

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013671.D
 Acq On : 27 Nov 2019 23:37
 Operator : JC/SP
 Sample : K6008-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 28 04:20:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	662280	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1032175	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	929475	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	411849	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	379004	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
35) Dibromofluoromethane	5.48	113	306890	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
50) Toluene-d8	8.71	98	1227183	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
62) 4-Bromofluorobenzene	11.14	95	411630	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	

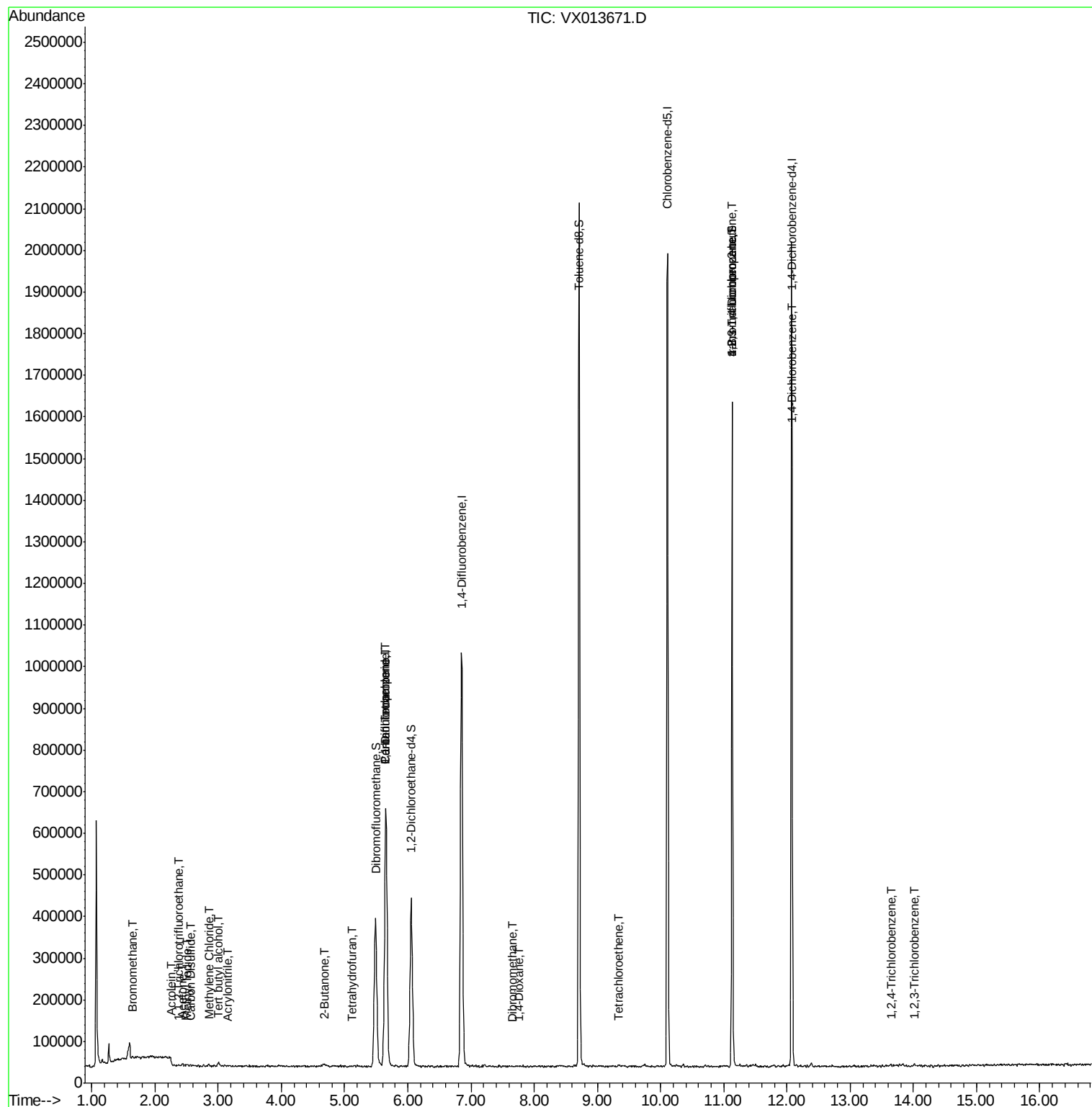
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	2940	0.470	ug/l #	70
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1267	0.201	ug/l #	69
10) Methyl Iodide	2.51	142	2995	0.392	ug/l #	96
11) Tert butyl alcohol	3.01	59	5965	3.144	ug/l #	88
13) Acrolein	2.26	56	656	6.508	ug/l #	68
15) Acrylonitrile	3.14	53	1484	0.379	ug/l #	17
16) Acetone	2.43	43	7036	1.854	ug/l #	73
17) Carbon Disulfide	2.56	76	4827	0.269	ug/l	99
20) Methylene Chloride	2.84	84	2815	0.386	ug/l #	74
25) 2-Butanone	4.68	43	3498	0.620	ug/l #	74
29) Tetrahydrofuran	5.12	42	840	0.242	ug/l #	46
36) 1,1-Dichloropropene	5.65	75	44247	4.722	ug/l #	52
38) Carbon Tetrachloride	5.65	117	56491	6.539	ug/l #	16
46) Dibromomethane	7.66	93	1037	0.214	ug/l #	40
49) 1,4-Dioxane	7.75	88	475	2.524	ug/l #	72
64) Tetrachloroethene	9.32	164	1622	0.234	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	202168	21.825	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	202168	59.709	ug/l #	11
88) 1,4-Dichlorobenzene	12.09	146	2900	0.209	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.65	180	2391	0.255	ug/l	88
96) 1,2,3-Trichlorobenzene	14.02	180	2193	0.236	ug/l	95

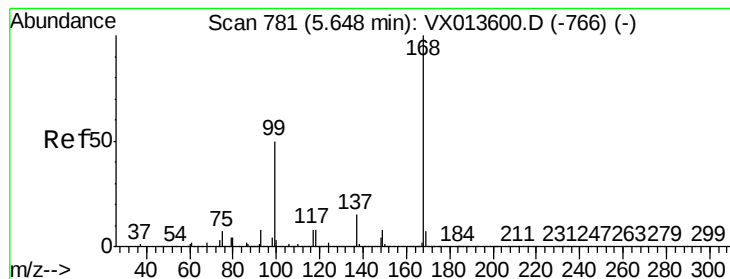
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 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: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

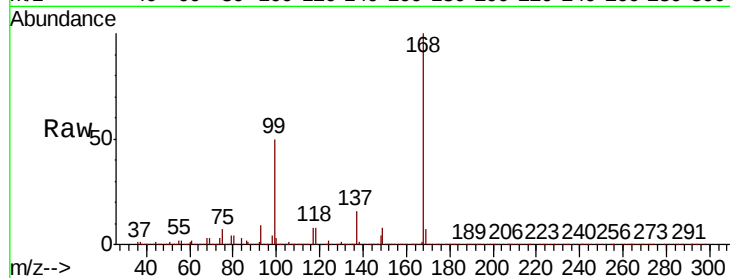
ClientSampleId :

Tot Ion:168 Resp: 662280

Ion Ratio Lower Upper

168 100

99 49.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

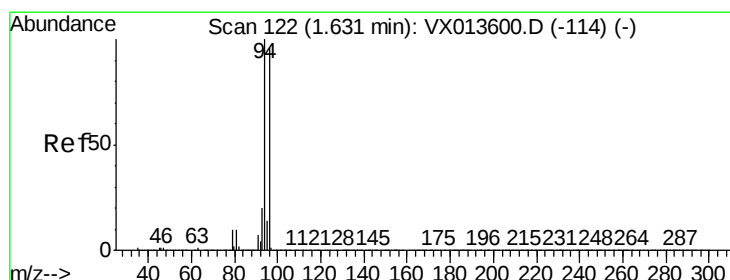
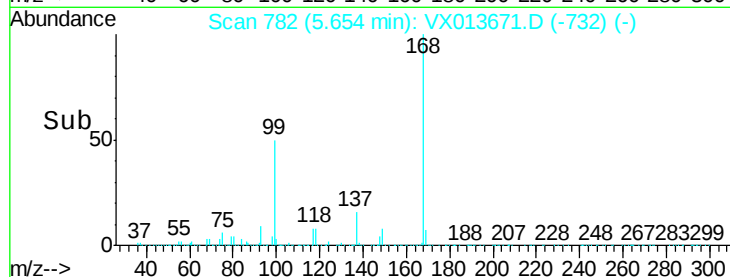
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.470 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013671.D

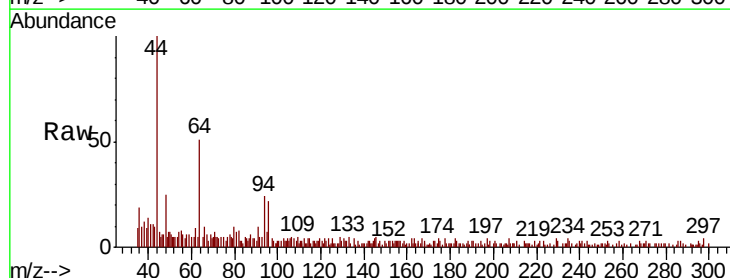
Acq: 27 Nov 2019 23:37

Tgt Ion: 94 Resp: 2940

Ion Ratio Lower Upper

94 100

96 67.2 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1500

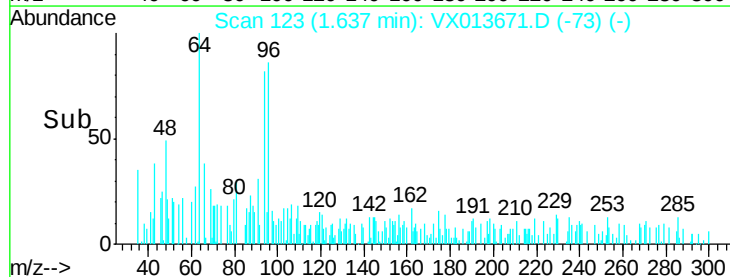
1000

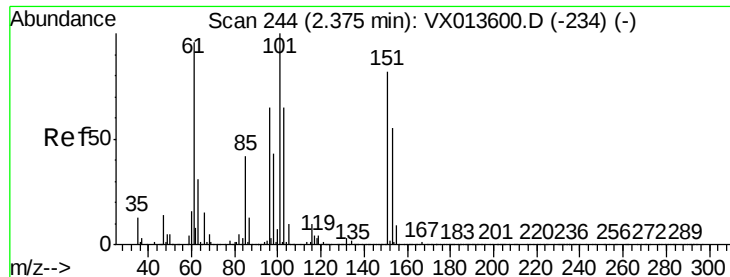
500

0

Time-->

1.60 1.65 1.70





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.201 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampleId :

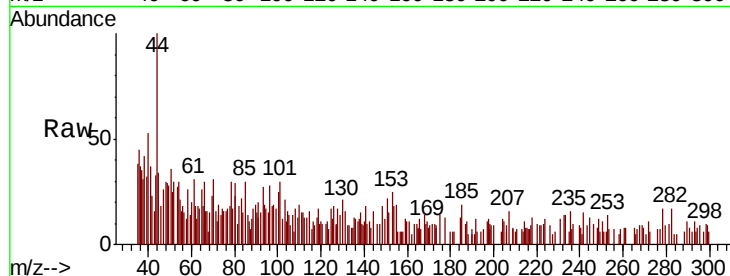
Tot Ion:101 Resp: 1267

Ion Ratio Lower Upper

101 100

85 57.0 33.9 50.9#

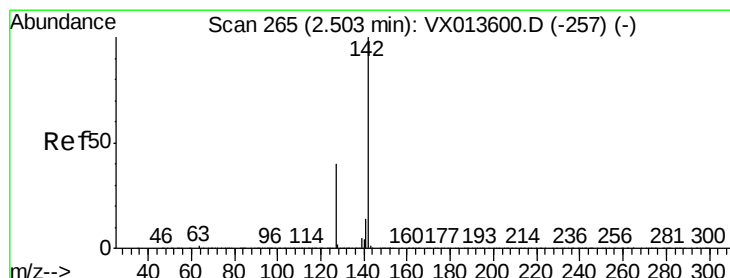
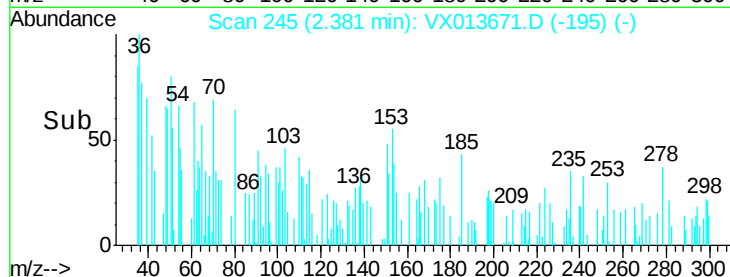
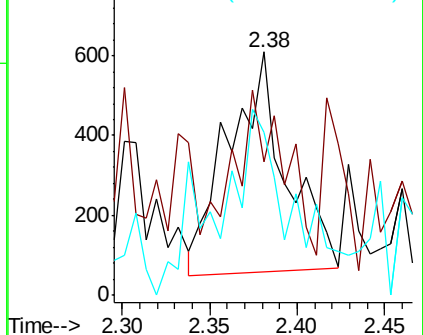
151 49.6 64.2 96.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.392 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

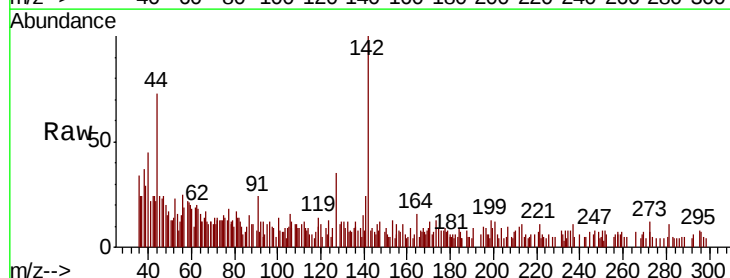
Tgt Ion:142 Resp: 2995

Ion Ratio Lower Upper

142 100

127 36.9 31.0 46.4

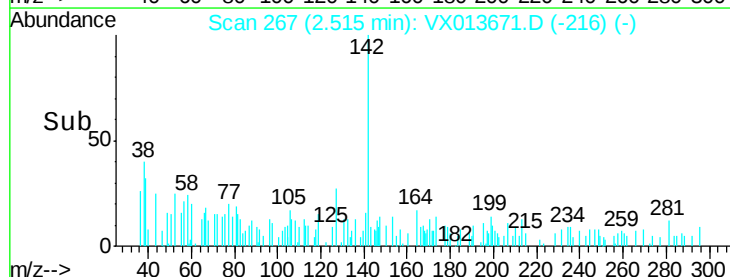
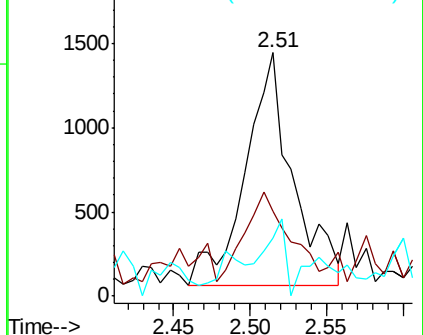
141 17.7 11.6 17.4#

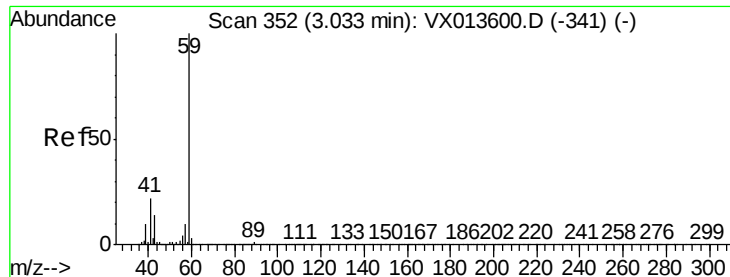


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

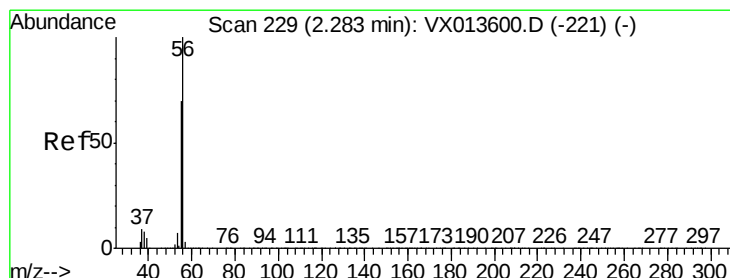
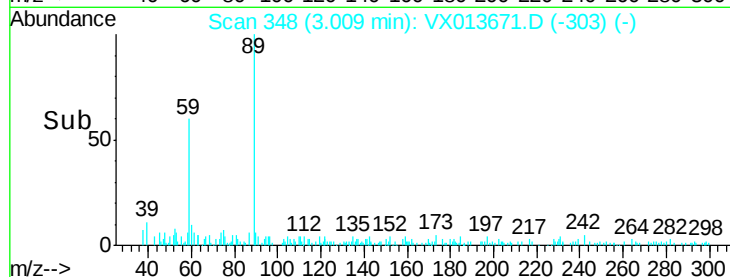
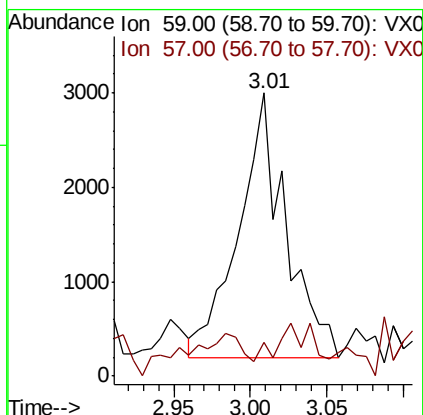
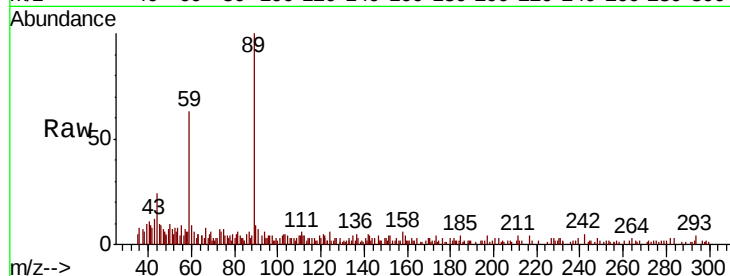




#11
Tert butyl alcohol
Concen: 3.144 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

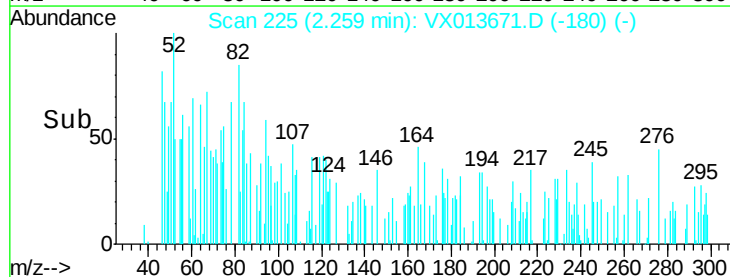
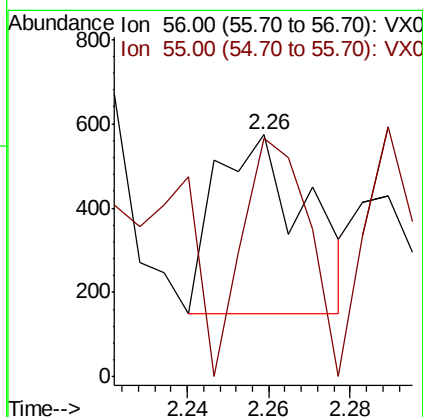
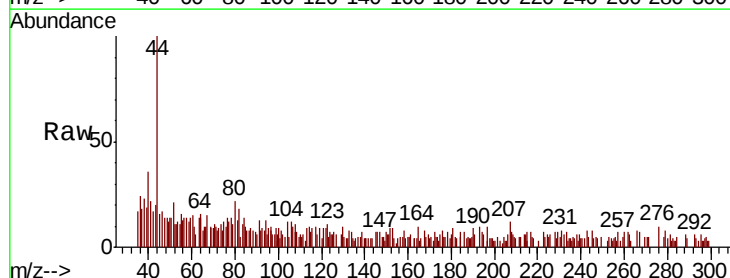
Instrument :
MSVOA_X
ClientSampleId :

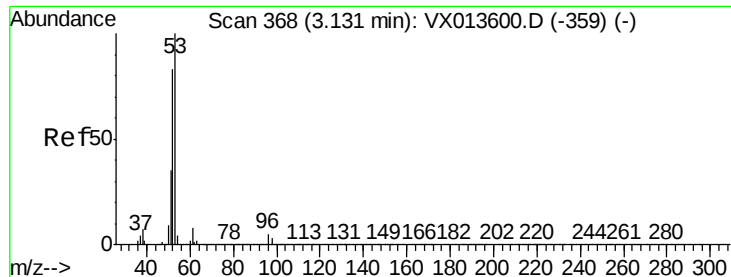
Tot Ion: 59 Resp: 5965
Ion Ratio Lower Upper
59 100
57 14.3 7.8 11.6#



#13
Acrolein
Concen: 6.508 ug/l
RT: 2.26 min Scan# 225
Delta R.T. -0.02 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

Tgt Ion: 56 Resp: 656
Ion Ratio Lower Upper
56 100
55 96.6 56.2 84.4#





#15

Acrylonitrile

Concen: 0.379 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampled :

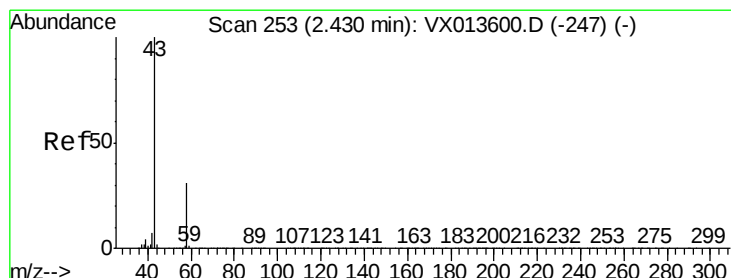
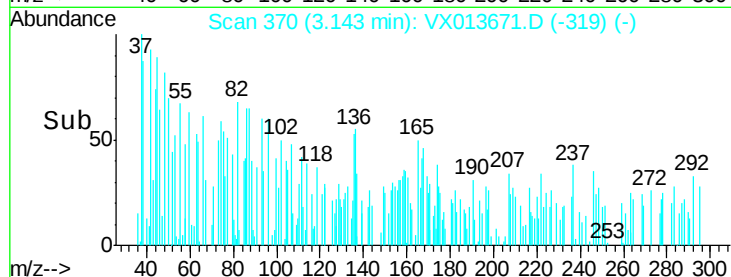
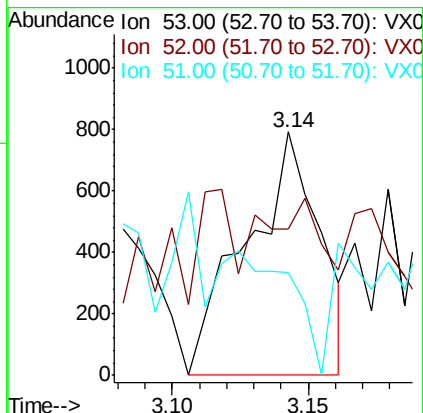
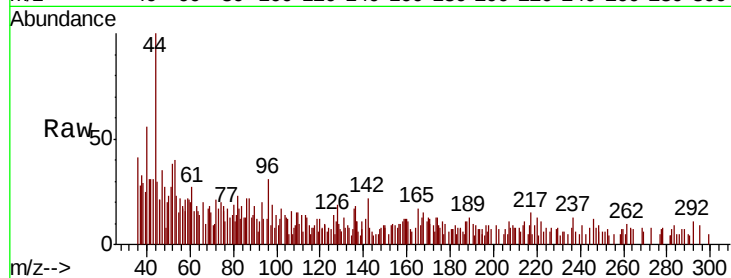
Tot Ion: 53 Resp: 1484

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 0.0 29.0 43.6#



#16

Acetone

Concen: 1.854 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013671.D

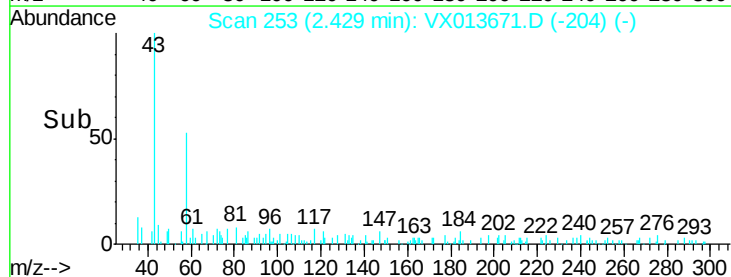
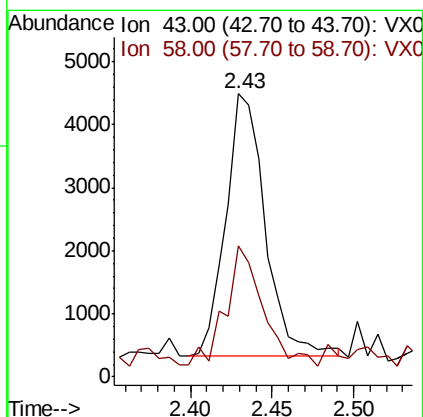
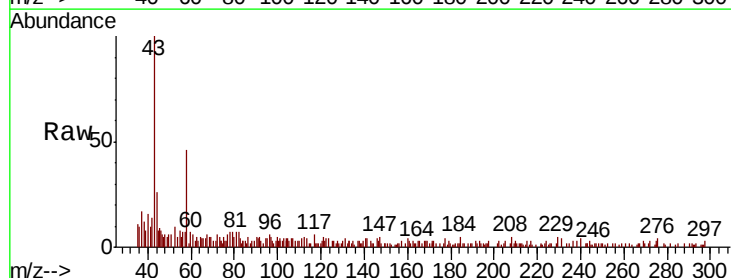
Acq: 27 Nov 2019 23:37

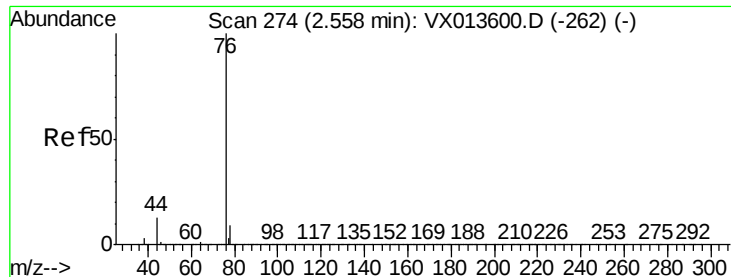
Tgt Ion: 43 Resp: 7036

Ion Ratio Lower Upper

43 100

58 45.3 24.6 36.8#





#17

Carbon Disulfide

Concen: 0.269 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

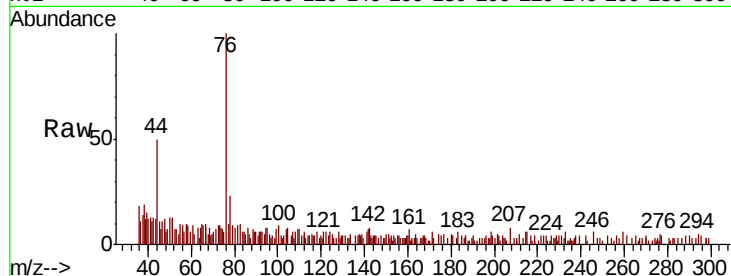
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 76 Resp: 4827

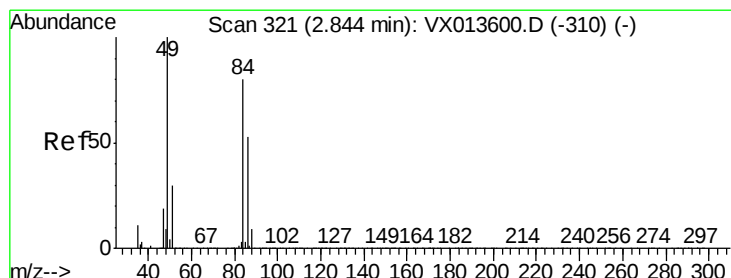
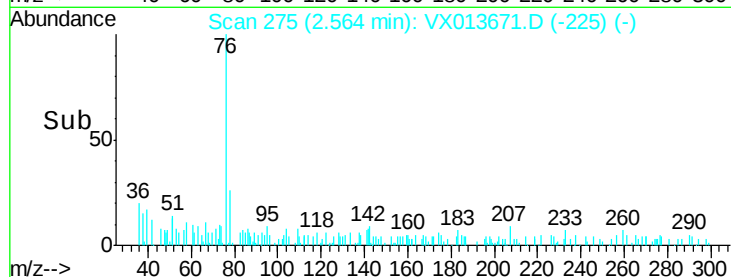
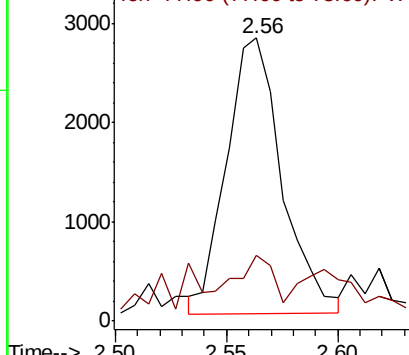
Ion Ratio Lower Upper

76 100

78 9.5 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.386 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Tgt Ion: 84 Resp: 2815

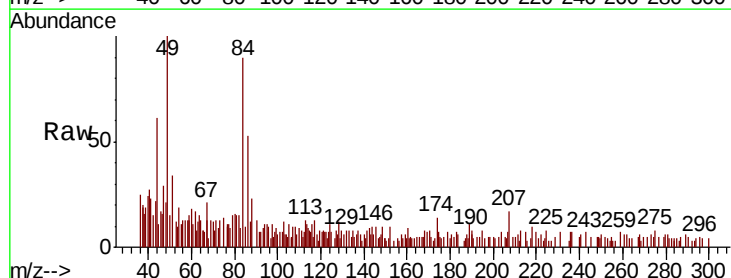
Ion Ratio Lower Upper

84 100

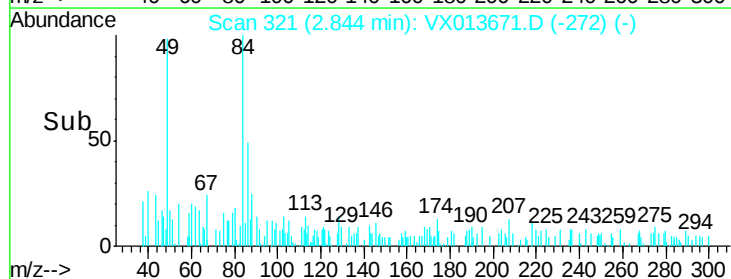
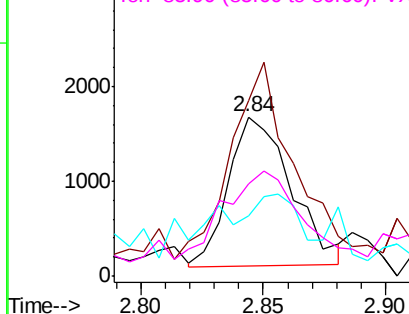
49 96.8 99.7 149.5#

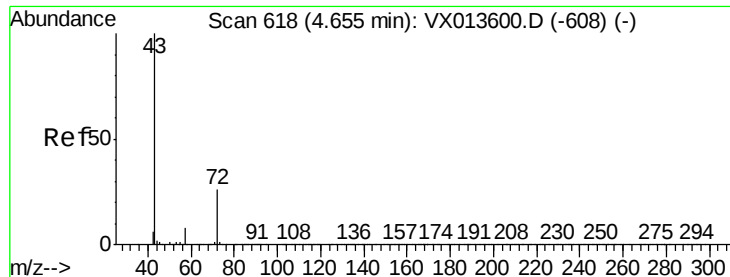
51 16.9 29.9 44.9#

86 45.0 52.2 78.4#



Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.620 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

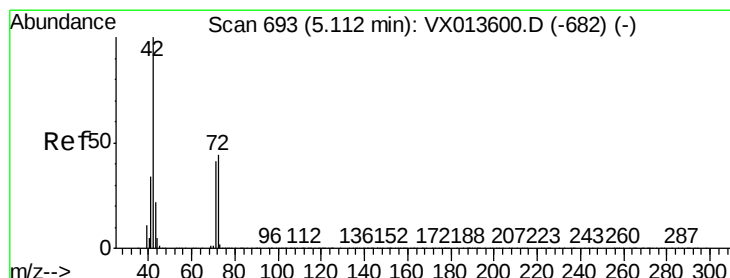
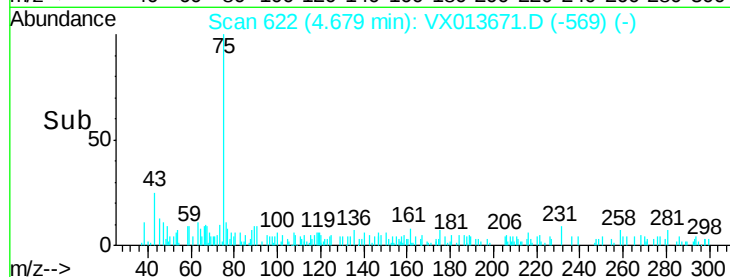
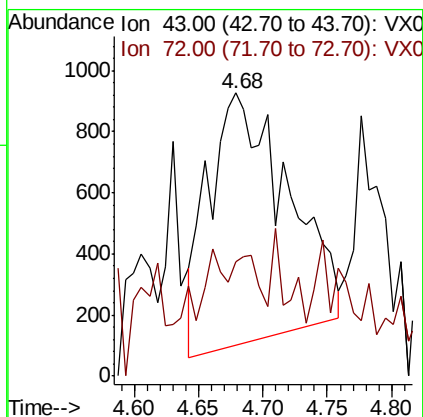
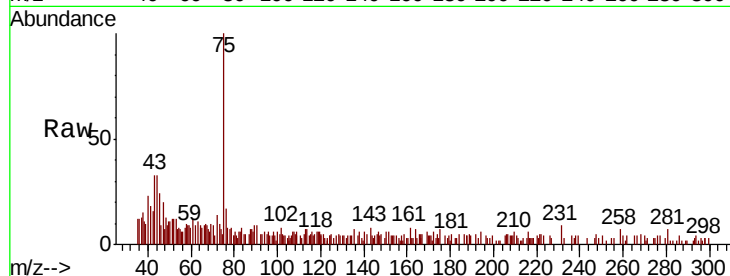
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 3498

Ion Ratio Lower Upper

43 100

72 12.5 20.6 31.0#



#29

Tetrahydrofuran

Concen: 0.242 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

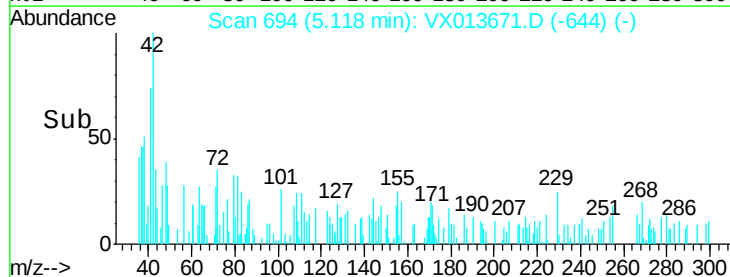
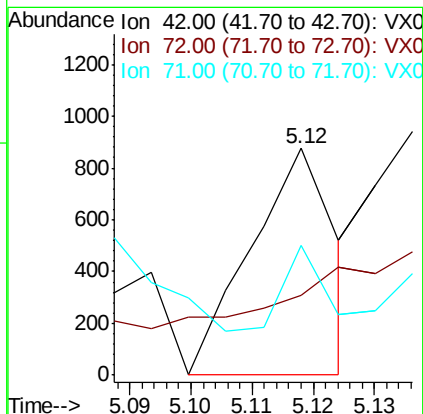
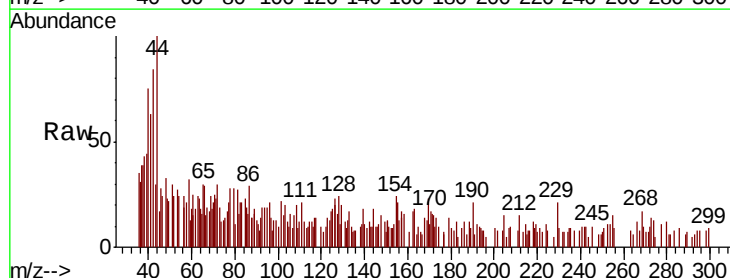
Tgt Ion: 42 Resp: 840

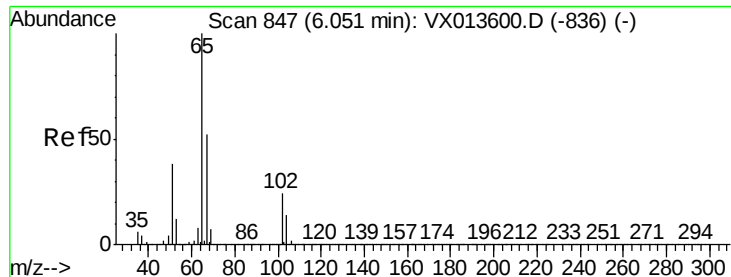
Ion Ratio Lower Upper

42 100

72 0.0 36.3 54.5#

71 18.0 33.2 49.8#





#33

1,2-Dichloroethane-d4

Concen: 49.301 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

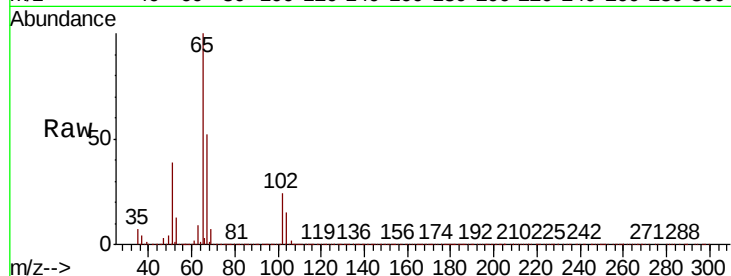
ClientSampleId :

Tot Ion: 65 Resp: 379004

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

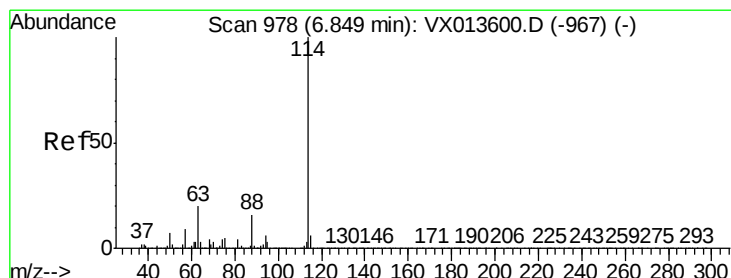
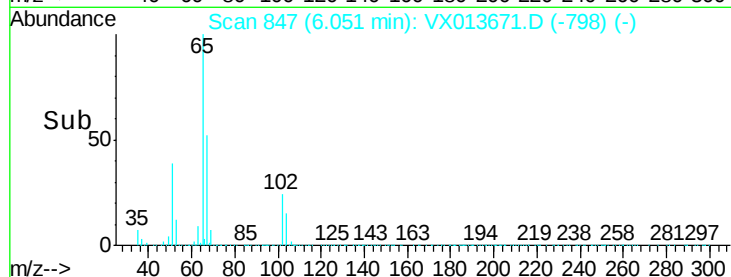
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

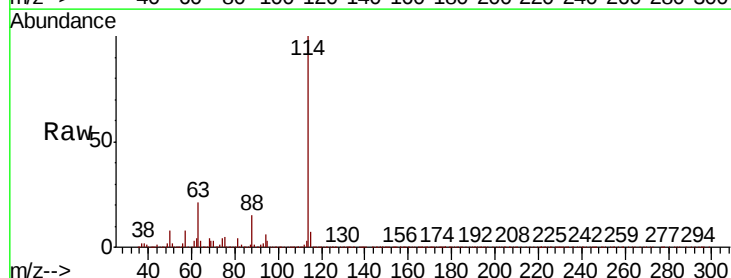
Tgt Ion: 114 Resp: 1032175

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.6

88 15.4 0.0 31.4



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

600000

500000

400000

300000

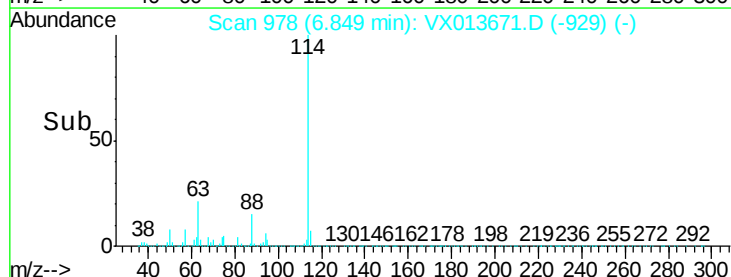
200000

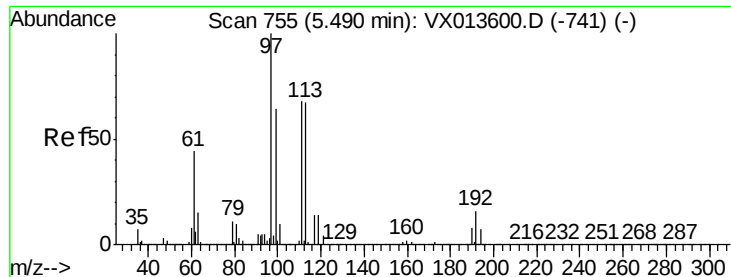
100000

0

Time-->

6.80 6.90





#35

Dibromofluoromethane

Concen: 48.094 ug/l

RT: 5.48 min Scan# 754

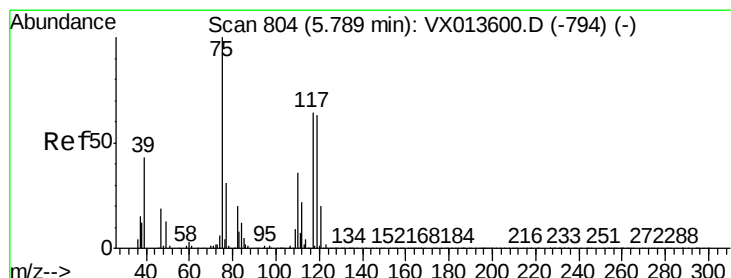
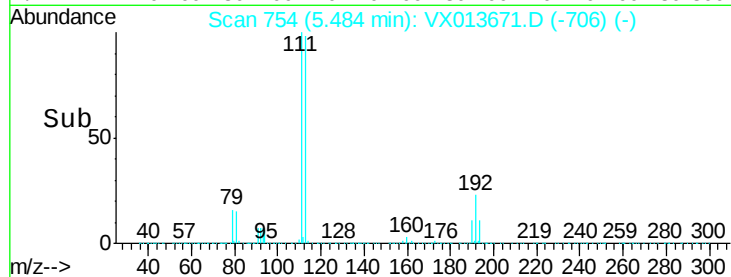
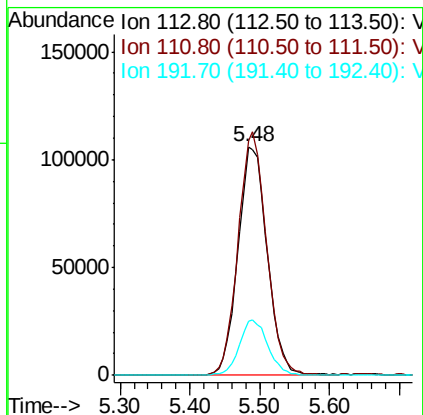
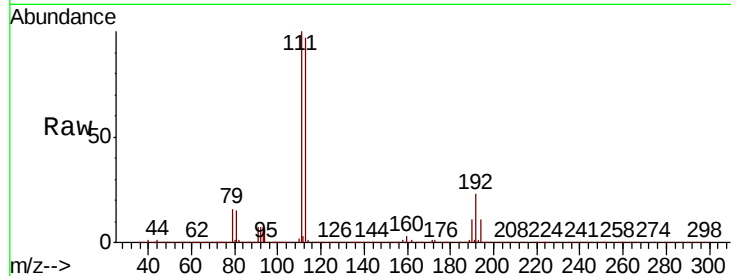
Delta R.T. -0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	113	Resp:	306890
Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.6	125.4
192	23.7	19.2	28.8



#36

1,1-Dichloropropene

Concen: 4.722 ug/l

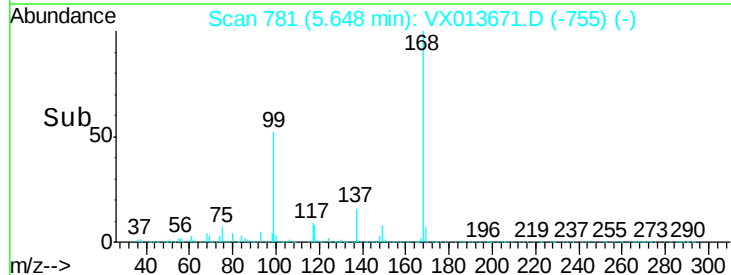
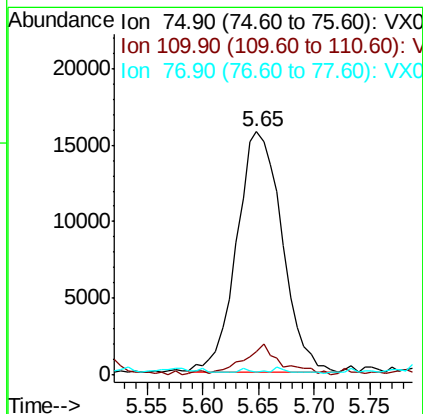
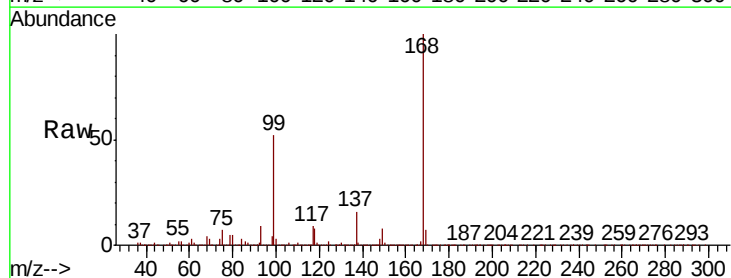
RT: 5.65 min Scan# 781

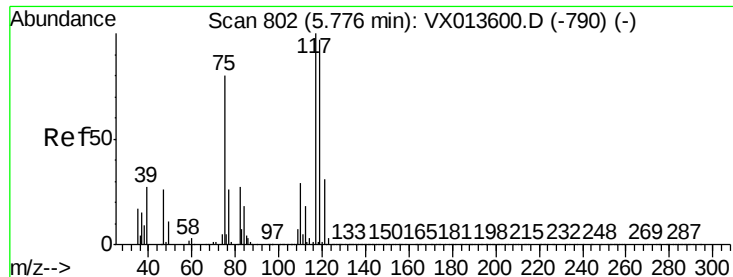
Delta R.T. -0.14 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Tgt Ion:	75	Resp:	44247
Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.1	54.1#
77	1.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.539 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampleId :

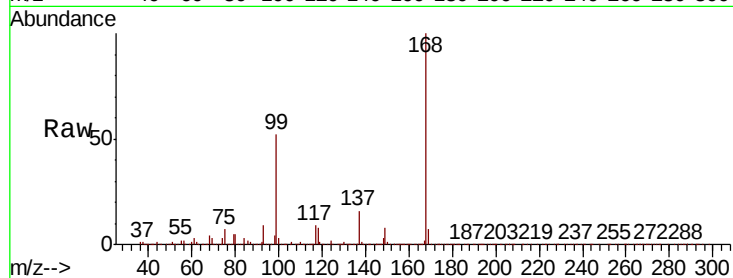
Tot Ion:117 Resp: 56491

Ion Ratio Lower Upper

117 100

119 5.2 77.5 116.3#

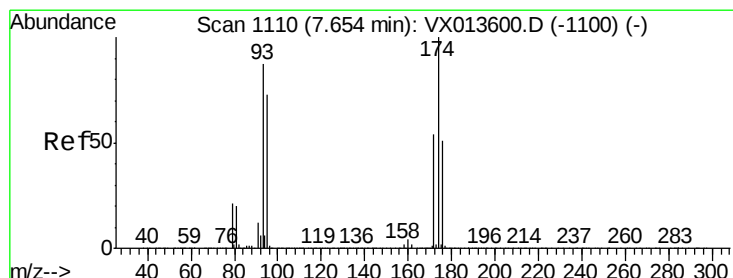
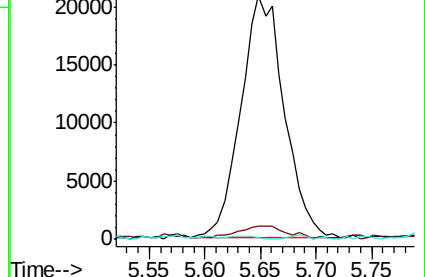
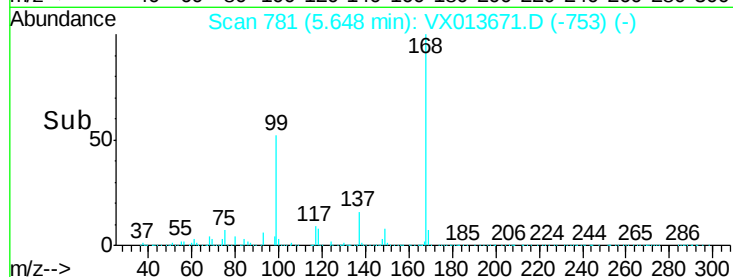
121 0.1 25.0 37.6#



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



#46

Dibromomethane

Concen: 0.214 ug/l

RT: 7.66 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

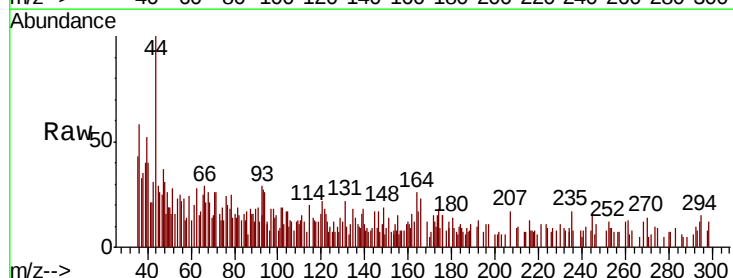
Tgt Ion: 93 Resp: 1037

Ion Ratio Lower Upper

93 100

95 40.4 66.2 99.2#

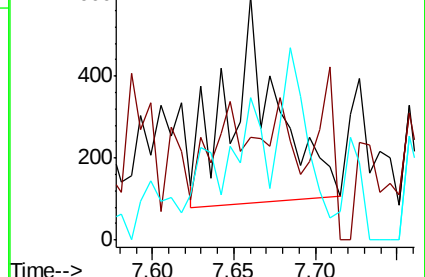
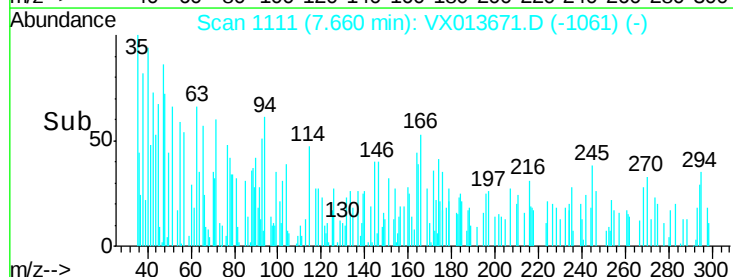
174 41.0 93.4 140.0#

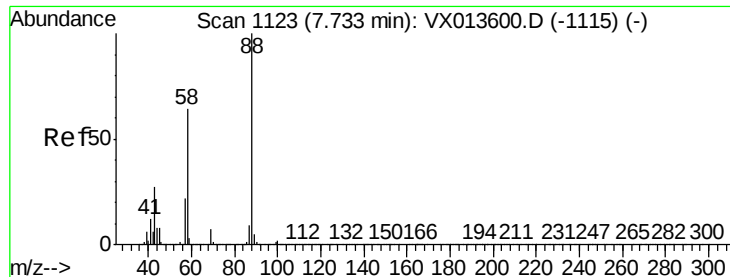


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V

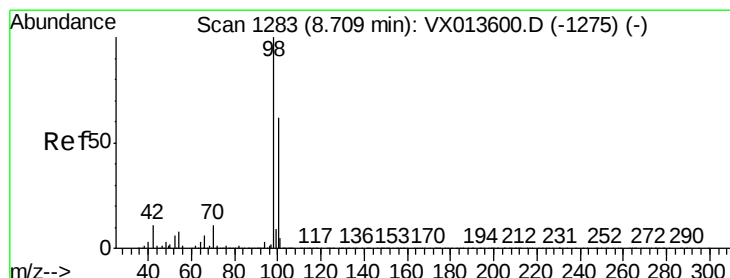
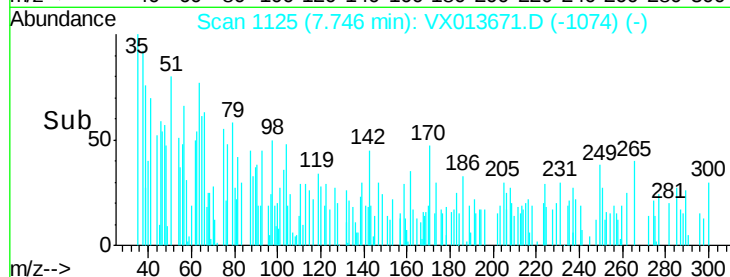
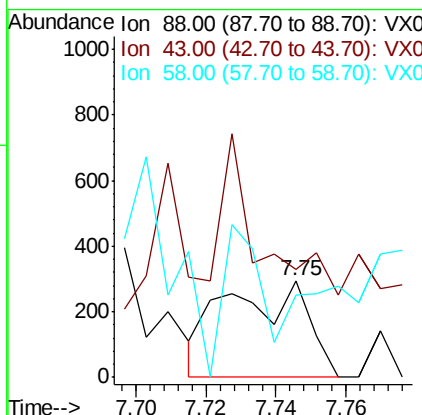
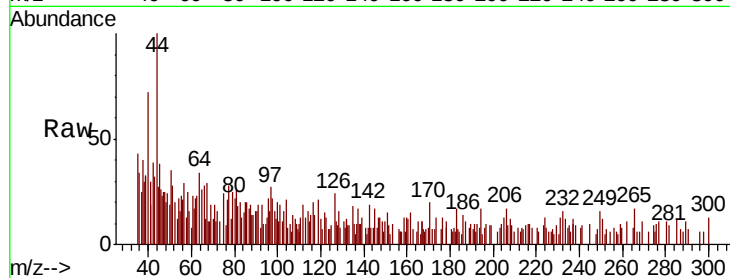




#49
1,4-Dioxane
Concen: 2.524 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

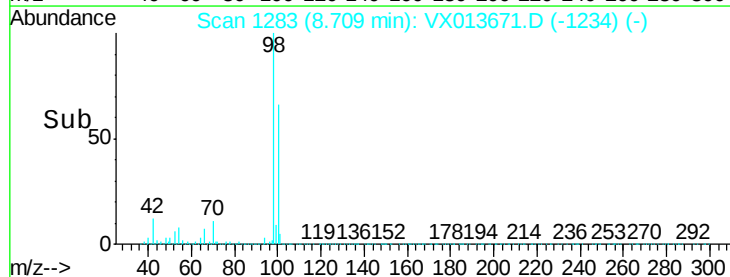
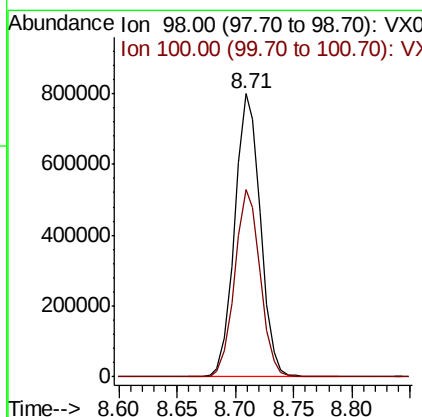
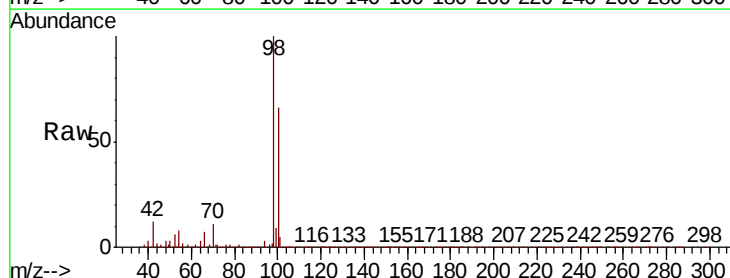
Instrument :
MSVOA_X
ClientSampleId :

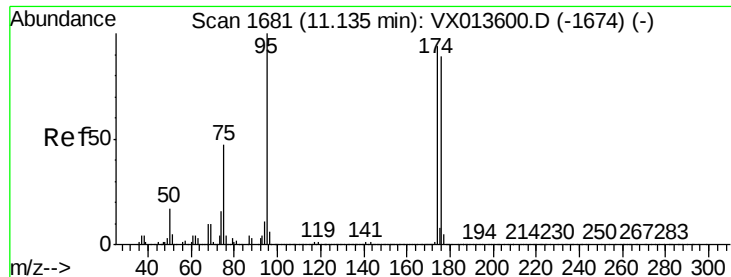
Tot Ion: 88 Resp: 475
Ion Ratio Lower Upper
88 100
43 72.8 25.8 38.6#
58 74.3 54.6 82.0



#50
Toluene-d8
Concen: 49.361 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

Tgt Ion: 98 Resp: 1227183
Ion Ratio Lower Upper
98 100
100 65.5 53.1 79.7

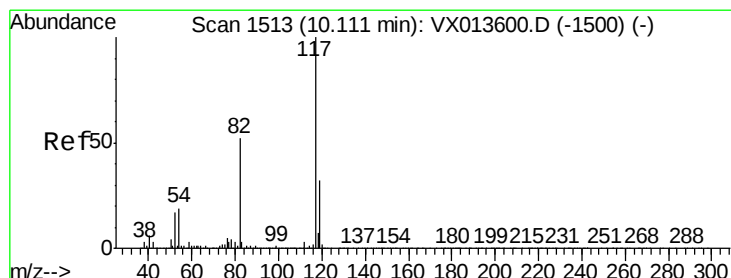
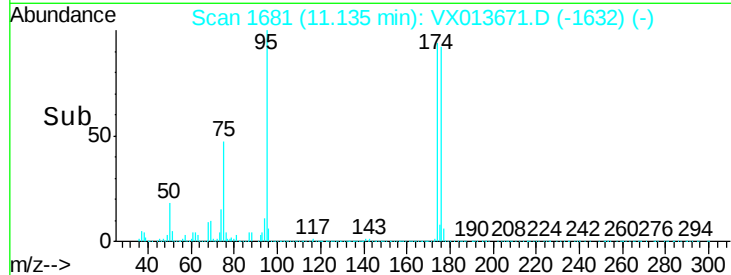
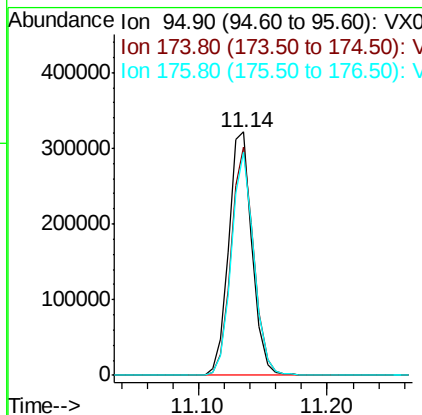
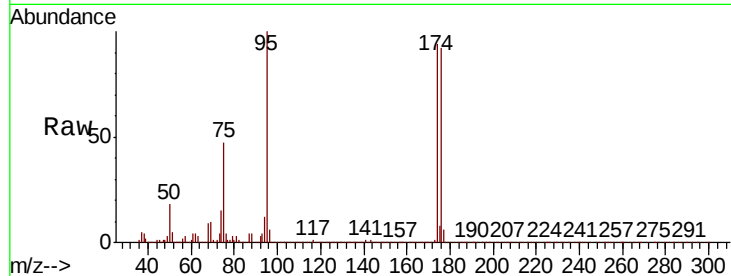




#62
4-Bromofluorobenzene
Concen: 45.915 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

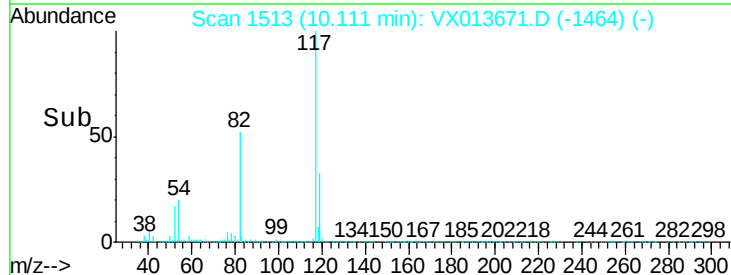
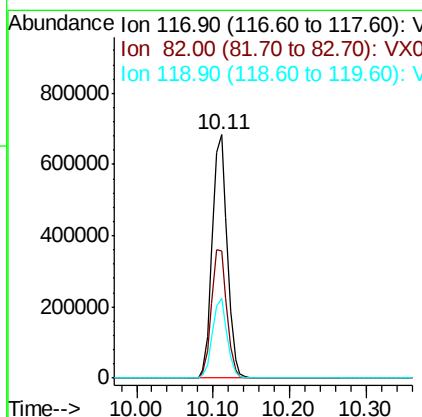
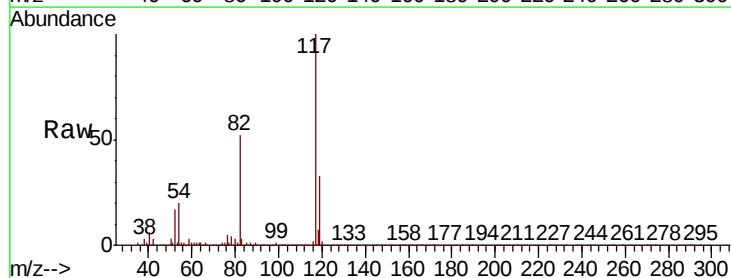
Instrument :
MSVOA_X
ClientSampleId :

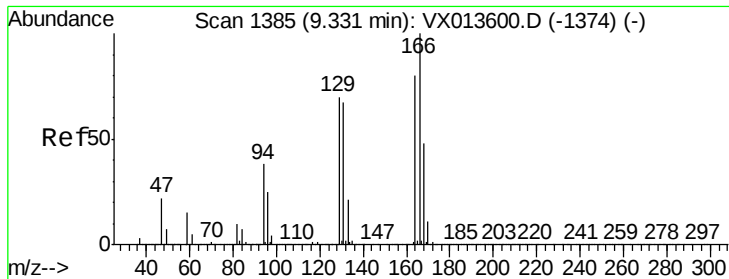
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.0	0.0	180.0
176	87.9	0.0	173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.3	41.8	62.8
119	32.6	25.8	38.8

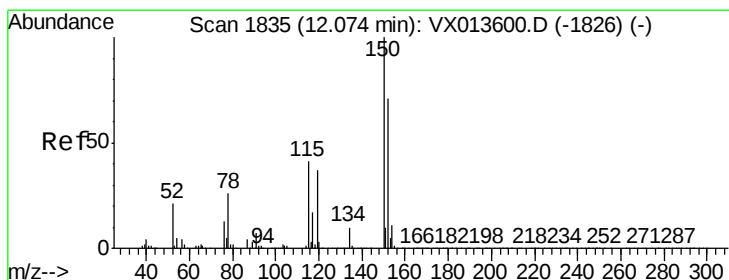
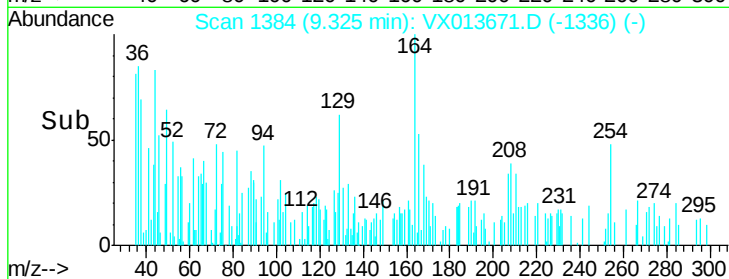
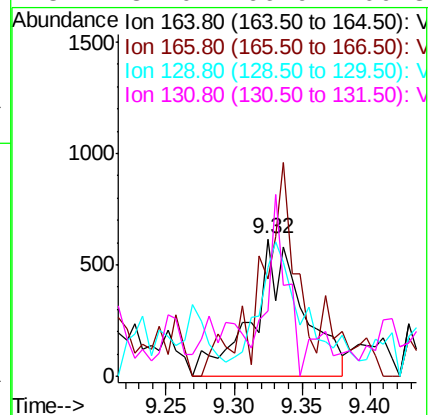
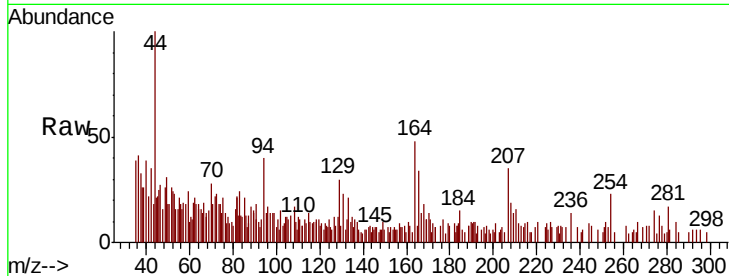




#64
Tetrachloroethene
Concen: 0.234 ug/l
RT: 9.32 min Scan# 1384
Delta R.T. -0.01 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

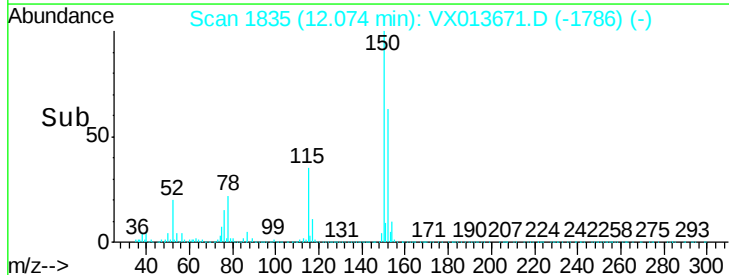
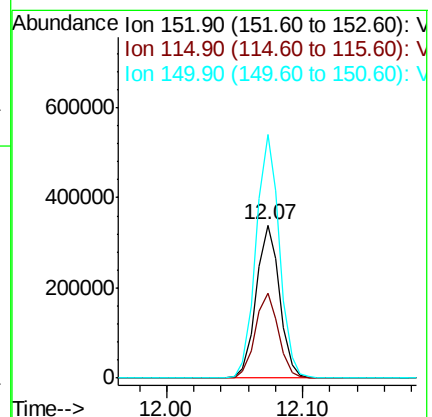
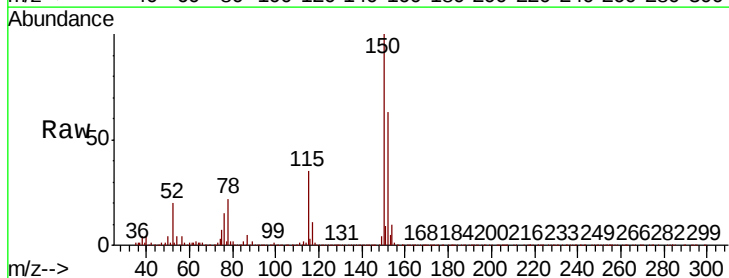
Instrument :
MSVOA_X
ClientSampled :

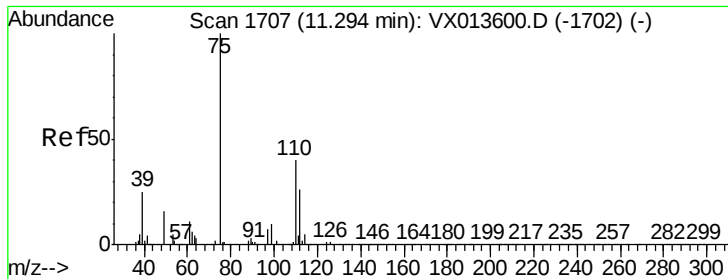
Tot Ion	Ratio	Lower	Upper
164	100		
166	70.8	99.7	149.5#
129	49.8	70.1	105.1#
131	32.0	66.9	100.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	38.4	115.1
150	158.8	0.0	346.8

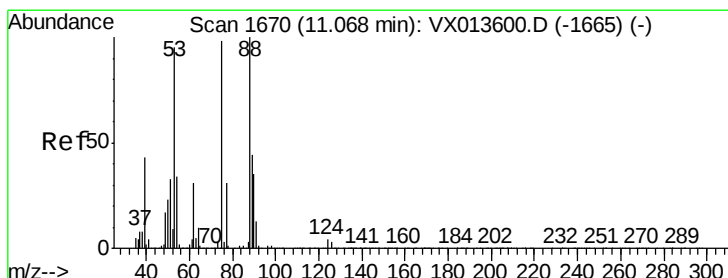
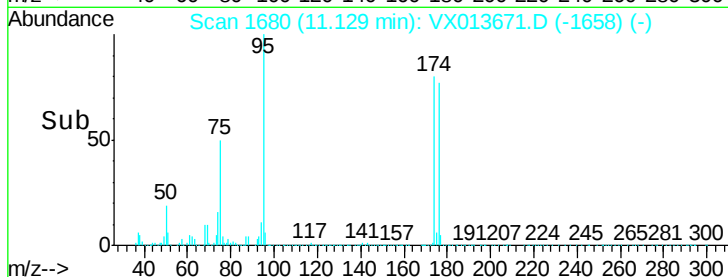
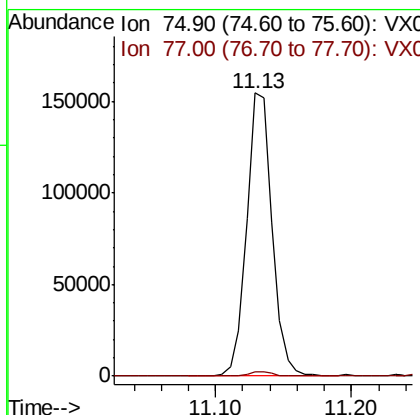
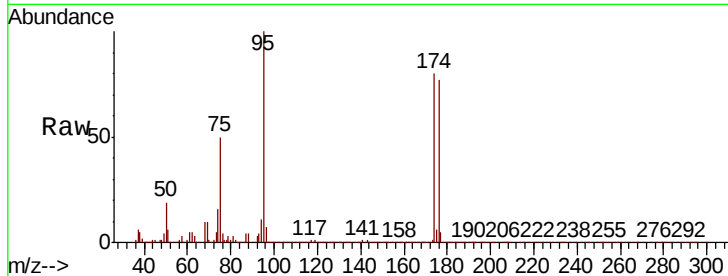




#76
 1,2,3-Trichloropropane
 Concen: 21.825 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX013671.D
 Acq: 27 Nov 2019 23:37

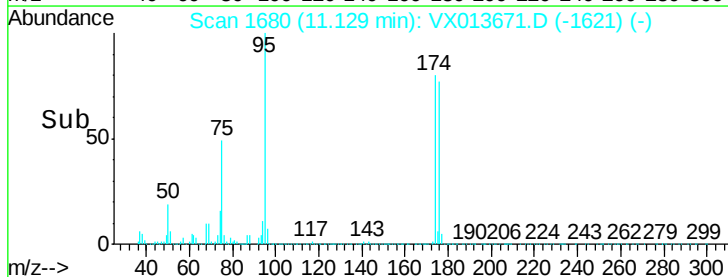
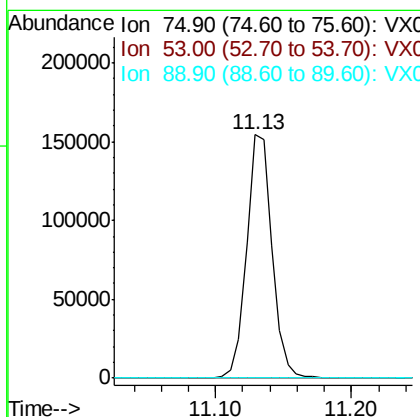
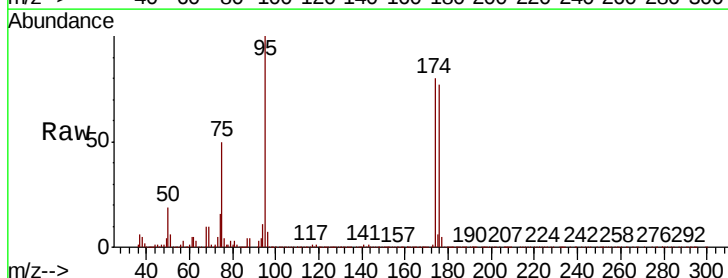
Instrument :
 MSVOA_X
 ClientSampleId :

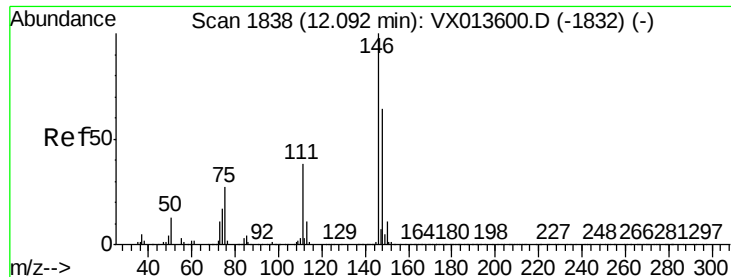
Tot Ion: 75 Resp: 202168
 Ion Ratio Lower Upper
 75 100
 77 1.8 19.1 57.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.709 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX013671.D
 Acq: 27 Nov 2019 23:37

Tgt Ion: 75 Resp: 202168
 Ion Ratio Lower Upper
 75 100
 53 0.2 78.2 117.2#
 89 0.1 35.4 53.2#





#88

1,4-Dichlorobenzene

Concen: 0.209 ug/l

RT: 12.09 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampleId :

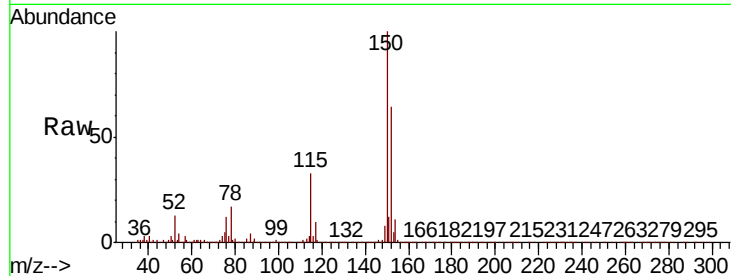
Tot Ion:146 Resp: 2900

Ion Ratio Lower Upper

146 100

111 212.4 18.9 56.9#

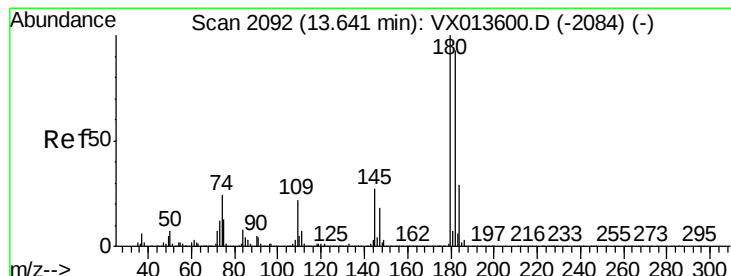
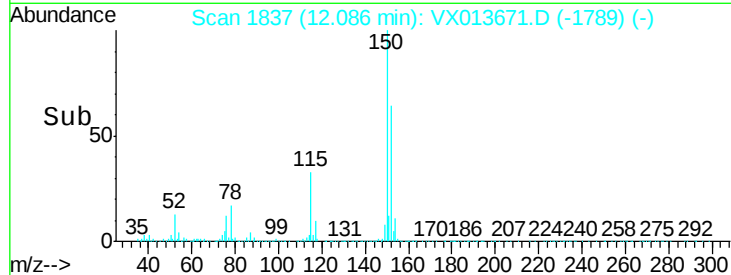
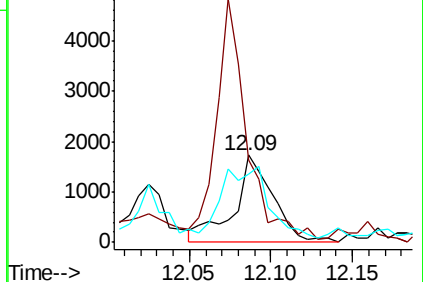
148 110.3 31.9 95.5#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.255 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

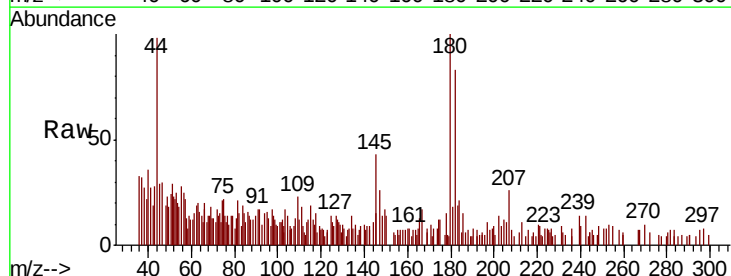
Tgt Ion:180 Resp: 2391

Ion Ratio Lower Upper

180 100

182 81.8 47.2 141.6

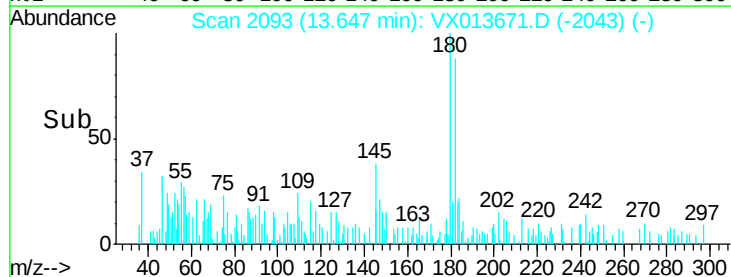
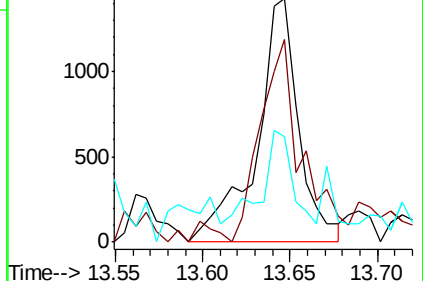
145 31.9 13.8 41.4

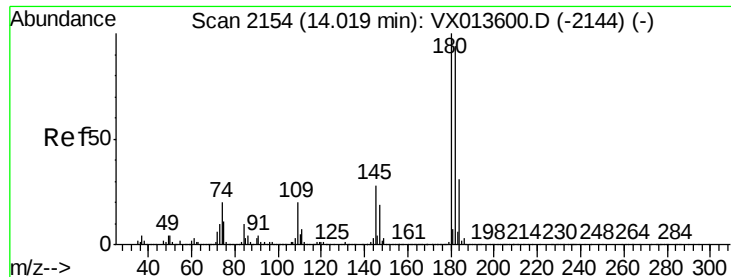


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.236 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VX013671.D
 Acq: 27 Nov 2019 23:37

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.6	142.8
145	39.0	15.0	45.0

