

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122419\
 Data File : VX014251.D
 Acq On : 24 Dec 2019 17:35
 Operator : JC/SP
 Sample : K6405-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 995-MW-11-(15)

Quant Time: Dec 25 05:43:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	538402	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	828843	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	759077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	334150	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	300316	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
35) Dibromofluoromethane	5.49	113	247836	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
50) Toluene-d8	8.71	98	992016	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	11.14	95	333814	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	

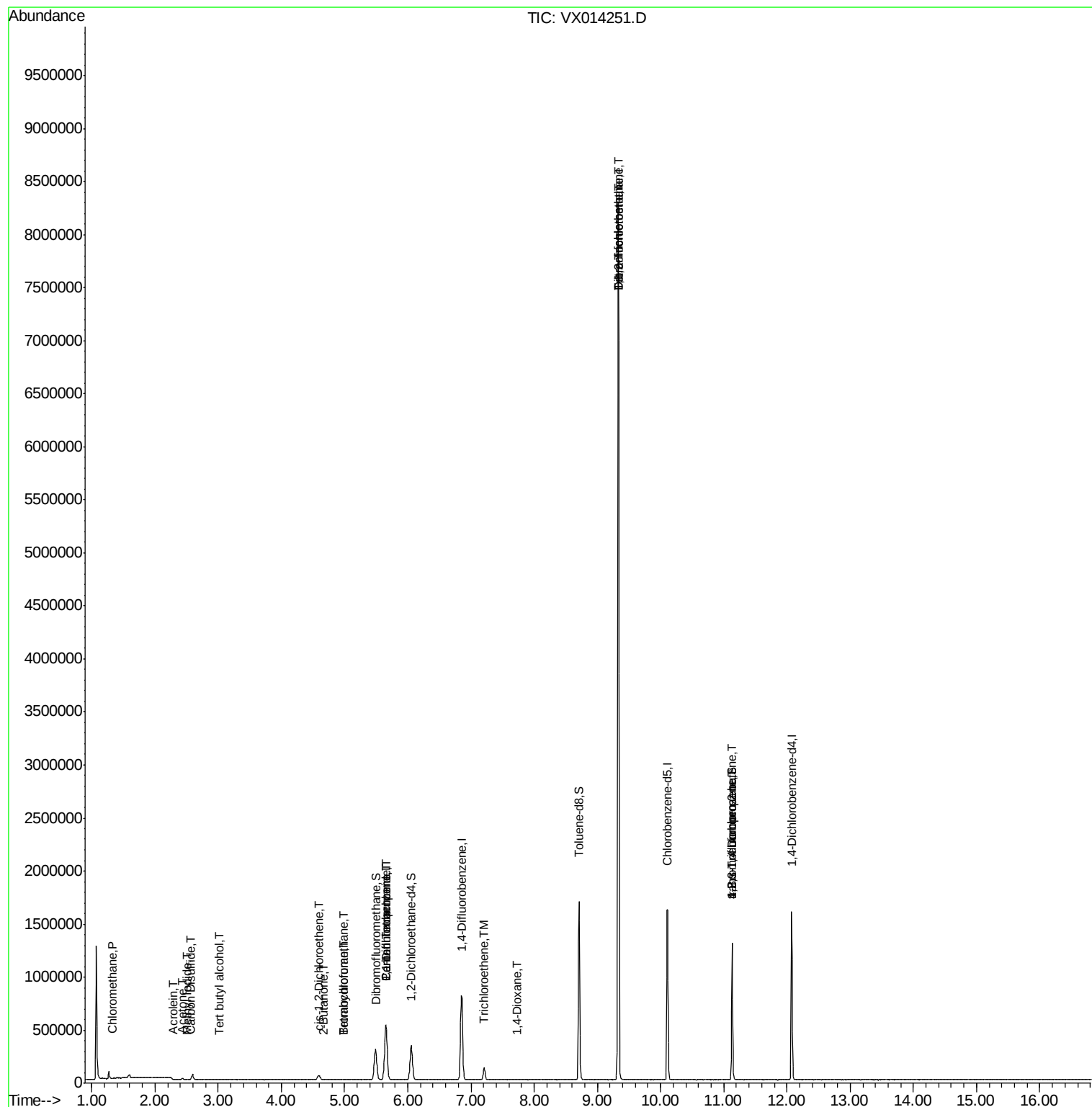
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1405	0.217	ug/l #	61
10) Methyl Iodide	2.50	142	673	2.716	ug/l #	65
11) Tert butyl alcohol	3.02	59	2110	1.600	ug/l #	86
13) Acrolein	2.29	56	344	0.456	ug/l #	66
16) Acetone	2.43	43	14143	3.570	ug/l	98
17) Carbon Disulfide	2.56	76	1752	0.870	ug/l #	1
25) 2-Butanone	4.67	43	1179	0.241	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	27056	4.193	ug/l	93
28) Bromochloromethane	4.99	49	482	0.575	ug/l #	85
29) Tetrahydrofuran	4.99	42	612	0.224	ug/l	94
36) 1,1-Dichloropropene	5.65	75	37030	4.869	ug/l #	49
38) Carbon Tetrachloride	5.65	117	47217	6.815	ug/l #	16
44) Trichloroethene	7.21	130	47056	7.281	ug/l	90
49) 1,4-Dioxane	7.73	88	145	1.047	ug/l #	1
55) 1,1,2-Trichloroethane	9.33	97	11526	1.944	ug/l #	1
60) Dibromochloromethane	9.33	129	1435521	243.626	ug/l #	11
64) Tetrachloroethene	9.33	164	1620509	241.259	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	163469	22.534	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	163469	63.603	ug/l #	12

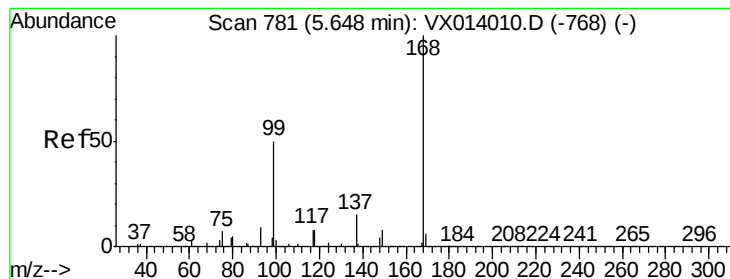
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

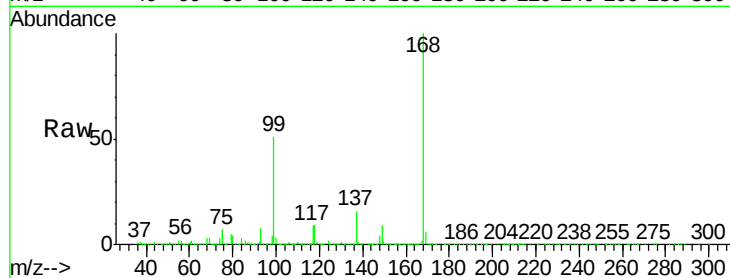
995-MW-11-(15)

Tgt Ion:168 Resp: 538402

Ion Ratio Lower Upper

168 100

99 50.9 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

100000

50000

0

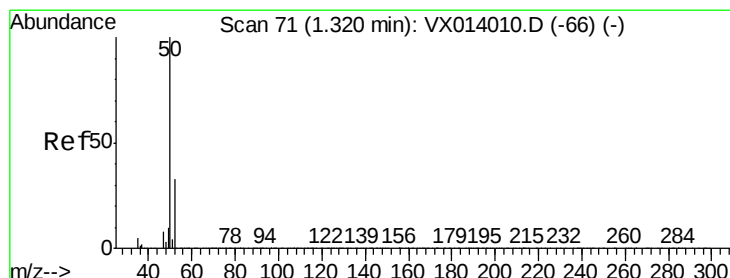
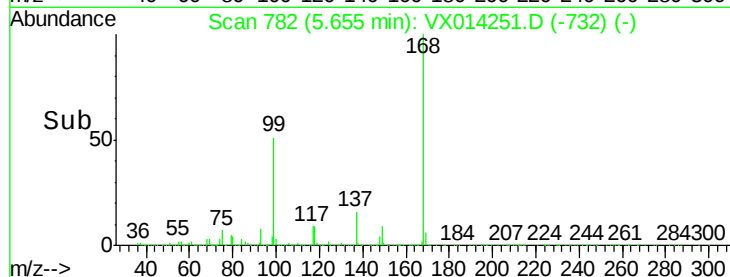
Time-->

5.50

5.60

5.70

5.80



#3

Chloromethane

Concen: 0.217 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014251.D

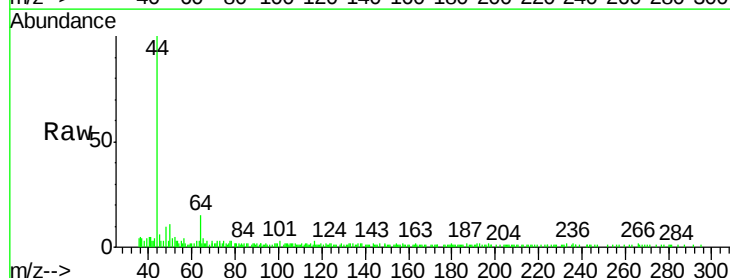
Acq: 24 Dec 2019 17:35

Tgt Ion: 50 Resp: 1405

Ion Ratio Lower Upper

50 100

52 54.9 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1500

1000

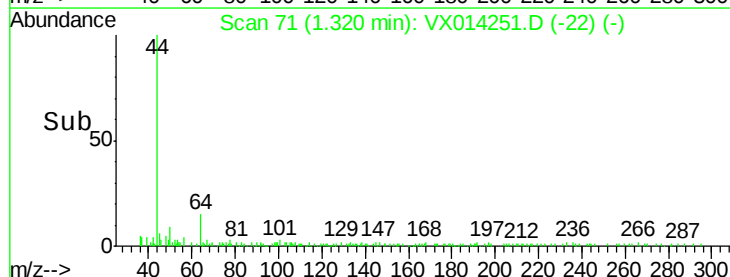
500

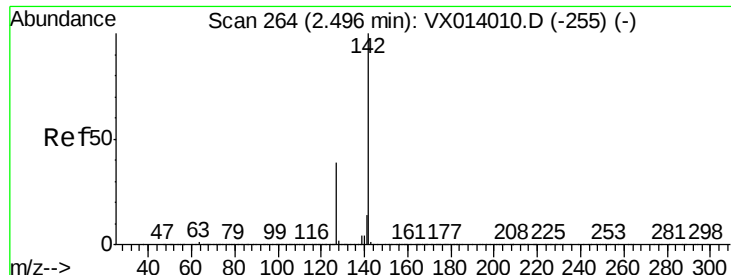
0

Time-->

1.30

1.35

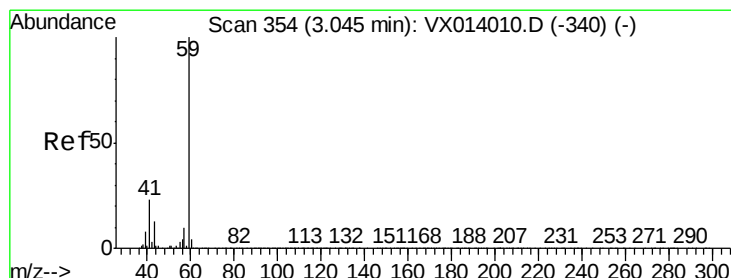
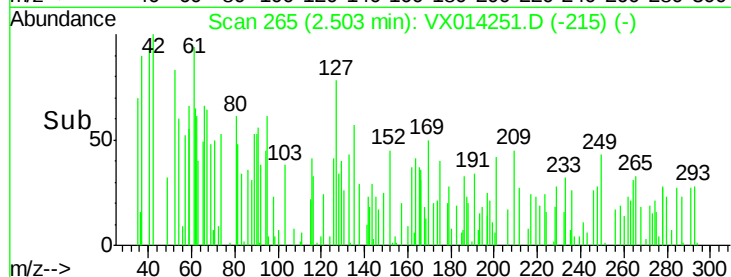
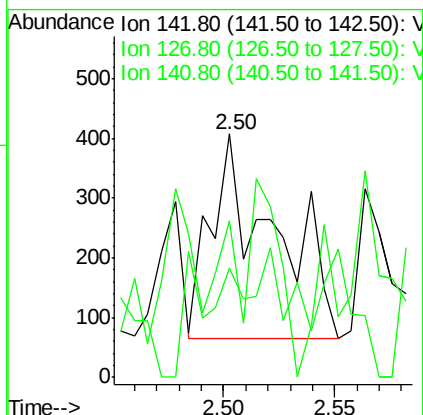
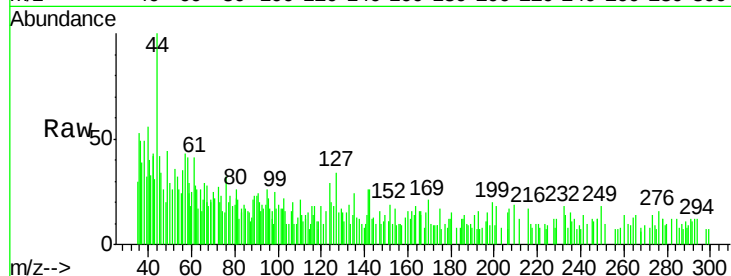




#10
Methyl Iodide
Concen: 2.716 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX014251.D
Acq: 24 Dec 2019 17:35

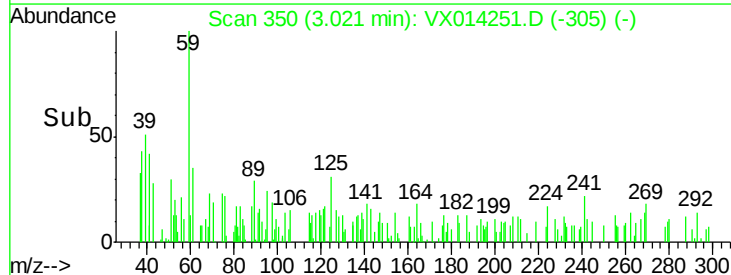
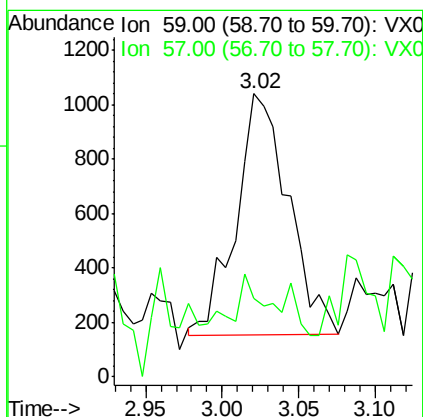
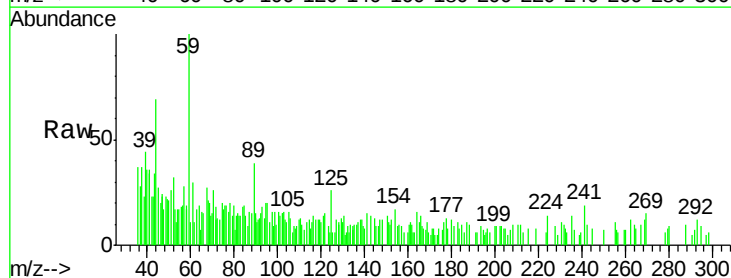
Instrument :
MSVOA_X
ClientSampled :
995-MW-11-(15)

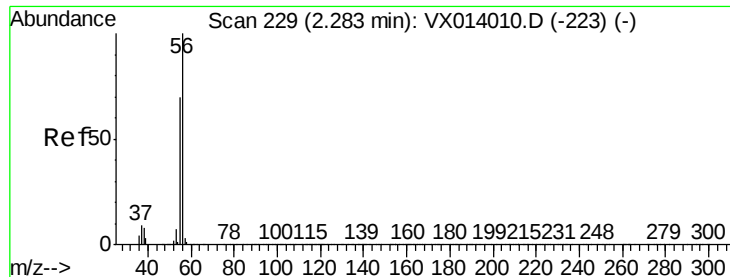
Tgt Ion:142 Resp: 673
Ion Ratio Lower Upper
142 100
127 63.0 31.6 47.4#
141 4.5 11.6 17.4#



#11
Tert butyl alcohol
Concen: 1.600 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014251.D
Acq: 24 Dec 2019 17:35

Tgt Ion: 59 Resp: 2110
Ion Ratio Lower Upper
59 100
57 5.4 8.4 12.6#





#13

Acrolein

Concen: 0.456 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

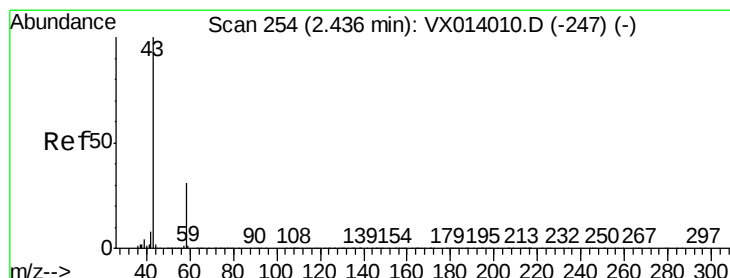
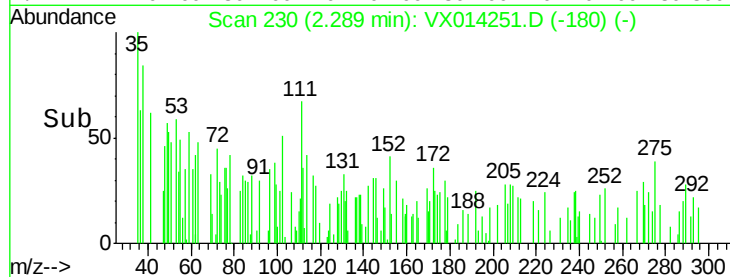
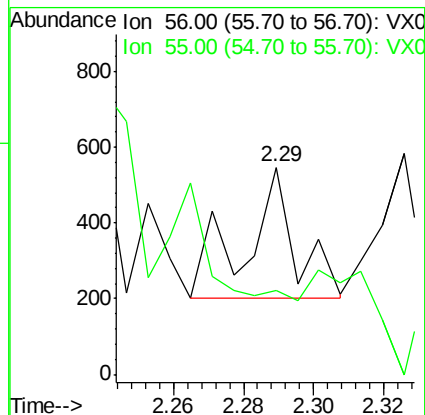
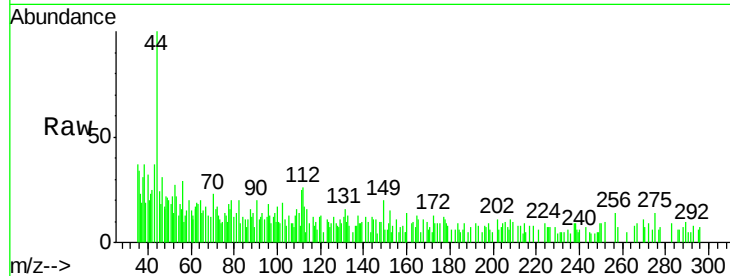
995-MW-11-(15)

Tgt Ion: 56 Resp: 344

Ion Ratio Lower Upper

56 100

55 99.4 56.9 85.3#



#16

Acetone

Concen: 3.570 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014251.D

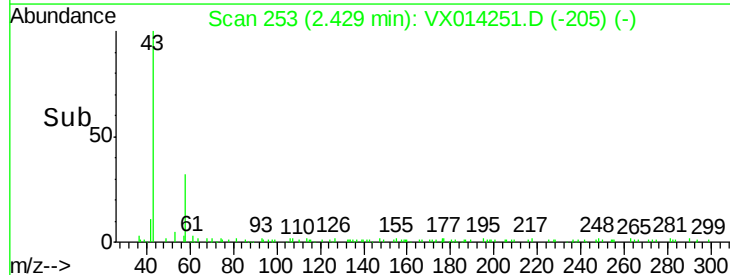
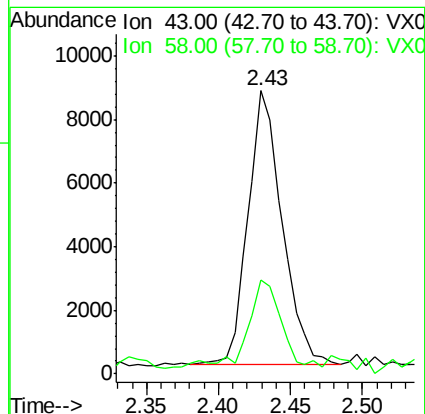
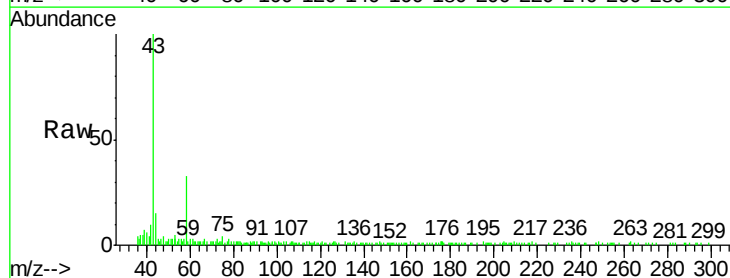
Acq: 24 Dec 2019 17:35

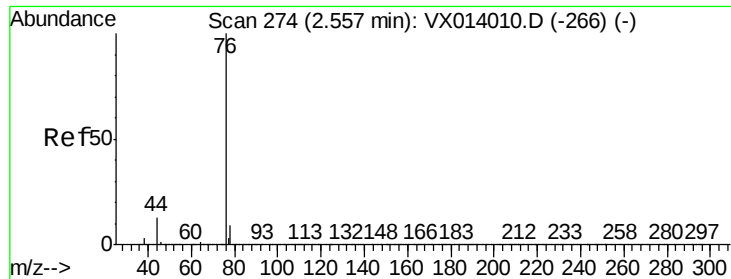
Tgt Ion: 43 Resp: 14143

Ion Ratio Lower Upper

43 100

58 30.3 24.9 37.3





#17

Carbon Disulfide

Concen: 0.870 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

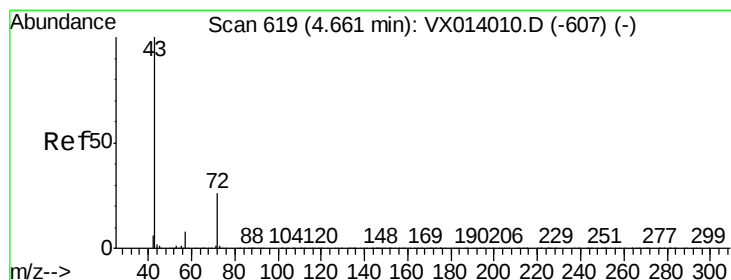
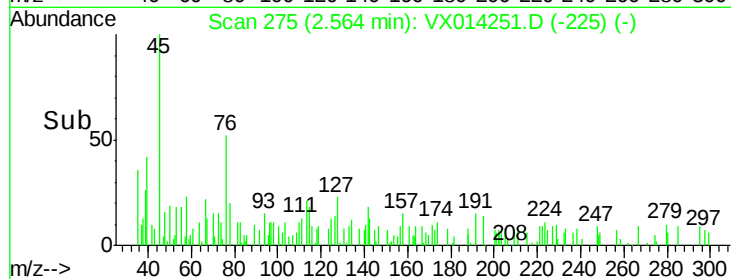
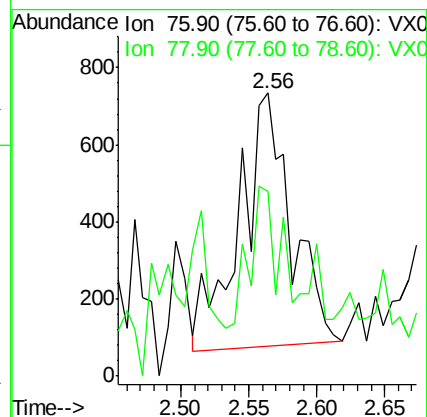
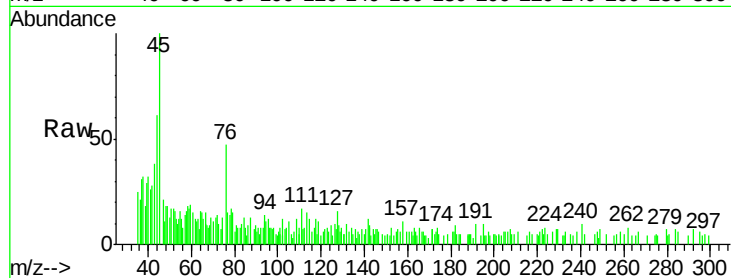
995-MW-11-(15)

Tgt Ion: 76 Resp: 1752

Ion Ratio Lower Upper

76 100

78 47.4 7.2 10.8#



#25

2-Butanone

Concen: 0.241 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014251.D

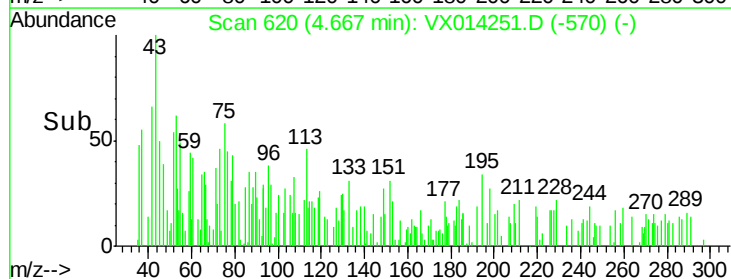
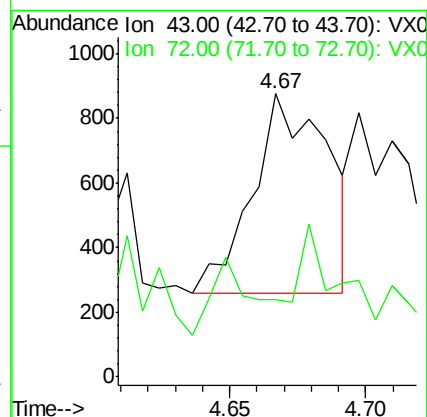
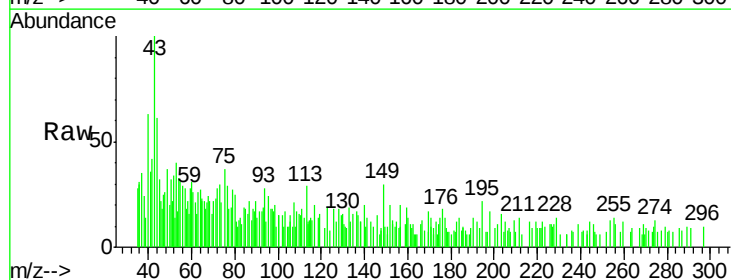
Acq: 24 Dec 2019 17:35

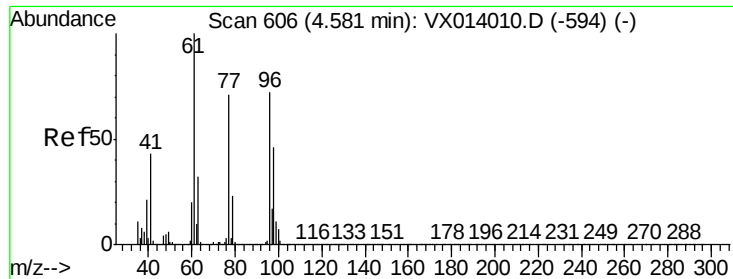
Tgt Ion: 43 Resp: 1179

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.4#



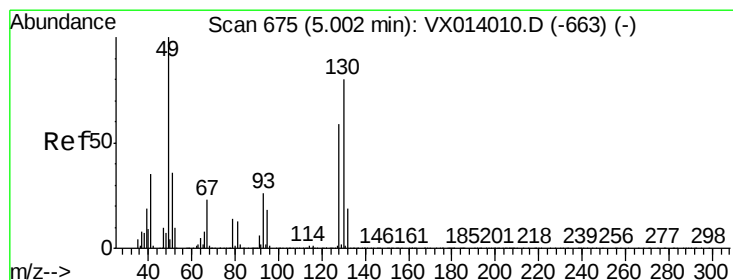
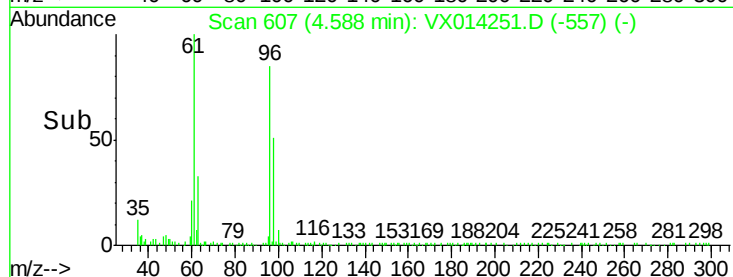
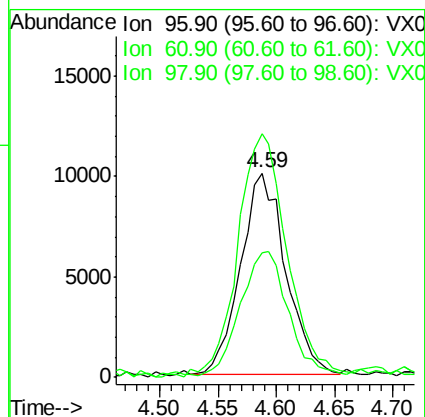
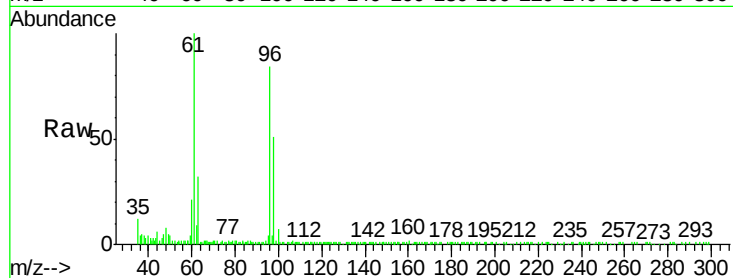


#27

cis-1,2-Dichloroethene
 Concen: 4.193 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX014251.D
 Acq: 24 Dec 2019 17:35

Instrument :
 MSVOA_X
 ClientSampleId :
 995-MW-11-(15)

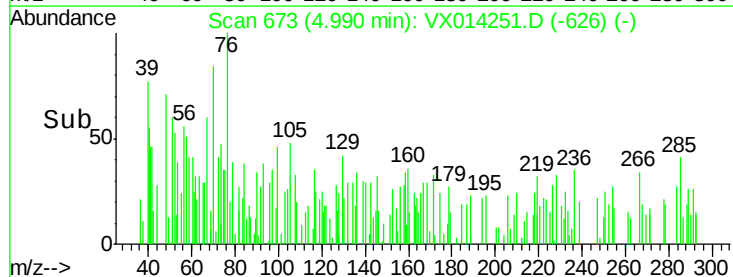
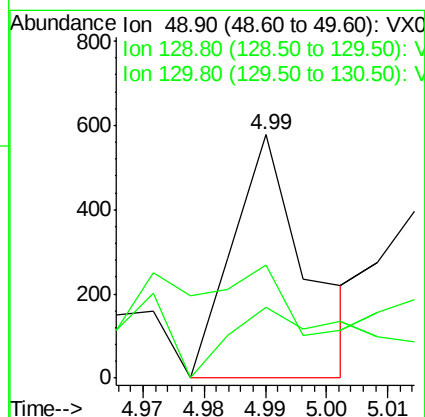
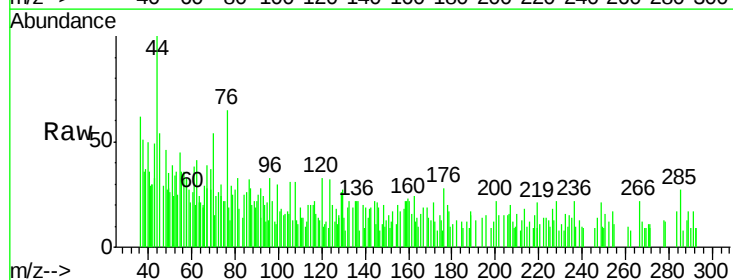
Tgt Ion: 96 Resp: 27056
 Ion Ratio Lower Upper
 96 100
 61 132.6 0.0 288.4
 98 64.6 0.0 129.6

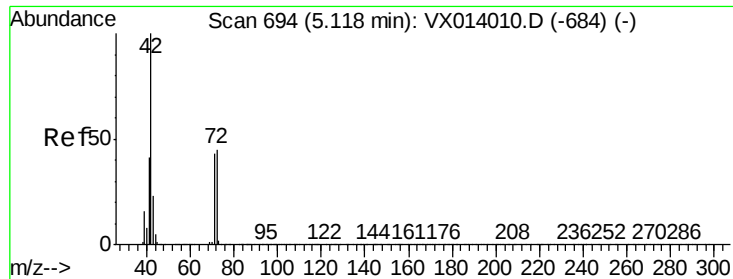


#28

Bromochloromethane
 Concen: 0.575 ug/l
 RT: 4.99 min Scan# 673
 Delta R.T. -0.01 min
 Lab File: VX014251.D
 Acq: 24 Dec 2019 17:35

Tgt Ion: 49 Resp: 482
 Ion Ratio Lower Upper
 49 100
 129 53.5 0.0 5.0#
 130 71.0 64.6 97.0





#29

Tetrahydrofuran

Concen: 0.224 ug/l

RT: 4.99 min Scan# 673

Delta R.T. -0.13 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

995-MW-11-(15)

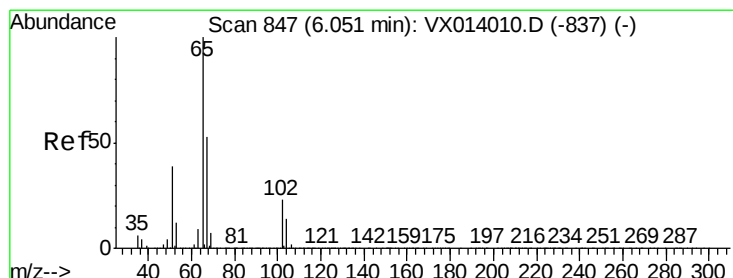
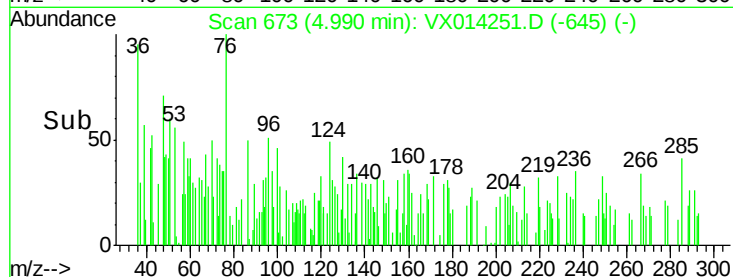
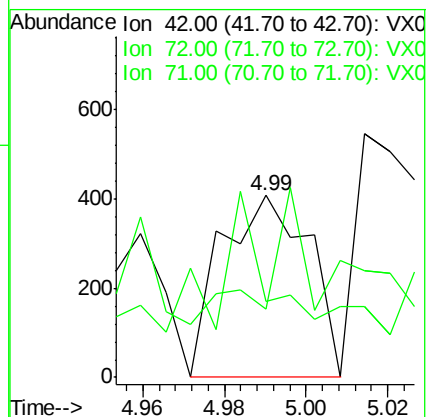
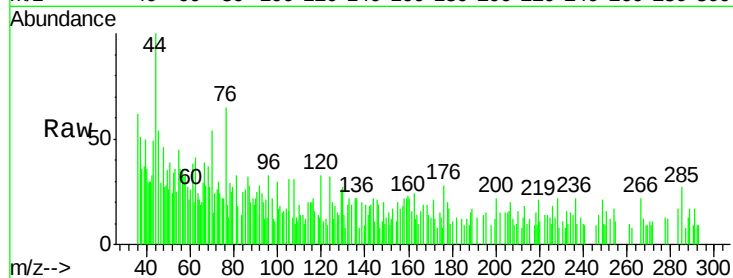
Tgt Ion: 42 Resp: 612

Ion Ratio Lower Upper

42 100

72 41.8 35.8 53.8

71 46.7 33.6 50.4



#33

1,2-Dichloroethane-d4

Concen: 49.216 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014251.D

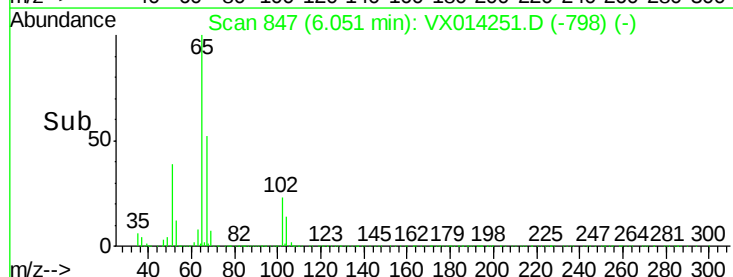
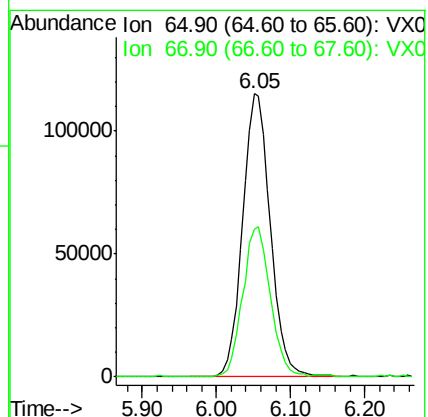
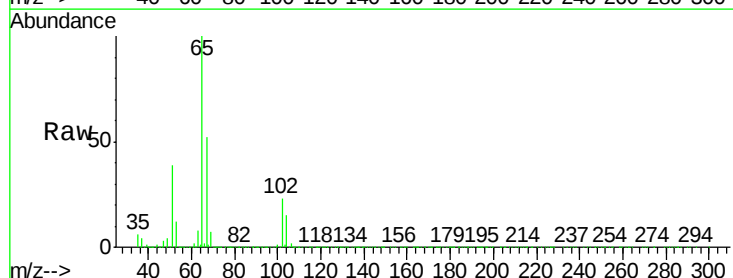
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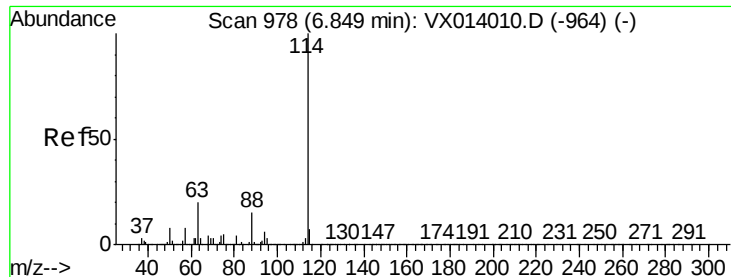
Tgt Ion: 65 Resp: 300316

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

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ClientSampleId :

995-MW-11-(15)

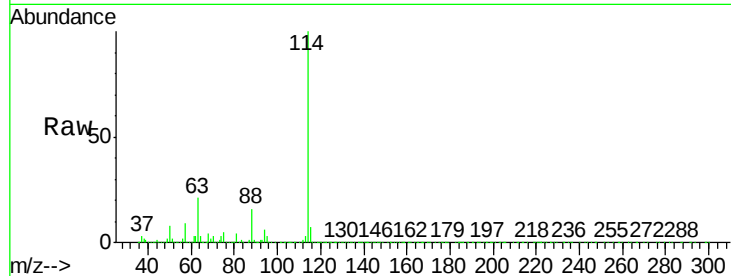
Tgt Ion:114 Resp: 828843

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

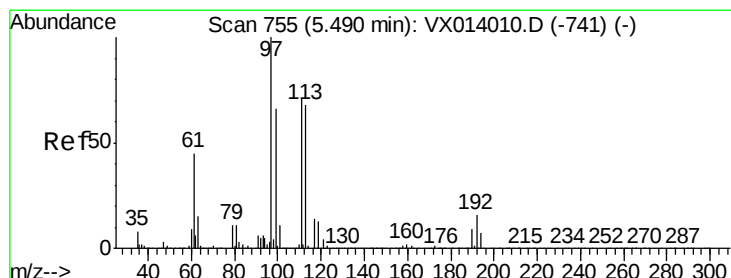
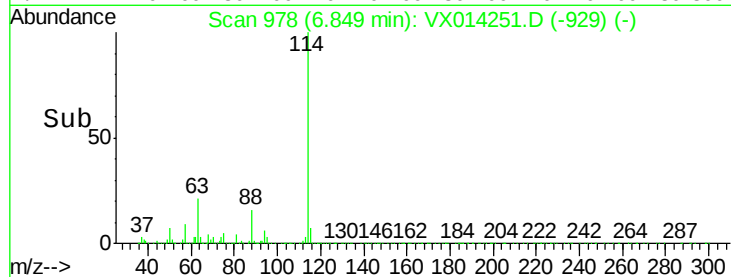
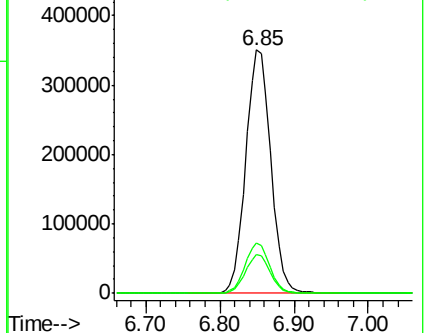
88 15.9 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.189 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

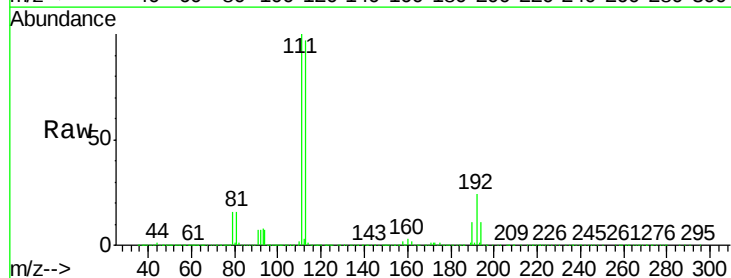
Tgt Ion:113 Resp: 247836

Ion Ratio Lower Upper

113 100

111 101.2 82.0 123.0

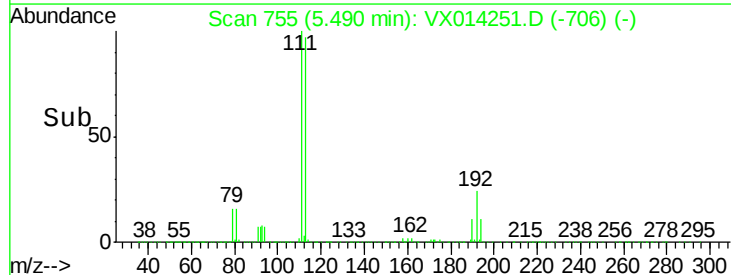
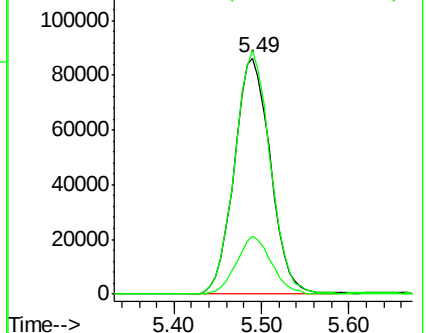
192 23.9 19.3 28.9

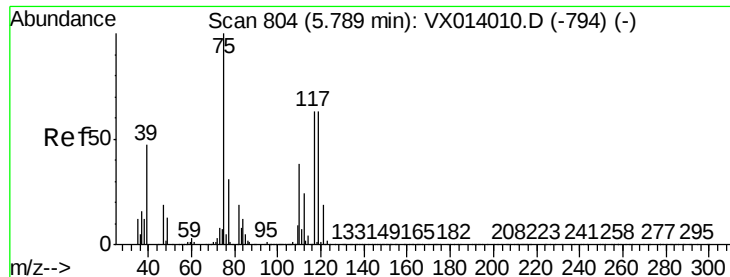


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

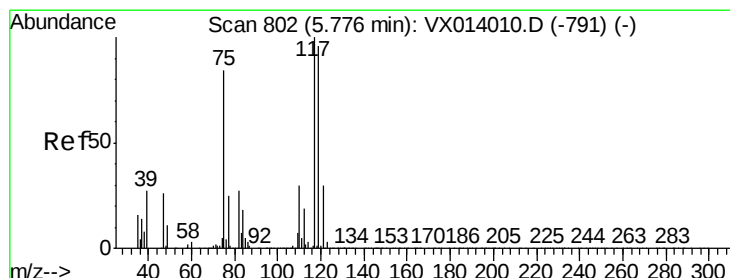
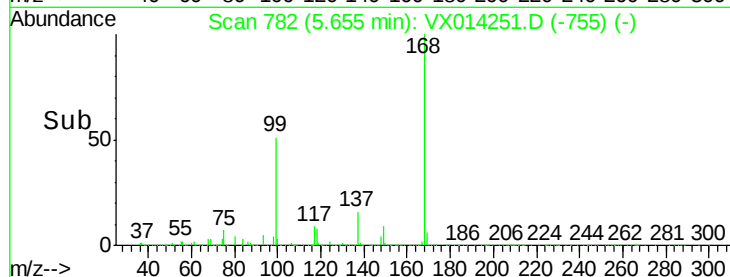
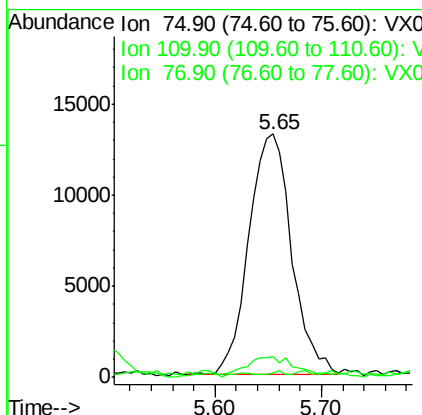
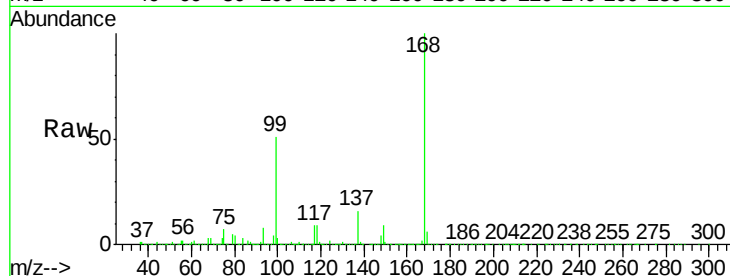




#36
 1,1-Dichloropropene
 Concen: 4.869 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014251.D
 Acq: 24 Dec 2019 17:35

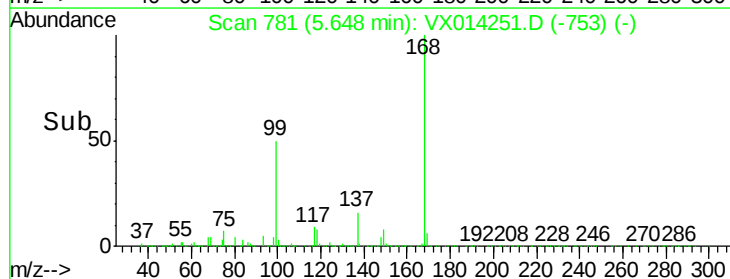
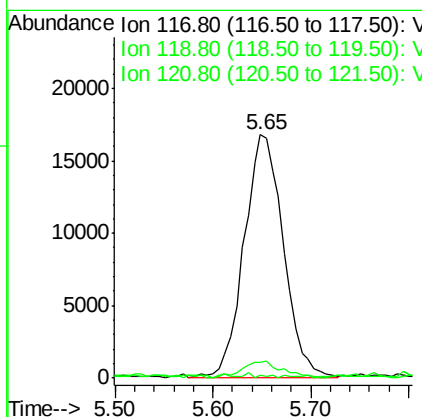
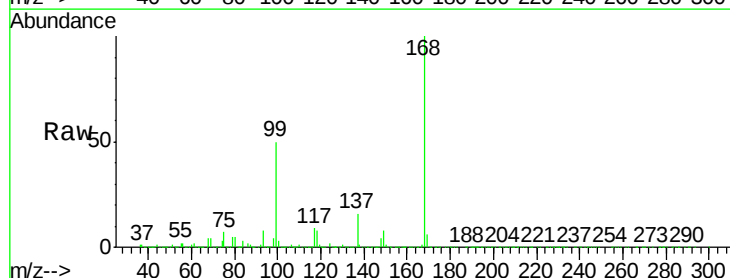
Instrument :
 MSVOA_X
 ClientSampleId :
 995-MW-11-(15)

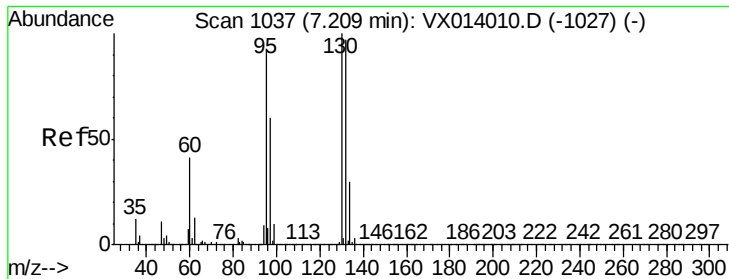
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.3	54.9#
77	0.4	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.815 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014251.D
 Acq: 24 Dec 2019 17:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.2	114.4#
121	0.0	23.6	35.4#





#44

Trichloroethene

Concen: 7.281 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

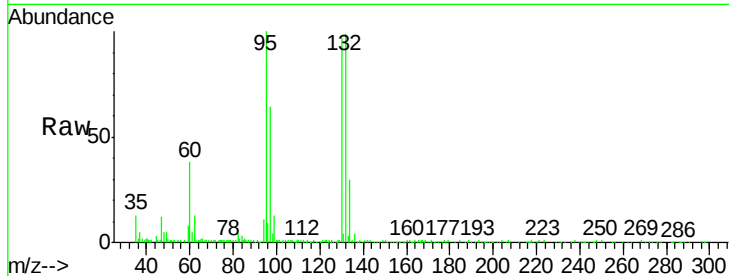
995-MW-11-(15)

Tgt Ion:130 Resp: 47056

Ion Ratio Lower Upper

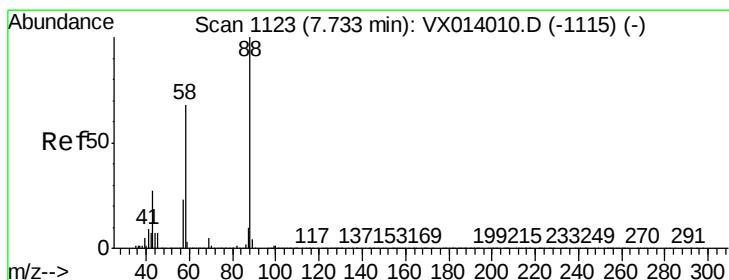
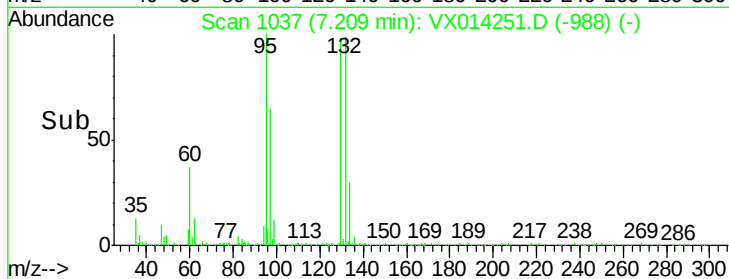
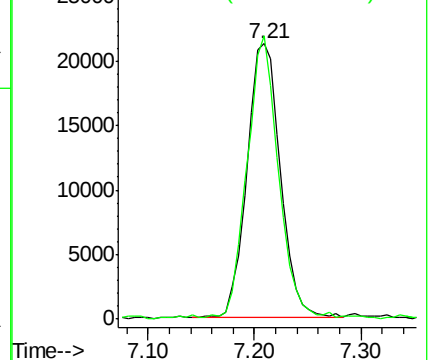
130 100

95 102.2 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 1.047 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

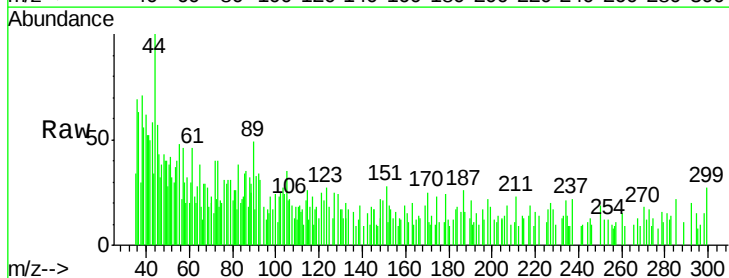
Tgt Ion: 88 Resp: 145

Ion Ratio Lower Upper

88 100

43 193.1 26.5 39.7#

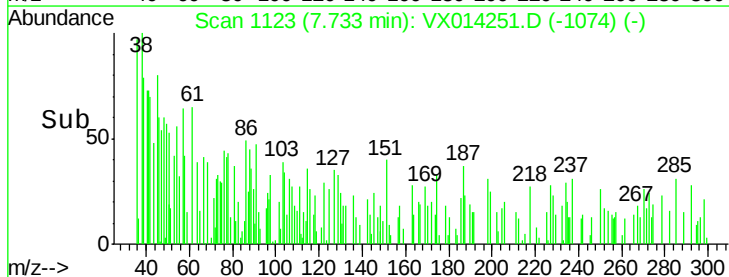
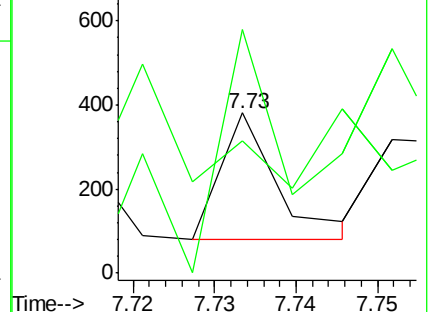
58 464.1 56.8 85.2#

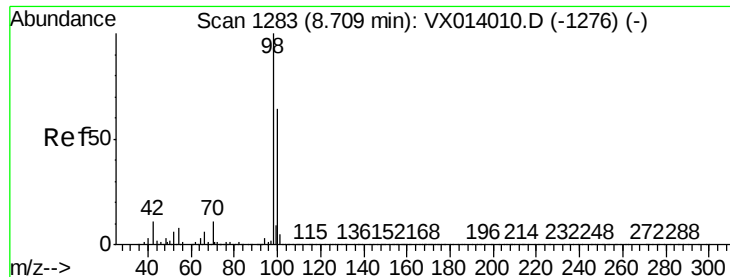


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.572 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

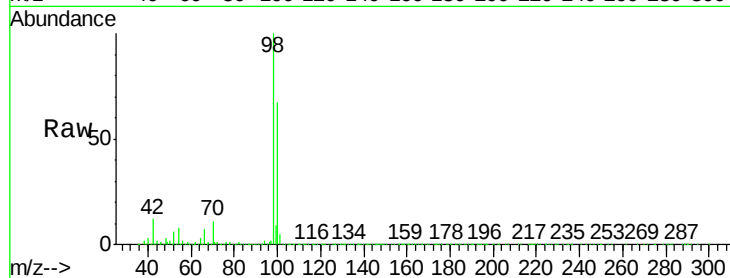
995-MW-11-(15)

Tgt Ion: 98 Resp: 992016

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

600000

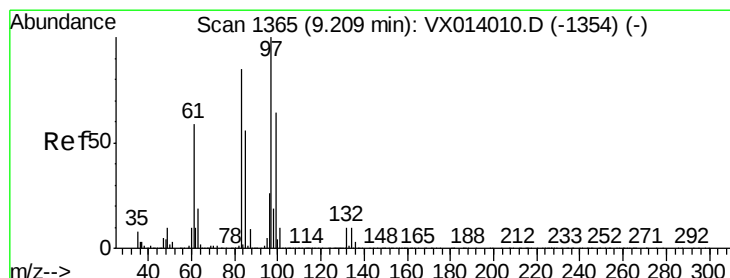
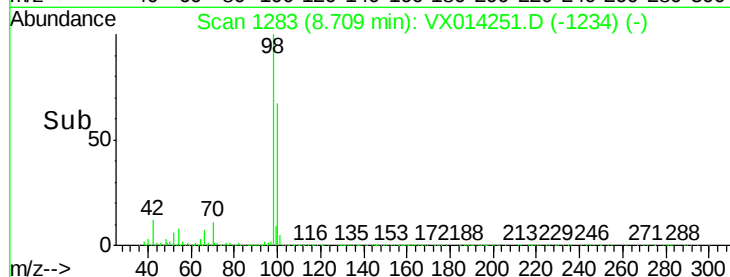
400000

200000

0

Time-->

8.60 8.70 8.80 8.90



#55

1,1,2-Trichloroethane

Concen: 1.944 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.12 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Tgt Ion: 97 Resp: 11526

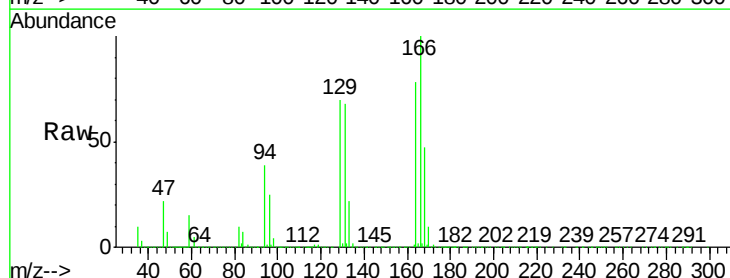
Ion Ratio Lower Upper

97 100

83 354.2 68.2 102.4#

85 44.9 44.6 66.8

99 17.3 51.4 77.0#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

40000

30000

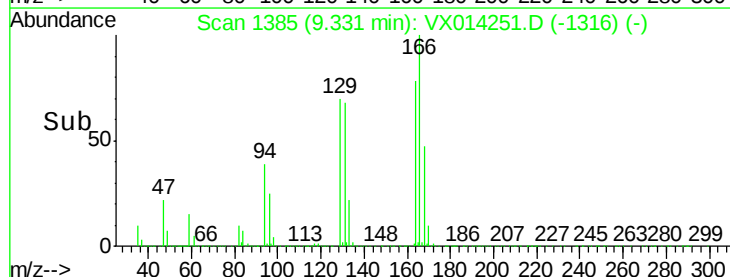
20000

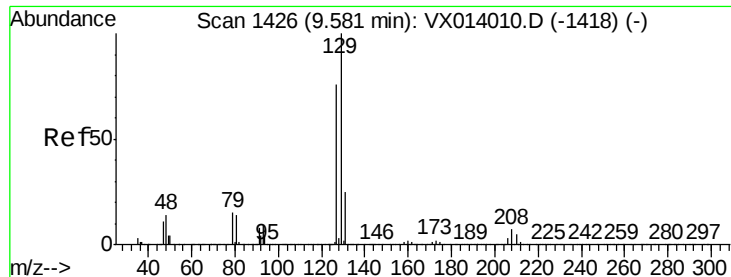
10000

0

Time-->

9.30 9.35





#60

Dibromochloromethane

Concen: 243.626 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

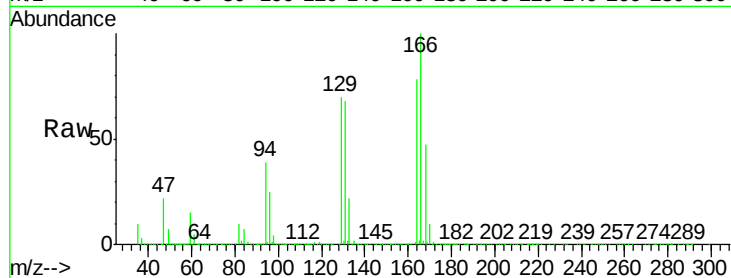
995-MW-11-(15)

Tgt Ion:129 Resp: 1435521

Ion Ratio Lower Upper

129 100

127 0.1 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

1200000

1000000

800000

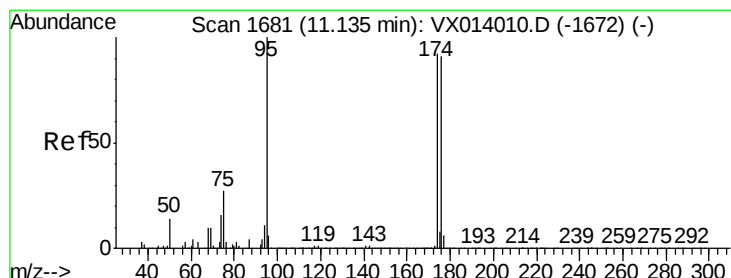
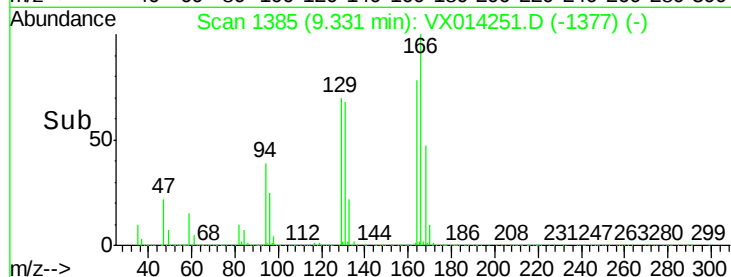
600000

400000

200000

0

Time--> 9.30 9.40



#62

4-Bromofluorobenzene

Concen: 46.554 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

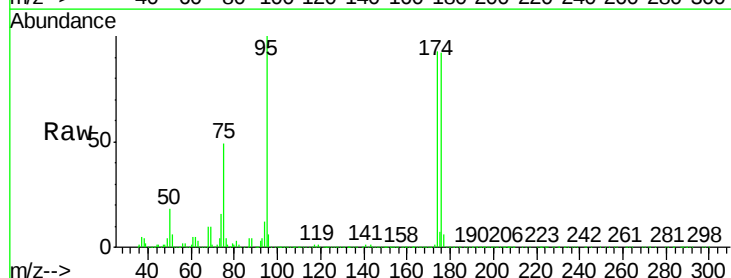
Tgt Ion: 95 Resp: 333814

Ion Ratio Lower Upper

95 100

174 89.6 0.0 175.8

176 86.8 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

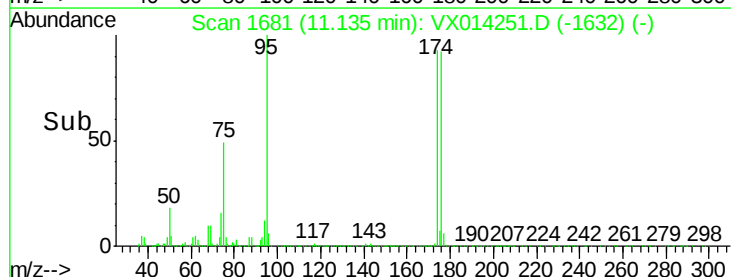
300000

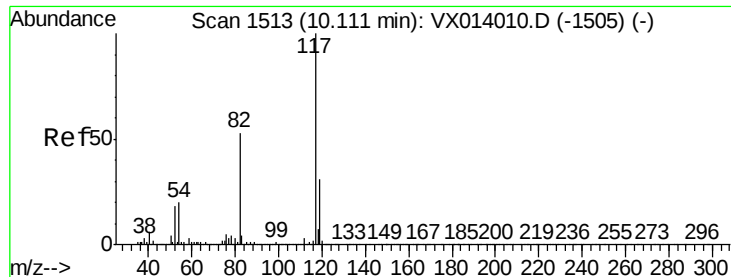
200000

100000

0

Time--> 11.00 11.10 11.20

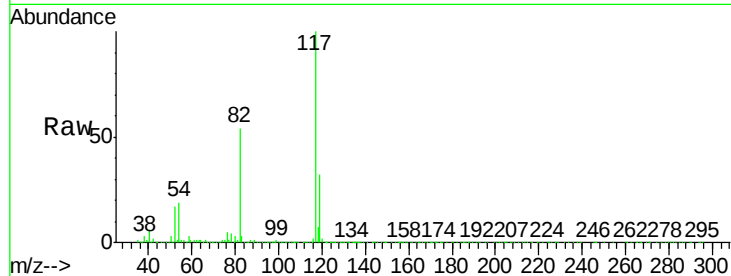




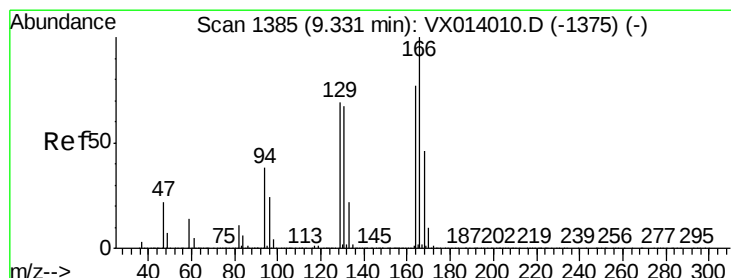
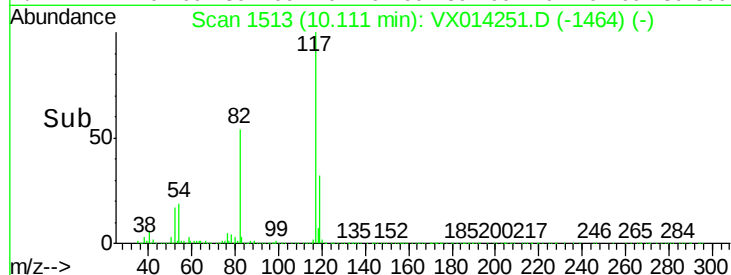
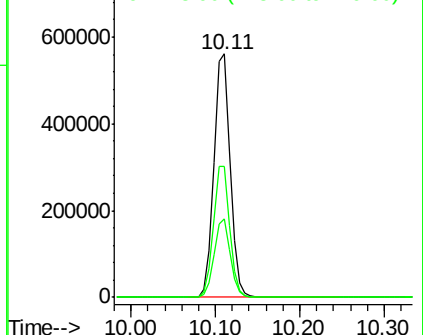
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014251.D
Acq: 24 Dec 2019 17:35

Instrument :
MSVOA_X
ClientSampleId :
995-MW-11-(15)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.6	42.2	63.4
119	32.0	25.1	37.7



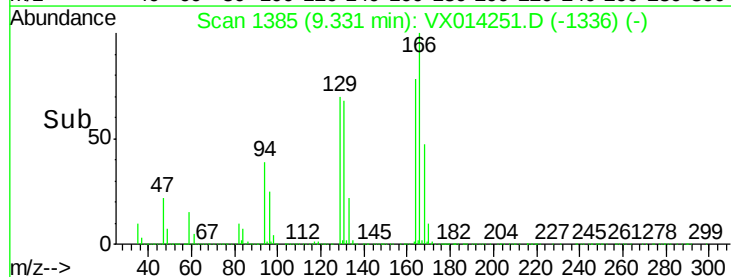
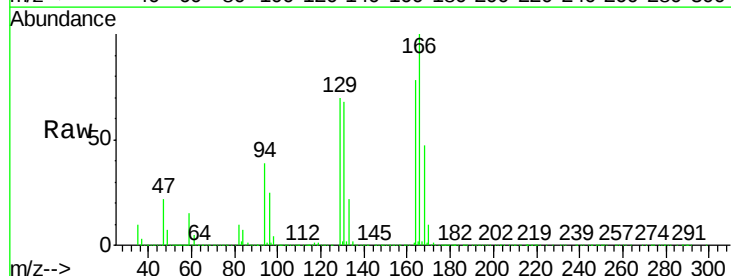
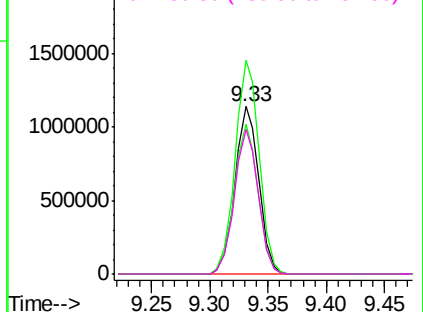
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

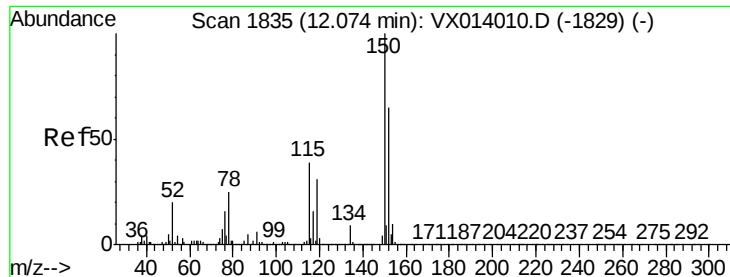


#64
Tetrachloroethene
Concen: 241.259 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX014251.D
Acq: 24 Dec 2019 17:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.7	104.0	156.0
129	89.2	72.2	108.4
131	86.8	69.6	104.4

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

995-MW-11-(15)

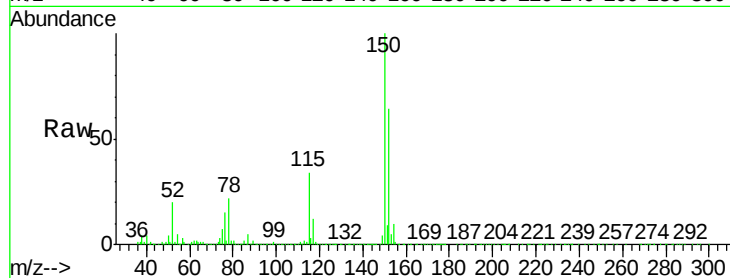
Tgt Ion: 152 Resp: 334150

Ion Ratio Lower Upper

152 100

115 55.0 38.3 114.9

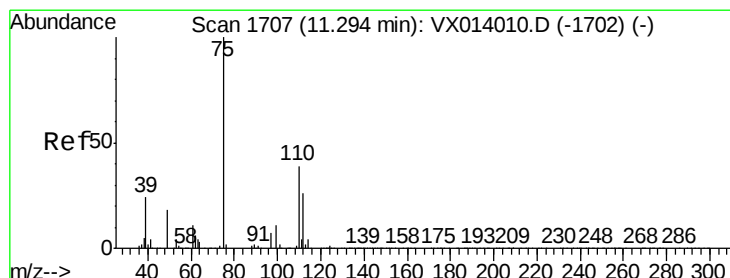
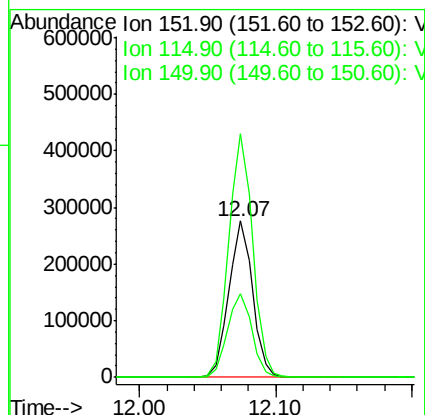
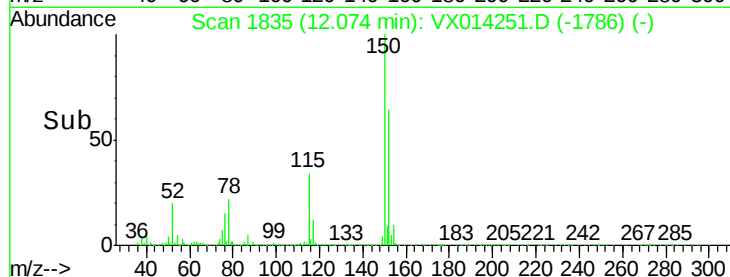
150 157.3 0.0 345.4



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: 22.534 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014251.D

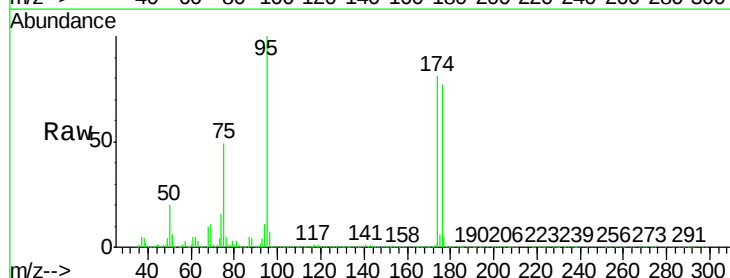
Acq: 24 Dec 2019 17:35

Tgt Ion: 75 Resp: 163469

Ion Ratio Lower Upper

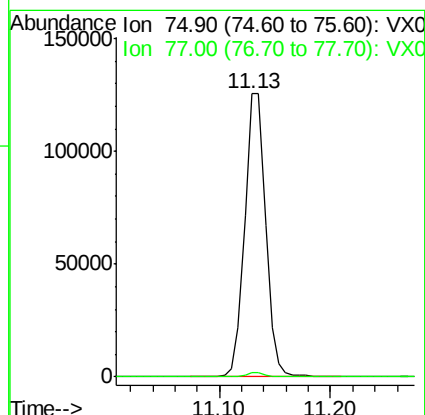
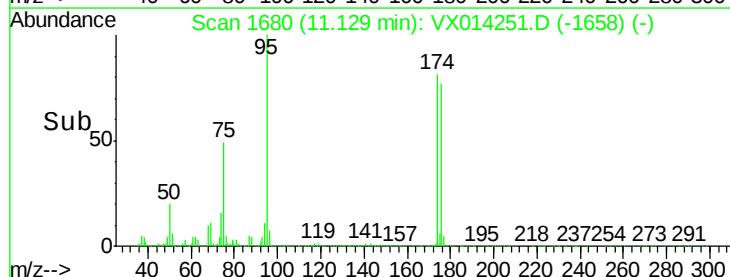
75 100

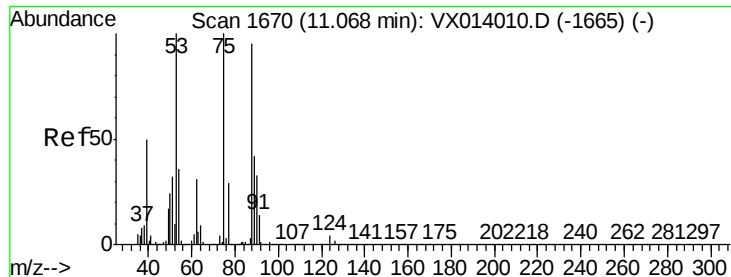
77 1.5 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.603 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014251.D

Acq: 24 Dec 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

995-MW-11-(15)

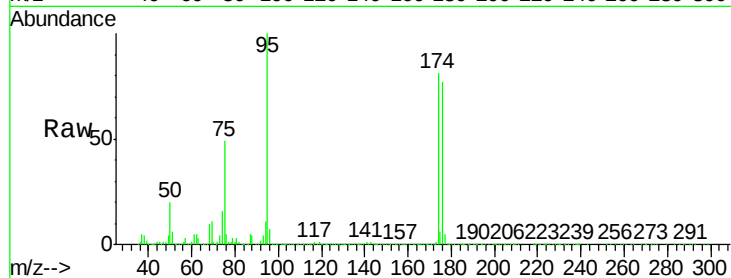
Tgt Ion: 75 Resp: 163469

Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

