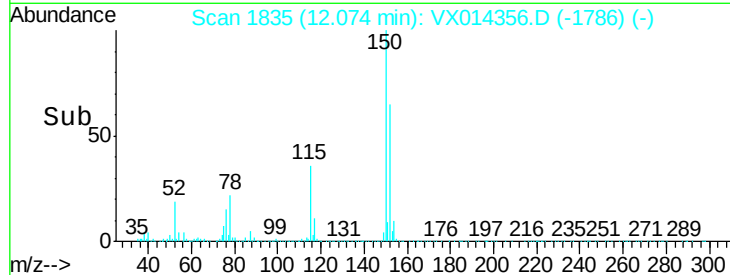
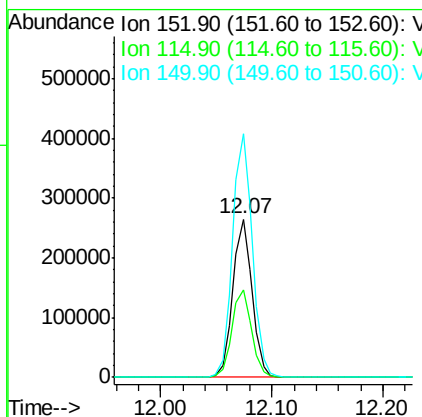
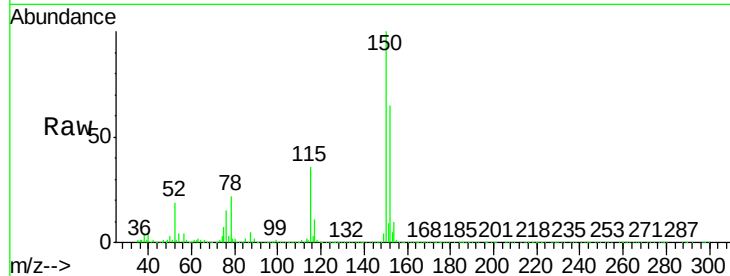




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX014356.D
 Acq: 30 Dec 2019 16:10

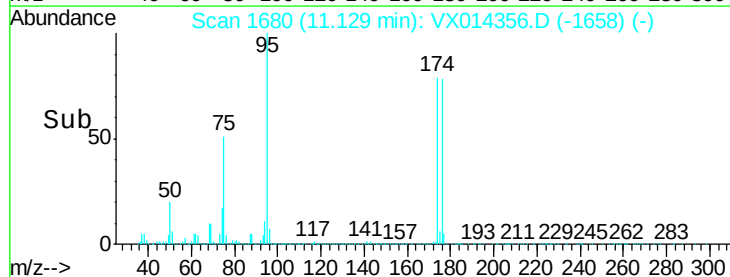
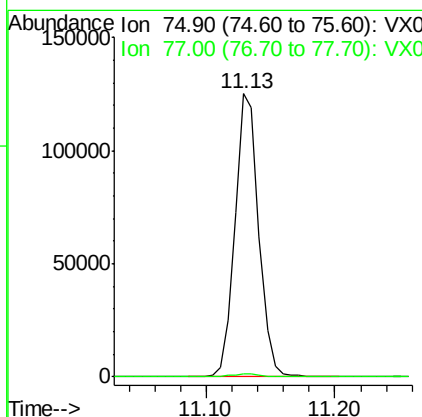
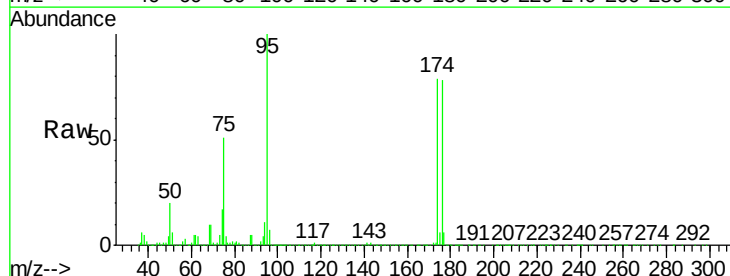
Instrument :
 MSVOA_X
 ClientSampled :
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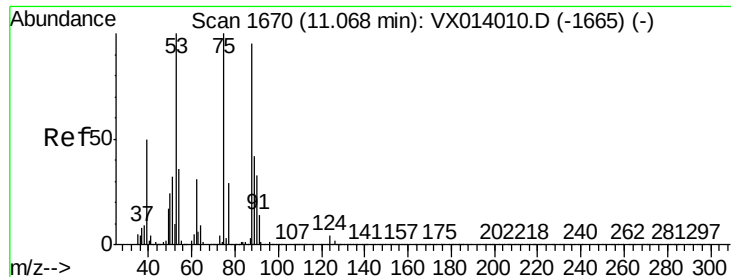
Tot Ion:152 Resp: 317643
 Ion Ratio Lower Upper
 152 100
 115 56.2 38.3 114.9
 150 156.7 0.0 345.4



#76
 1,2,3-Trichloropropane
 Concen: 23.302 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014356.D
 Acq: 30 Dec 2019 16:10

Tgt Ion: 75 Resp: 160693
 Ion Ratio Lower Upper
 75 100
 77 1.5 19.3 57.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 65.772 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014356.D

Acq: 30 Dec 2019 16:10

Instrument :

MSVOA_X

ClientSampleId :

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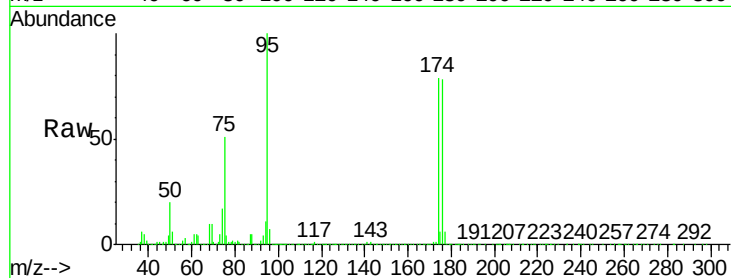
Tot Ion: 75 Resp: 160693

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 0.1 34.6 51.8#



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

