

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110119\
 Data File : VX013311.D
 Acq On : 01 Nov 2019 15:07
 Operator : JC/SP
 Sample : K5626-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 04 00:30:10 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	756447	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1137862	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1006541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	465410	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	427123	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	
35) Dibromofluoromethane	5.49	113	338957	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
50) Toluene-d8	8.71	98	1345494	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
62) 4-Bromofluorobenzene	11.14	95	446157	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	

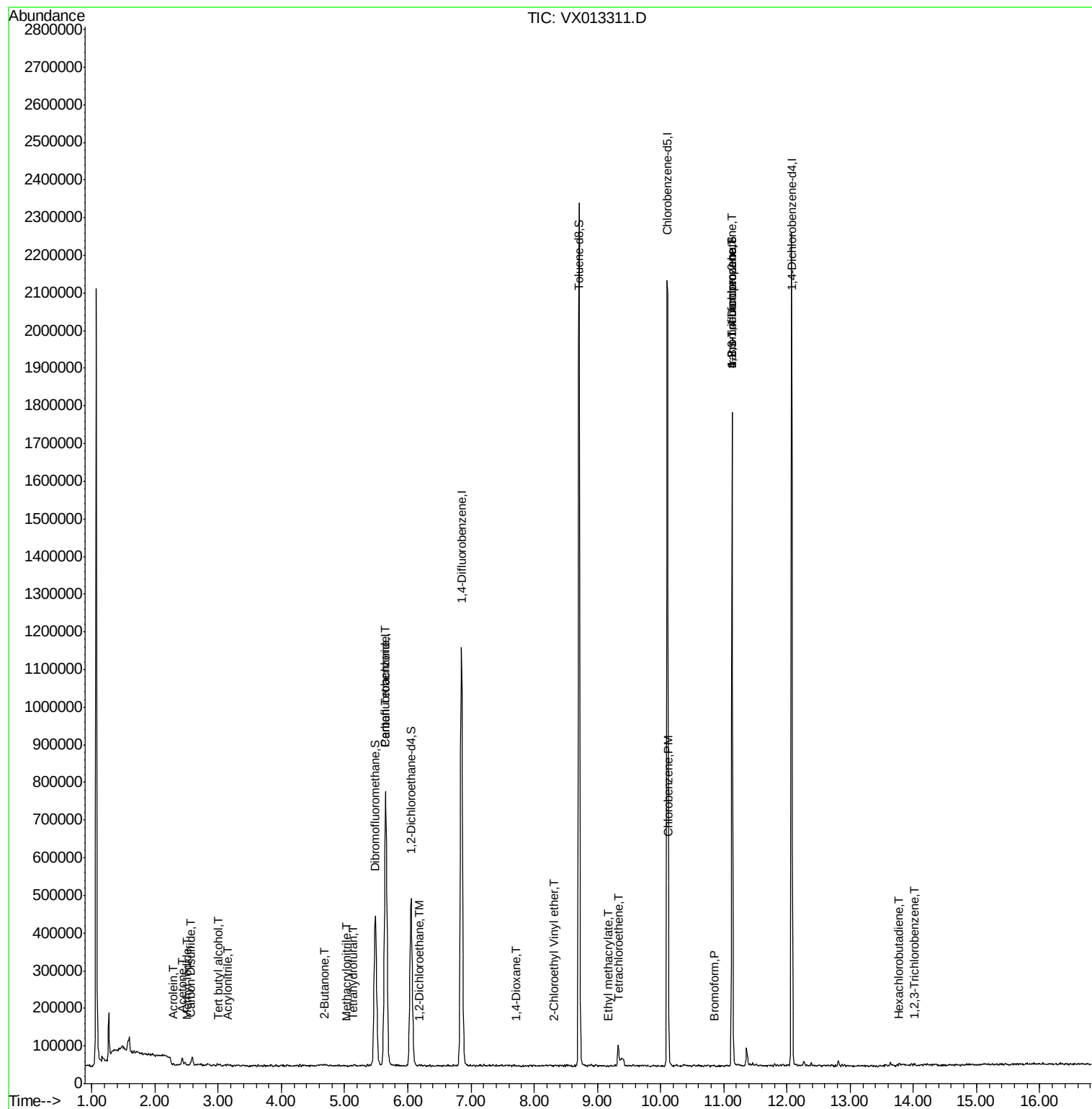
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.89	64	1931	Below Cal	#	61
10) Methyl Iodide	2.50	142	2461	0.281	ug/l #	78
11) Tert butyl alcohol	3.01	59	4536	1.920	ug/l #	90
13) Acrolein	2.29	56	551	0.430	ug/l #	57
15) Acrylonitrile	3.16	53	919	0.208	ug/l #	80
16) Acetone	2.43	43	22119	4.948	ug/l	94
17) Carbon Disulfide	2.56	76	7873	0.424	ug/l #	90
25) 2-Butanone	4.68	43	5508	0.840	ug/l #	69
29) Tetrahydrofuran	5.14	42	1231	0.305	ug/l #	79
38) Carbon Tetrachloride	5.65	117	68893	7.217	ug/l #	16
41) Methacrylonitrile	5.03	41	1358	0.201	ug/l #	59
42) 1,2-Dichloroethane	6.19	62	2456	0.224	ug/l	98
49) 1,4-Dioxane	7.72	88	651	3.032	ug/l #	1
56) Ethyl methacrylate	9.18	69	421	1.594	ug/l #	29
58) 2-Chloroethyl Vinyl ether	8.31	63	1078	0.202	ug/l #	86
64) Tetrachloroethene	9.33	164	1747	0.242	ug/l #	42
65) Chlorobenzene	10.13	112	4638	0.228	ug/l	98
71) Bromoform	10.85	173	300	3.243	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	227362	24.052	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	227362	61.908	ug/l #	9
94) Hexachlorobutadiene	13.78	225	1088	0.218	ug/l	90
96) 1,2,3-Trichlorobenzene	14.02	180	2129	0.208	ug/l #	90

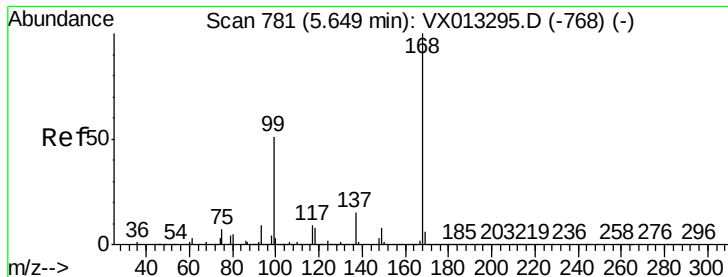
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

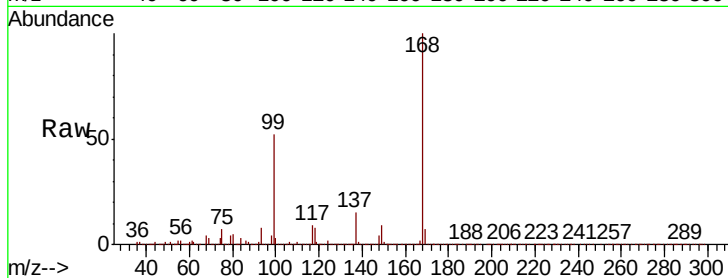
ClientSampleId :

Tot Ion:168 Resp: 756447

Ion Ratio Lower Upper

168 100

99 52.1 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

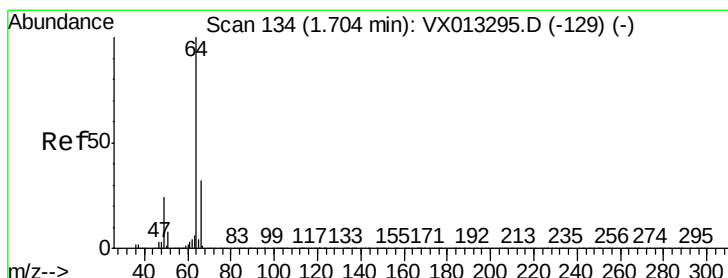
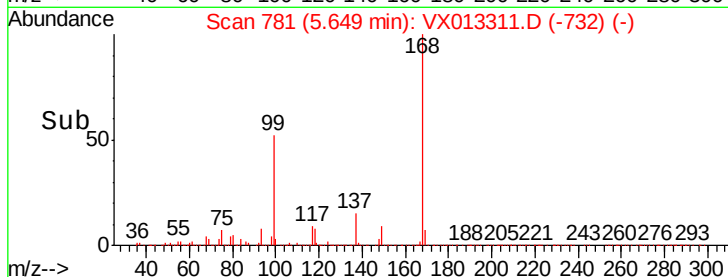
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.89 min Scan# 164

Delta R.T. 0.18 min

Lab File: VX013311.D

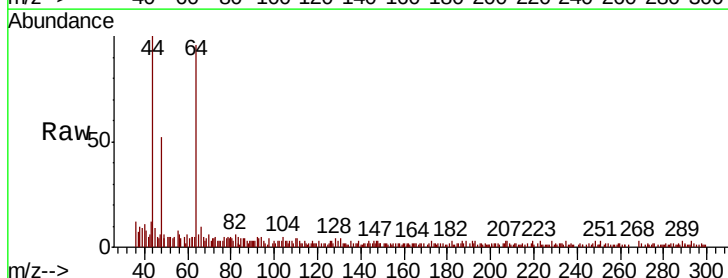
Acq: 01 Nov 2019 15:07

Tgt Ion: 64 Resp: 1931

Ion Ratio Lower Upper

64 100

66 10.1 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.89

8000

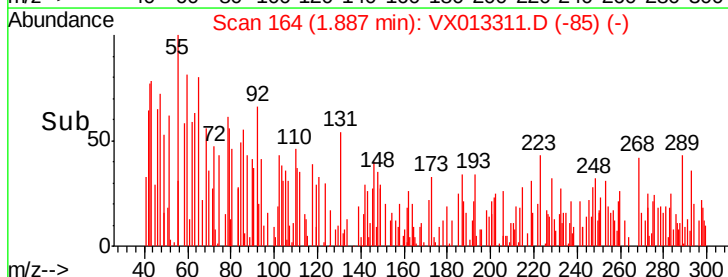
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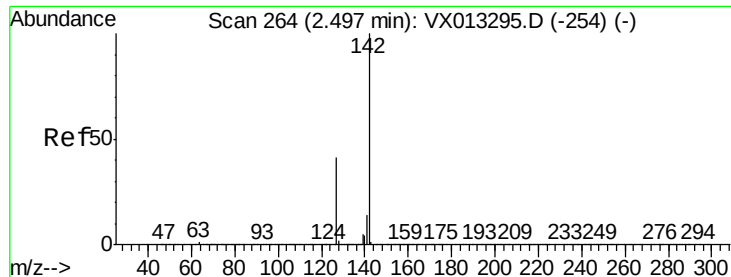
4000

2000

0

Time-->

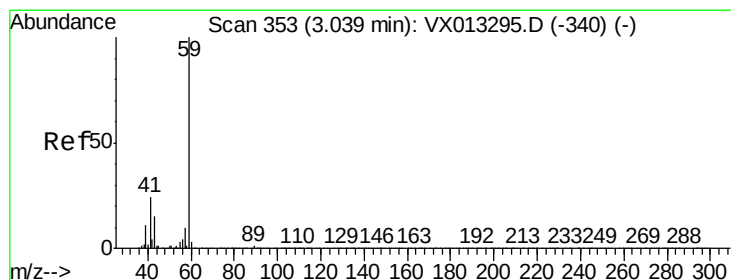
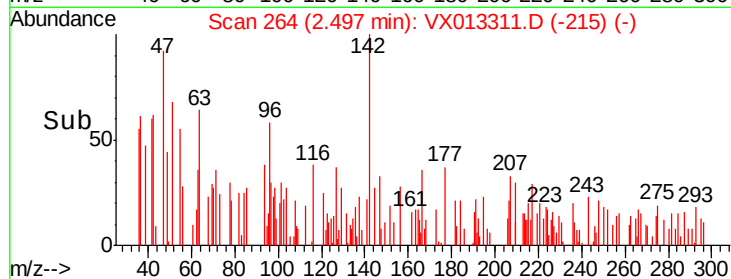
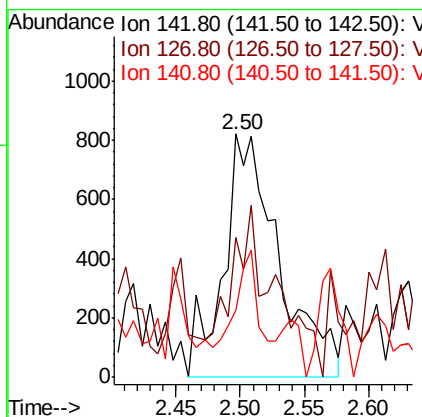
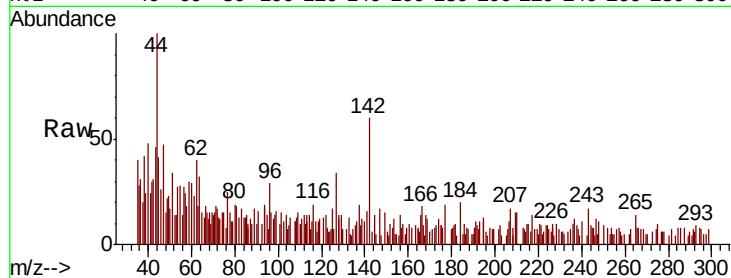




#10
Methvl Iodide
Concen: 0.281 ug/l
RT: 2.50 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX013311.D
Acq: 01 Nov 2019 15:07

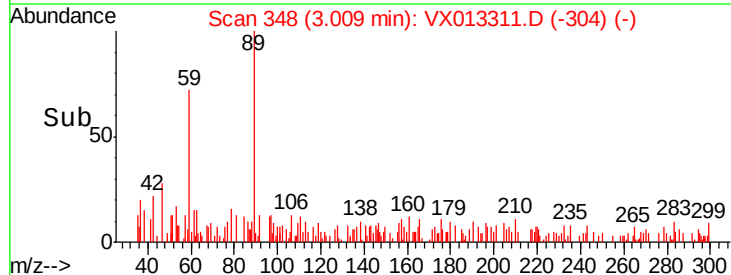
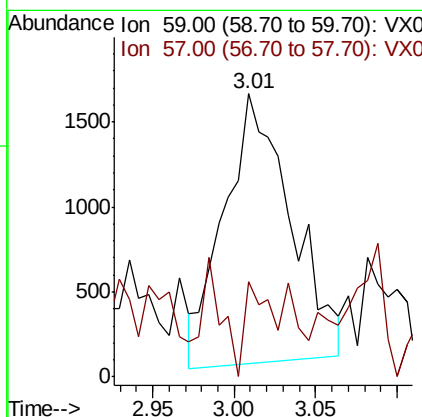
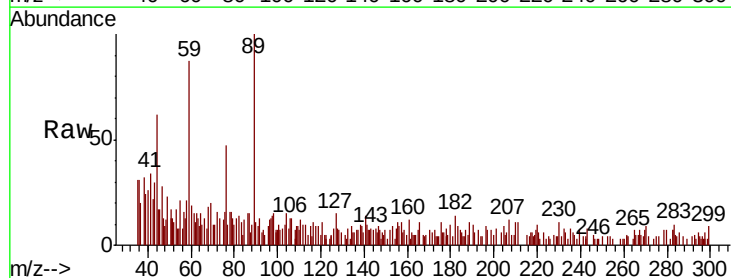
Instrument :
MSVOA_X
ClientSampled :

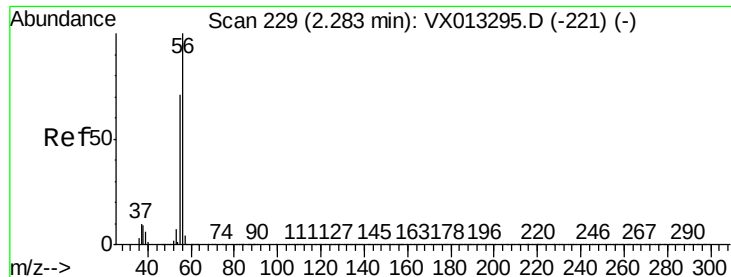
Tot Ion:142 Resp: 2461
Ion Ratio Lower Upper
142 100
127 58.6 32.6 49.0#
141 13.5 11.6 17.4



#11
Tert butyl alcohol
Concen: 1.920 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX013311.D
Acq: 01 Nov 2019 15:07

Tgt Ion: 59 Resp: 4536
Ion Ratio Lower Upper
59 100
57 13.8 8.0 12.0#





#13

Acrolein

Concen: 0.430 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

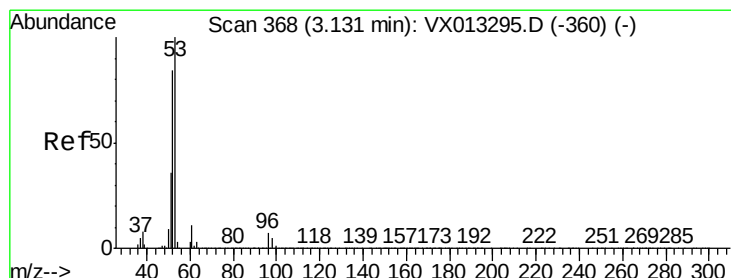
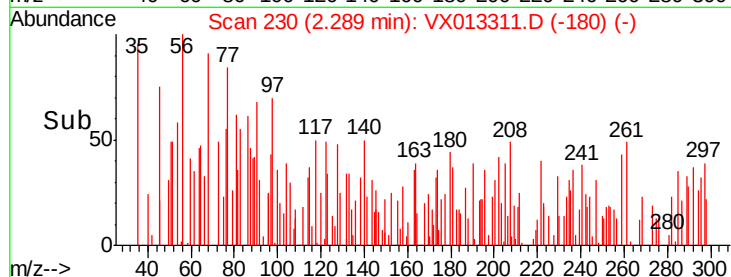
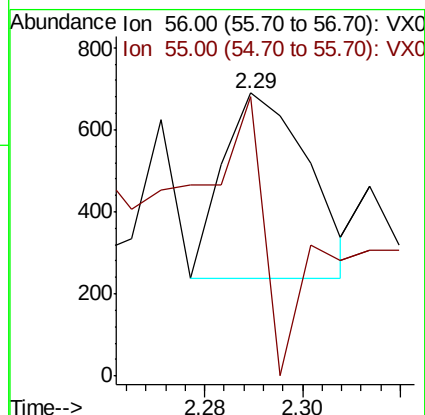
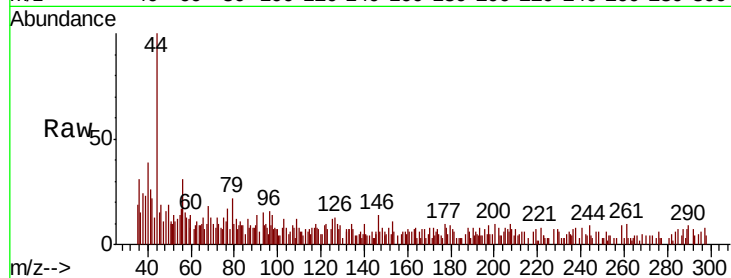
ClientSampled :

Tot Ion: 56 Resp: 551

Ion Ratio Lower Upper

56 100

55 107.1 57.4 86.0#



#15

Acrylonitrile

Concen: 0.208 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.02 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

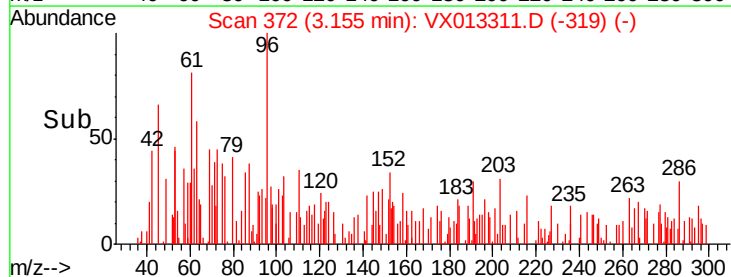
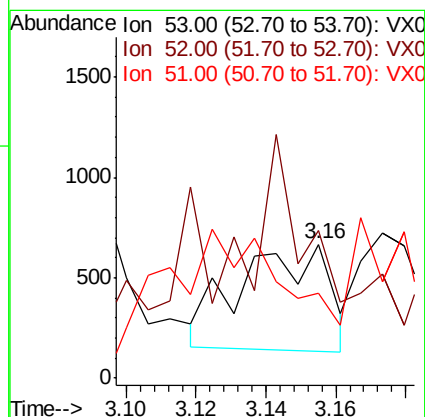
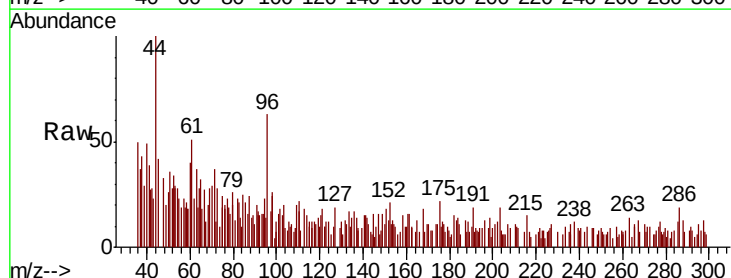
Tgt Ion: 53 Resp: 919

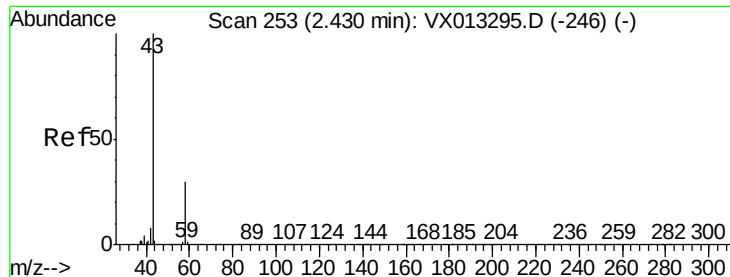
Ion Ratio Lower Upper

53 100

52 85.5 67.4 101.0

51 0.0 29.4 44.2#





#16

Acetone

Concen: 4.948 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

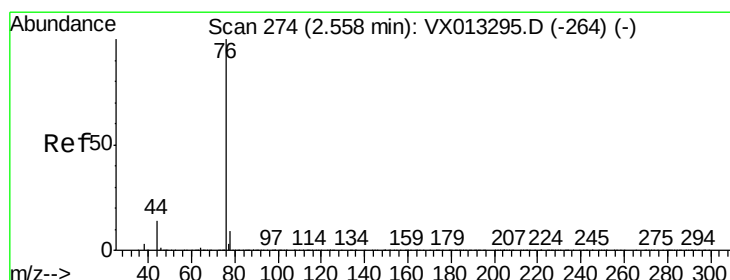
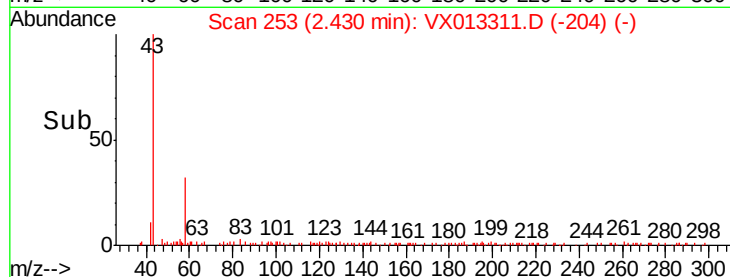
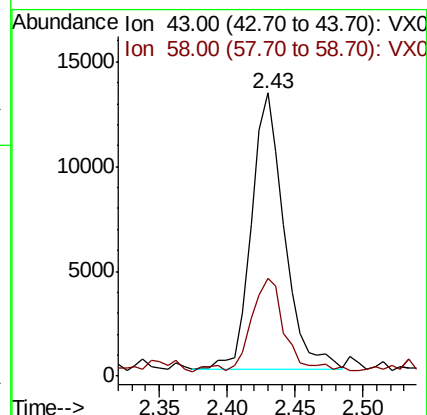
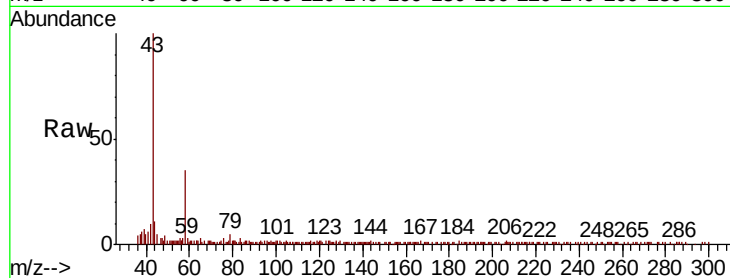
ClientSampleId :

Tot Ion: 43 Resp: 22119

Ion Ratio Lower Upper

43 100

58 33.8 24.3 36.5



#17

Carbon Disulfide

Concen: 0.424 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013311.D

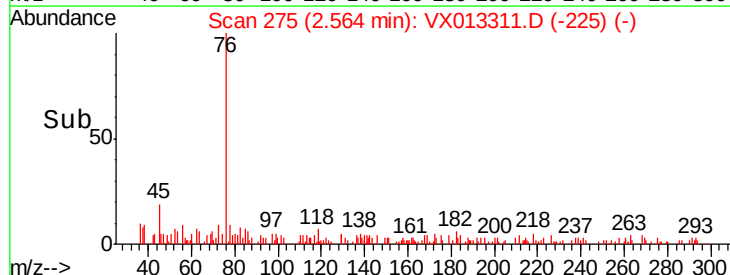
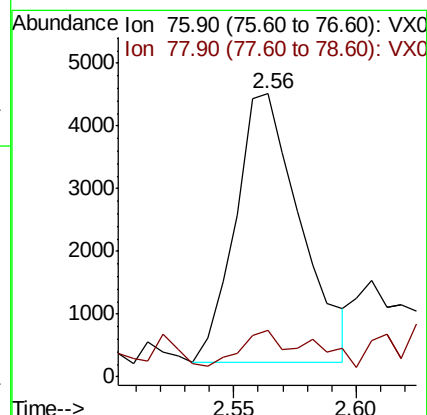
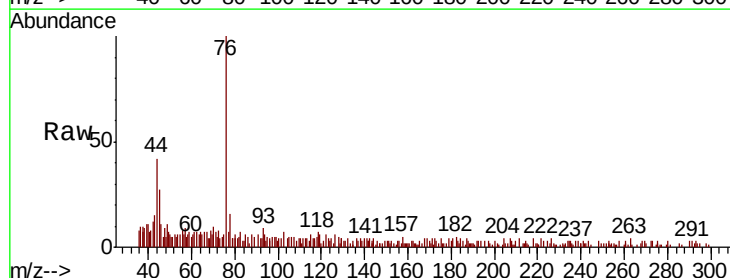
Acq: 01 Nov 2019 15:07

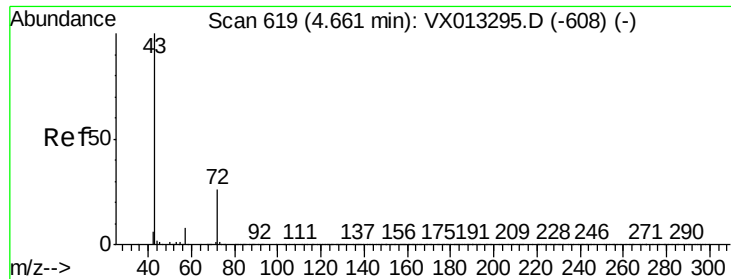
Tgt Ion: 76 Resp: 7873

Ion Ratio Lower Upper

76 100

78 12.3 7.0 10.6#





#25

2-Butanone

Concen: 0.840 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

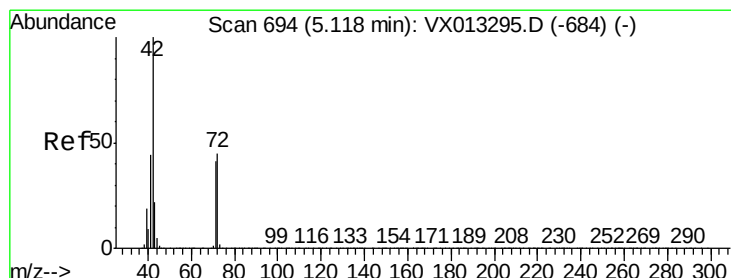
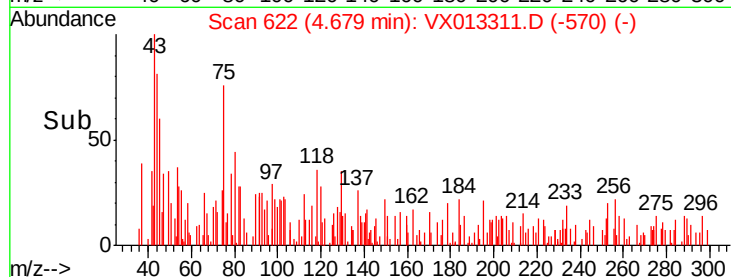
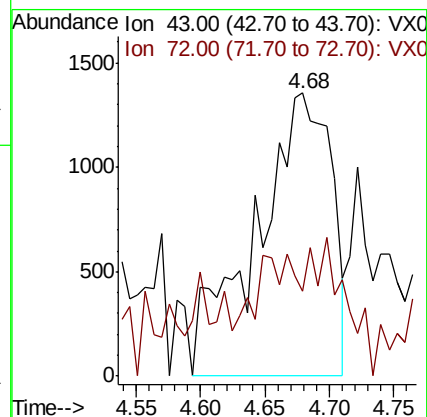
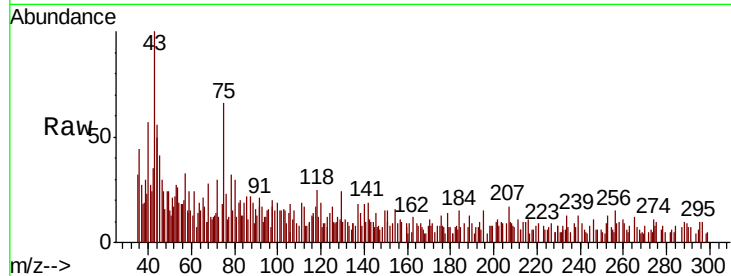
ClientSampled :

Tot Ion: 43 Resp: 5508

Ion Ratio Lower Upper

43 100

72 10.5 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.305 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

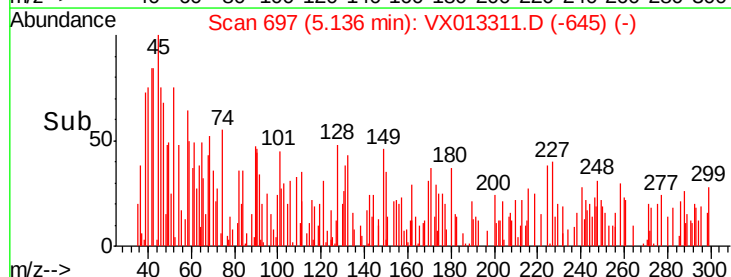
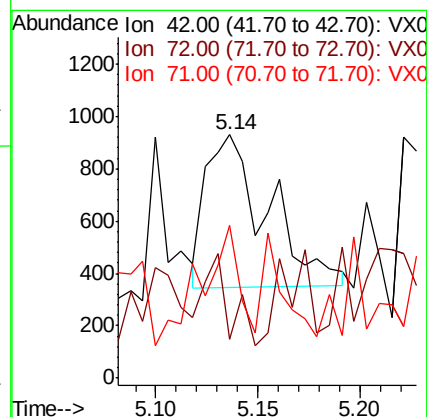
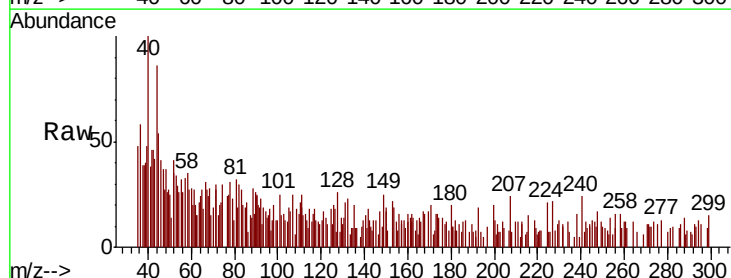
Tgt Ion: 42 Resp: 1231

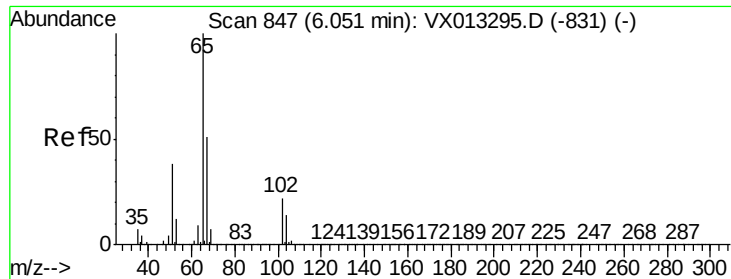
Ion Ratio Lower Upper

42 100

72 24.1 35.8 53.8#

71 35.5 33.4 50.0

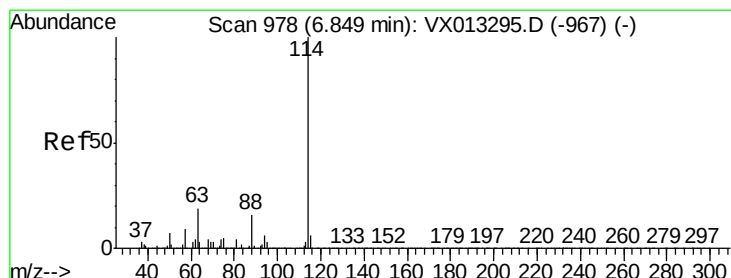
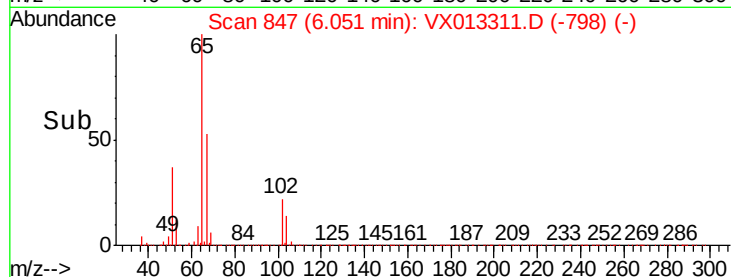
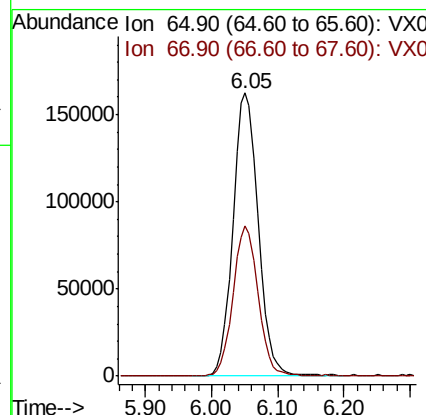
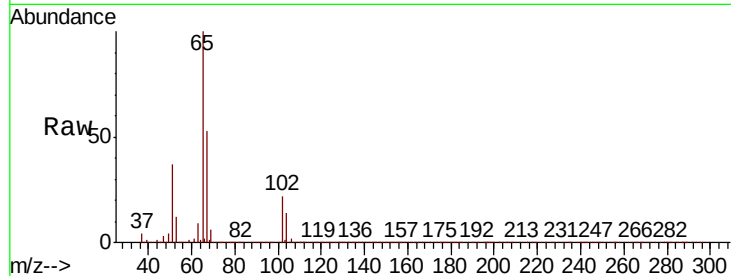




#33
 1,2-Dichloroethane-d4
 Concen: 47.661 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013311.D
 Acq: 01 Nov 2019 15:07

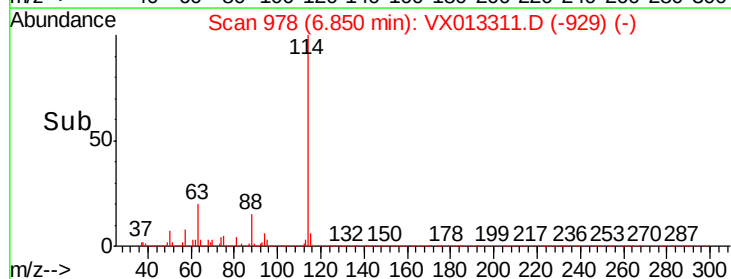
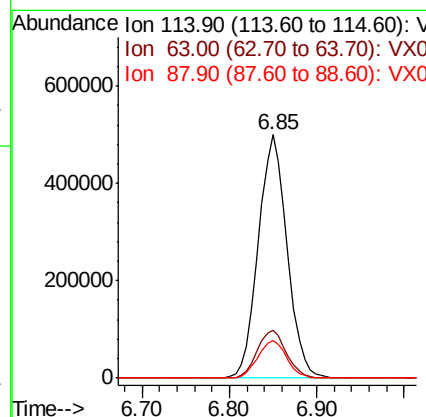
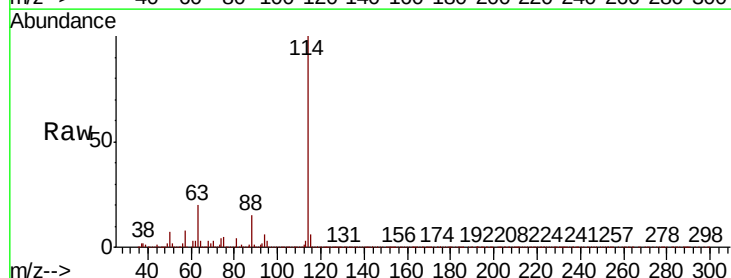
Instrument :
 MSVOA_X
 ClientSampleId :

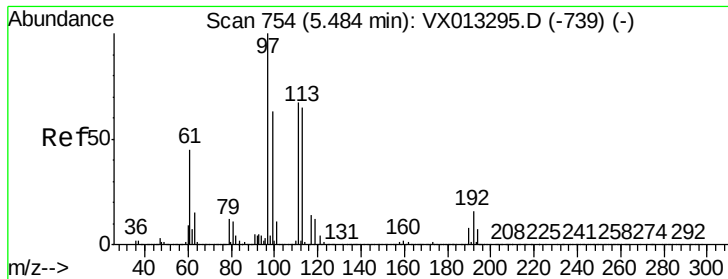
Tot Ion: 65 Resp: 427123
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013311.D
 Acq: 01 Nov 2019 15:07

Tgt Ion: 114 Resp: 1137862
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.4
 88 15.1 0.0 32.2

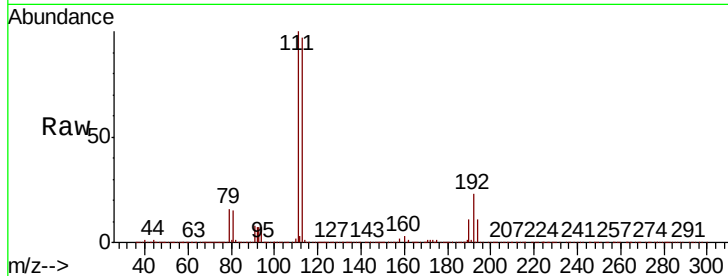




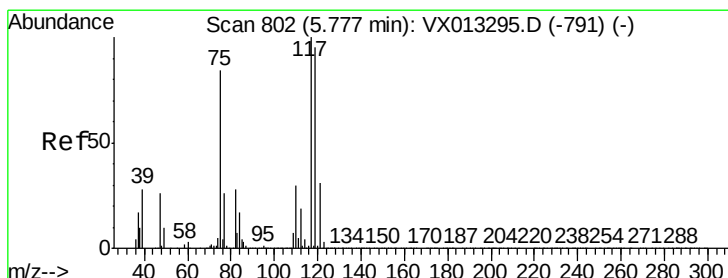
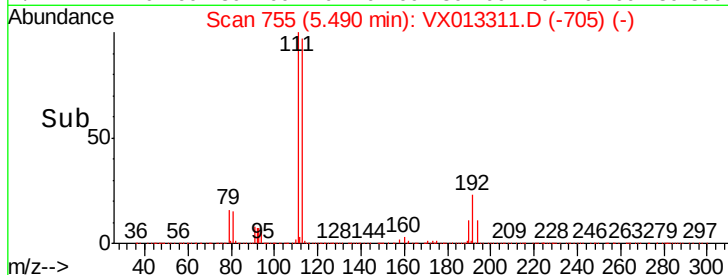
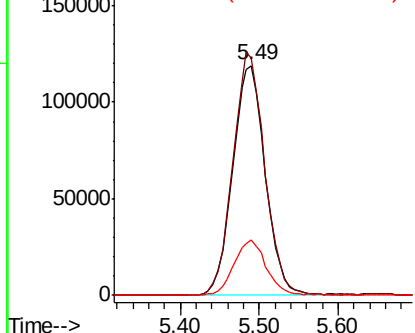
#35
Dibromofluoromethane
Concen: 47.494 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX013311.D
Acq: 01 Nov 2019 15:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.9	122.9
192	24.1	19.1	28.7

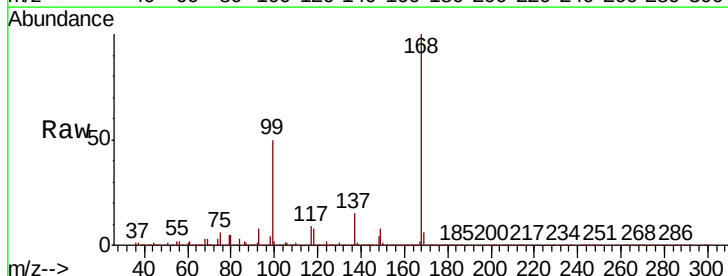


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

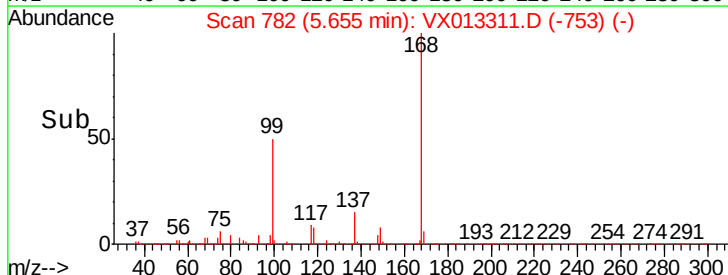
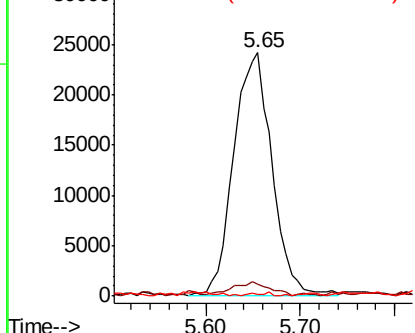


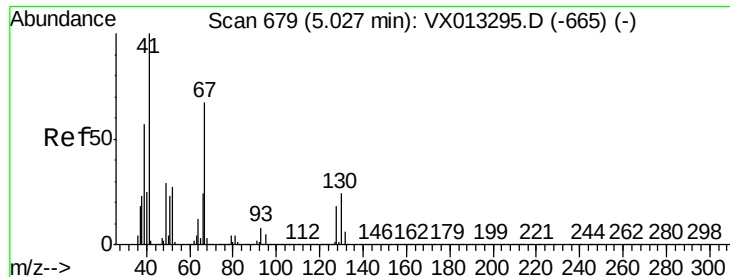
#38
Carbon Tetrachloride
Concen: 7.217 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013311.D
Acq: 01 Nov 2019 15:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	76.1	114.1#
121	0.0	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





#41

Methacrylonitrile

Concen: 0.201 ug/l

RT: 5.03 min Scan# 679

Delta R.T. 0.00 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 41 Resp: 1358

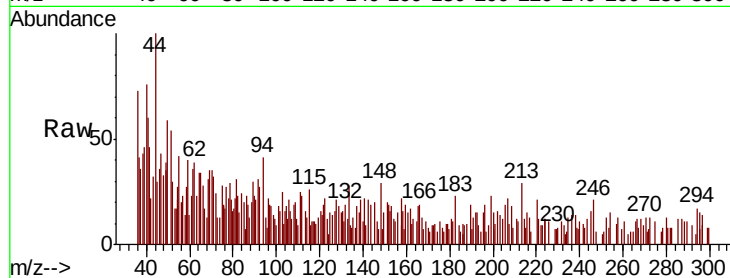
Ion Ratio Lower Upper

41 100

39 45.9 45.0 67.6

67 18.9 55.4 83.2#

52 53.0 23.1 34.7#

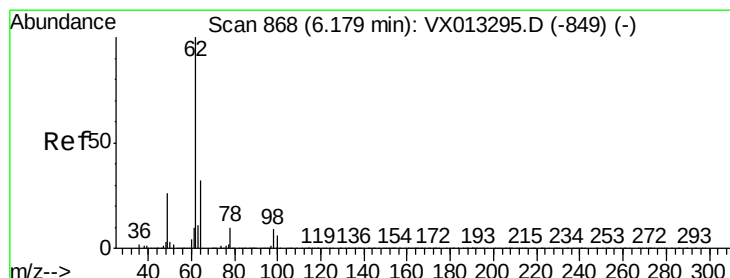
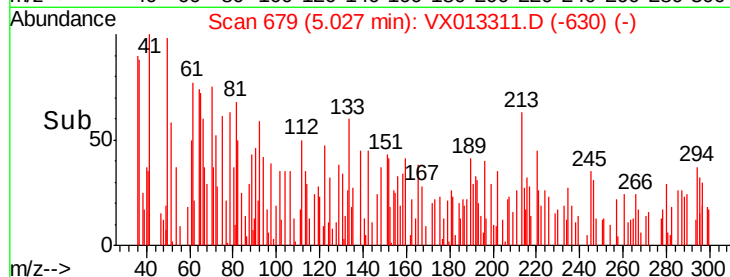
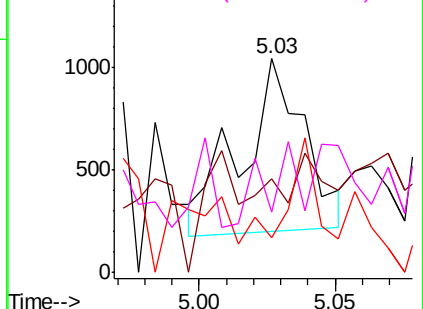


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 0.224 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX013311.D

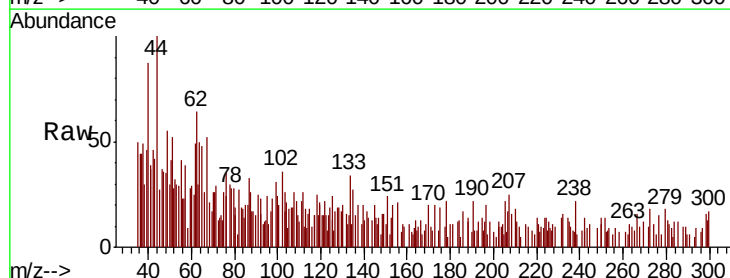
Acq: 01 Nov 2019 15:07

Tgt Ion: 62 Resp: 2456

Ion Ratio Lower Upper

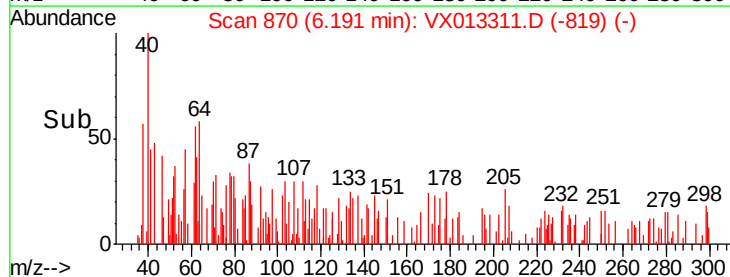
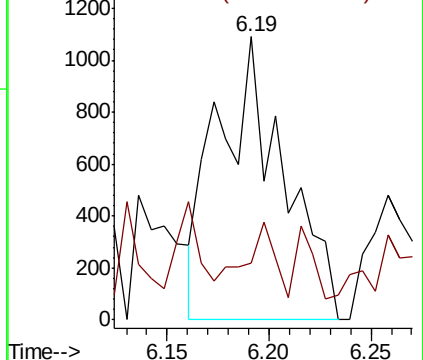
62 100

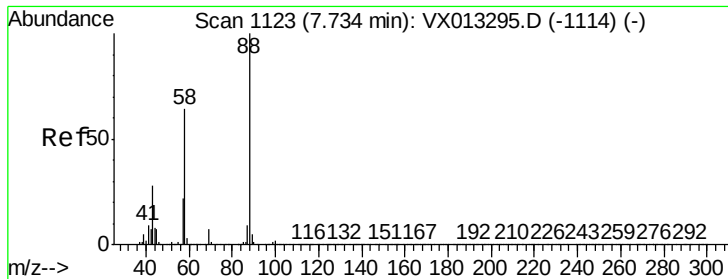
98 10.3 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#49

1,4-Dioxane

Concen: 3.032 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

ClientSampled :

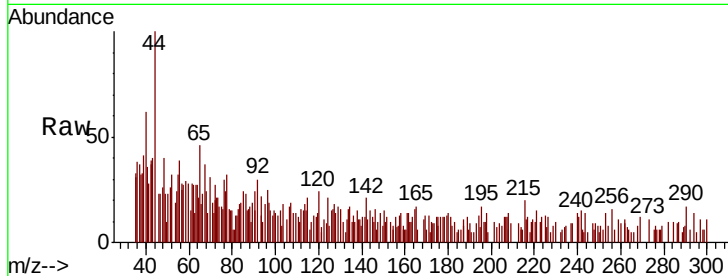
Tot Ion: 88 Resp: 651

Ion Ratio Lower Upper

88 100

43 141.0 26.6 39.8#

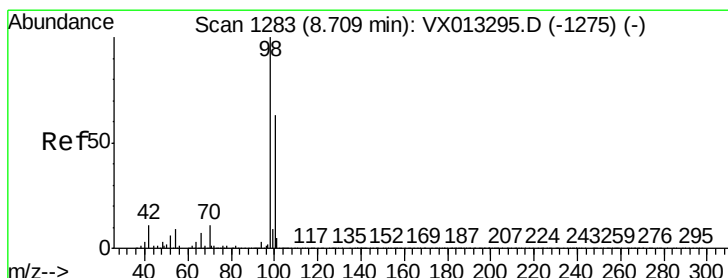
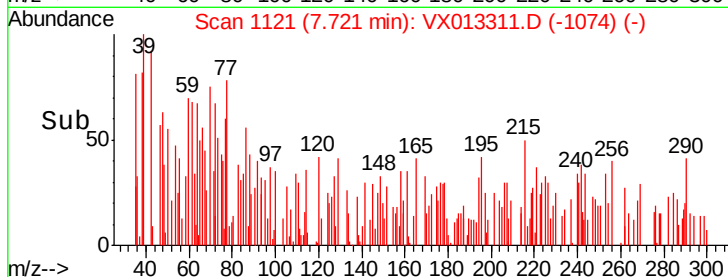
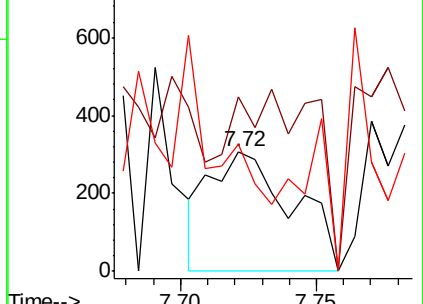
58 0.0 55.0 82.6#



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: 50.009 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013311.D

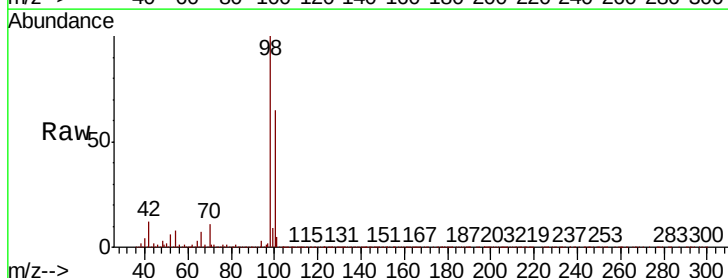
Acq: 01 Nov 2019 15:07

Tgt Ion: 98 Resp: 1345494

Ion Ratio Lower Upper

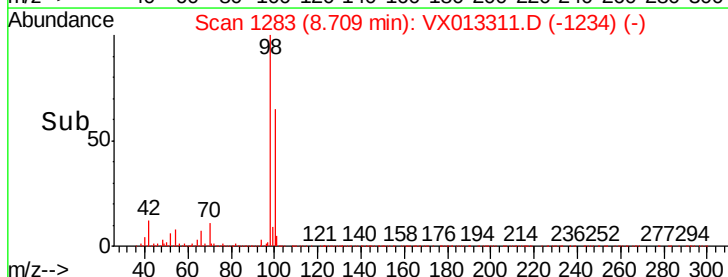
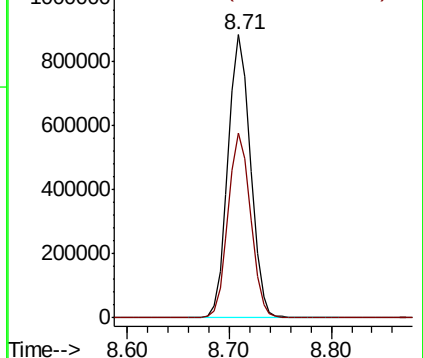
98 100

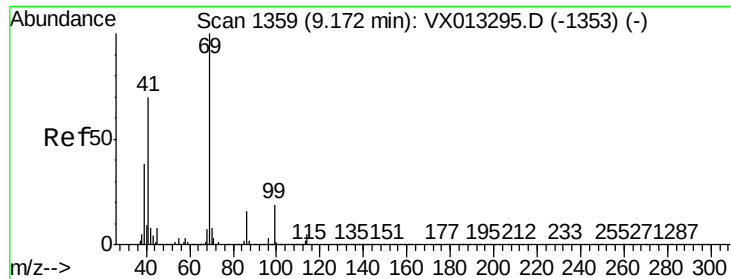
100 65.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 1.594 ug/l

RT: 9.18 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

ClientSampled :

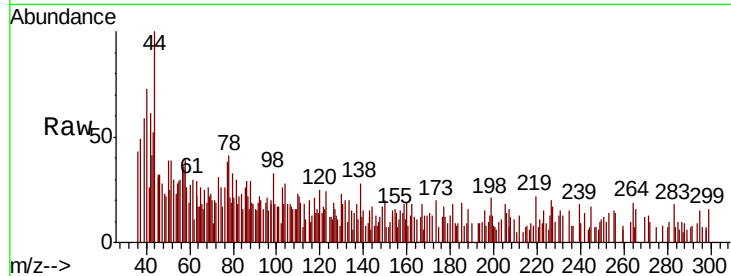
Tot Ion: 69 Resp: 421

Ion Ratio Lower Upper

69 100

41 88.4 56.2 84.2#

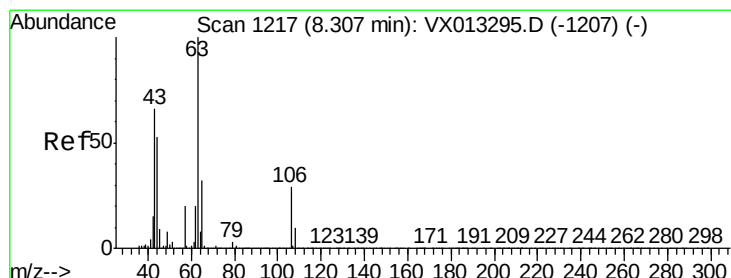
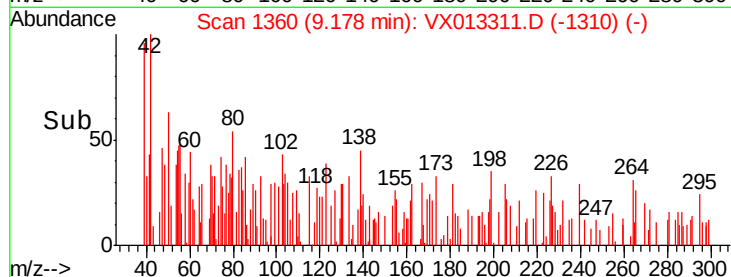
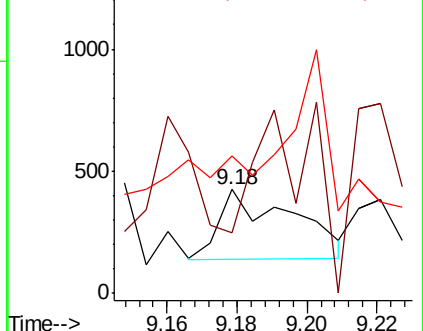
39 135.6 31.1 46.7#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 0.202 ug/l

RT: 8.31 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VX013311.D

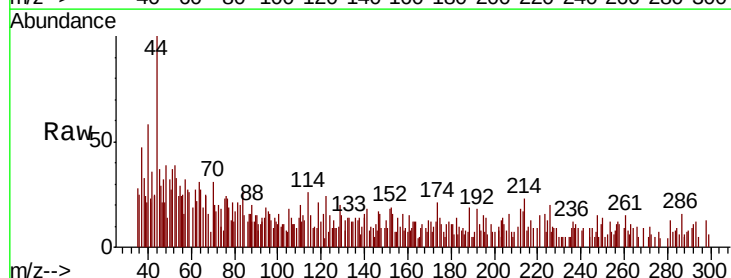
Acq: 01 Nov 2019 15:07

Tgt Ion: 63 Resp: 1078

Ion Ratio Lower Upper

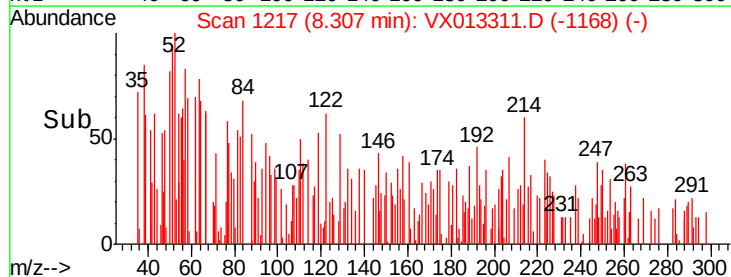
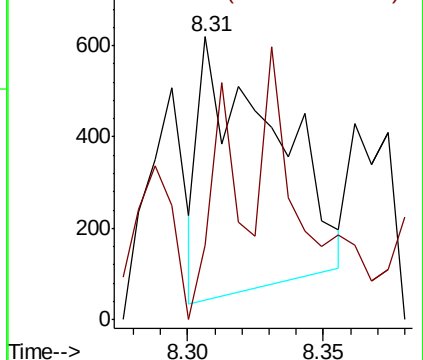
63 100

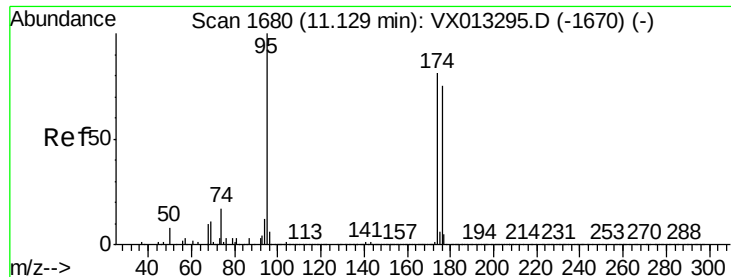
106 36.6 23.4 35.2#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 45.947 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

ClientSampleId :

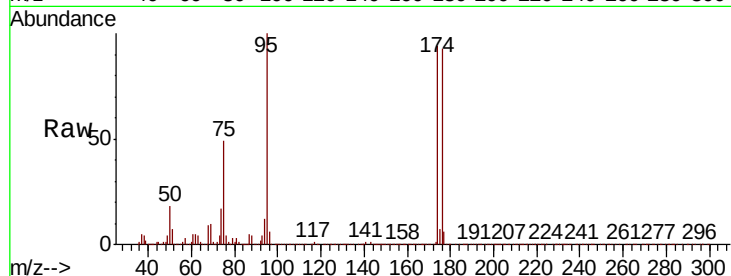
Tot Ion: 95 Resp: 446157

Ion Ratio Lower Upper

95 100

174 90.0 0.0 179.8

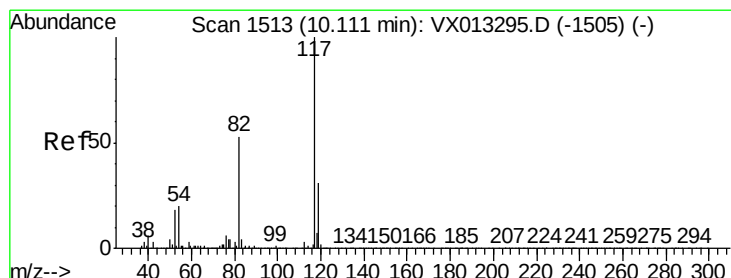
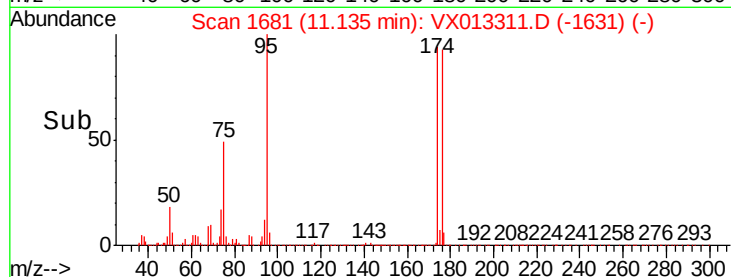
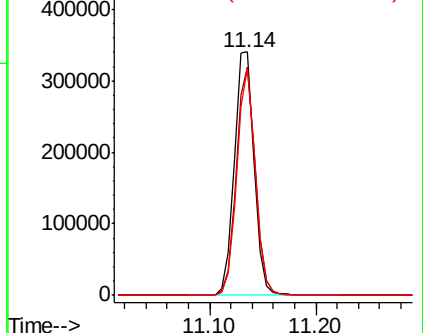
176 86.9 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

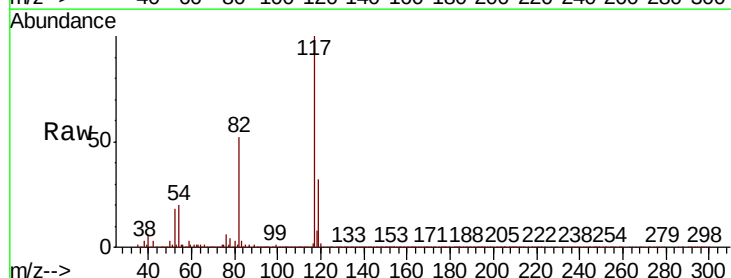
Tgt Ion: 117 Resp: 1006541

Ion Ratio Lower Upper

117 100

82 52.4 42.6 64.0

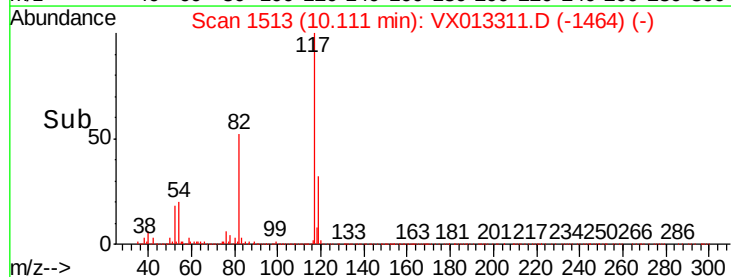
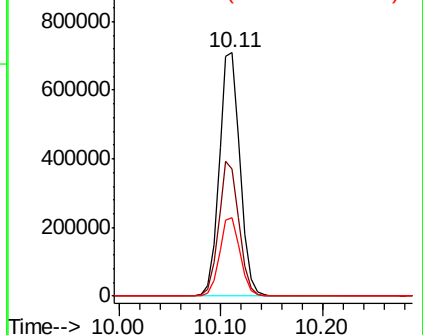
119 32.1 24.8 37.2

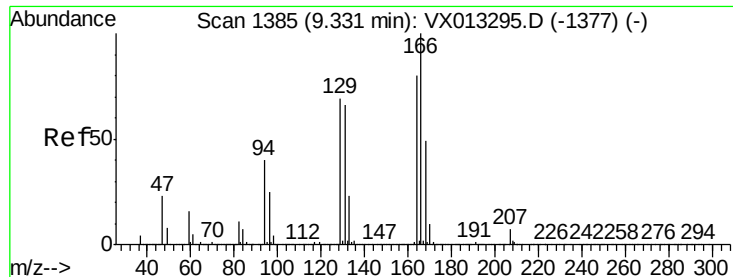


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.242 ug/l

RT: 9.33 min Scan# 1385

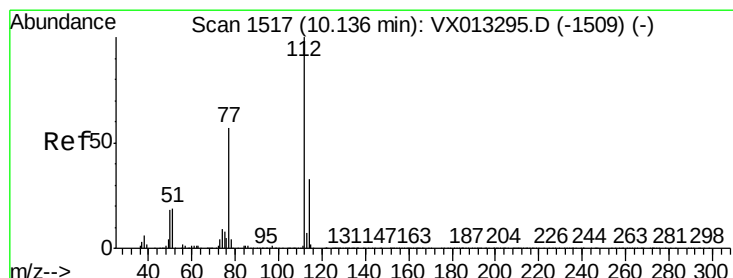
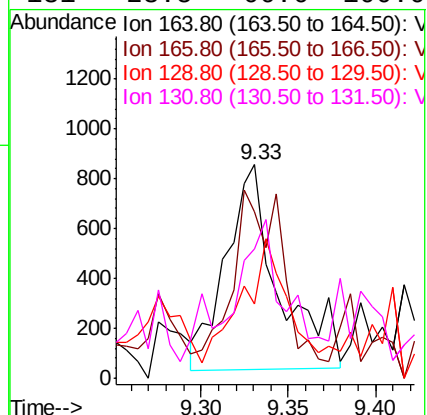
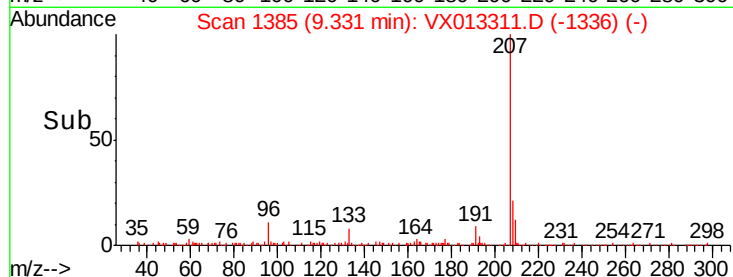
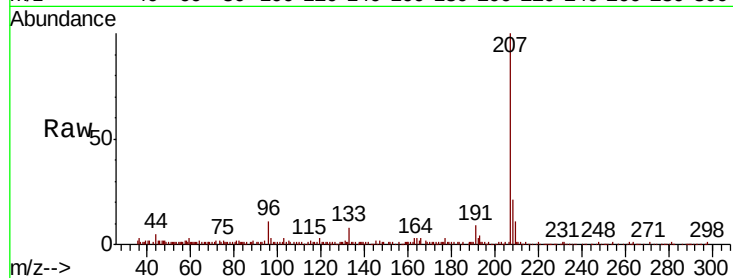
Delta R.T. 0.00 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	164	Resp:	1747
Ion	Ratio	Lower	Upper
164	100		
166	72.3	100.4	150.6#
129	23.9	69.4	104.2#
131	23.5	66.6	100.0#



#65

Chlorobenzene

Concen: 0.228 ug/l

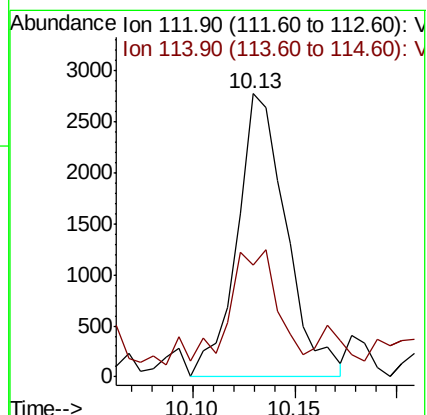
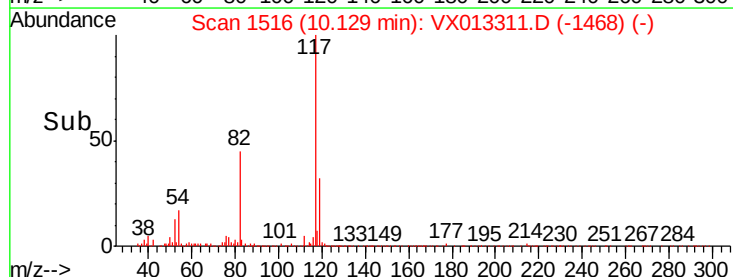
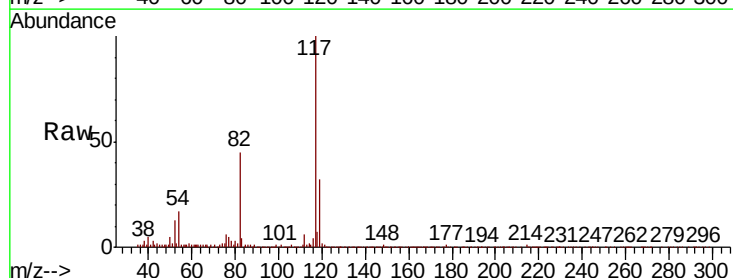
RT: 10.13 min Scan# 1516

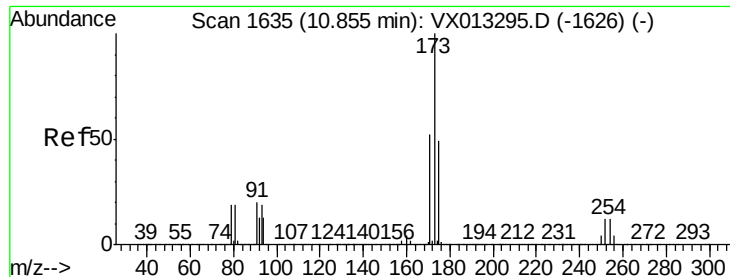
Delta R.T. -0.01 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Tgt Ion:	112	Resp:	4638
Ion	Ratio	Lower	Upper
112	100		
114	33.9	26.4	39.6





#71

Bromoform

Concen: 3.243 ug/l

RT: 10.85 min Scan# 1634

Delta R.T. -0.01 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

ClientSampled :

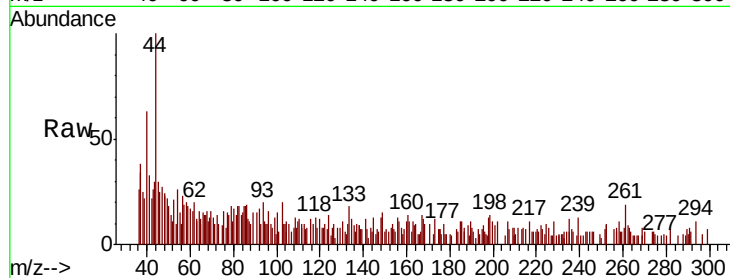
Tot Ion:173 Resp: 300

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

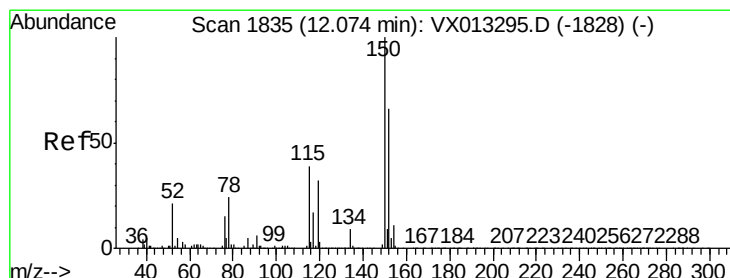
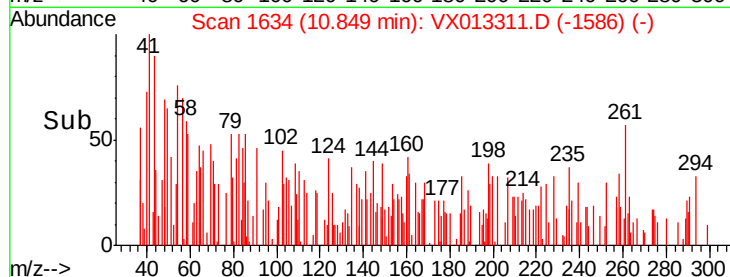
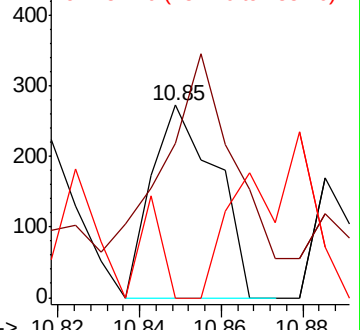
254 0.0 0.2 0.2#



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: VX013311.D

Acq: 01 Nov 2019 15:07

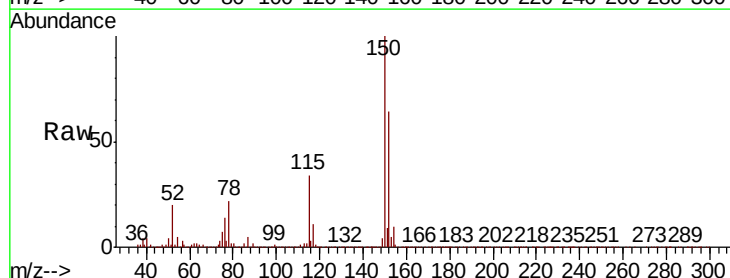
Tgt Ion:152 Resp: 465410

Ion Ratio Lower Upper

152 100

115 55.2 39.5 118.3

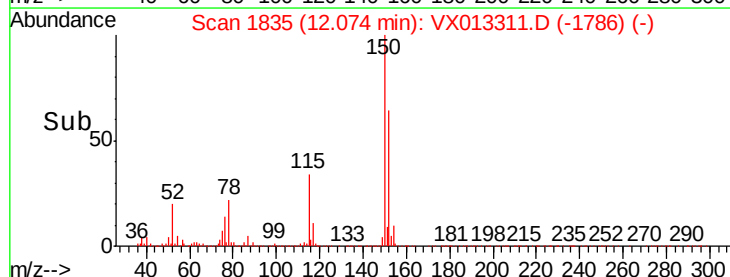
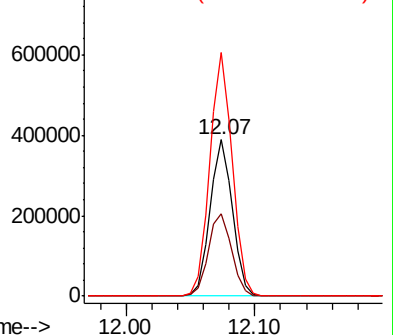
150 156.8 0.0 344.4

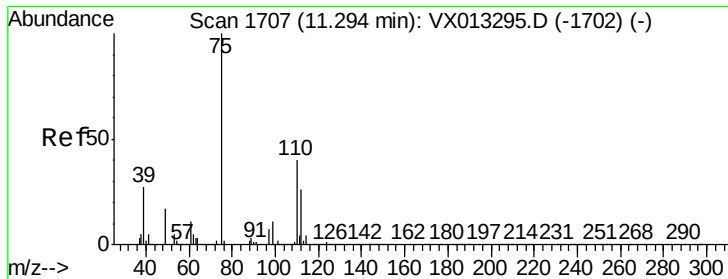


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.052 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

Instrument :

MSVOA_X

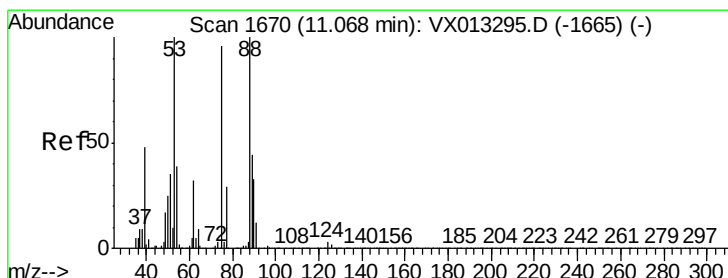
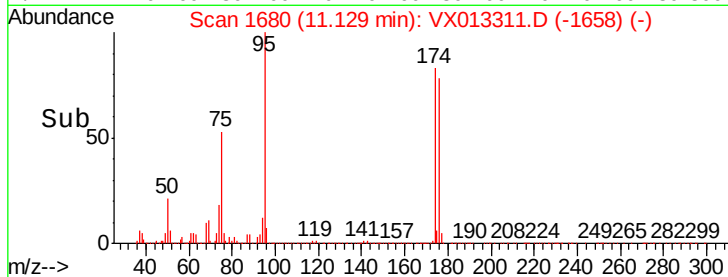
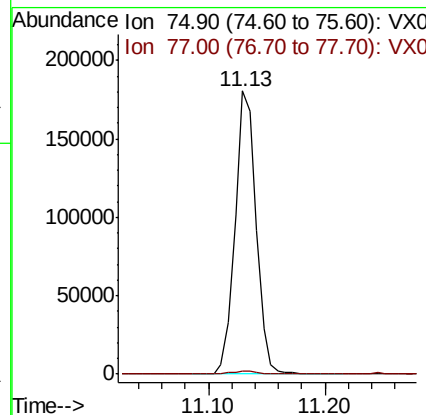
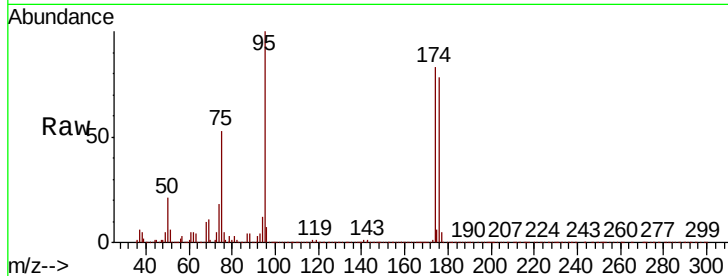
ClientSampleId :

Tot Ion: 75 Resp: 227362

Ion Ratio Lower Upper

75 100

77 1.5 22.3 66.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.908 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013311.D

Acq: 01 Nov 2019 15:07

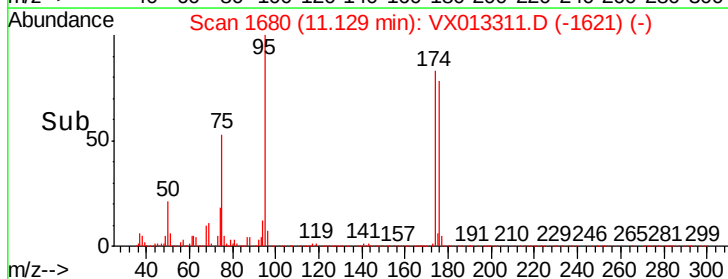
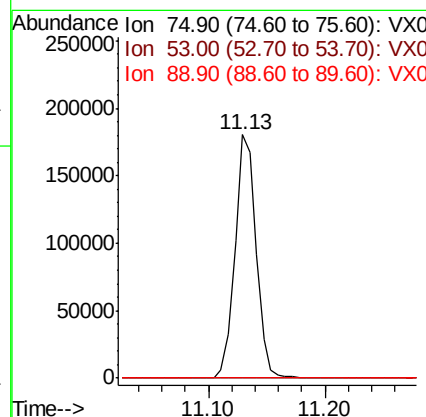
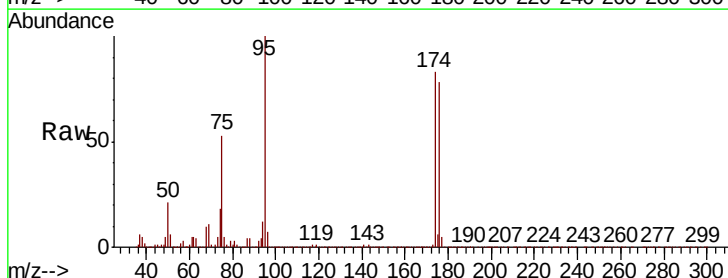
Tgt Ion: 75 Resp: 227362

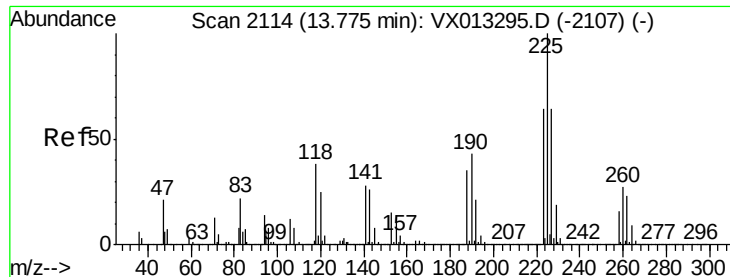
Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.2 36.0 54.0#

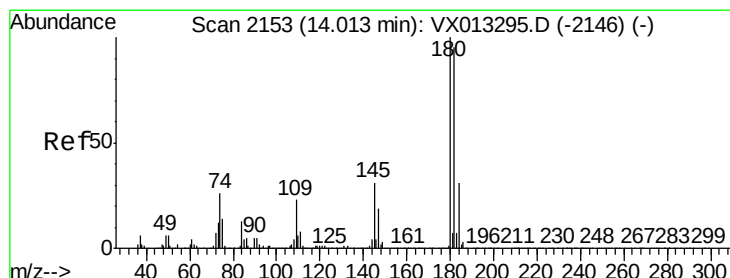
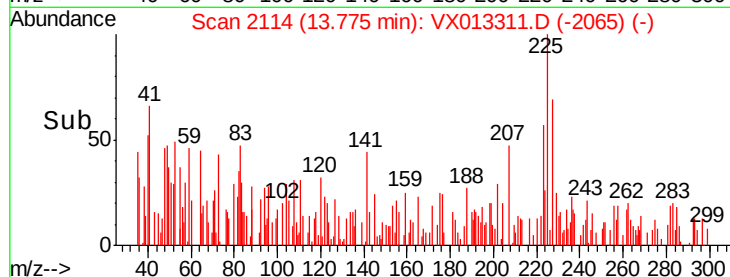
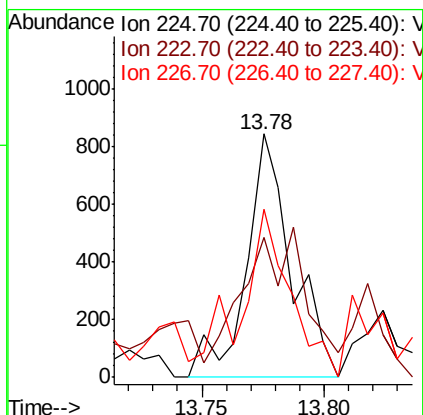
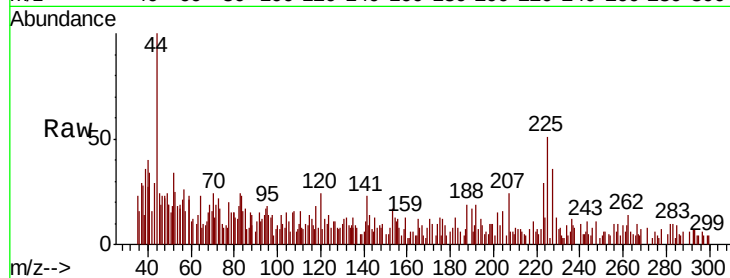




#94
Hexachlorobutadiene
Concen: 0.218 ug/l
RT: 13.78 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VX013311.D
Acq: 01 Nov 2019 15:07

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:225 Resp: 1088
Ion Ratio Lower Upper
225 100
223 69.1 31.9 95.7
227 74.8 31.9 95.9



#96
1,2,3-Trichlorobenzene
Concen: 0.208 ug/l
RT: 14.02 min Scan# 2154
Delta R.T. 0.01 min
Lab File: VX013311.D
Acq: 01 Nov 2019 15:07

Tgt Ion:180 Resp: 2129
Ion Ratio Lower Upper
180 100
182 98.0 48.0 144.2
145 50.1 15.4 46.4#

