

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110119\
 Data File : VX013315.D
 Acq On : 01 Nov 2019 16:43
 Operator : JC/SP
 Sample : K5651-02 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 04 00:31:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	754368	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1148182	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1022976	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	483532	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	432110	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
35) Dibromofluoromethane	5.48	113	341167	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
50) Toluene-d8	8.71	98	1372545	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.13	95	459490	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	

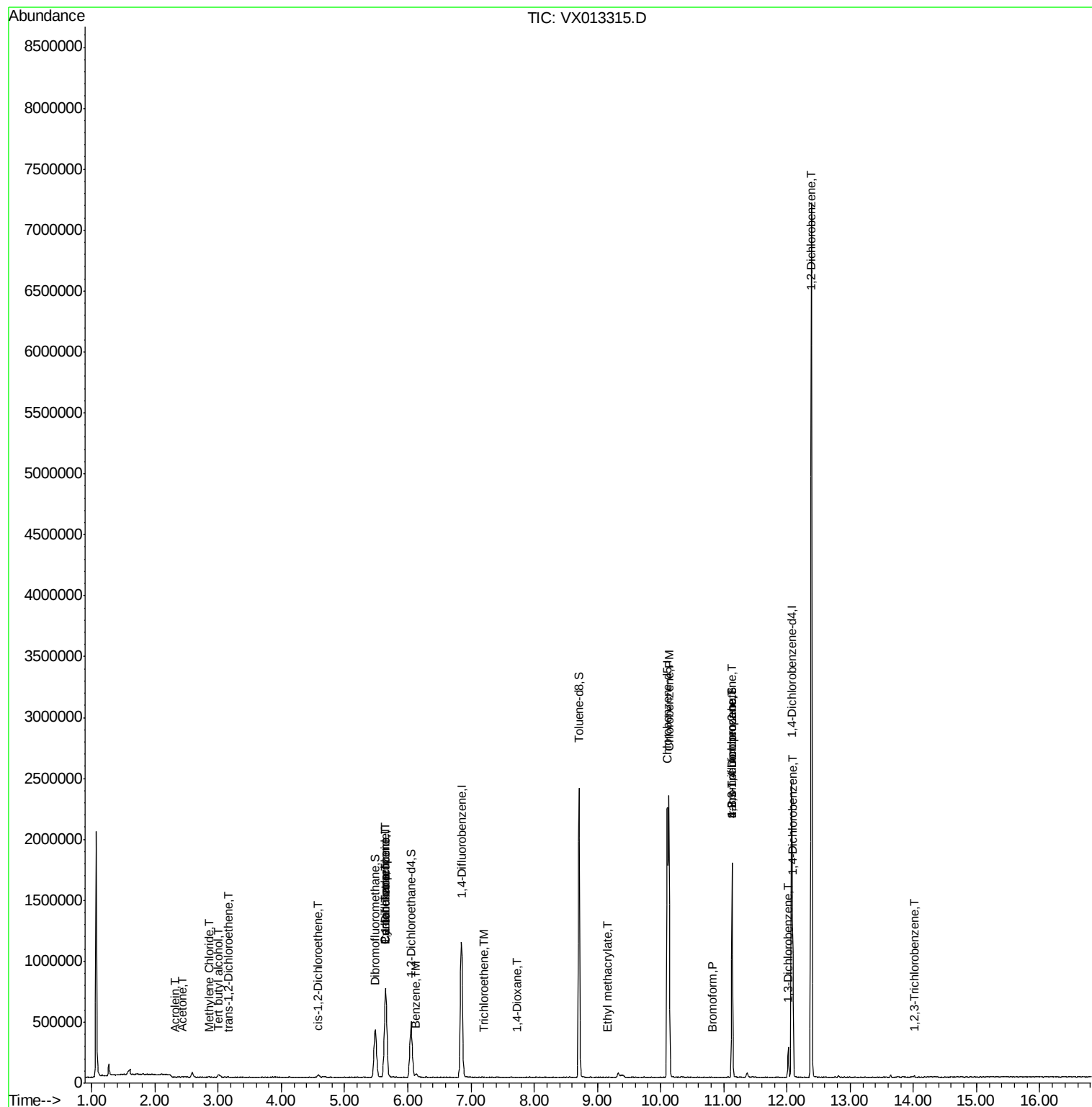
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	972	Below Cal	#	80
11) Tert butyl alcohol	3.00	59	17652	7.494	ug/l #	85
13) Acrolein	2.31	56	825	0.646	ug/l	88
16) Acetone	2.43	43	6964	1.562	ug/l	93
20) Methylene Chloride	2.84	84	2636	0.320	ug/l	86
21) trans-1,2-Dichloroethene	3.16	96	1549	0.206	ug/l #	83
27) cis-1,2-Dichloroethene	4.58	96	14982	1.775	ug/l	81
31) Cyclohexane	5.64	56	14601	1.195	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	49706	5.046	ug/l #	51
38) Carbon Tetrachloride	5.65	117	66006	6.853	ug/l #	17
40) Benzene	6.13	78	37620	1.226	ug/l	97
44) Trichloroethene	7.20	130	1797	0.213	ug/l	18
49) 1,4-Dioxane	7.73	88	196	0.905	ug/l #	1
56) Ethyl methacrylate	9.16	69	327	1.587	ug/l #	1
65) Chlorobenzene	10.14	112	1027699	49.622	ug/l	100
71) Bromoform	10.82	173	141	3.221	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	227273	23.141	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	227273	59.565	ug/l #	9
87) 1,3-Dichlorobenzene	12.02	146	84474	5.545	ug/l	99
88) 1,4-Dichlorobenzene	12.09	146	284932	18.357	ug/l	99
91) 1,2-Dichlorobenzene	12.38	146	2341298	153.748	ug/l	99
96) 1,2,3-Trichlorobenzene	14.01	180	3870	0.363	ug/l	95

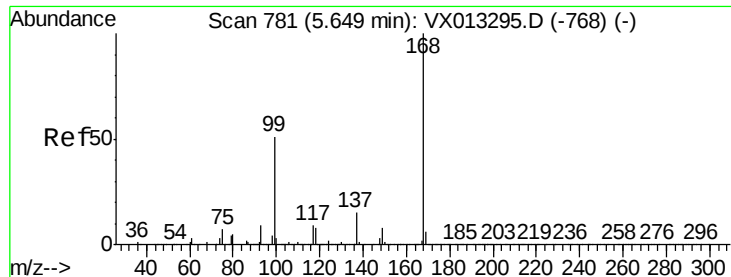
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 02 07:06:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

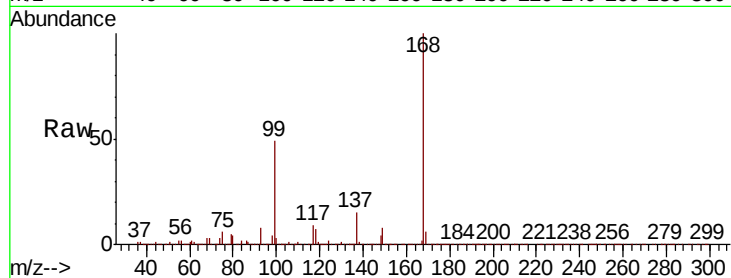
ClientSampleId :

Tot Ion:168 Resp: 754368

Ion Ratio Lower Upper

168 100

99 49.3 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

300000

250000

200000

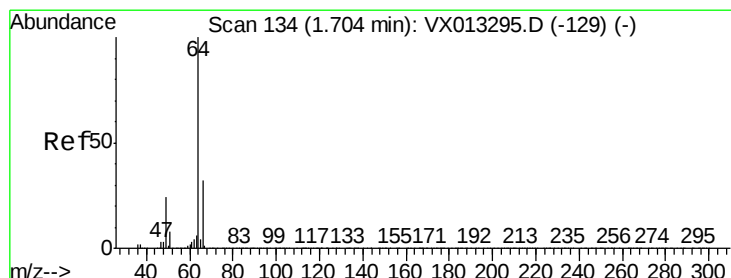
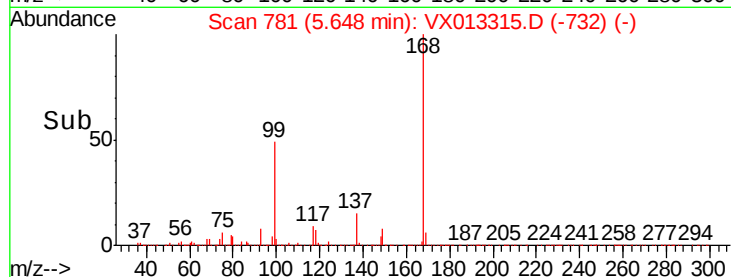
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.02 min

Lab File: VX013315.D

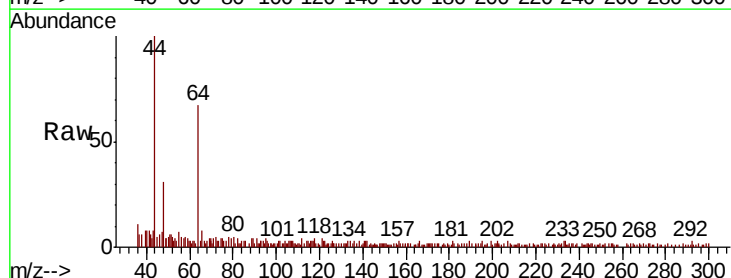
Acq: 01 Nov 2019 16:43

Tgt Ion: 64 Resp: 972

Ion Ratio Lower Upper

64 100

66 20.6 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

6000

5000

4000

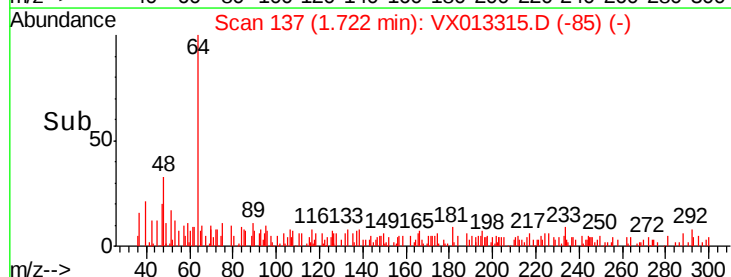
3000

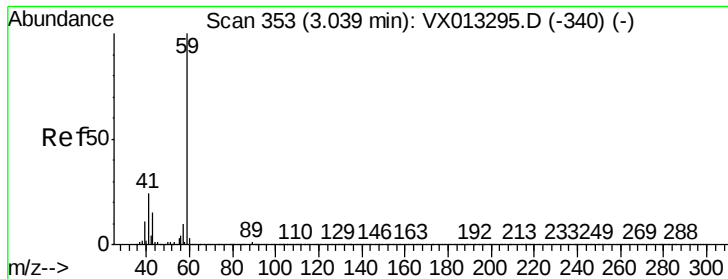
2000

1000

0

Time-->



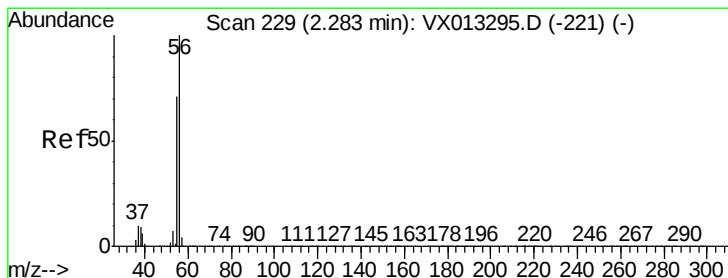
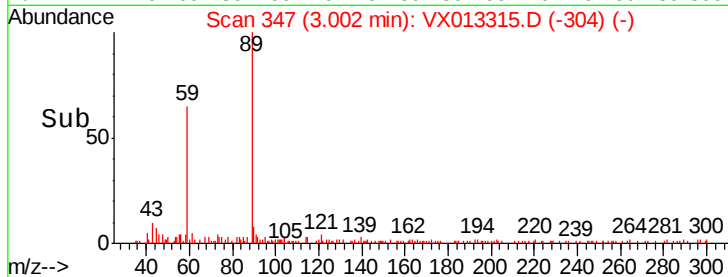
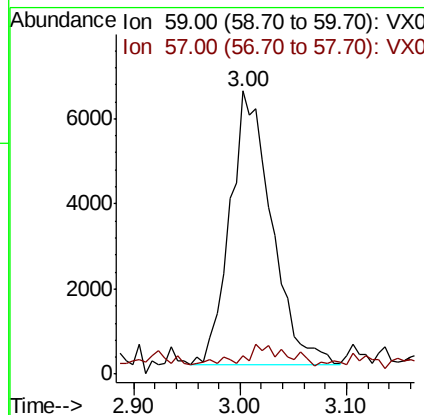
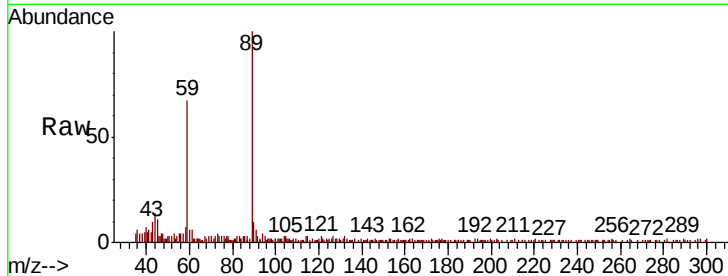


#11

Tert butyl alcohol
 Concen: 7.494 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX013315.D
 Acq: 01 Nov 2019 16:43

Instrument :
 MSVOA_X
 ClientSampleId :

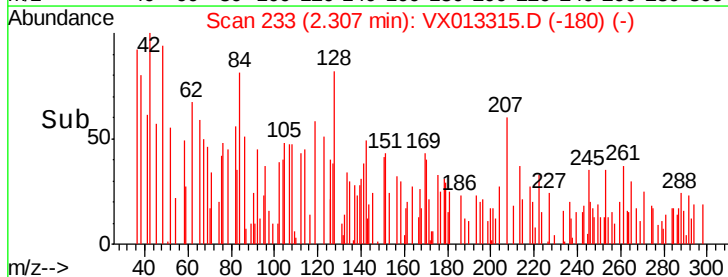
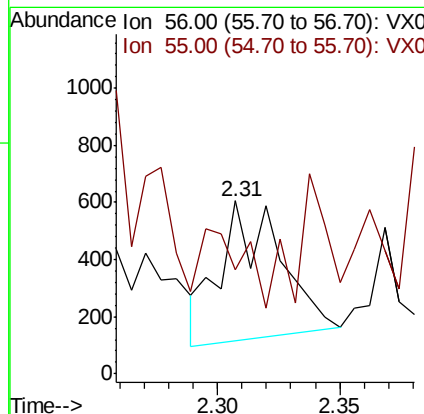
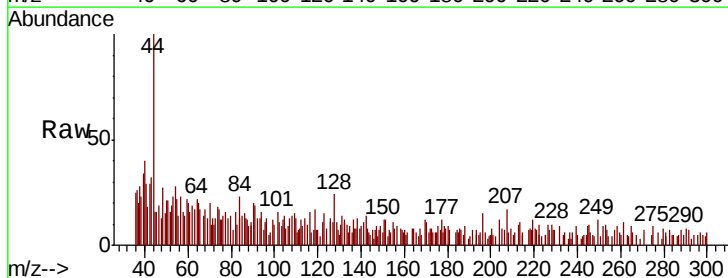
Tot Ion: 59 Resp: 17652
 Ion Ratio Lower Upper
 59 100
 57 4.6 8.0 12.0#

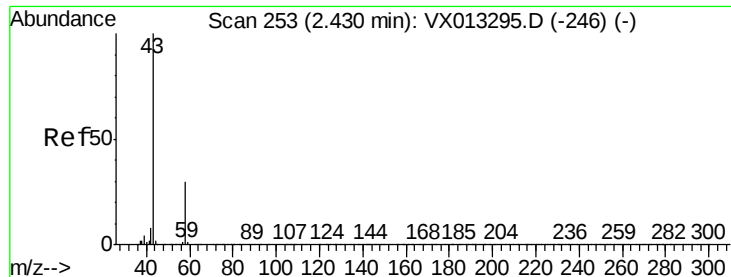


#13

Acrolein
 Concen: 0.646 ug/l
 RT: 2.31 min Scan# 233
 Delta R.T. 0.02 min
 Lab File: VX013315.D
 Acq: 01 Nov 2019 16:43

Tgt Ion: 56 Resp: 825
 Ion Ratio Lower Upper
 56 100
 55 62.1 57.4 86.0





#16

Acetone

Concen: 1.562 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

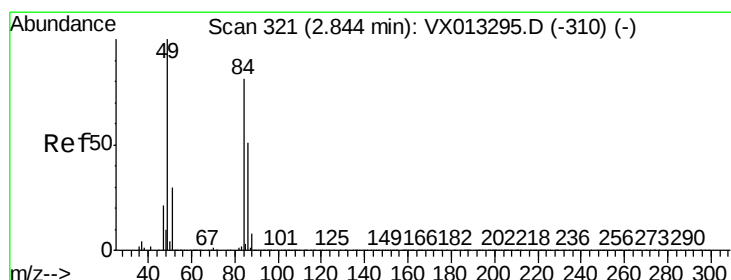
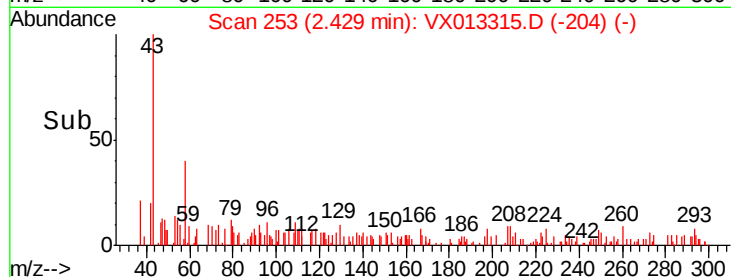
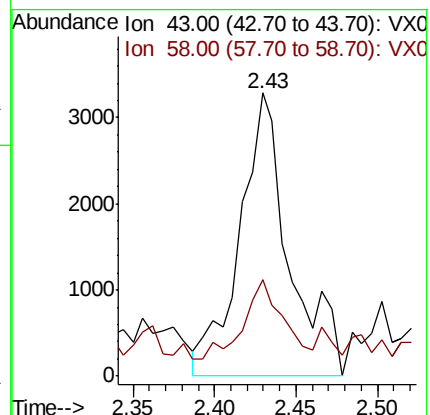
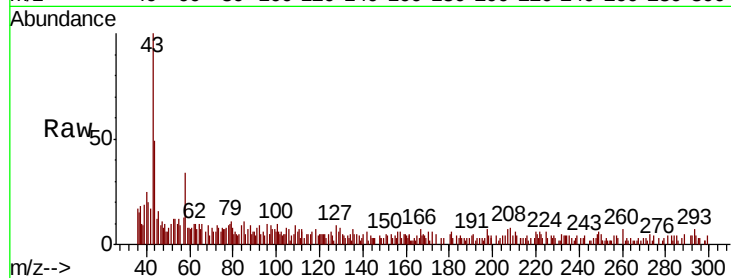
ClientSampleId :

Tot Ion: 43 Resp: 6964

Ion Ratio Lower Upper

43 100

58 26.8 24.3 36.5



#20

Methylene Chloride

Concen: 0.320 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Tgt Ion: 84 Resp: 2636

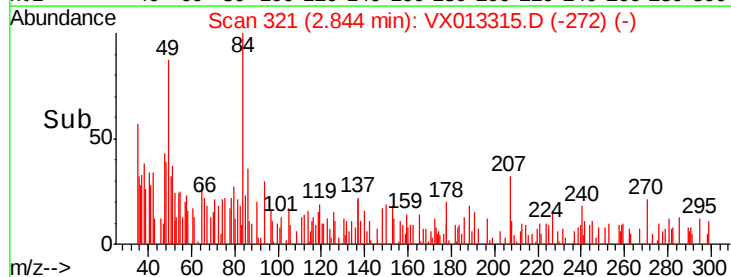
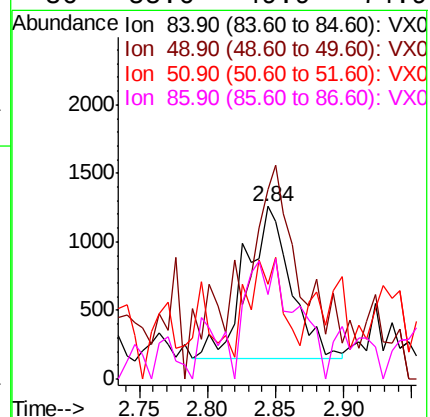
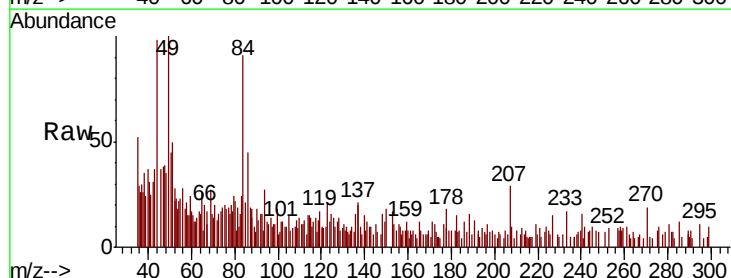
Ion Ratio Lower Upper

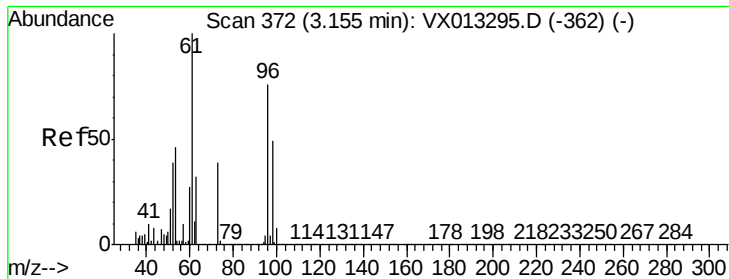
84 100

49 100.8 98.2 147.4

51 34.9 29.9 44.9

86 55.6 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 0.206 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

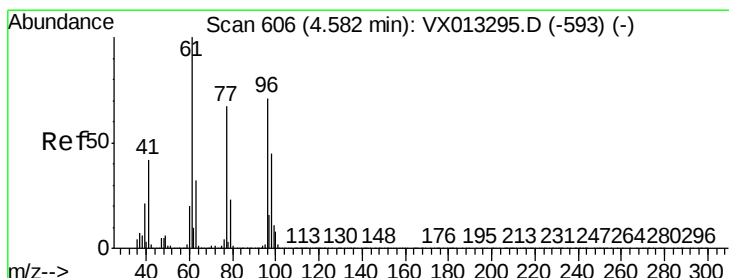
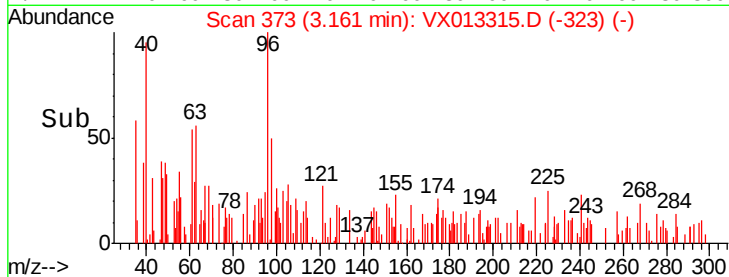
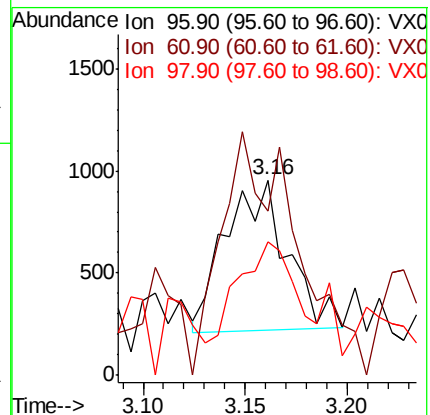
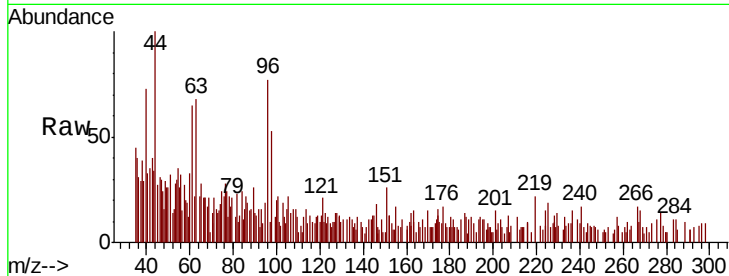
Tot Ion: 96 Resp: 1549

Ion Ratio Lower Upper

96 100

61 111.2 105.8 158.6

98 77.7 51.8 77.6#



#27

cis-1,2-Dichloroethene

Concen: 1.775 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.00 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

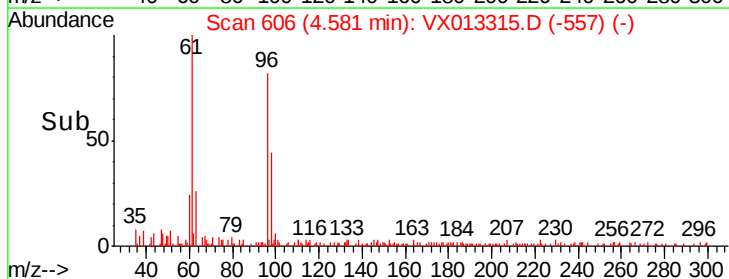
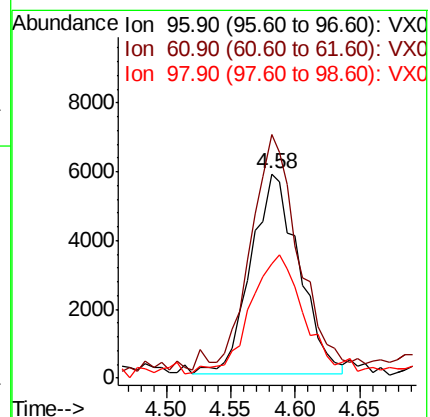
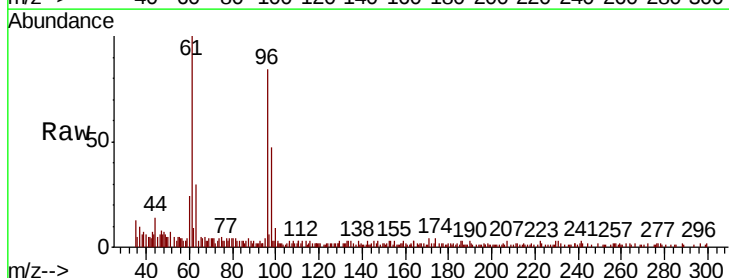
Tgt Ion: 96 Resp: 14982

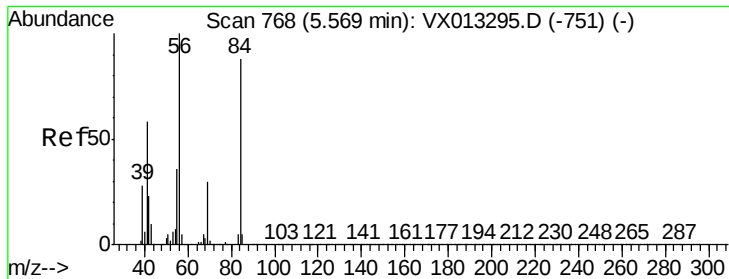
Ion Ratio Lower Upper

96 100

61 109.7 0.0 288.0

98 65.1 0.0 129.6

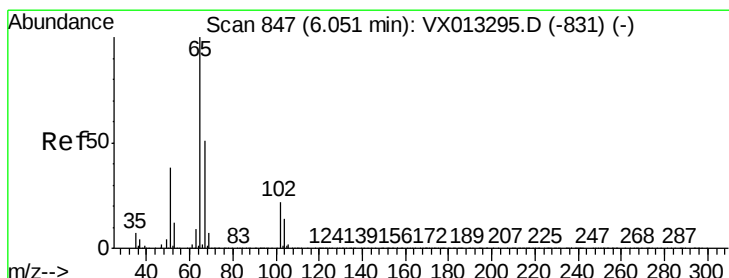
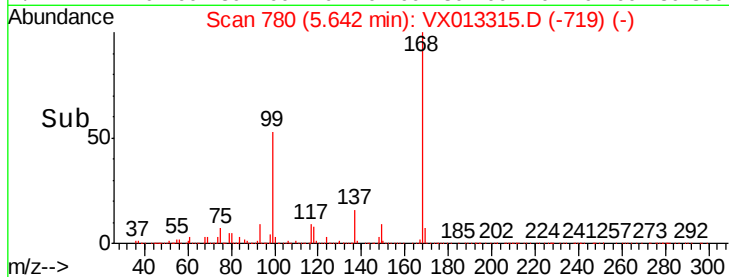
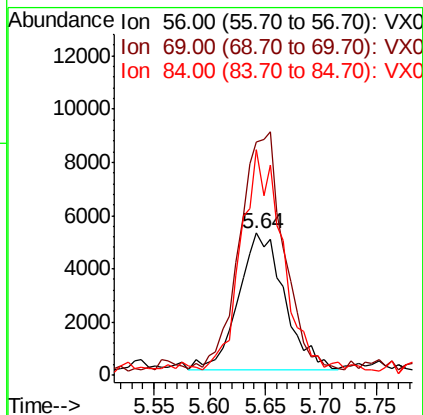
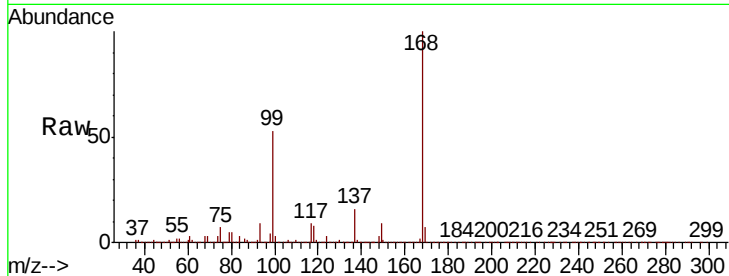




#31
Cyclohexane
Concen: 1.195 ug/l
RT: 5.64 min Scan# 780
Delta R.T. 0.07 min
Lab File: VX013315.D
Acq: 01 Nov 2019 16:43

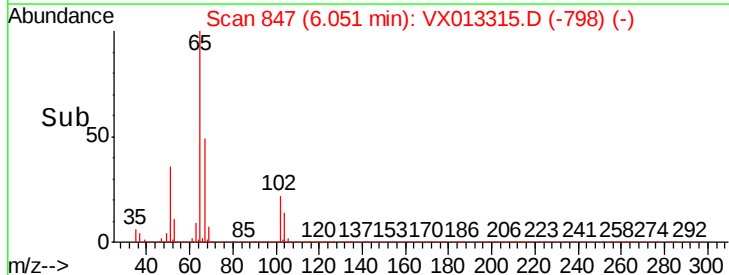
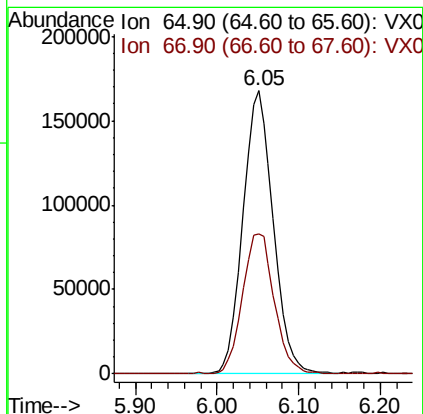
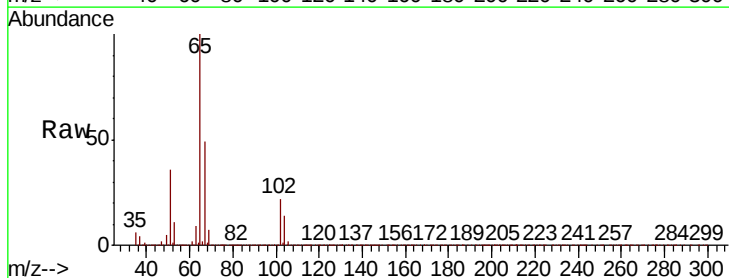
Instrument :
MSVOA_X
ClientSampleId :

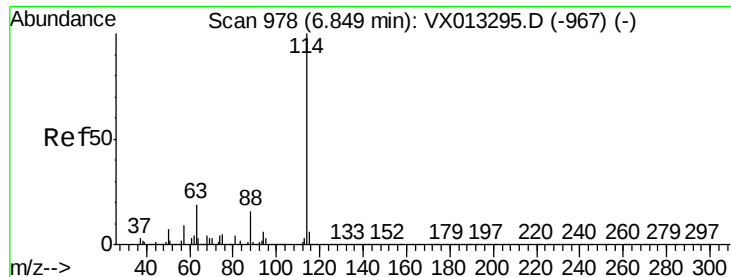
Tot Ion: 56 Resp: 14601
Ion Ratio Lower Upper
56 100
69 166.2 23.7 35.5#
84 157.9 70.6 105.8#



#33
1,2-Dichloroethane-d4
Concen: 48.351 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX013315.D
Acq: 01 Nov 2019 16:43

Tgt Ion: 65 Resp: 432110
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

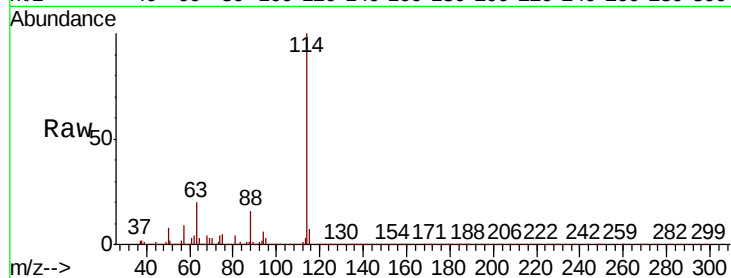
Tot Ion:114 Resp: 1148182

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.4

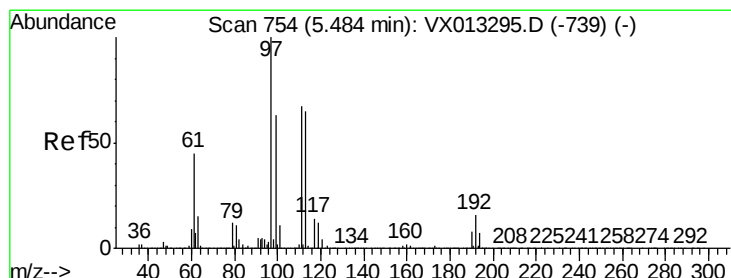
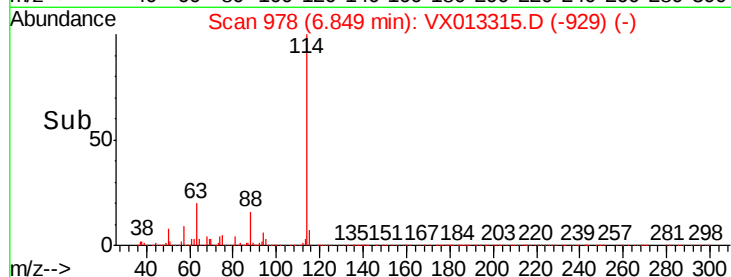
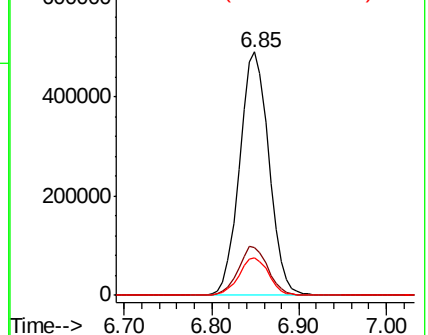
88 15.5 0.0 32.2



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: 47.374 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

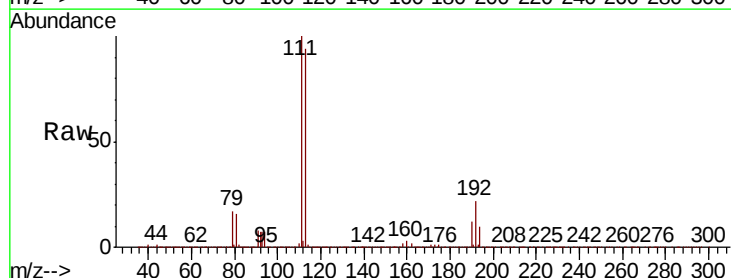
Tgt Ion:113 Resp: 341167

Ion Ratio Lower Upper

113 100

111 103.0 81.9 122.9

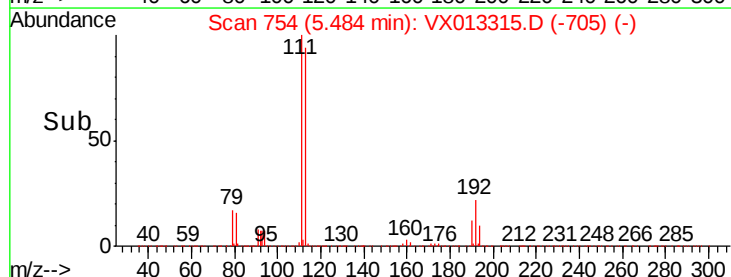
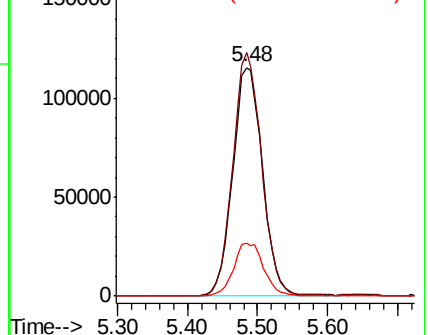
192 22.9 19.1 28.7

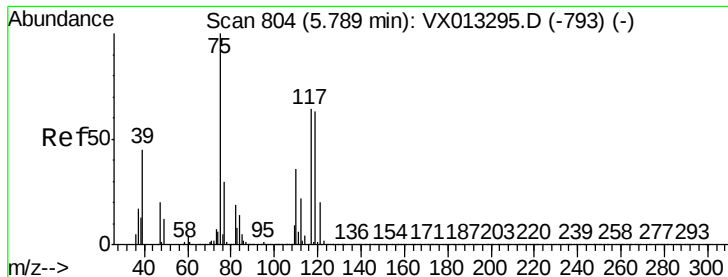


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.046 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

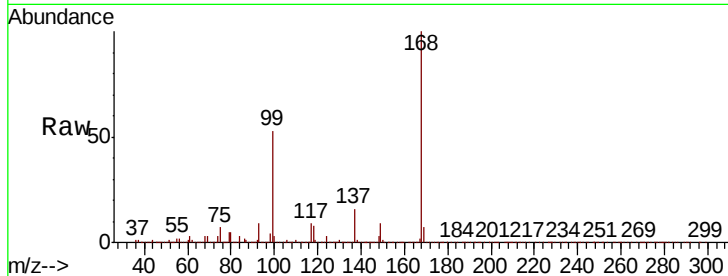
Tot Ion: 75 Resp: 49706

Ion Ratio Lower Upper

75 100

110 10.8 18.1 54.1#

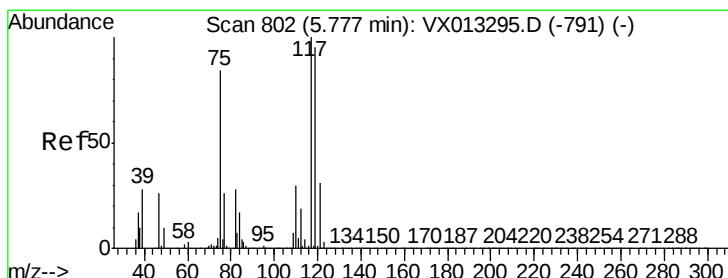
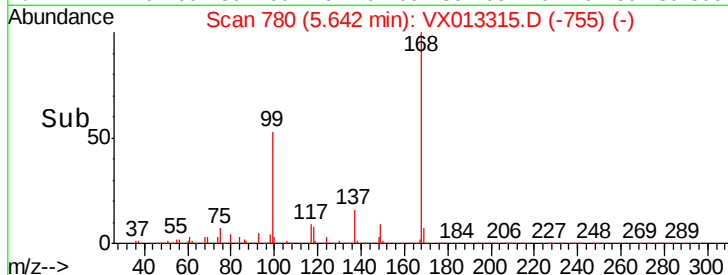
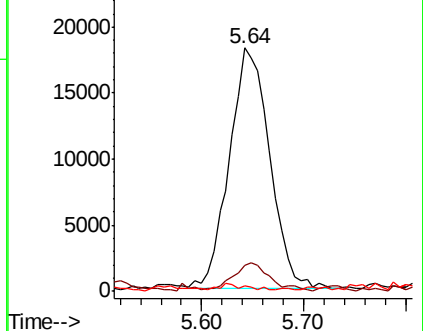
77 0.0 25.0 37.4#



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: 6.853 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

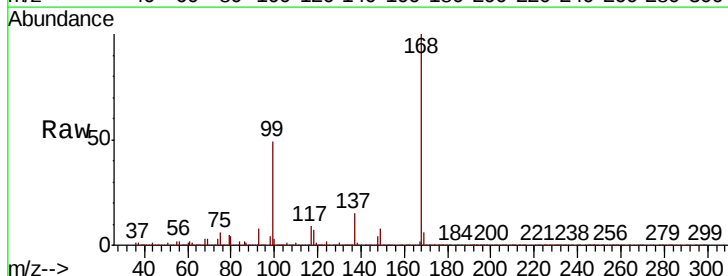
Tgt Ion: 117 Resp: 66006

Ion Ratio Lower Upper

117 100

119 5.4 76.1 114.1#

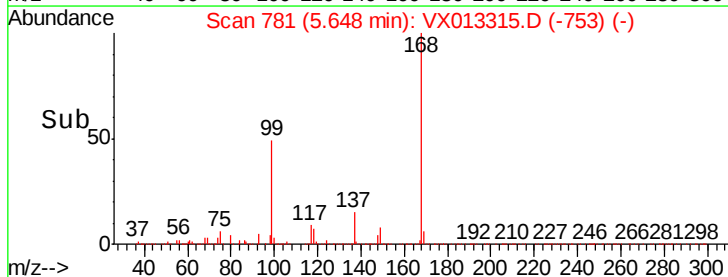
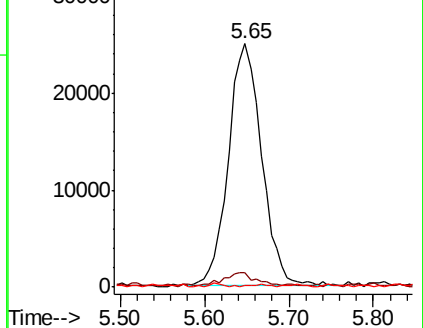
121 0.3 24.6 37.0#

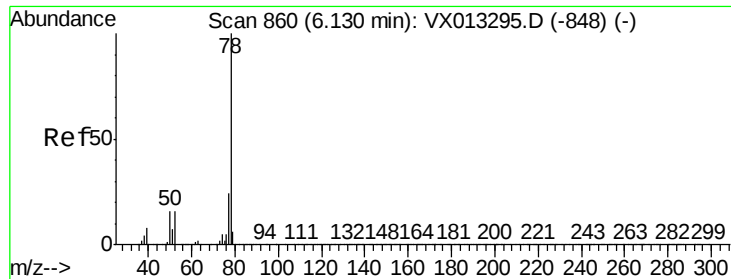


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 1.226 ug/l

RT: 6.13 min Scan# 860

Delta R.T. -0.00 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

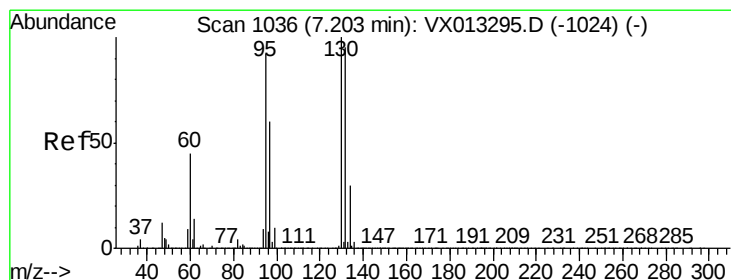
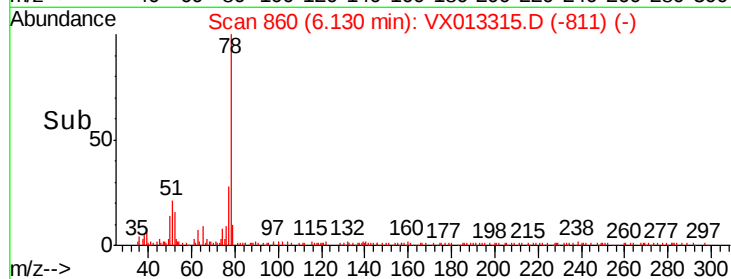
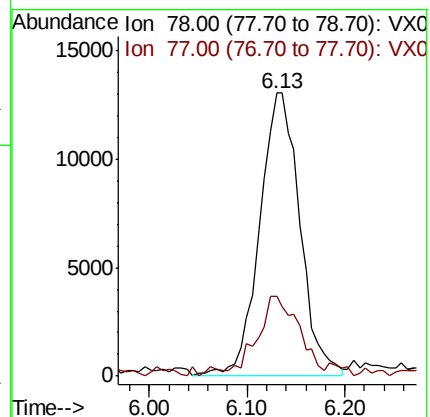
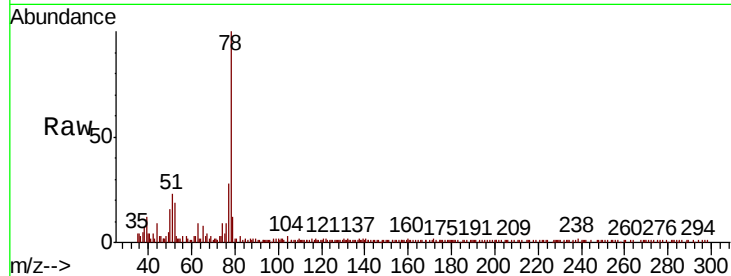
ClientSampled :

Tot Ion: 78 Resp: 37620

Ion Ratio Lower Upper

78 100

77 25.6 19.5 29.3



#44

Trichloroethene

Concen: 0.213 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VX013315.D

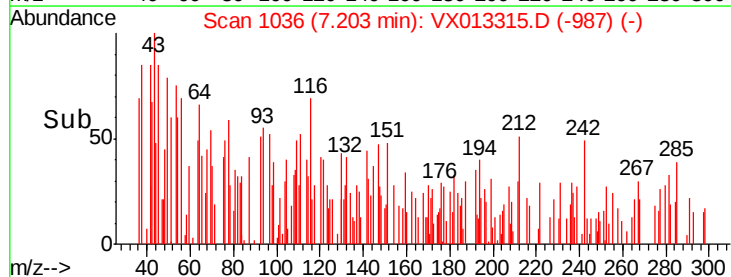
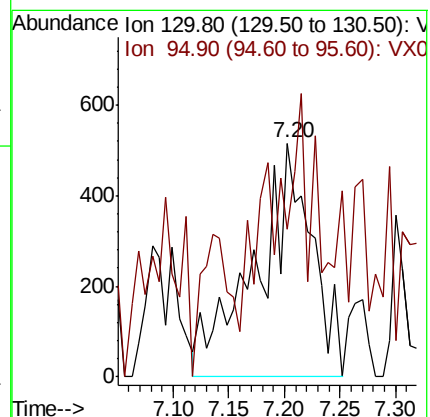
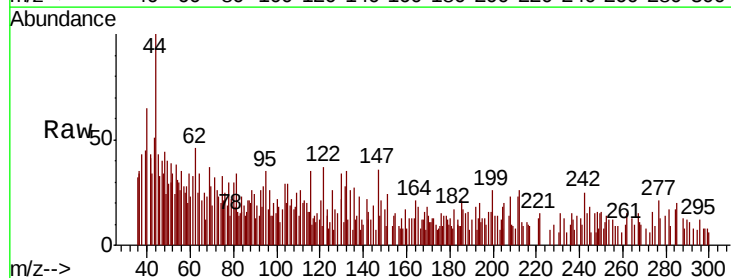
Acq: 01 Nov 2019 16:43

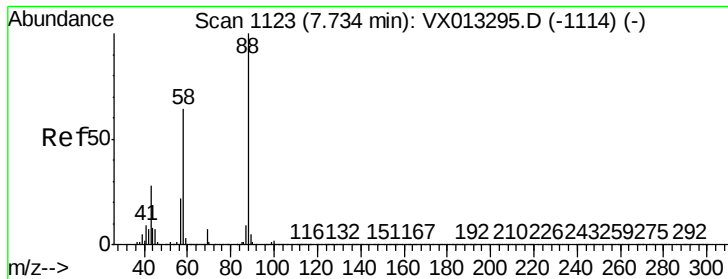
Tgt Ion:130 Resp: 1797

Ion Ratio Lower Upper

130 100

95 13.8 0.0 184.8





#49

1,4-Dioxane

Concen: 0.905 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

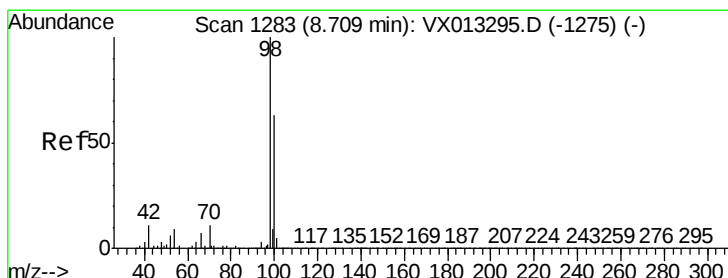
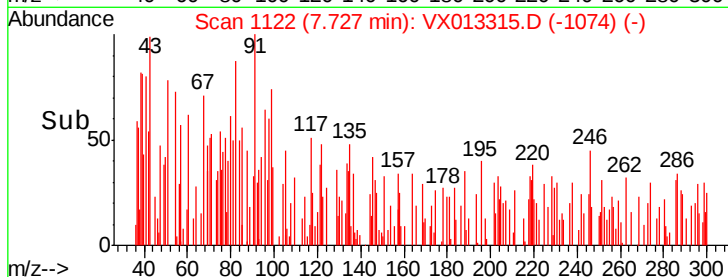
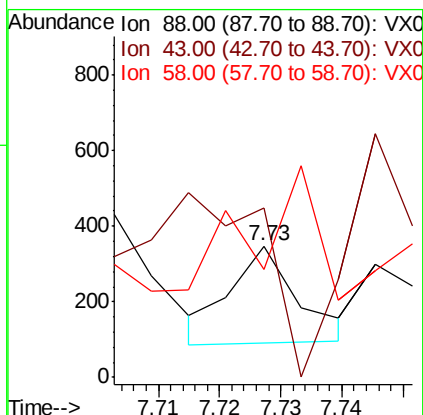
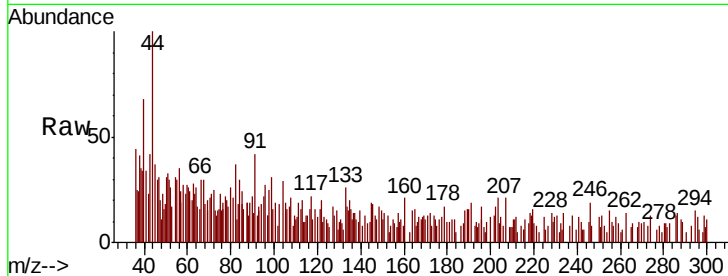
Tot Ion: 88 Resp: 196

Ion Ratio Lower Upper

88 100

43 460.2 26.6 39.8#

58 154.1 55.0 82.6#



#50

Toluene-d8

Concen: 50.556 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013315.D

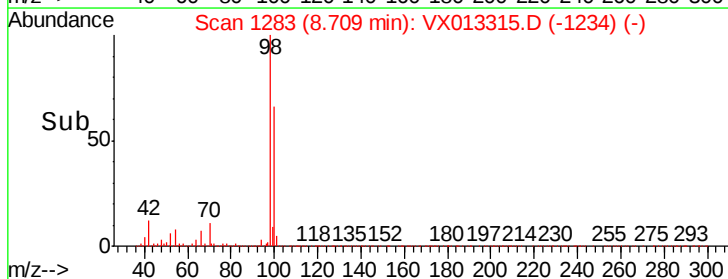
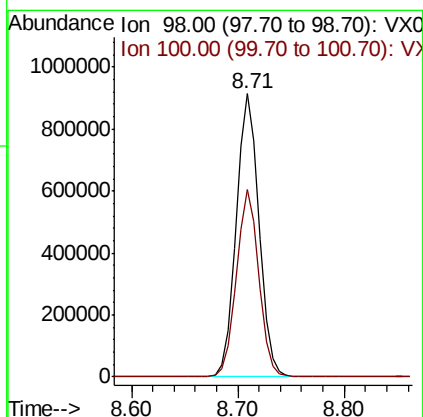
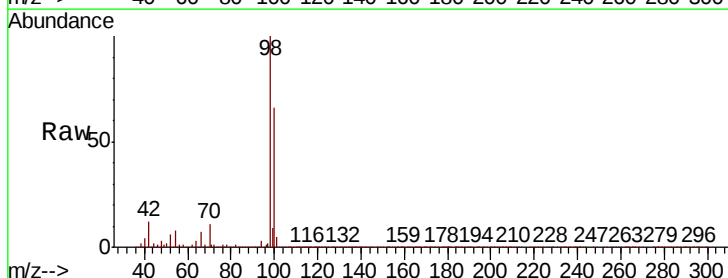
Acq: 01 Nov 2019 16:43

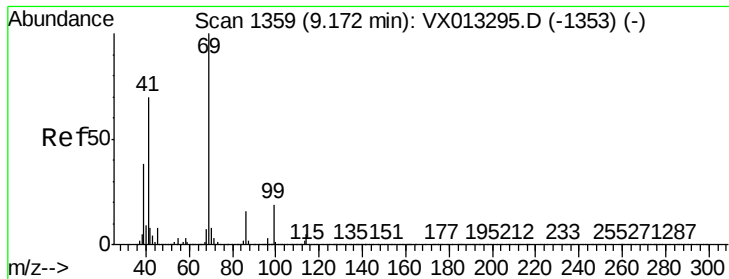
Tgt Ion: 98 Resp: 1372545

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.2

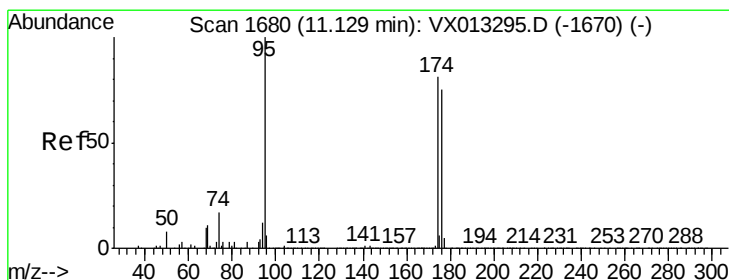
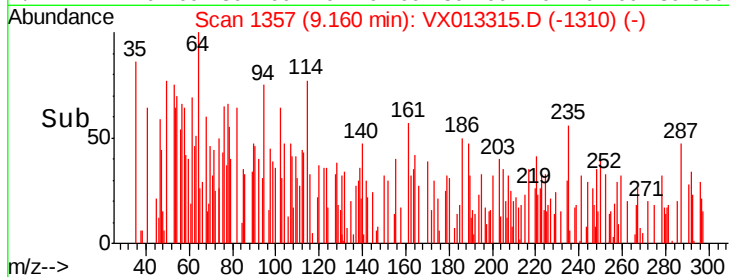
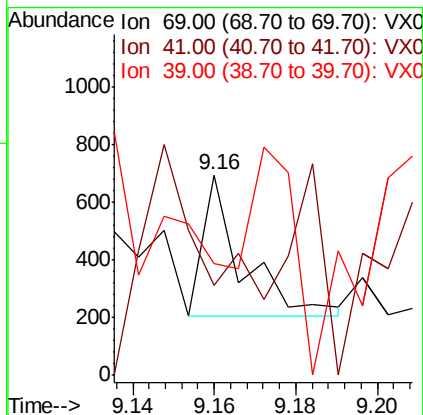
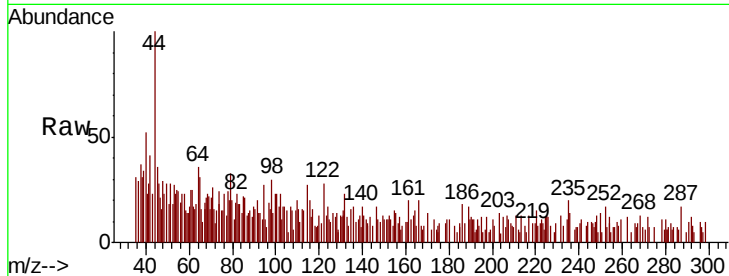




#56
Ethyl methacrylate
Concen: 1.587 ug/l
RT: 9.16 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VX013315.D
Acq: 01 Nov 2019 16:43

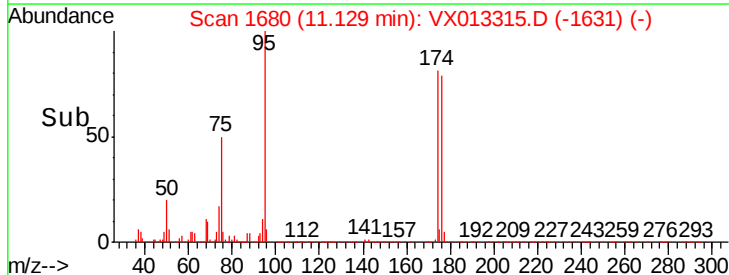
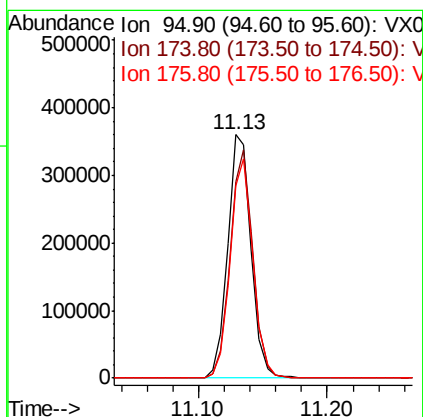
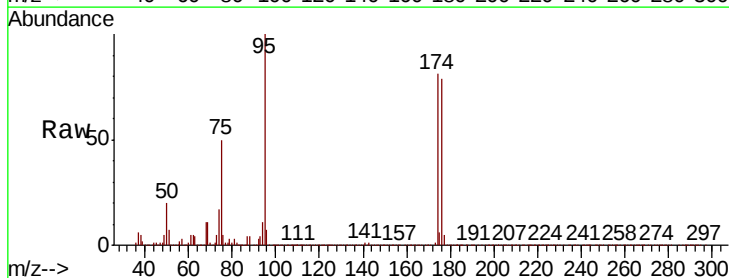
Instrument :
MSVOA_X
ClientSampled :

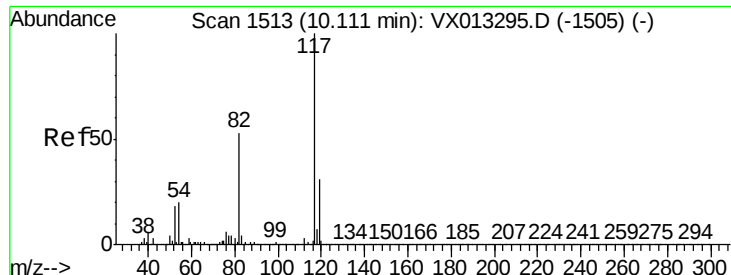
Tot Ion: 69 Resp: 327
Ion Ratio Lower Upper
69 100
41 0.0 56.2 84.2#
39 167.6 31.1 46.7#



#62
4-Bromofluorobenzene
Concen: 46.895 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX013315.D
Acq: 01 Nov 2019 16:43

Tgt Ion: 95 Resp: 459490
Ion Ratio Lower Upper
95 100
174 91.0 0.0 179.8
176 87.9 0.0 173.0

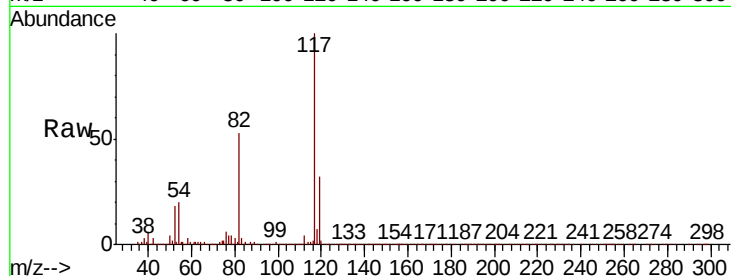




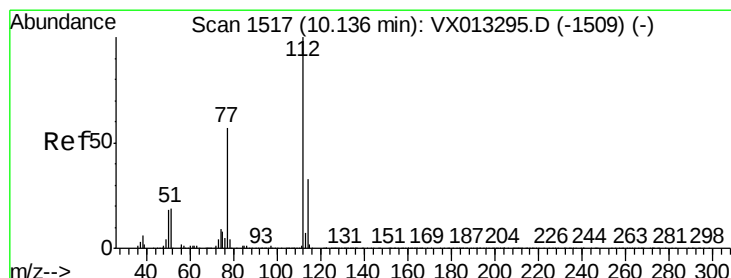
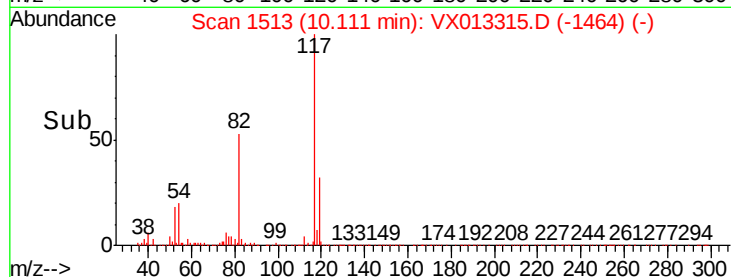
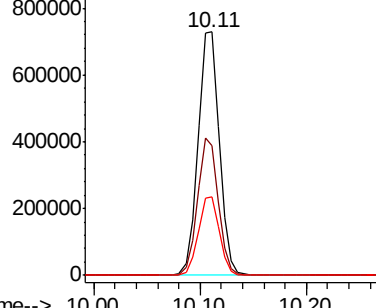
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013315.D
Acq: 01 Nov 2019 16:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 1022976
Ion Ratio Lower Upper
117 100
82 53.4 42.6 64.0
119 32.1 24.8 37.2

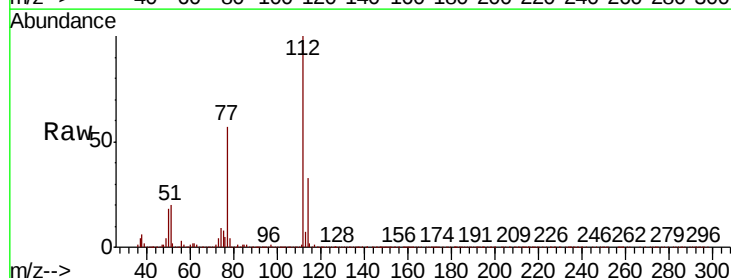


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

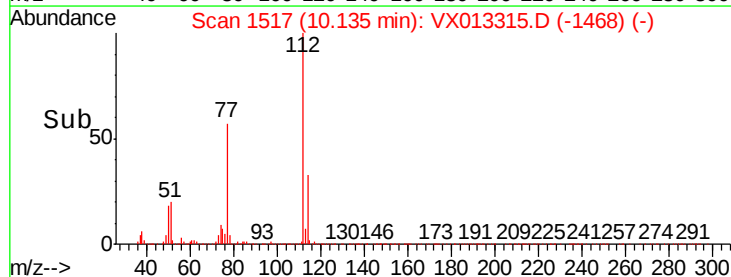
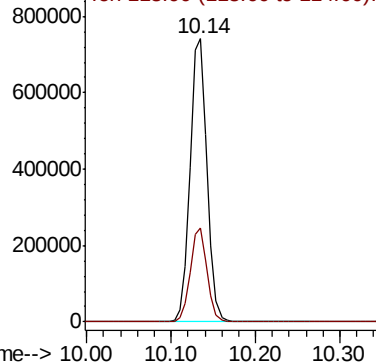


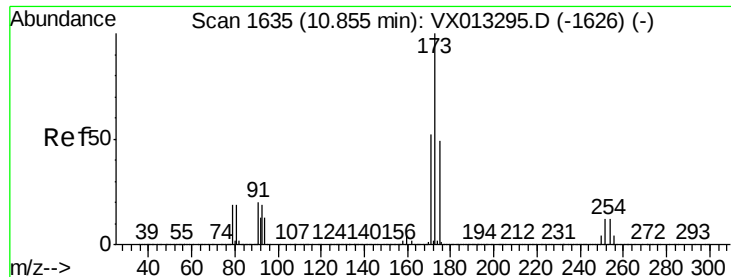
#65
Chlorobenzene
Concen: 49.622 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013315.D
Acq: 01 Nov 2019 16:43

Tgt Ion:112 Resp: 1027699
Ion Ratio Lower Upper
112 100
114 33.0 26.4 39.6



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 3.221 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.03 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

ClientSampled :

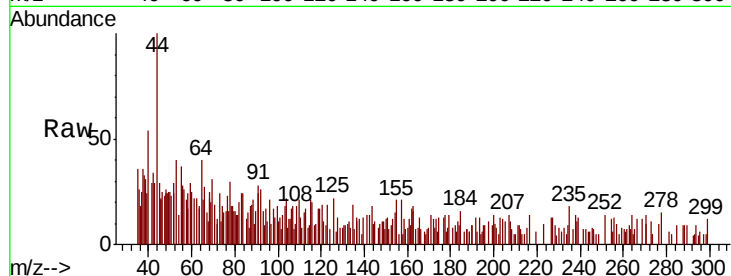
Tot Ion:173 Resp: 141

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

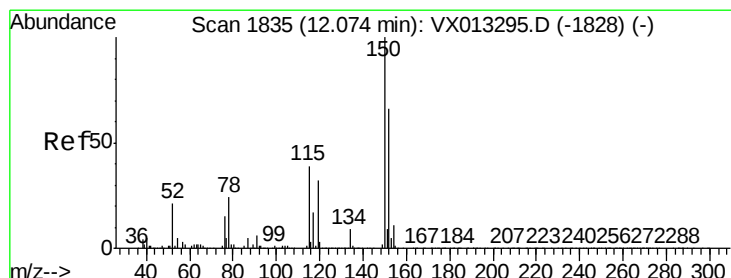
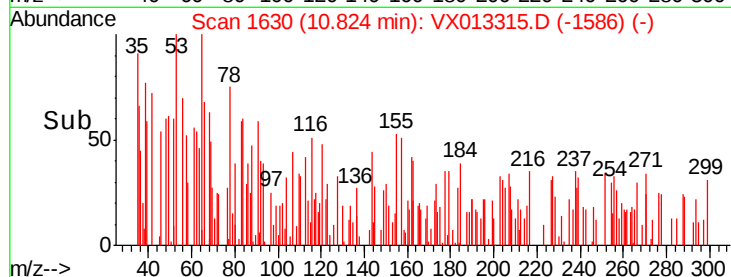
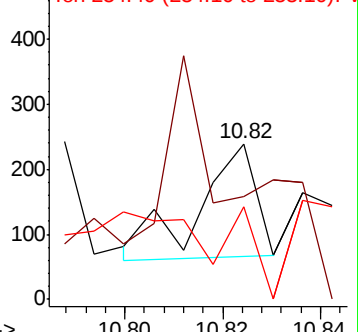
254 76.6 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX013315.D

Acq: 01 Nov 2019 16:43

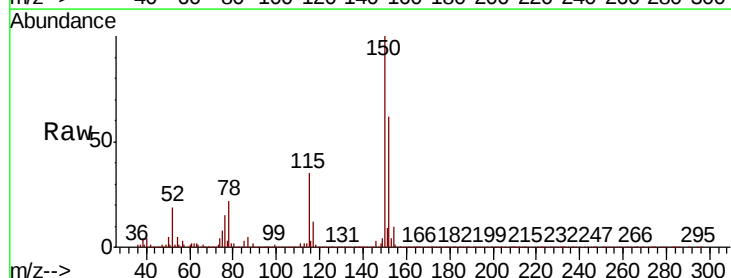
Tgt Ion:152 Resp: 483532

Ion Ratio Lower Upper

152 100

115 55.0 39.5 118.3

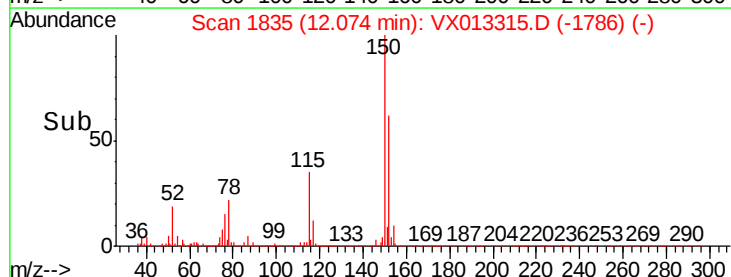
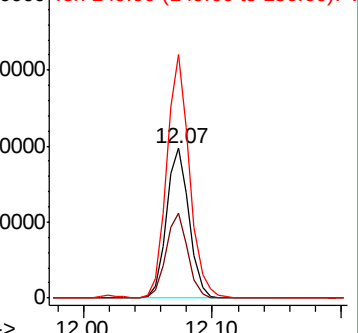
150 163.2 0.0 344.4

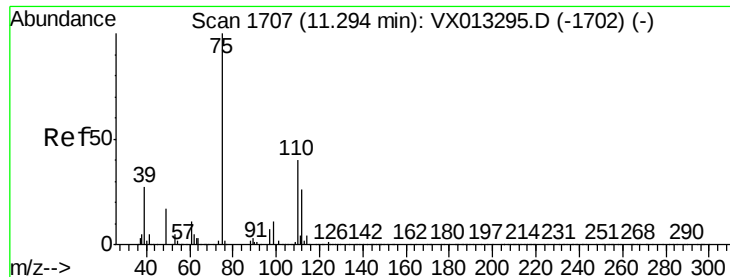


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.141 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

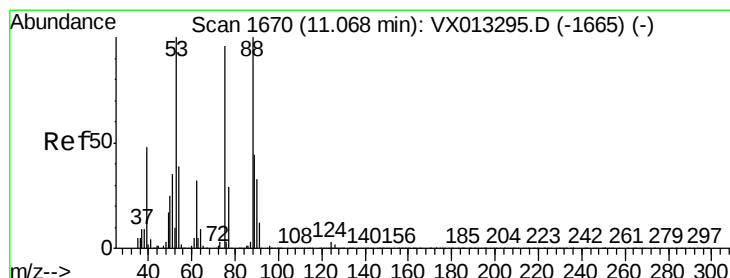
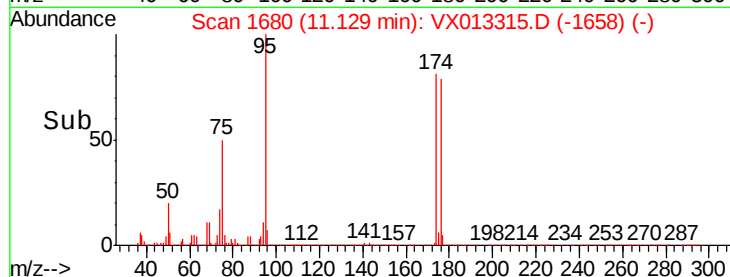
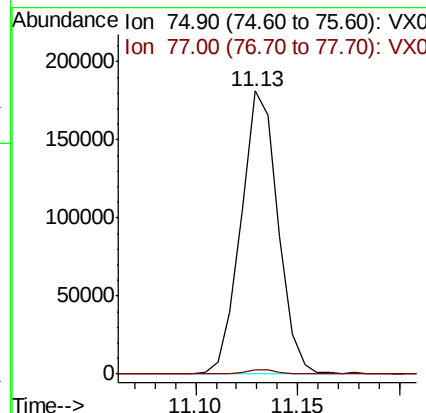
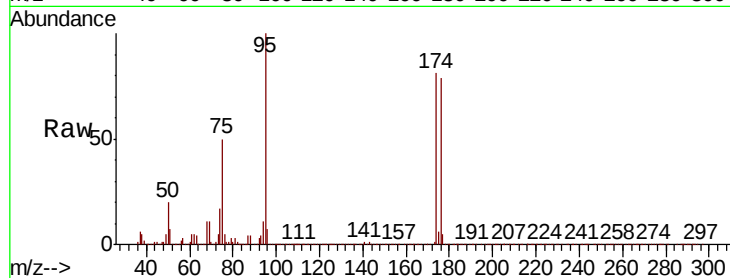
ClientSampled :

Tot Ion: 75 Resp: 227273

Ion Ratio Lower Upper

75 100

77 1.6 22.3 66.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.565 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

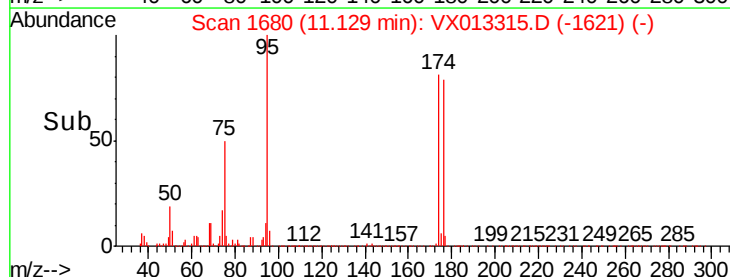
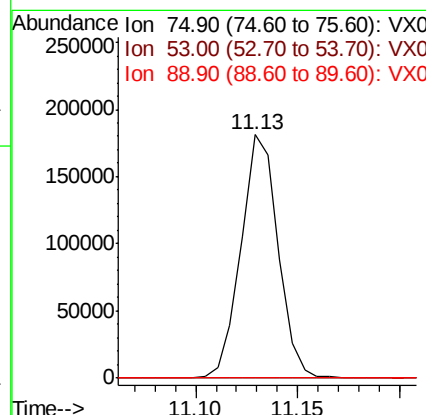
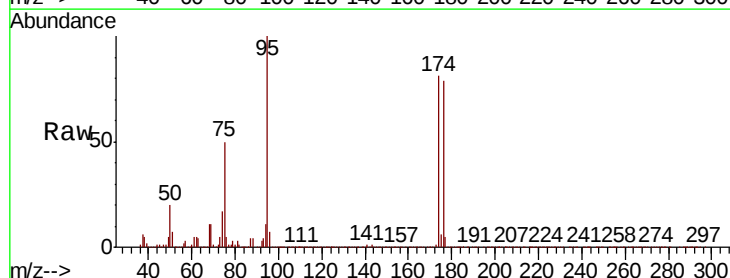
Tgt Ion: 75 Resp: 227273

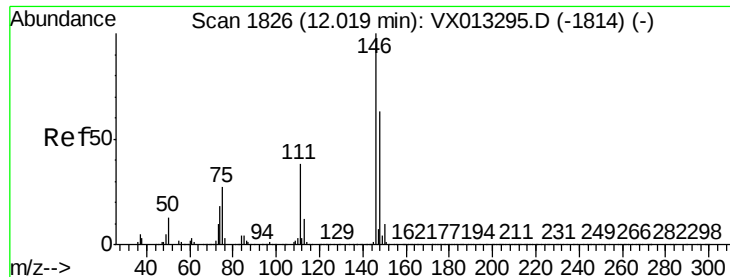
Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.1 36.0 54.0#

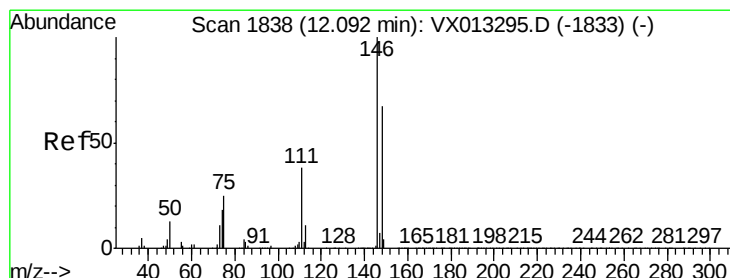
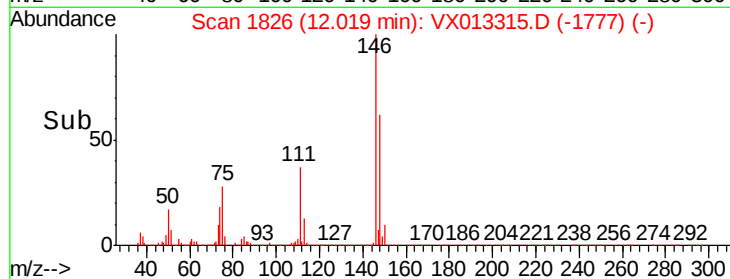
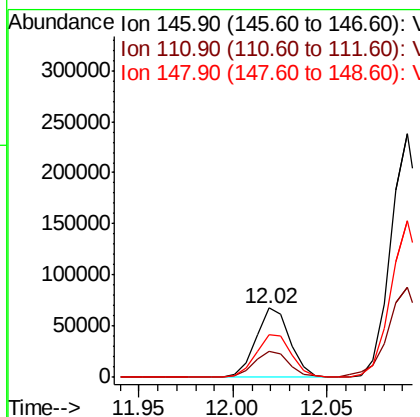
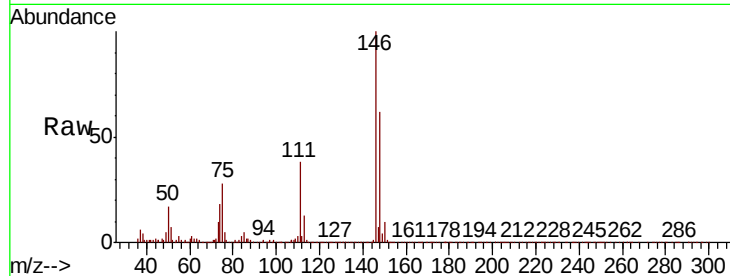




#87
 1,3-Dichlorobenzene
 Concen: 5.545 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.00 min
 Lab File: VX013315.D
 Acq: 01 Nov 2019 16:43

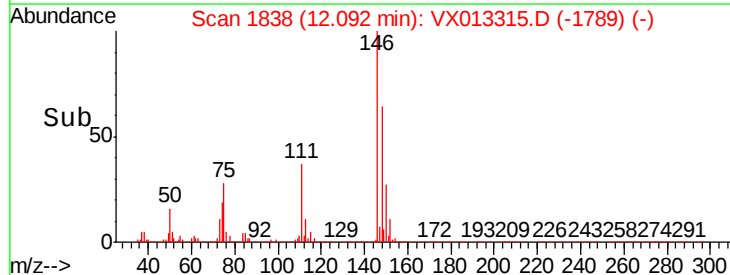
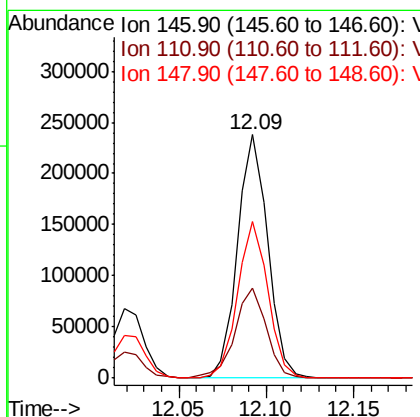
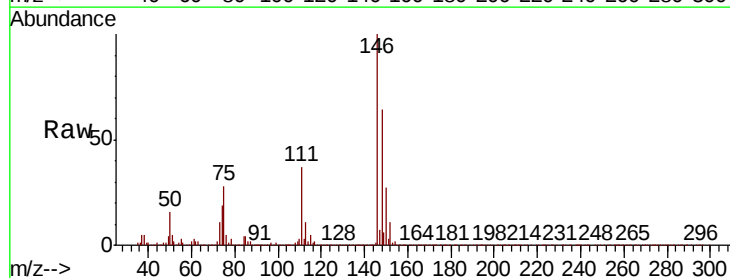
Instrument :
 MSVOA_X
 ClientSampleId :

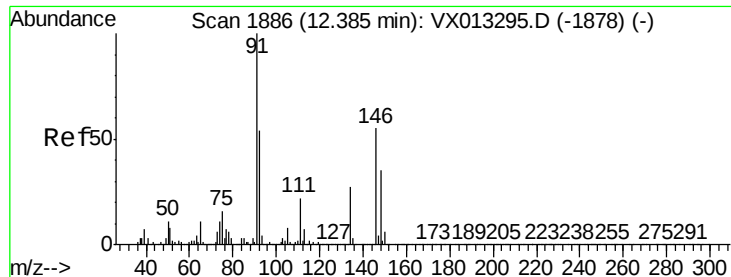
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.9	56.5
148	64.6	31.9	95.7



#88
 1,4-Dichlorobenzene
 Concen: 18.357 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX013315.D
 Acq: 01 Nov 2019 16:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	18.8	56.4
148	64.3	32.4	97.0





#91

1,2-Dichlorobenzene

Concen: 153.748 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

Instrument :

MSVOA_X

ClientSampled :

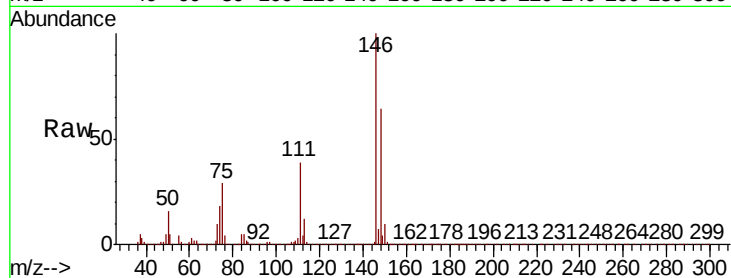
Tot Ion:146 Resp: 2341298

Ion Ratio Lower Upper

146 100

111 39.5 20.1 60.2

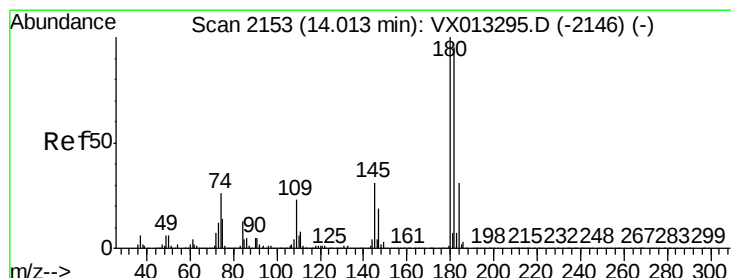
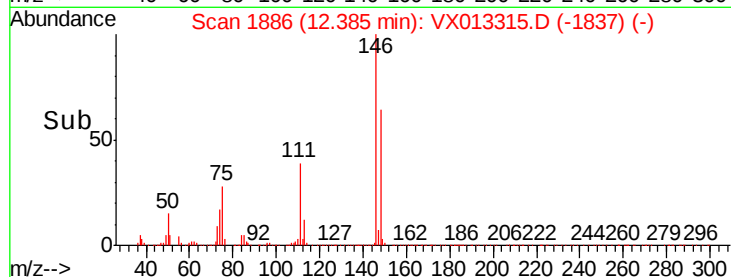
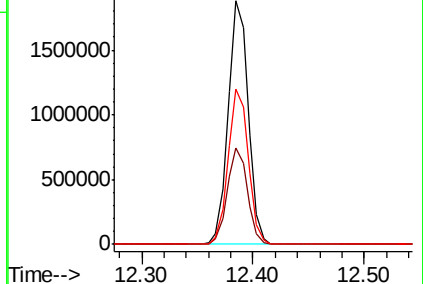
148 63.7 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#96

1,2,3-Trichlorobenzene

Concen: 0.363 ug/l

RT: 14.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VX013315.D

Acq: 01 Nov 2019 16:43

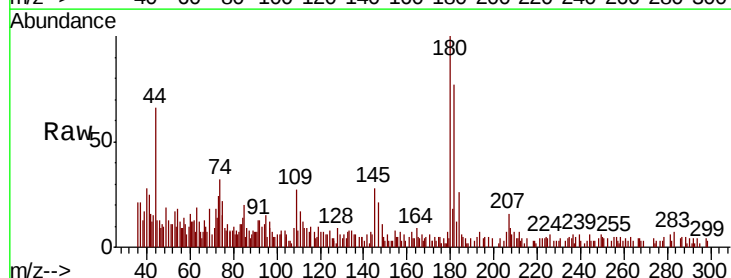
Tgt Ion:180 Resp: 3870

Ion Ratio Lower Upper

180 100

182 97.5 48.0 144.2

145 39.5 15.4 46.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

