

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110119\
 Data File : VX013314.D
 Acq On : 01 Nov 2019 16:17
 Operator : JC/SP
 Sample : K5651-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 04 00:31:07 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	719554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1106494	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	989594	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	481115	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	422561	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
35) Dibromofluoromethane	5.49	113	327266	47.16	ug/l	0.00
Spiked Amount			Recovery	=	94.32%	
50) Toluene-d8	8.71	98	1313086	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	11.13	95	445978	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	

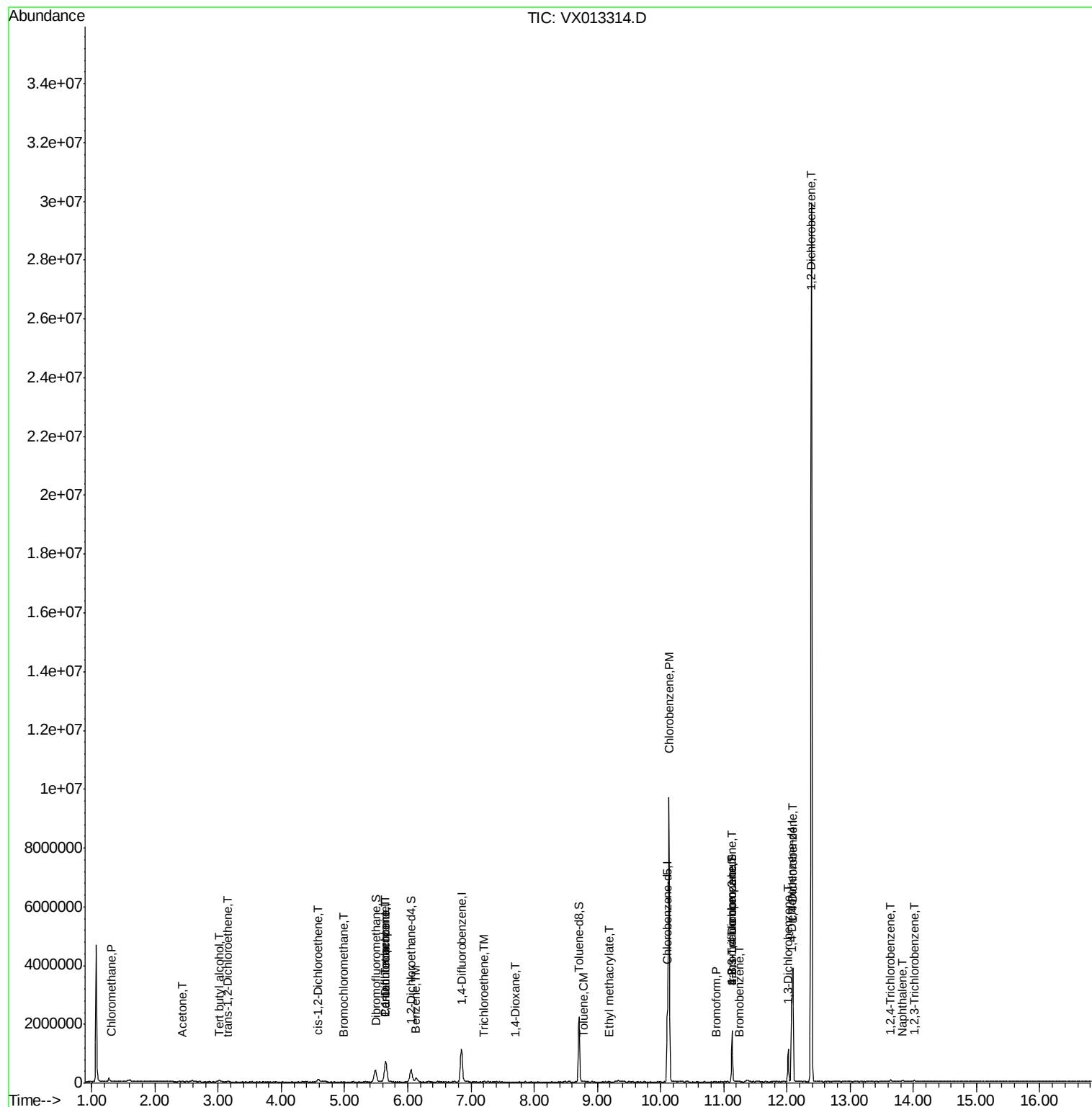
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	4328	0.481	ug/l #	84
6) Chloroethane	1.70	64	3178	Below Cal	#	56
11) Tert butyl alcohol	3.03	59	49963	22.237	ug/l	98
16) Acetone	2.43	43	17462	4.107	ug/l	96
21) trans-1,2-Dichloroethene	3.16	96	5122	0.713	ug/l	87
27) cis-1,2-Dichloroethene	4.59	96	57032	7.084	ug/l	87
28) Bromochloromethane	4.98	49	1087	0.296	ug/l #	21
36) 1,1-Dichloropropene	5.65	75	48623	5.122	ug/l #	52
38) Carbon Tetrachloride	5.65	117	65763	7.085	ug/l #	16
40) Benzene	6.14	78	152763	5.166	ug/l	99
44) Trichloroethene	7.21	130	1878	0.231	ug/l	73
49) 1,4-Dioxane	7.70	88	342	1.638	ug/l #	1
52) Toluene	8.78	92	5110	0.279	ug/l	93
56) Ethyl methacrylate	9.18	69	308	1.586	ug/l #	22
65) Chlorobenzene	10.14	112	4310646	215.158	ug/l	98
71) Bromoform	10.89	173	156	3.224	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	222674	22.787	ug/l #	34
77) Bromobenzene	11.25	156	1897	0.223	ug/l	77
81) trans-1,4-Dichloro-2-buten	11.13	75	222674	58.653	ug/l #	9
87) 1,3-Dichlorobenzene	12.02	146	362044	23.885	ug/l	99
88) 1,4-Dichlorobenzene	12.09	146	1213911	78.602	ug/l	100
91) 1,2-Dichlorobenzene	12.39	146	9515967	628.034	ug/l	96
93) 1,2,4-Trichlorobenzene	13.64	180	16396	1.551	ug/l	96
95) Naphthalene	13.83	128	24549	0.740	ug/l #	91
96) 1,2,3-Trichlorobenzene	14.01	180	14475	1.366	ug/l	99

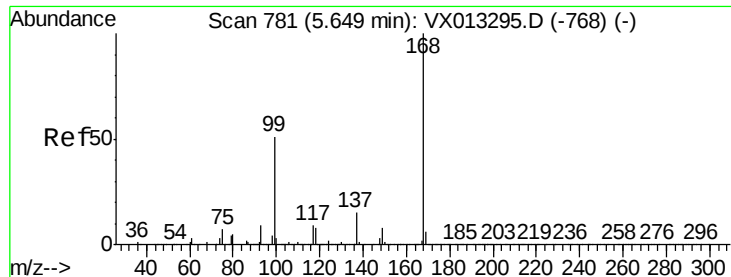
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX110119\
Data File : VX013314.D
Acq On : 01 Nov 2019 16:17
Operator : JC/SP
Sample : K5651-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Nov 04 00:31:07 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
Quant Title : SW846 8260
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: VX013314.D

Acq: 01 Nov 2019 16:17

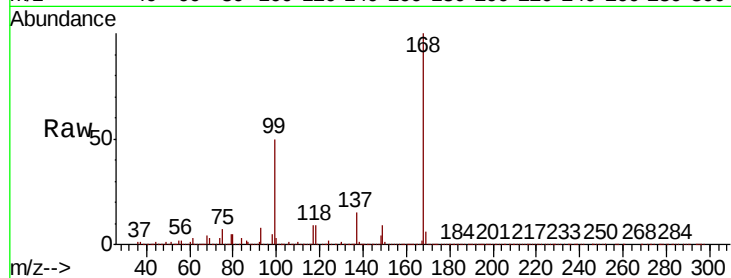
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 719554

Ion Ratio Lower Upper

168 100

99 49.7 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

250000

200000

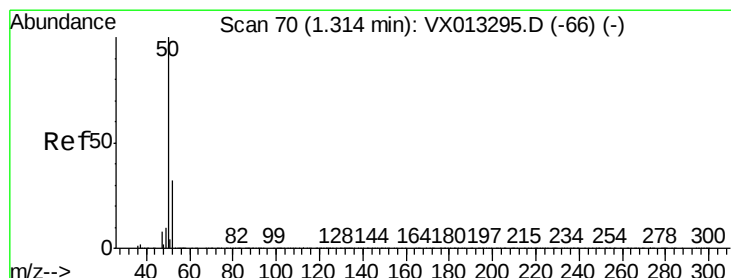
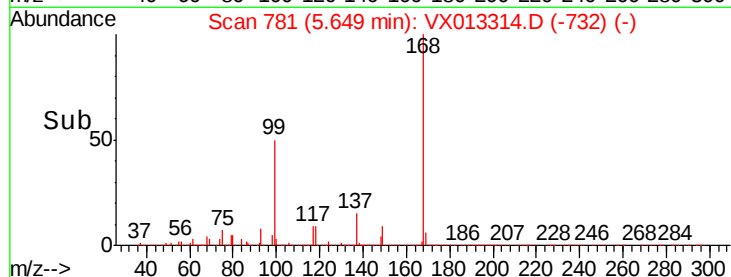
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.481 ug/l

RT: 1.31 min Scan# 70

Delta R.T. 0.00 min

Lab File: VX013314.D

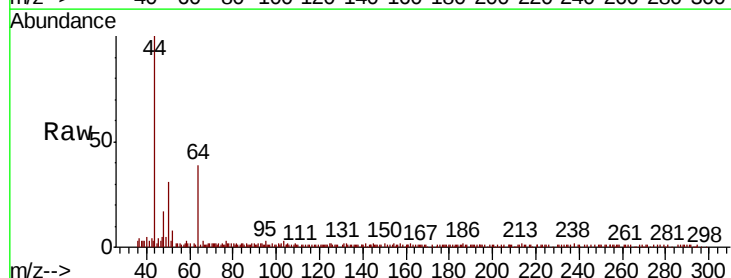
Acq: 01 Nov 2019 16:17

Tgt Ion: 50 Resp: 4328

Ion Ratio Lower Upper

50 100

52 23.1 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

5000

4000

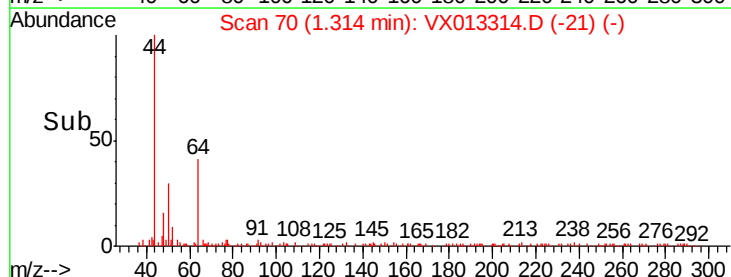
3000

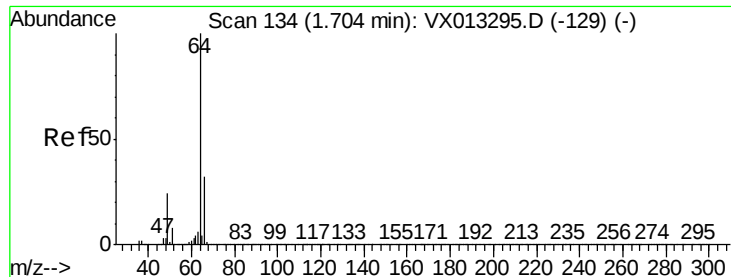
2000

1000

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

Instrument :

MSVOA_X

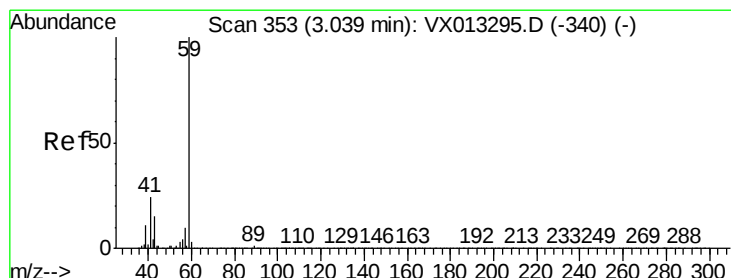
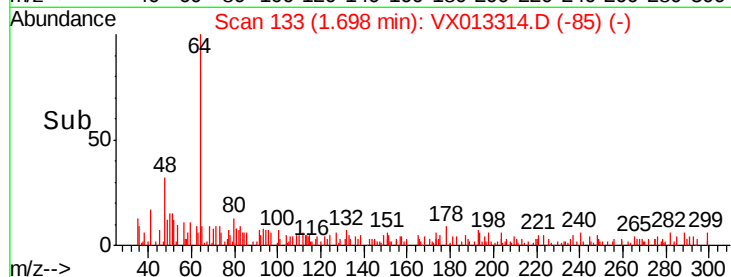
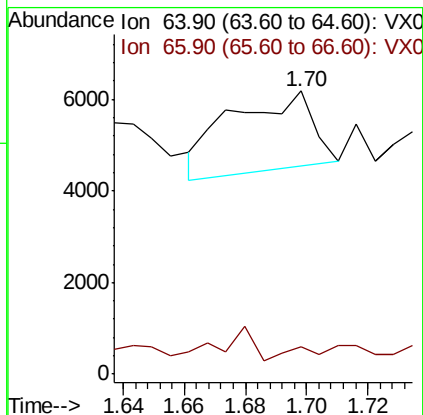
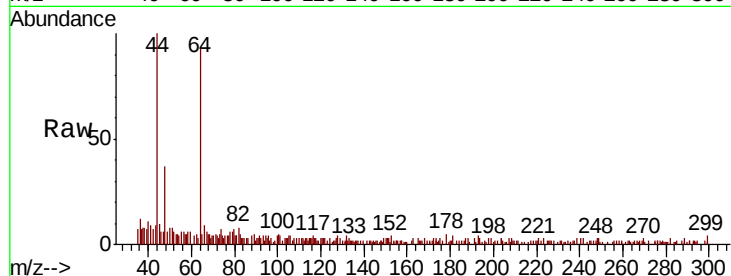
ClientSampleId :

Tot Ion: 64 Resp: 3178

Ion Ratio Lower Upper

64 100

66 7.4 25.6 38.4#



#11

Tert butyl alcohol

Concen: 22.237 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013314.D

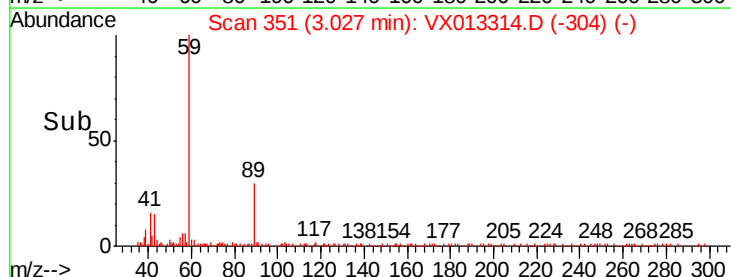
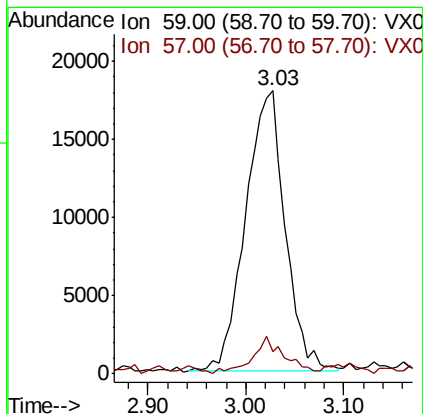
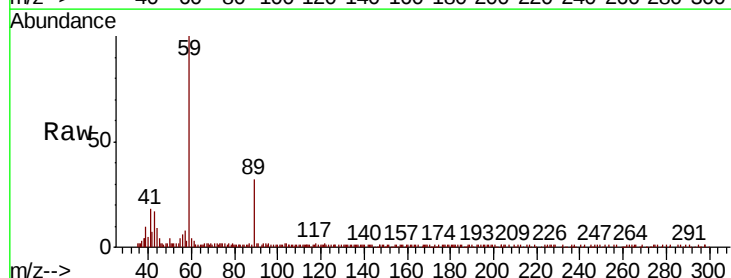
Acq: 01 Nov 2019 16:17

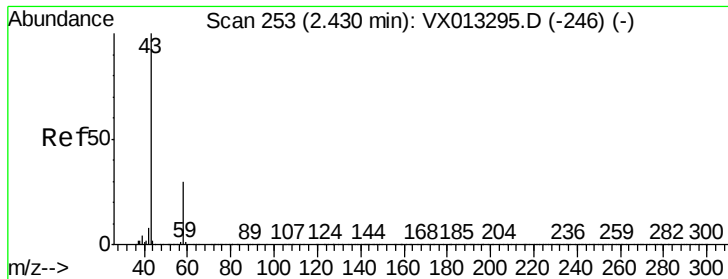
Tgt Ion: 59 Resp: 49963

Ion Ratio Lower Upper

59 100

57 10.9 8.0 12.0





#16

Acetone

Concen: 4.107 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

Instrument :

MSVOA_X

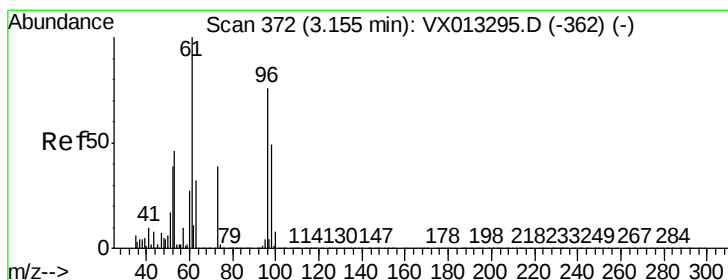
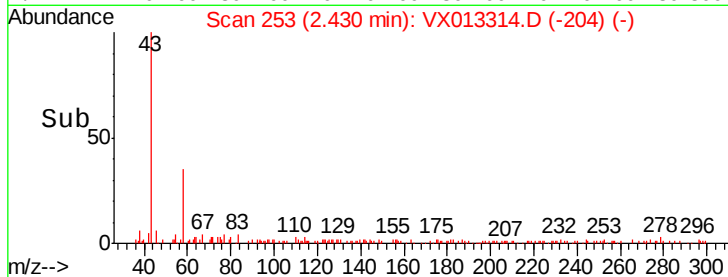
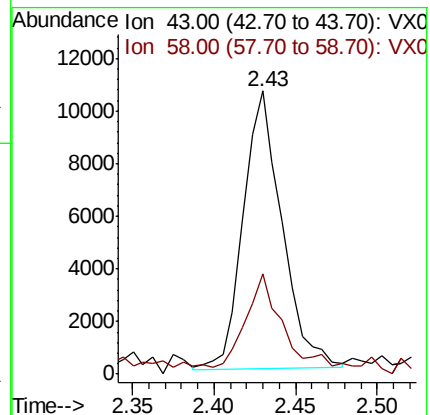
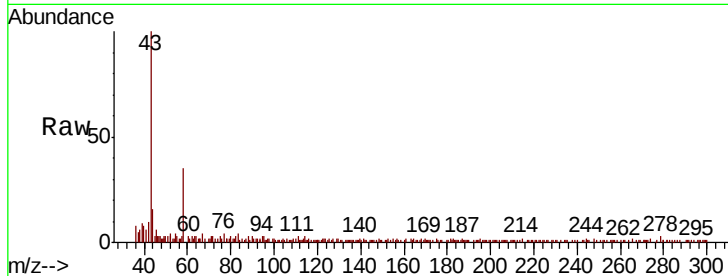
ClientSampleId :

Tot Ion: 43 Resp: 17462

Ion Ratio Lower Upper

43 100

58 32.4 24.3 36.5



#21

trans-1,2-Dichloroethene

Concen: 0.713 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

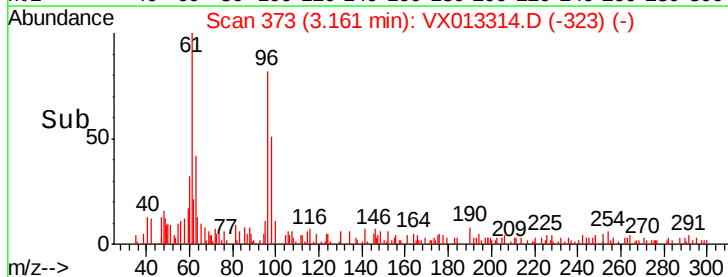
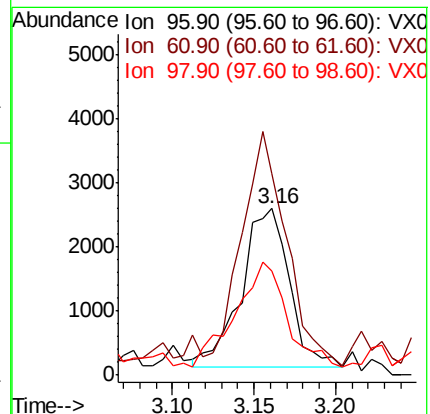
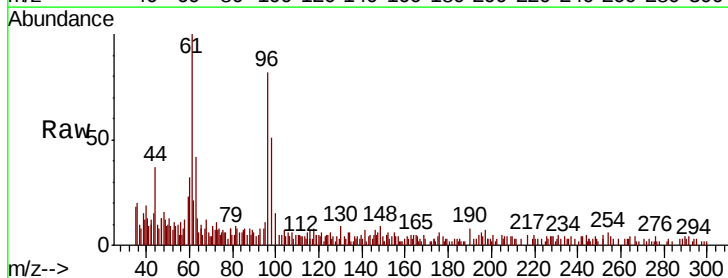
Tgt Ion: 96 Resp: 5122

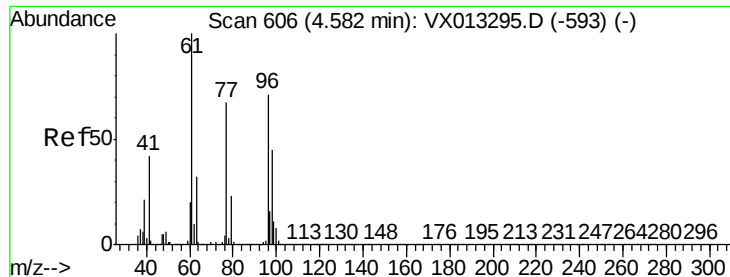
Ion Ratio Lower Upper

96 100

61 112.1 105.8 158.6

98 60.3 51.8 77.6



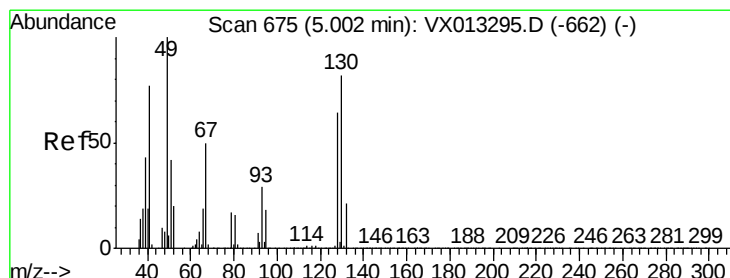
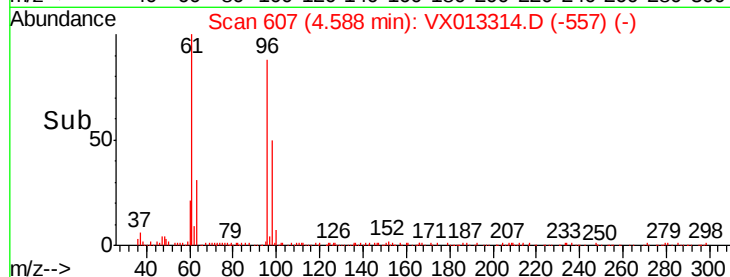
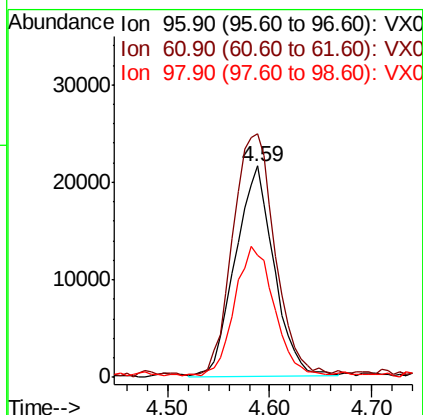
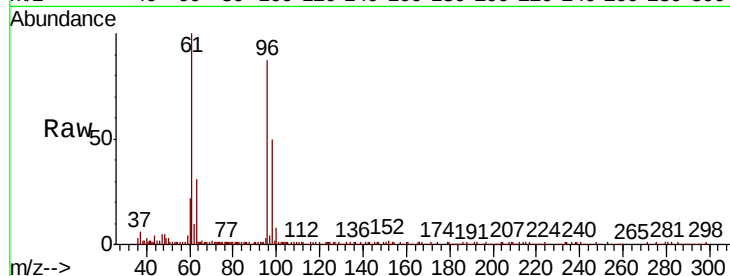


#27

cis-1,2-Dichloroethene
Concen: 7.084 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

Instrument :
MSVOA_X
ClientSampleId :

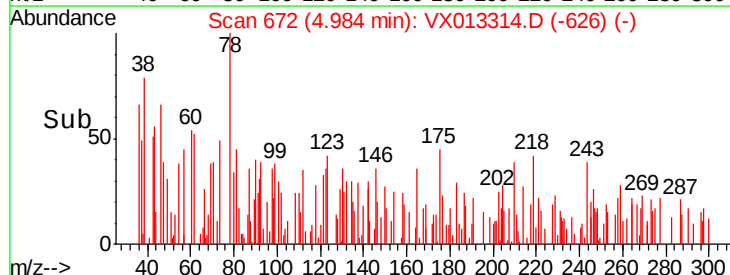
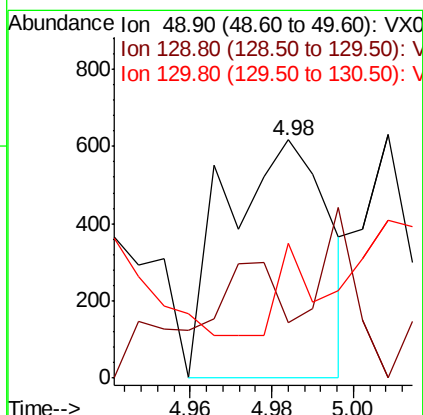
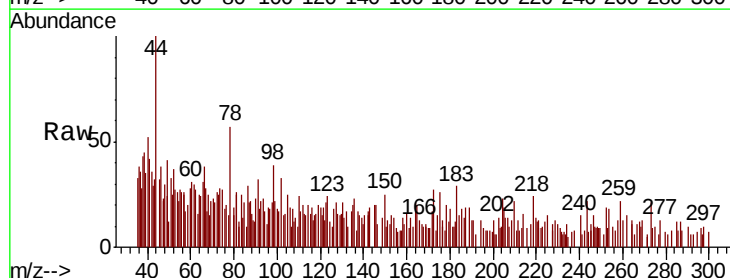
Tot Ion	Ratio	Lower	Upper
96	100		
61	123.7	0.0	288.0
98	61.2	0.0	129.6

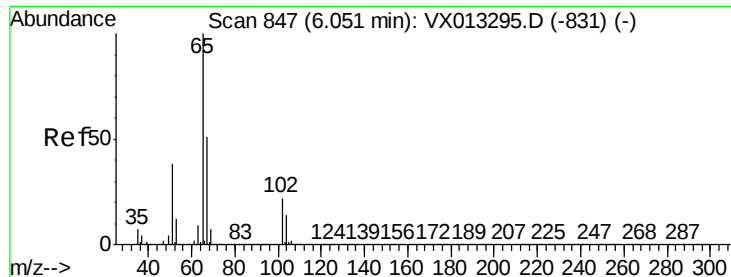


#28

Bromochloromethane
Concen: 0.296 ug/l
RT: 4.98 min Scan# 672
Delta R.T. -0.02 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

Tgt Ion	Ratio	Lower	Upper
49	100		
129	43.4	0.0	5.2#
130	10.9	63.8	95.6#





#33

1,2-Dichloroethane-d4

Concen: 49.570 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

Instrument :

MSVOA_X

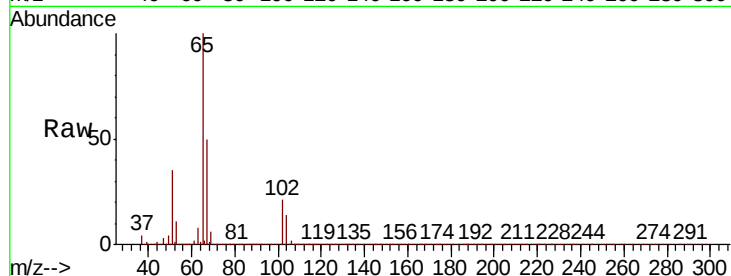
ClientSampleId :

Tot Ion: 65 Resp: 422561

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

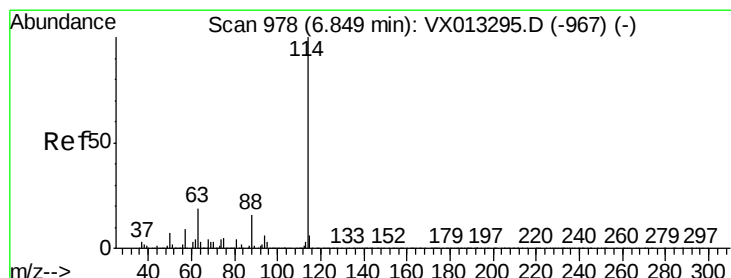
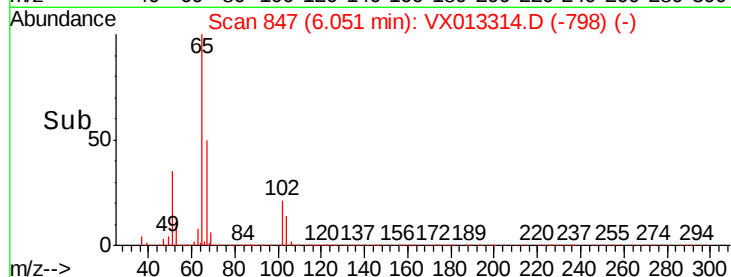
100000

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: VX013314.D

Acq: 01 Nov 2019 16:17

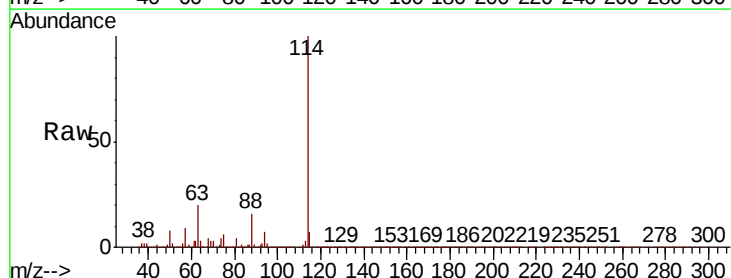
Tgt Ion: 114 Resp: 1106494

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.4

88 15.8 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

600000

500000

400000

300000

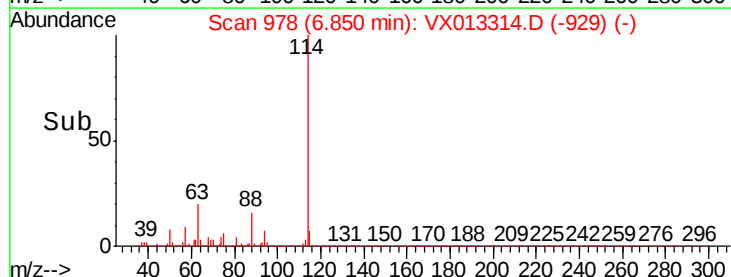
200000

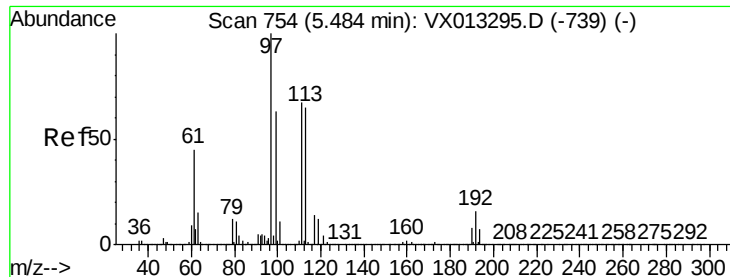
100000

0

Time-->

6.70 6.80 6.90 7.00

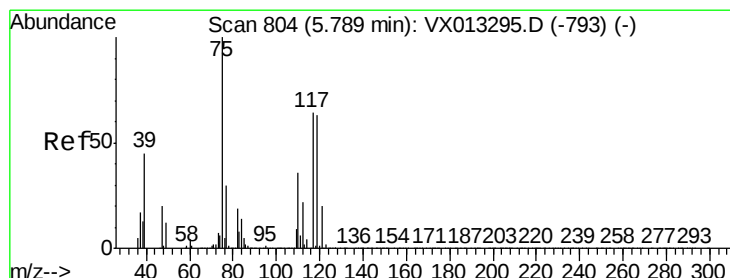
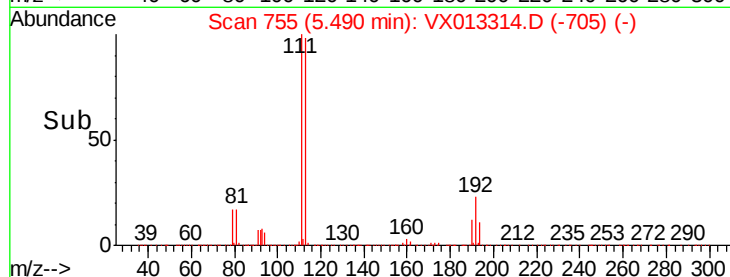
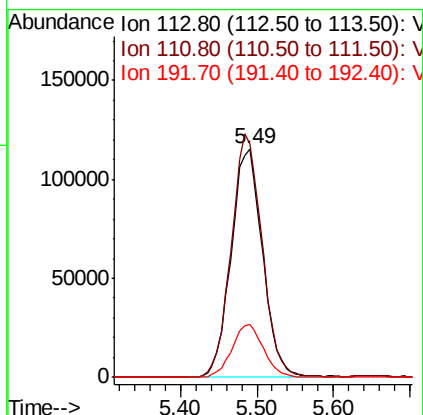
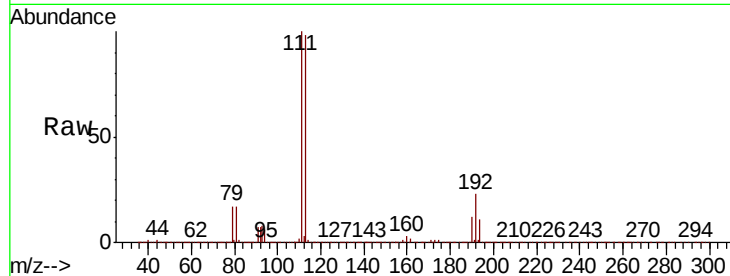




#35
 Dibromofluoromethane
 Concen: 47.156 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.01 min
 Lab File: VX013314.D
 Acq: 01 Nov 2019 16:17

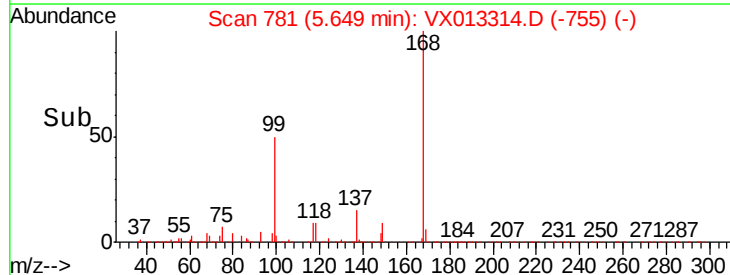
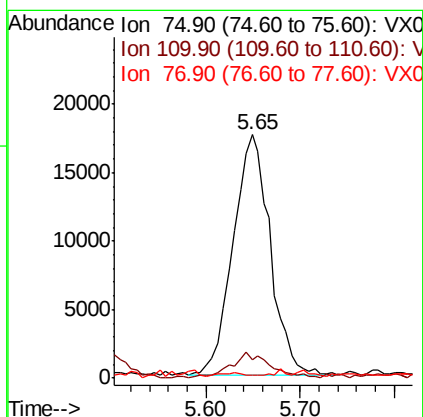
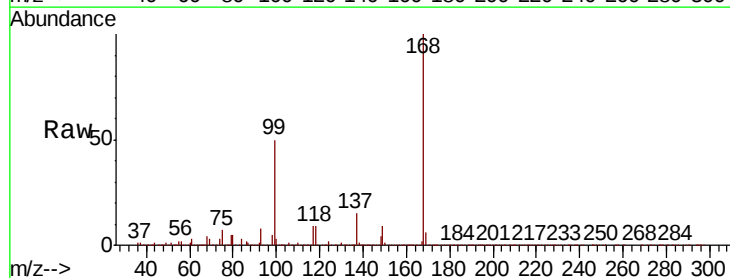
Instrument :
 MSVOA_X
 ClientSampleId :

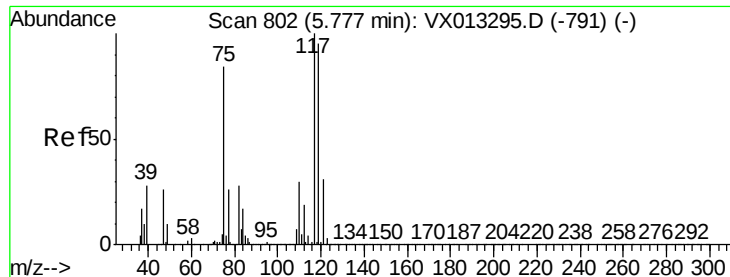
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.8	81.9	122.9
192	23.3	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 5.122 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013314.D
 Acq: 01 Nov 2019 16:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	18.1	54.1#
77	1.1	25.0	37.4#

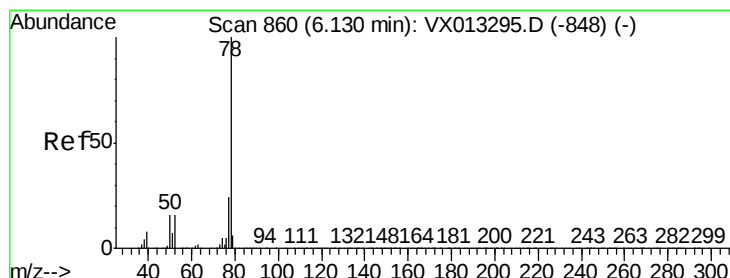
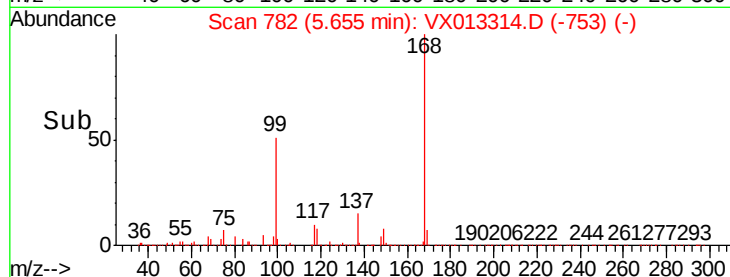
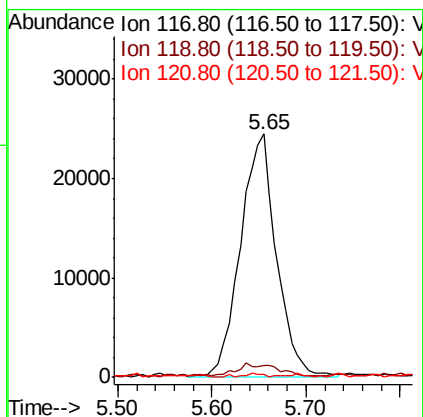
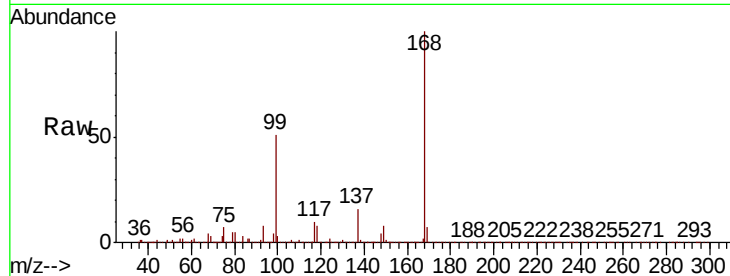




#38
Carbon Tetrachloride
Concen: 7.085 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

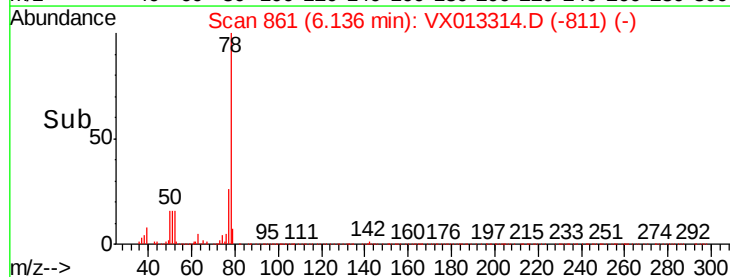
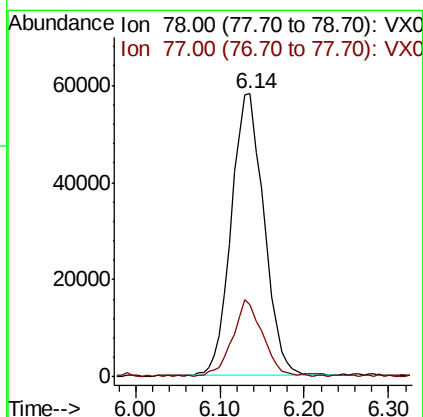
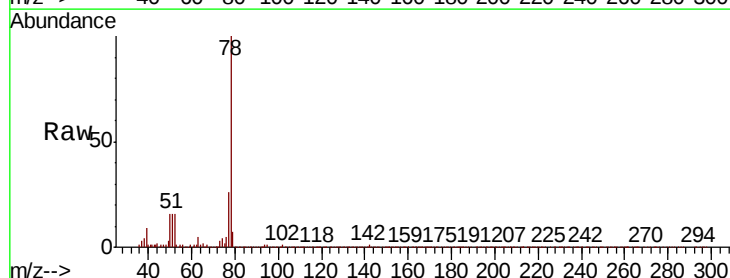
Instrument :
MSVOA_X
ClientSampleId :

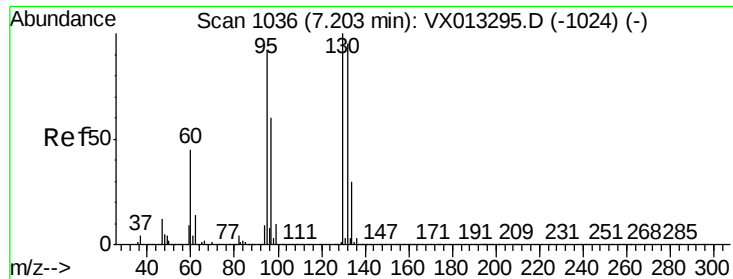
Tot Ion:117 Resp: 65763
Ion Ratio Lower Upper
117 100
119 4.1 76.1 114.1#
121 0.3 24.6 37.0#



#40
Benzene
Concen: 5.166 ug/l
RT: 6.14 min Scan# 861
Delta R.T. 0.01 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

Tgt Ion: 78 Resp: 152763
Ion Ratio Lower Upper
78 100
77 25.1 19.5 29.3





#44

Trichloroethene

Concen: 0.231 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

Instrument :

MSVOA_X

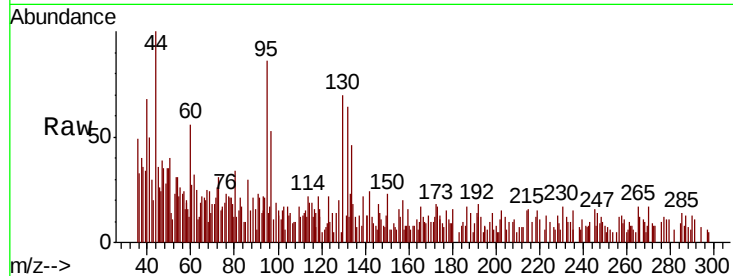
ClientSampled :

Tot Ion:130 Resp: 1878

Ion Ratio Lower Upper

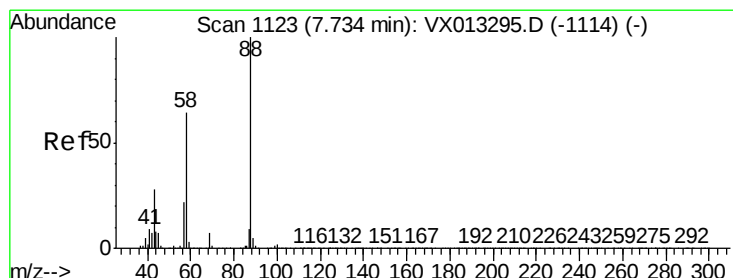
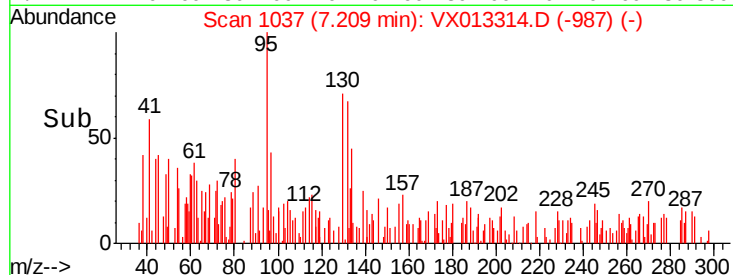
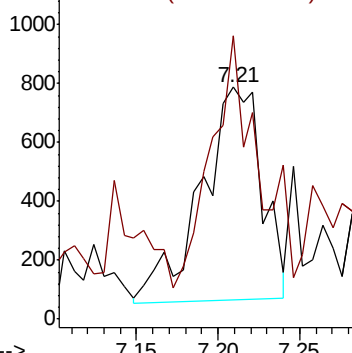
130 100

95 117.9 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 1.638 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.03 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

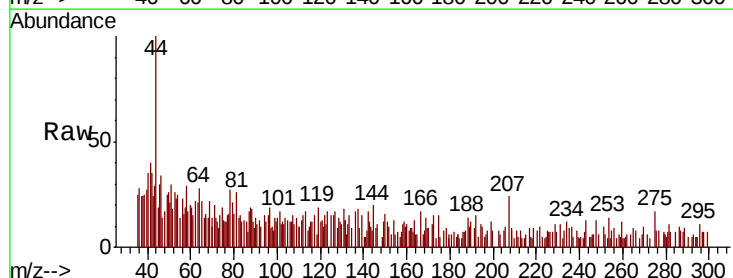
Tgt Ion: 88 Resp: 342

Ion Ratio Lower Upper

88 100

43 283.0 26.6 39.8#

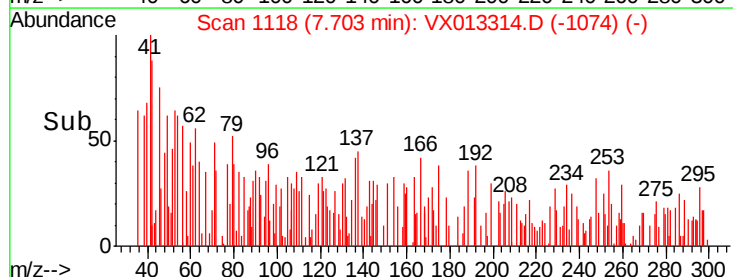
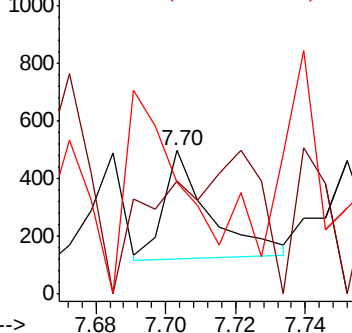
58 0.0 55.0 82.6#

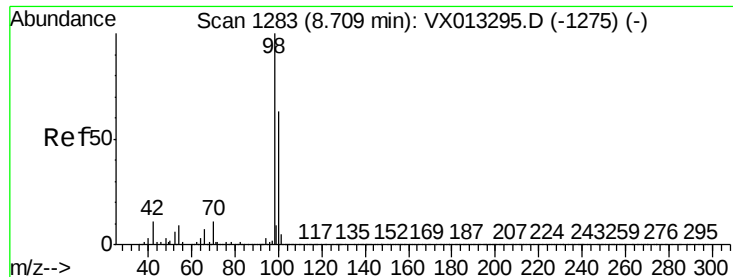


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

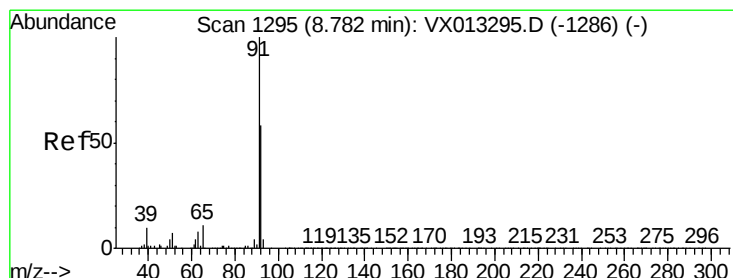
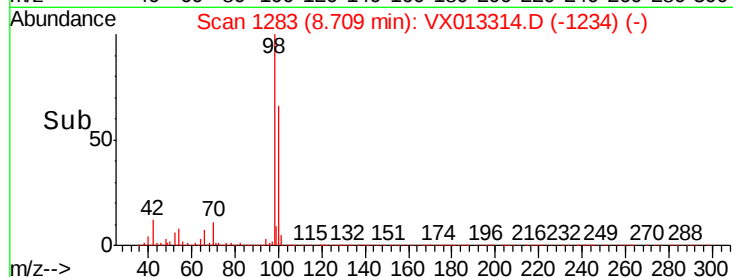
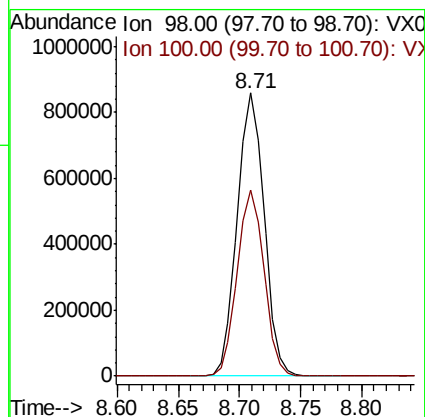
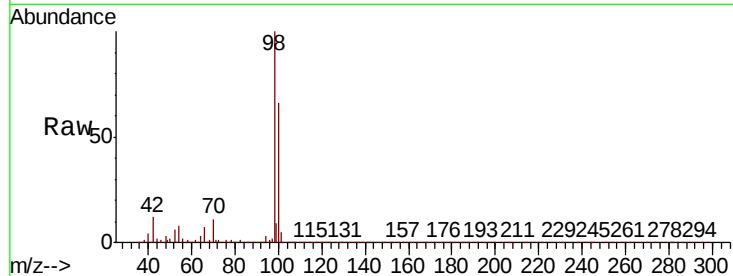




#50
Toluene-d8
Concen: 50.188 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

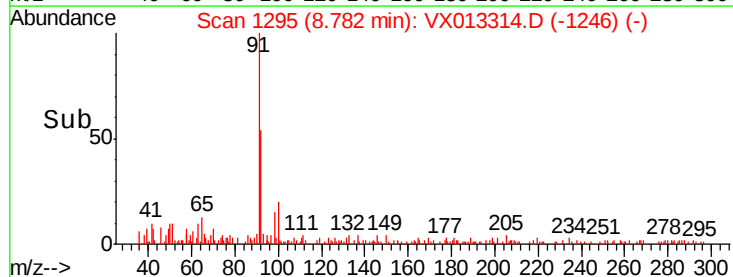
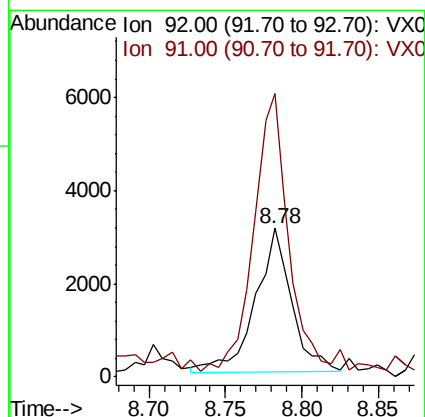
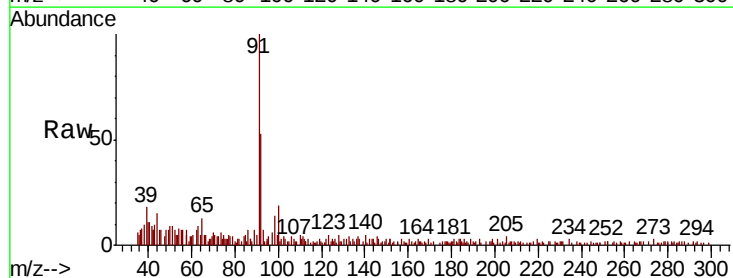
Instrument :
MSVOA_X
ClientSampleId :

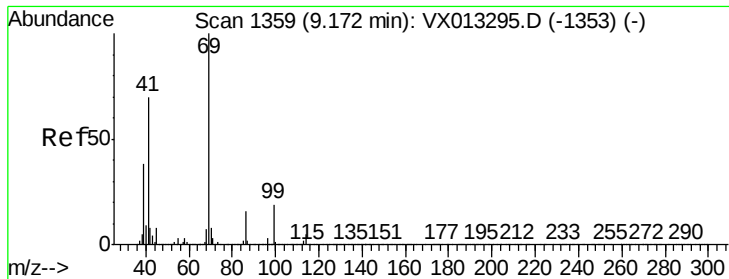
Tot Ion: 98 Resp: 1313086
Ion Ratio Lower Upper
98 100
100 65.4 52.2 78.2



#52
Toluene
Concen: 0.279 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

Tgt Ion: 92 Resp: 5110
Ion Ratio Lower Upper
92 100
91 182.6 138.0 207.0

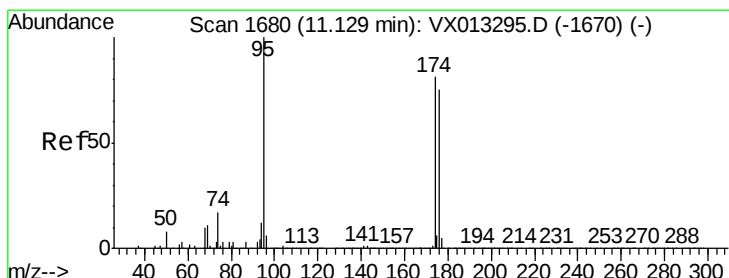
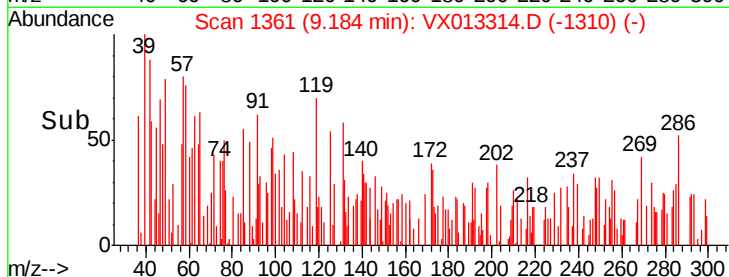
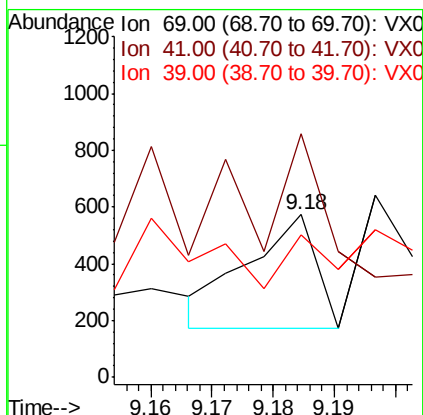
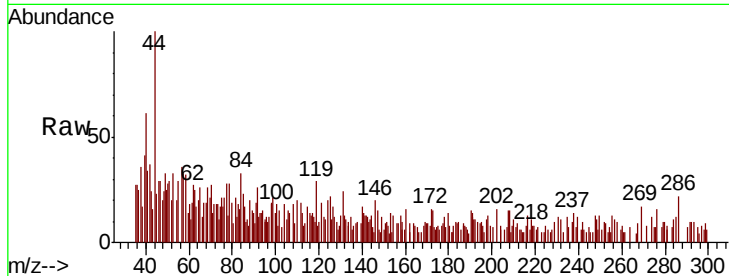




#56
Ethyl methacrylate
Concen: 1.586 ug/l
RT: 9.18 min Scan# 1361
Delta R.T. 0.01 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

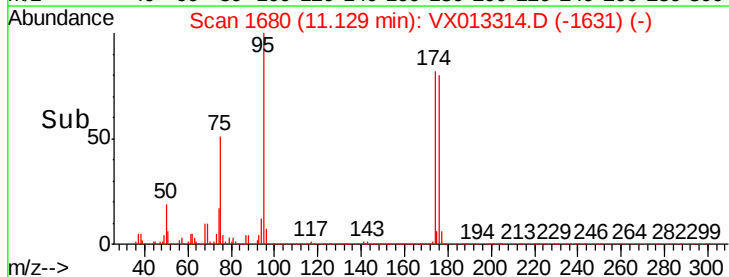
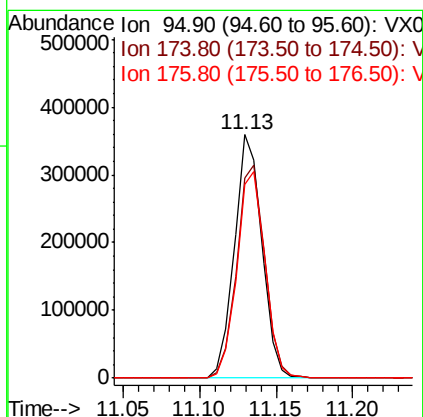
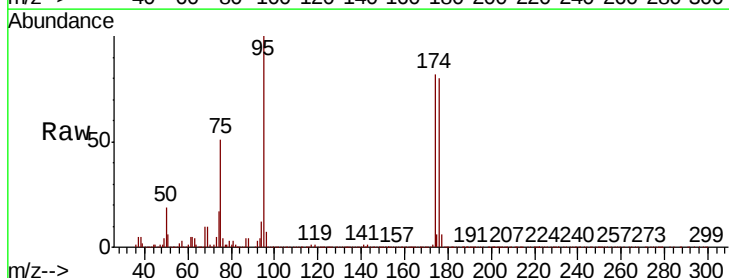
Instrument :
MSVOA_X
ClientSampled :

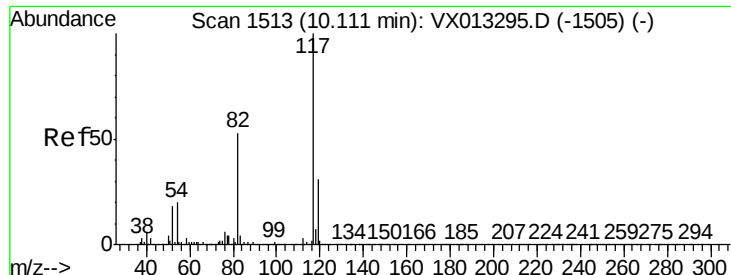
Tot Ion: 69 Resp: 308
Ion Ratio Lower Upper
69 100
41 0.0 56.2 84.2#
39 0.0 31.1 46.7#



#62
4-Bromofluorobenzene
Concen: 47.231 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

Tgt Ion: 95 Resp: 445978
Ion Ratio Lower Upper
95 100
174 89.9 0.0 179.8
176 87.1 0.0 173.0

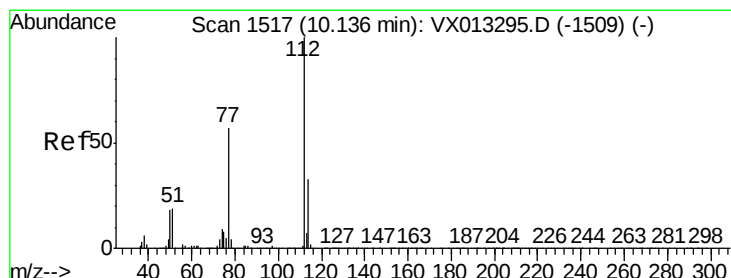
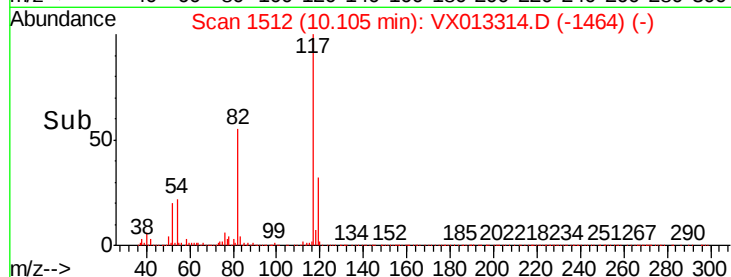
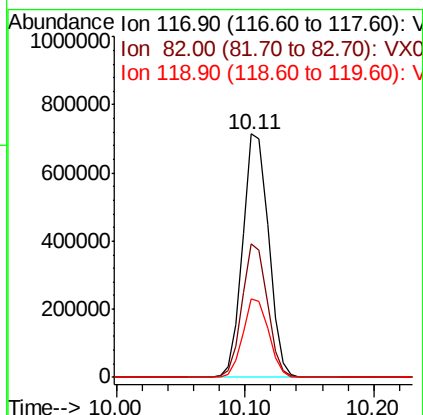
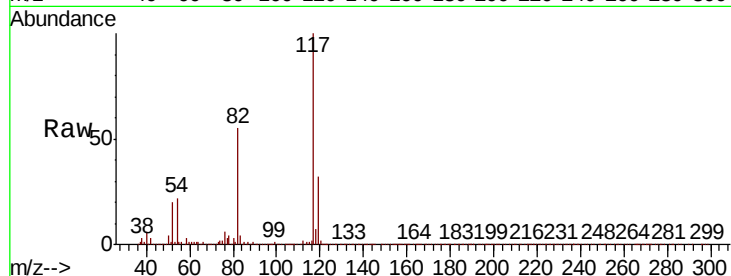




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

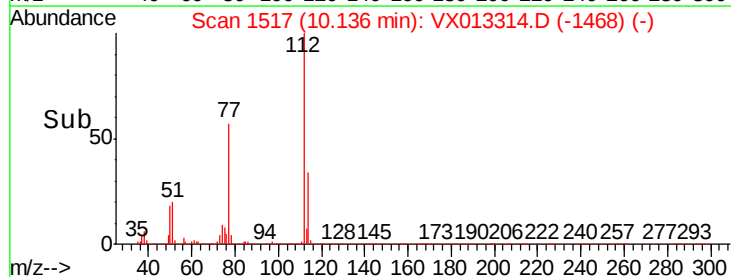
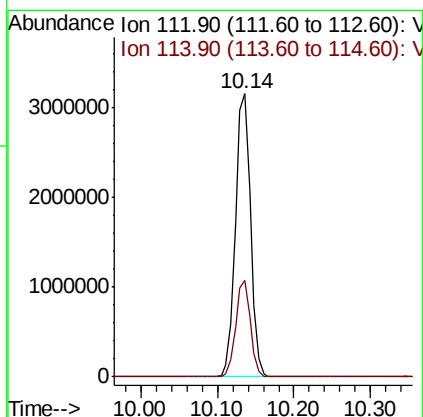
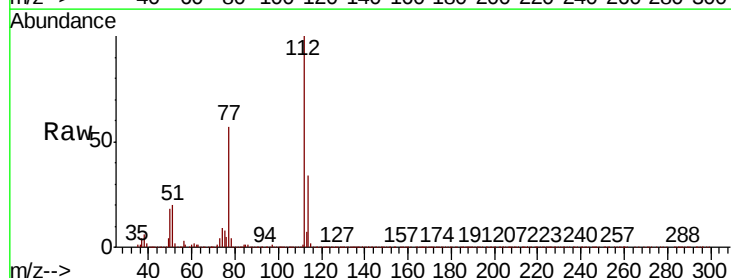
Instrument :
MSVOA_X
ClientSampleId :

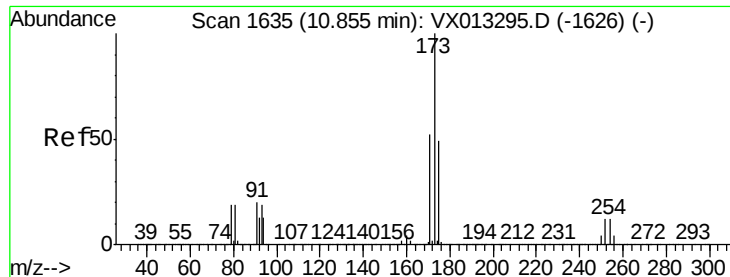
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.8	42.6	64.0
119	32.1	24.8	37.2



#65
Chlorobenzene
Concen: 215.158 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.9	26.4	39.6

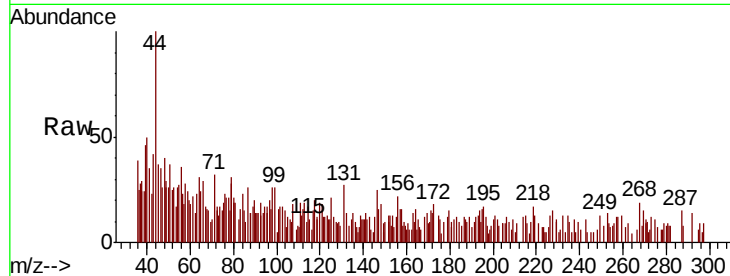




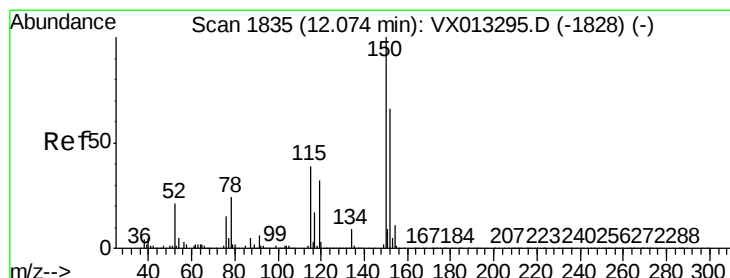
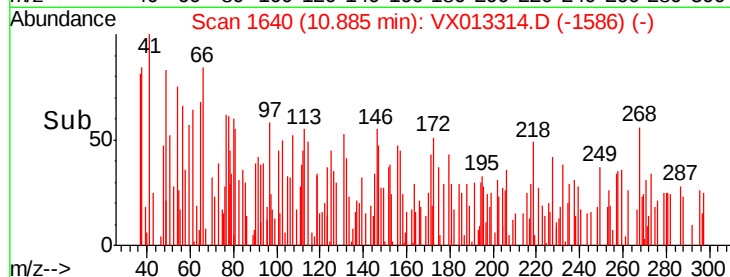
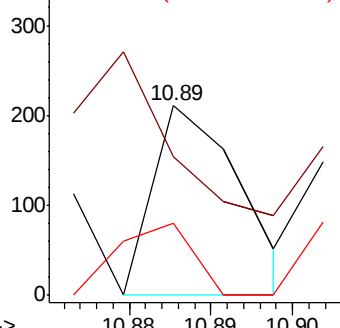
#71
Bromoform
Concen: 3.224 ug/l
RT: 10.89 min Scan# 1640
Delta R.T. 0.03 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:173 Resp: 156
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 32.7 0.2 0.2#

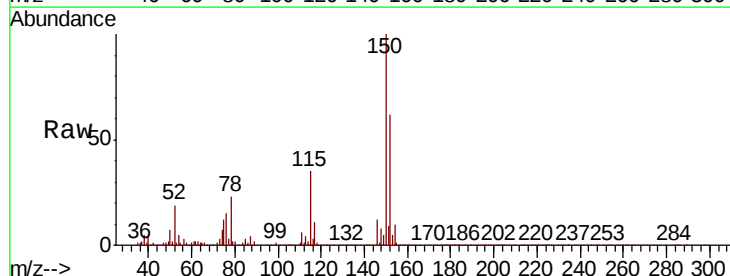


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

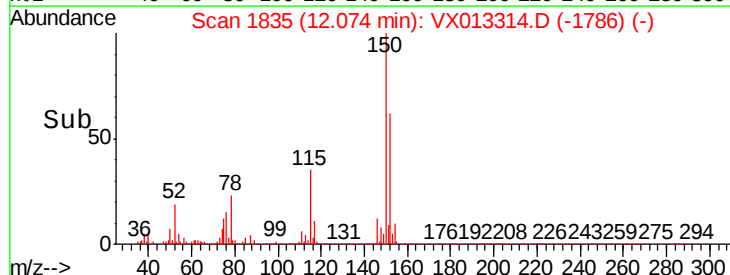
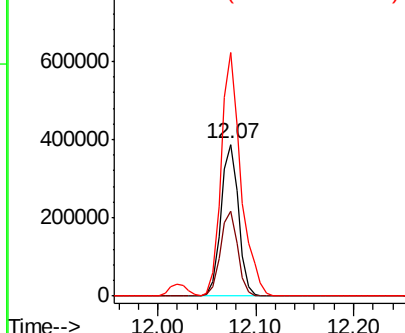


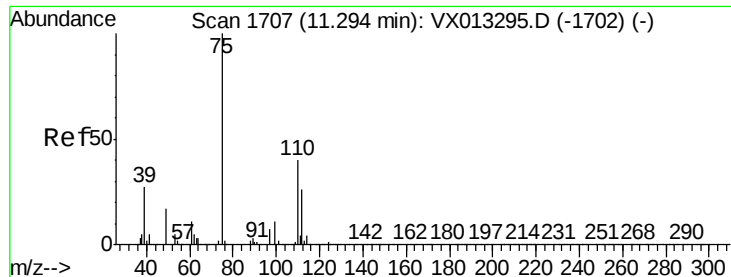
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013314.D
Acq: 01 Nov 2019 16:17

Tgt Ion:152 Resp: 481115
Ion Ratio Lower Upper
152 100
115 55.1 39.5 118.3
150 179.4 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: 22.787 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

Instrument :

MSVOA_X

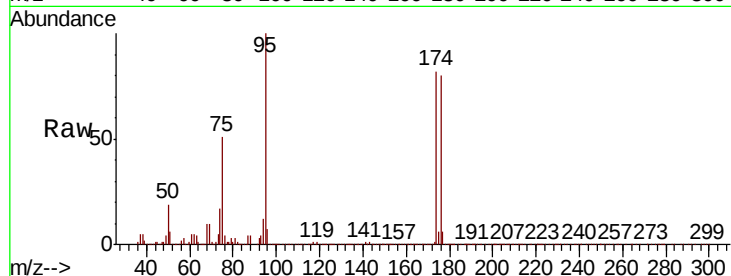
ClientSampled :

Tot Ion: 75 Resp: 222674

Ion Ratio Lower Upper

75 100

77 1.7 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

200000

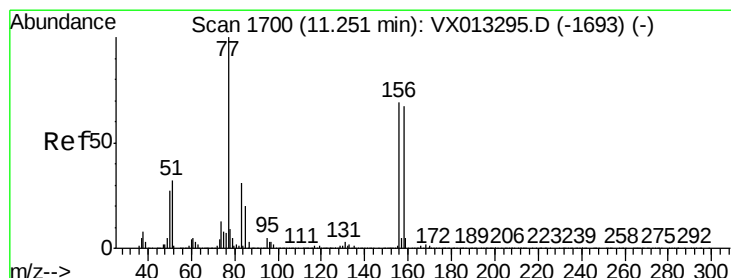
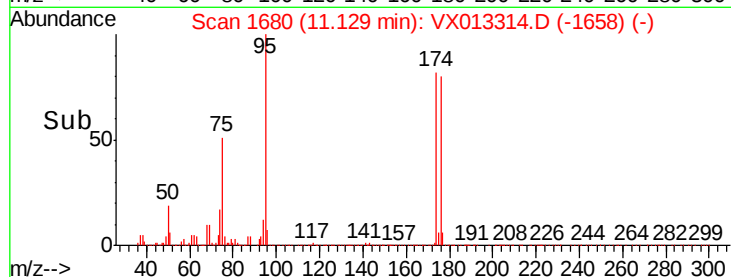
150000

100000

50000

0

Time-->



#77

Bromobenzene

Concen: 0.223 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

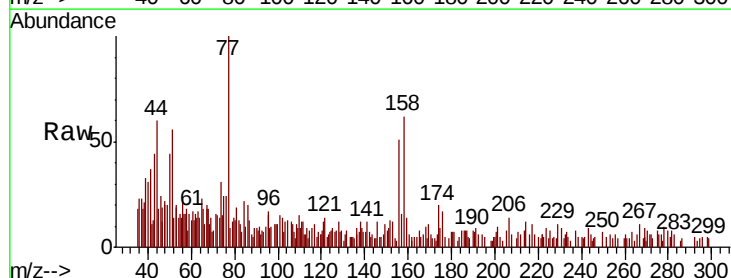
Tgt Ion: 156 Resp: 1897

Ion Ratio Lower Upper

156 100

77 111.9 75.8 227.4

158 84.8 47.6 142.8



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V

2500

2000

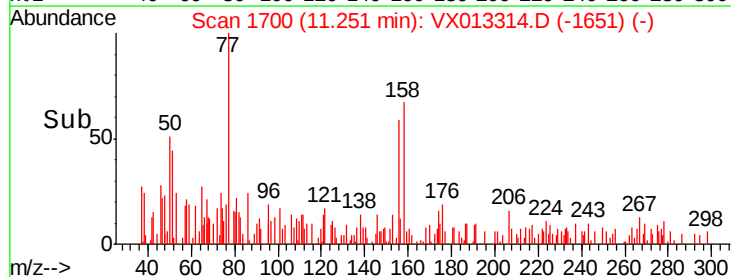
1500

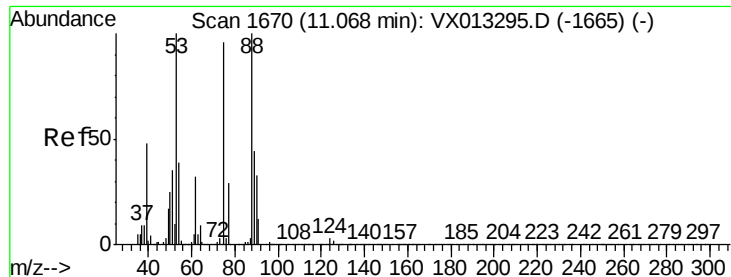
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 58.653 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

Instrument :

MSVOA_X

ClientSampled :

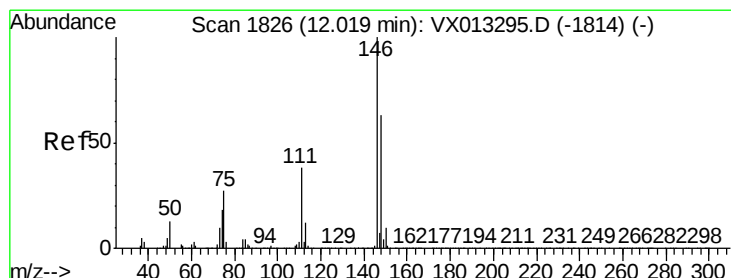
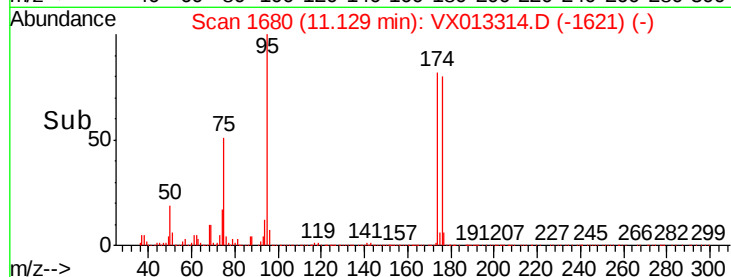
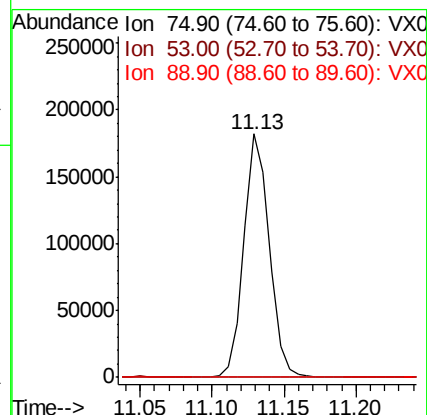
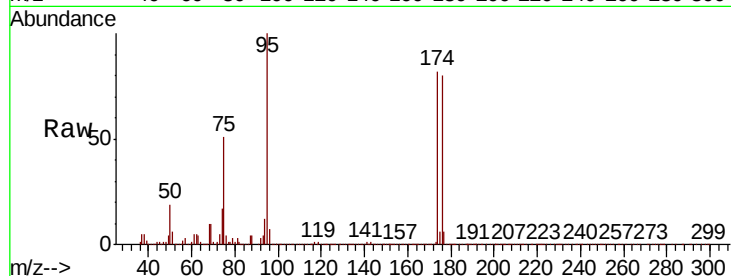
Tot Ion: 75 Resp: 222674

Ion Ratio Lower Upper

75 100

53 0.4 81.0 121.6#

89 0.0 36.0 54.0#



#87

1,3-Dichlorobenzene

Concen: 23.885 ug/l

RT: 12.02 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

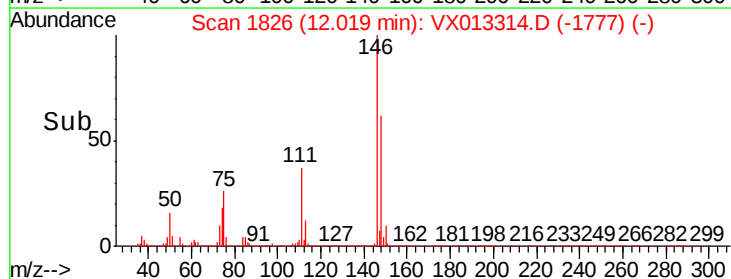
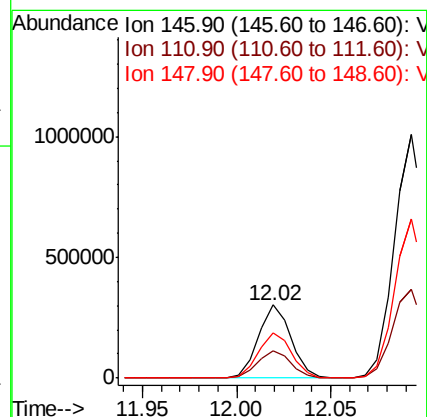
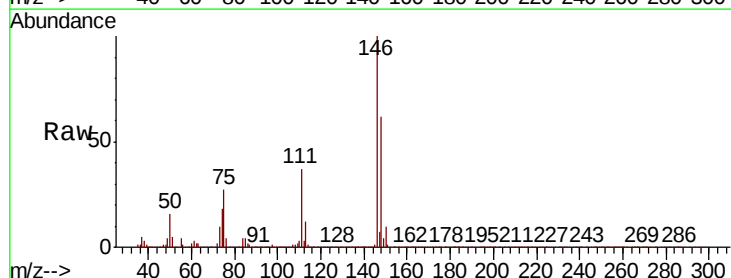
Tgt Ion: 146 Resp: 362044

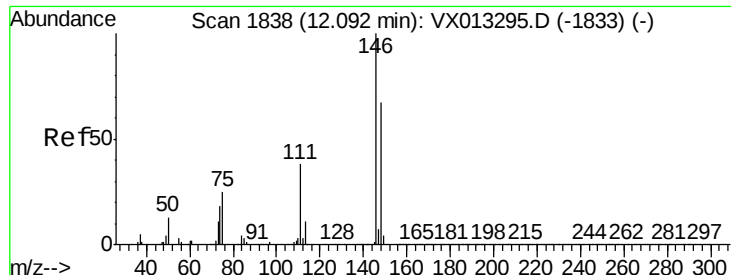
Ion Ratio Lower Upper

146 100

111 38.3 18.9 56.5

148 63.6 31.9 95.7





#88

1,4-Dichlorobenzene

Concen: 78.602 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

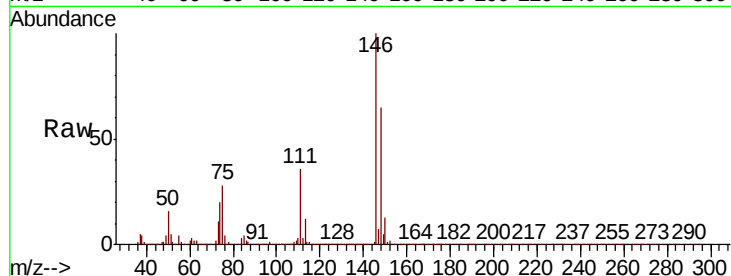
Tot Ion:146 Resp: 1213911

Ion Ratio Lower Upper

146 100

111 37.1 18.8 56.4

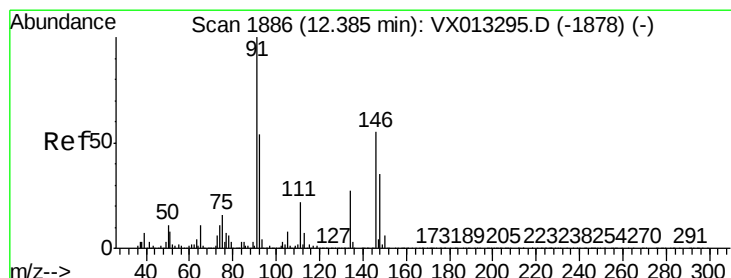
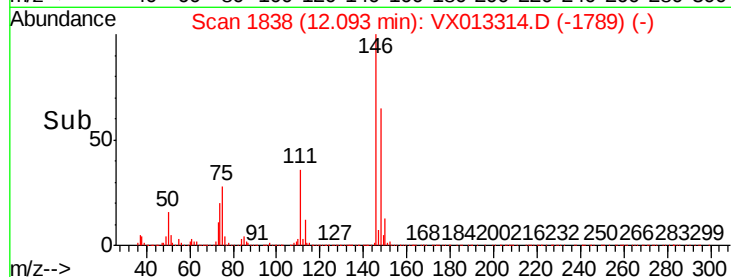
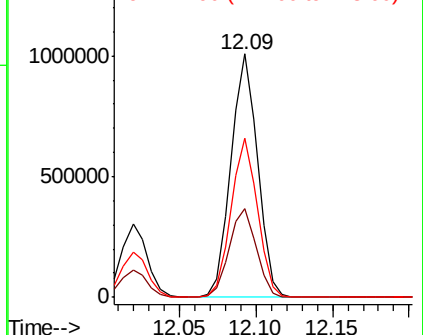
148 64.7 32.4 97.0



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



#91

1,2-Dichlorobenzene

Concen: 628.034 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX013314.D

Acq: 01 Nov 2019 16:17

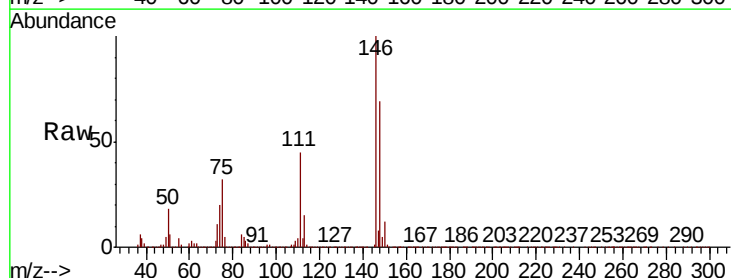
Tgt Ion:146 Resp: 9515967

Ion Ratio Lower Upper

146 100

111 42.2 20.1 60.2

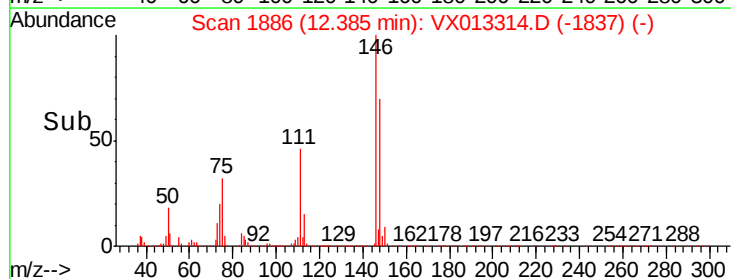
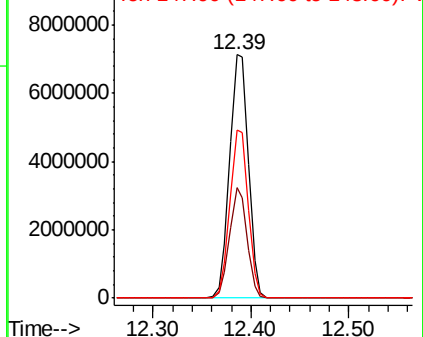
148 67.4 32.0 96.0

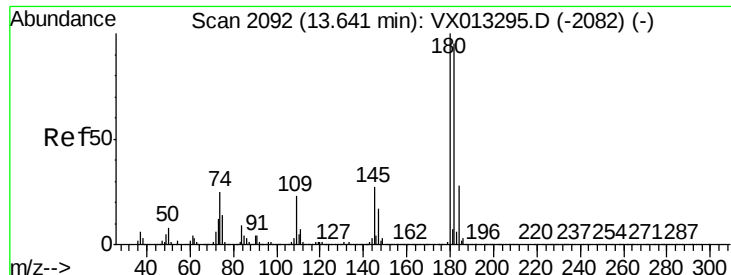


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

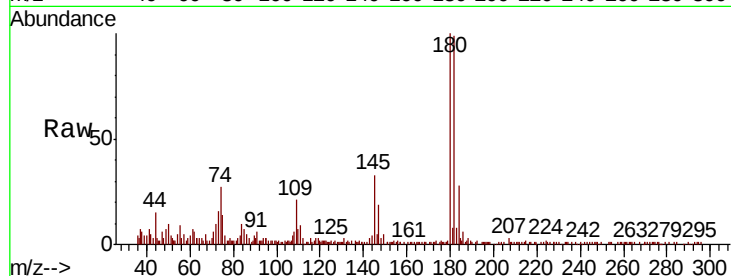




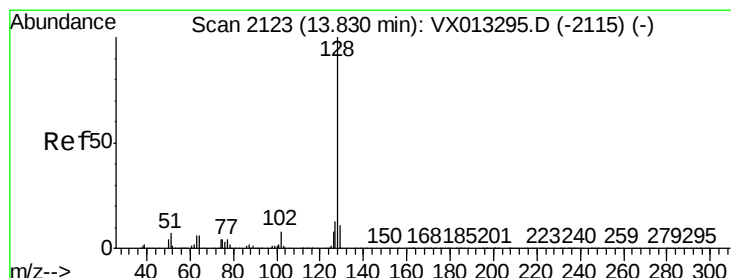
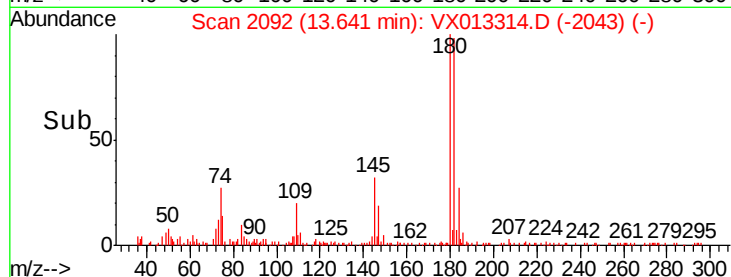
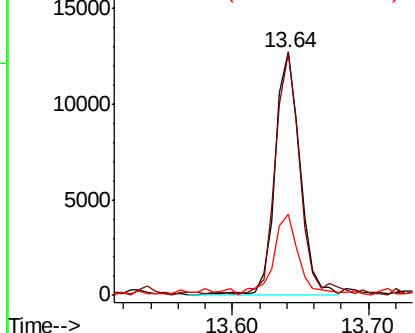
#93
 1,2,4-Trichlorobenzene
 Concen: 1.551 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX013314.D
 Acq: 01 Nov 2019 16:17

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	48.4	145.0
145	35.1	14.1	42.4

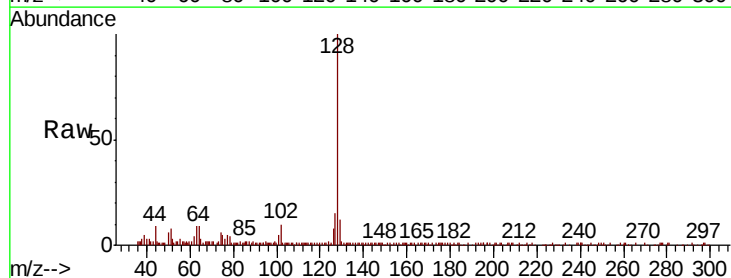


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

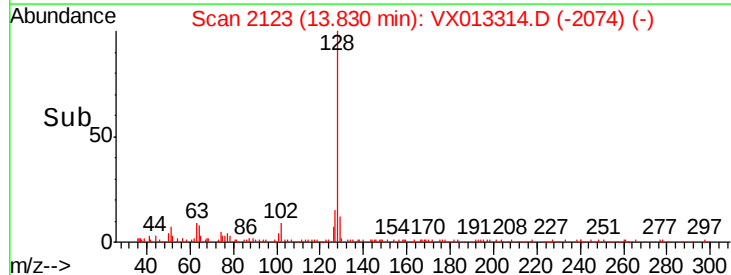
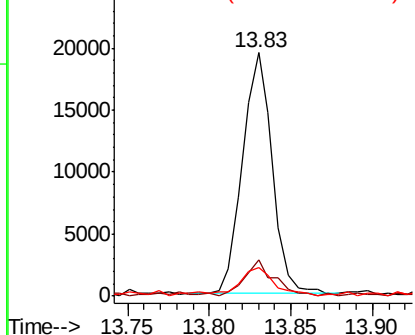


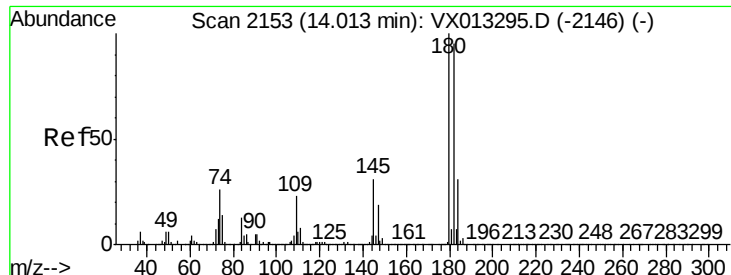
#95
 Naphthalene
 Concen: 0.740 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX013314.D
 Acq: 01 Nov 2019 16:17

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.2	15.2
129	15.5	8.5	12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

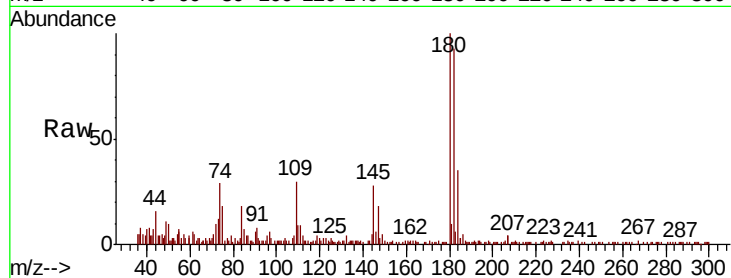




#96
 1,2,3-Trichlorobenzene
 Concen: 1.366 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX013314.D
 Acq: 01 Nov 2019 16:17

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	48.0	144.2
145	32.3	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

