

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112219\
 Data File : VX013527.D
 Acq On : 22 Nov 2019 12:52
 Operator : JC/SP
 Sample : K5804-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TE-MW-QA-2

Quant Time: Nov 22 14:27:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	111815	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	621558	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	528133	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	242745	29.40	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.00%
60) 4-Bromofluorobenzene	11.14	95	232668	27.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.37%
63) Toluene-d8	8.71	98	732164	30.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.20%

Target Compounds

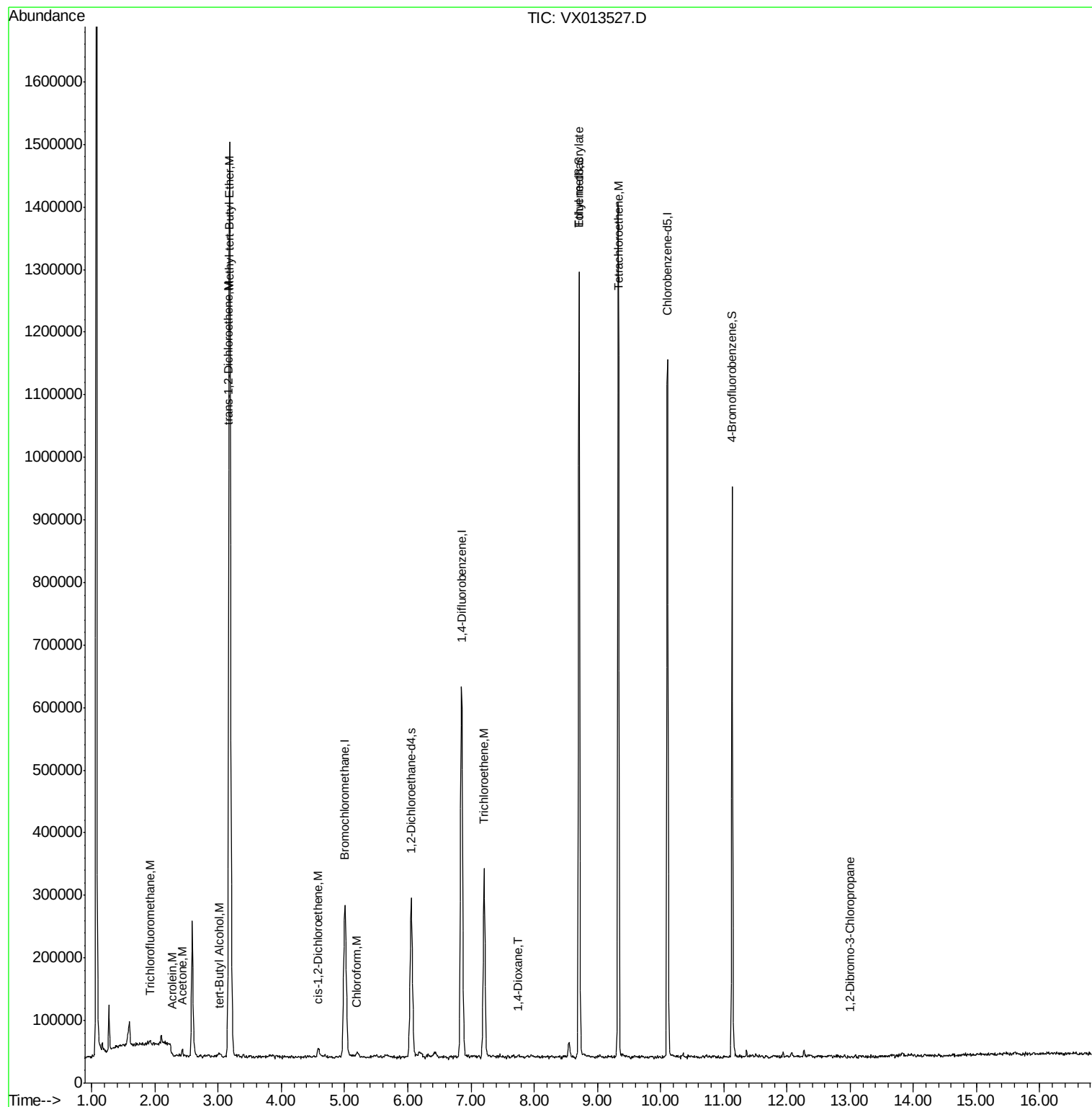
					Qvalue	
7) Trichlorofluoromethane	1.92	101	3908	0.350	ug/l	96
13) Acrolein	2.28	56	343	0.267	ug/l #	68
15) Acetone	2.43	58	4139	3.071	ug/l	92
19) trans-1,2-Dichloroethene	3.16	96	2087	0.283	ug/l	97
22) cis-1,2-Dichloroethene	4.59	96	6142	0.730	ug/l	90
23) tert-Butyl Alcohol	3.01	59	2994	1.398	ug/l #	92
24) Methyl tert-Butyl Ether	3.18	73	1612046	70.532	ug/l	100
25) Chloroform	5.20	83	9049	0.694	ug/l	84
37) Trichloroethene	7.21	130	122868	15.927	ug/l	99
45) 1,4-Dioxane	7.74	88	167	0.823	ug/l #	1
51) Ethyl methacrylate	8.71	69	2785	0.231	ug/l	81
61) Tetrachloroethene	9.33	164	263009	40.385	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	12.99	75	575	0.227	ug/l #	5

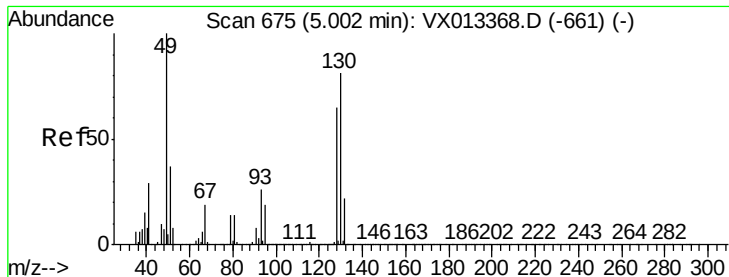
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX112219\
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ClientSampleId :
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Quant Time: Nov 22 14:27:33 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 12 01:16:13 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

Instrument :

MSVOA_X

ClientSampleId :

TE-MW-QA-2

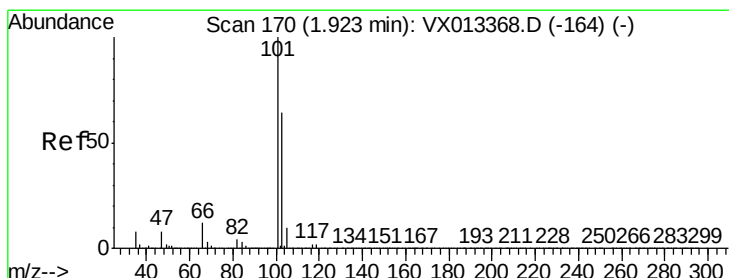
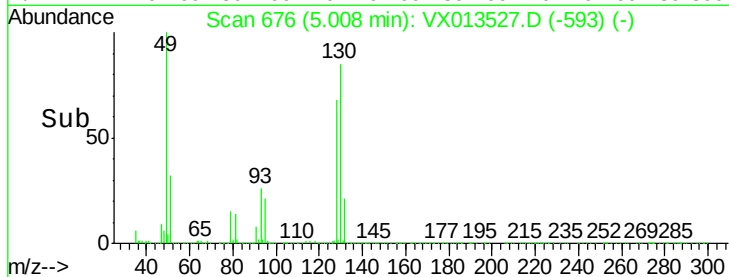
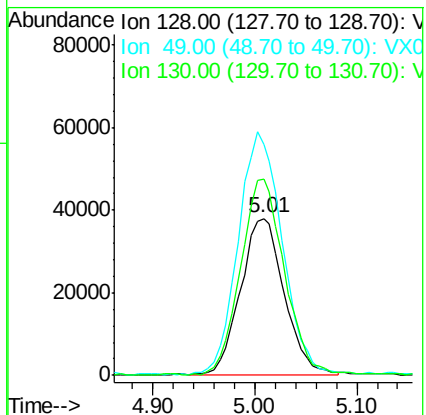
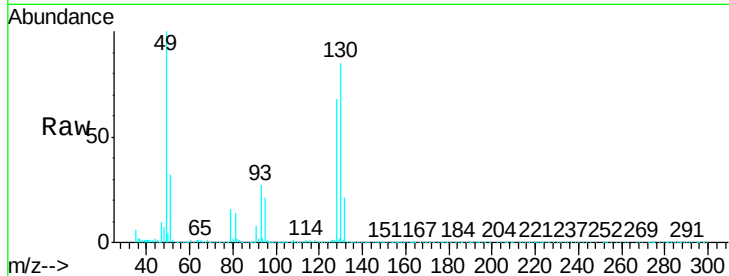
Tgt Ion:128 Resp: 111815

Ion Ratio Lower Upper

128 100

49 158.5 0.0 388.3

130 127.0 0.0 318.5



#7

Trichlorofluoromethane

Concen: 0.350 ug/l

RT: 1.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX013527.D

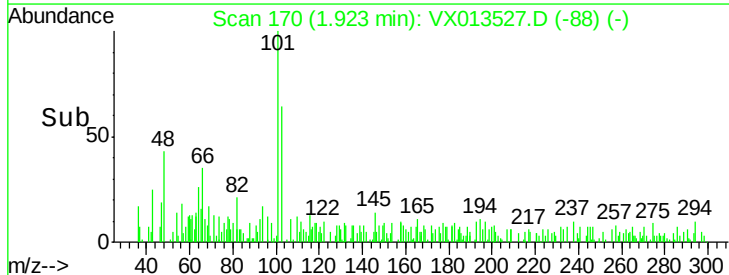
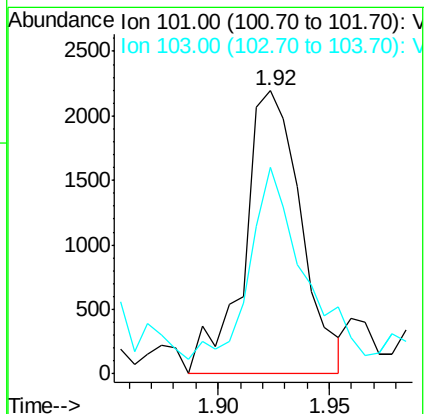
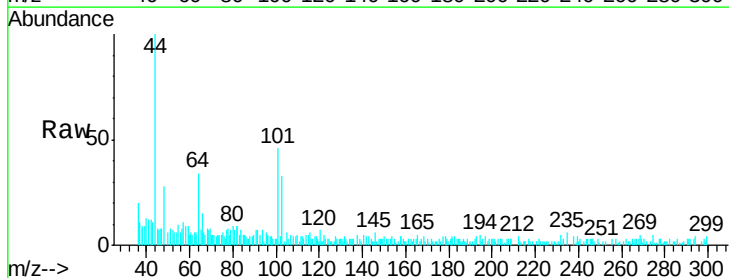
Acq: 22 Nov 2019 12:52

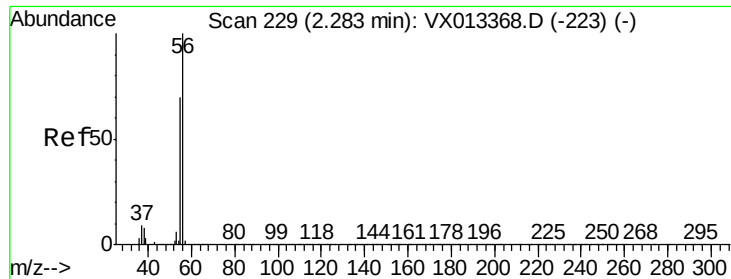
Tgt Ion:101 Resp: 3908

Ion Ratio Lower Upper

101 100

103 67.5 51.2 76.8





#13

Acrolein

Concen: 0.267 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

Instrument :

MSVOA_X

ClientSampled :

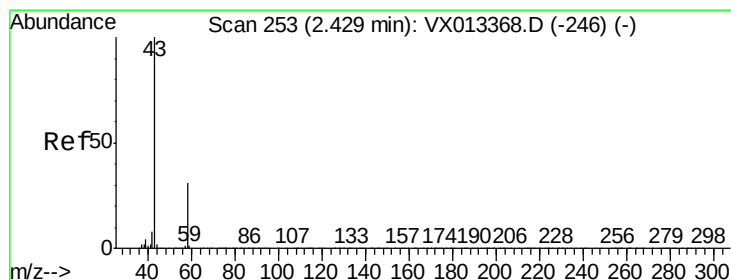
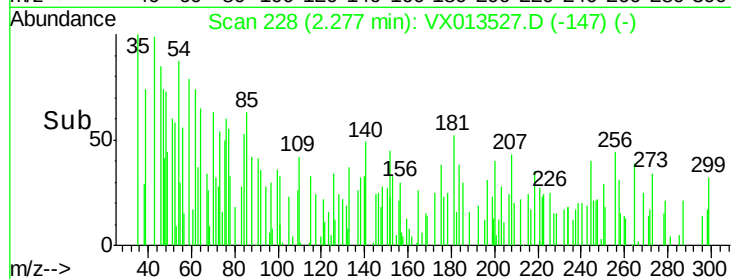
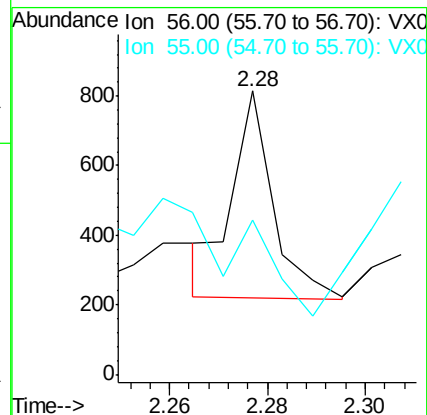
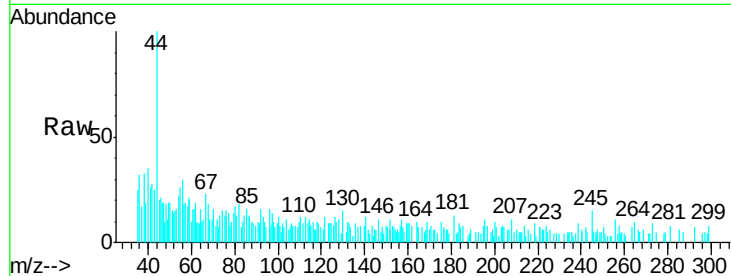
TE-MW-QA-2

Tgt Ion: 56 Resp: 343

Ion Ratio Lower Upper

56 100

55 43.4 55.8 83.8#



#15

Acetone

Concen: 3.071 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013527.D

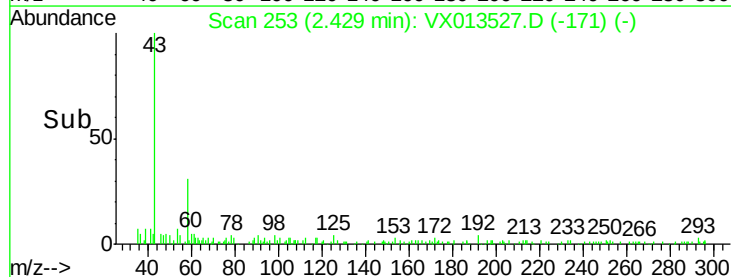
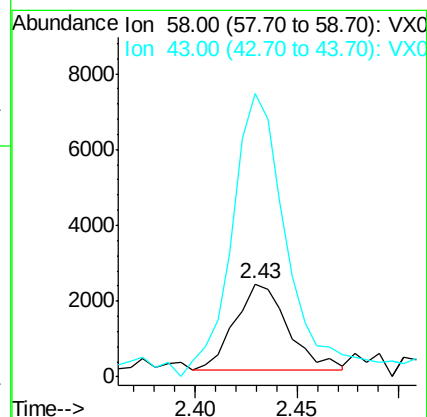
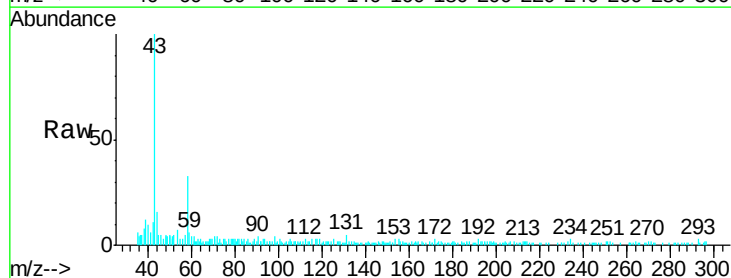
Acq: 22 Nov 2019 12:52

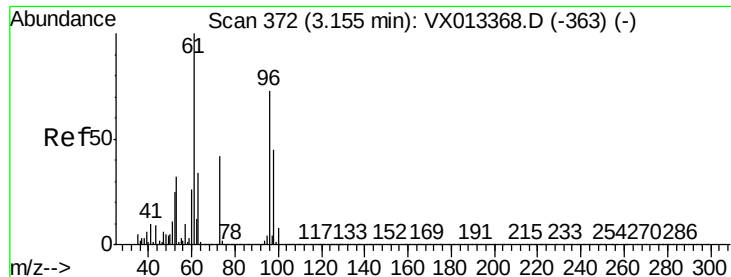
Tgt Ion: 58 Resp: 4139

Ion Ratio Lower Upper

58 100

43 310.0 261.4 392.2





#19

trans-1,2-Dichloroethene

Concen: 0.283 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

Instrument :

MSVOA_X

ClientSampleId :

TE-MW-QA-2

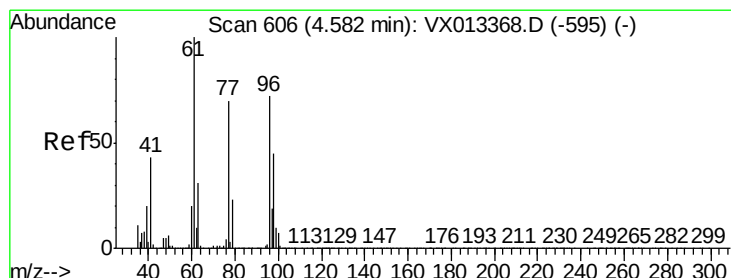
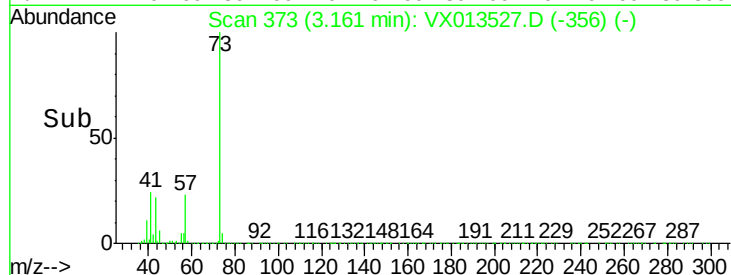
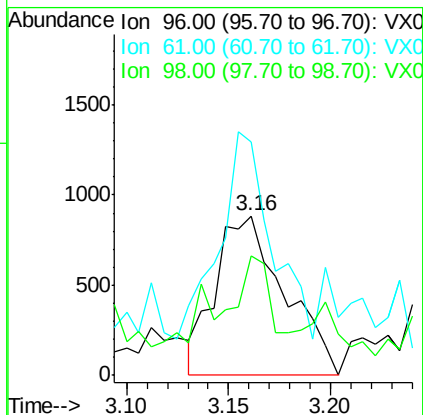
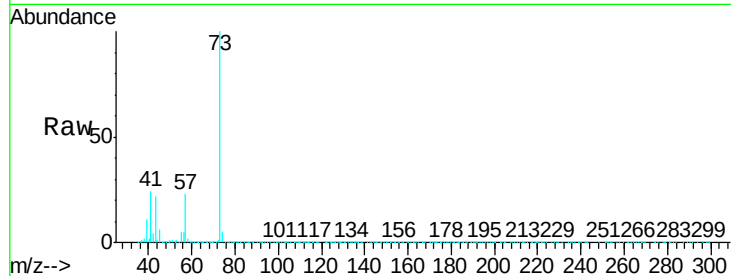
Tgt Ion: 96 Resp: 2087

Ion Ratio Lower Upper

96 100

61 135.0 109.9 164.9

98 66.8 49.7 74.5



#22

cis-1,2-Dichloroethene

Concen: 0.730 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

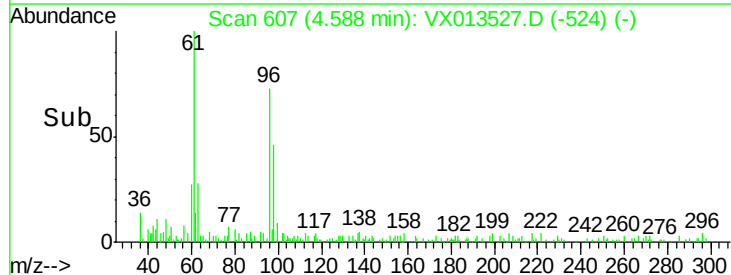
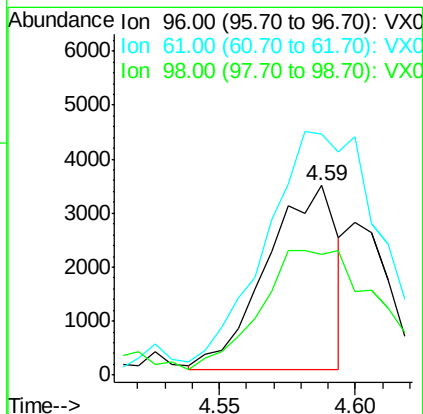
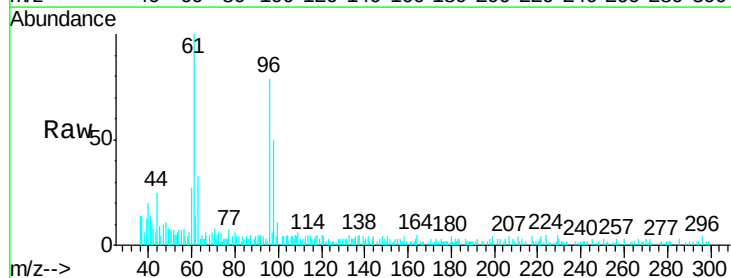
Tgt Ion: 96 Resp: 6142

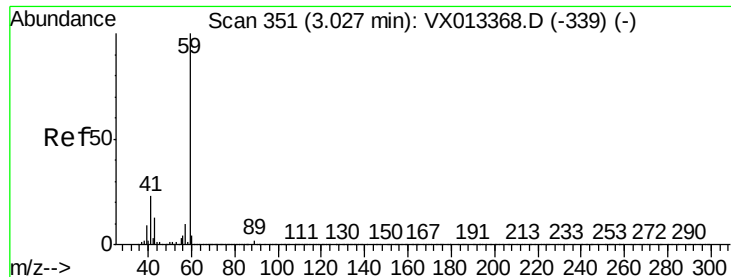
Ion Ratio Lower Upper

96 100

61 130.6 117.0 175.6

98 60.1 51.1 76.7





#23

tert-Butyl Alcohol

Concen: 1.398 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

Instrument :

MSVOA_X

ClientSampleId :

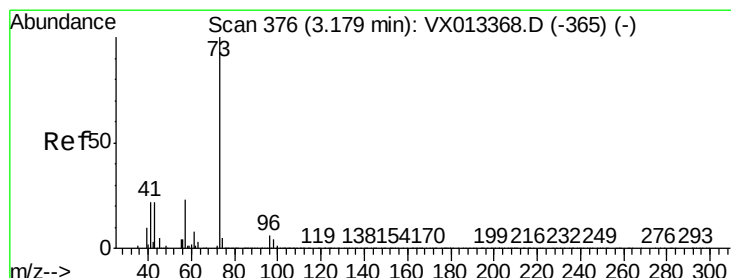
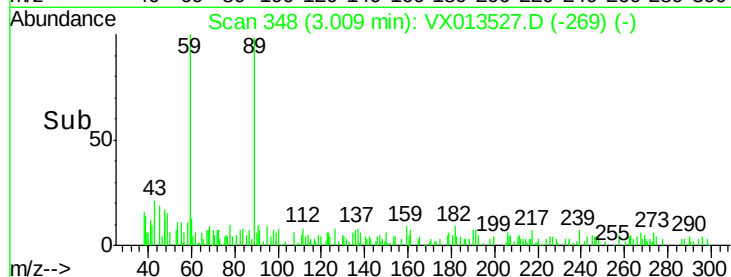
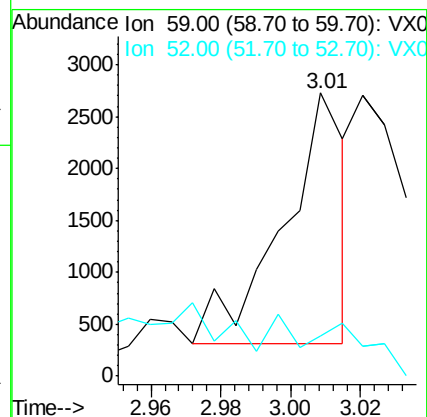
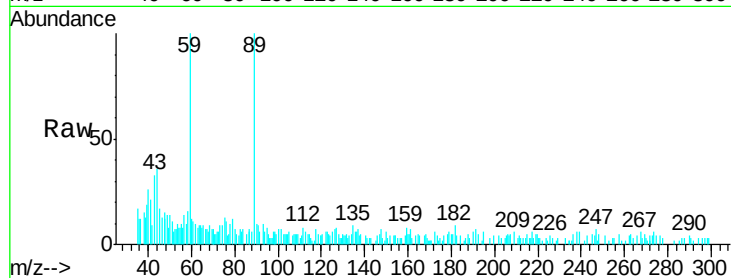
TE-MW-QA-2

Tgt Ion: 59 Resp: 2994

Ion Ratio Lower Upper

59 100

52 18.4 0.1 0.1#



#24

Methyl tert-Butyl Ether

Concen: 70.532 ug/l

RT: 3.18 min Scan# 376

Delta R.T. -0.00 min

Lab File: VX013527.D

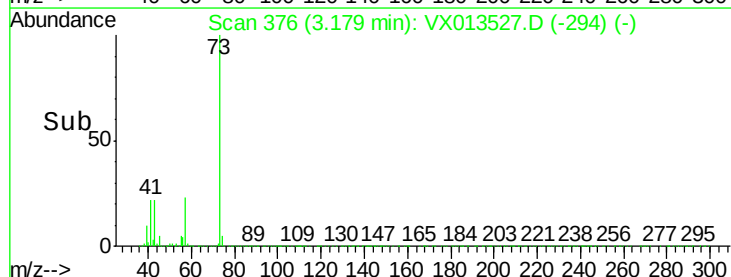
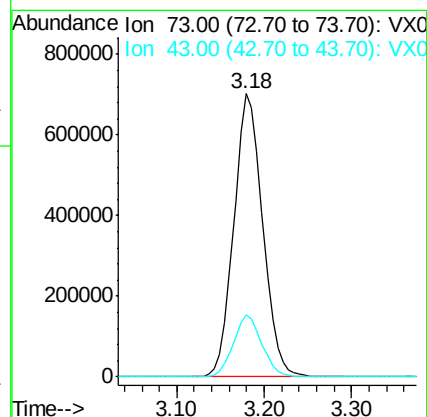
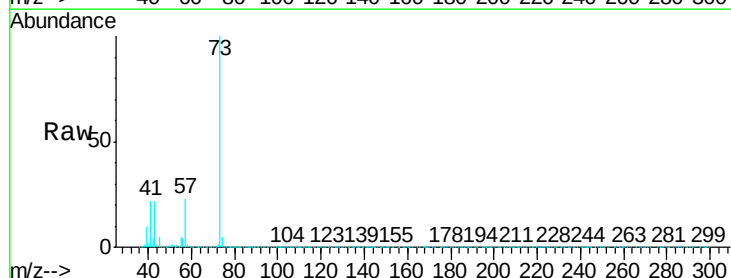
Acq: 22 Nov 2019 12:52

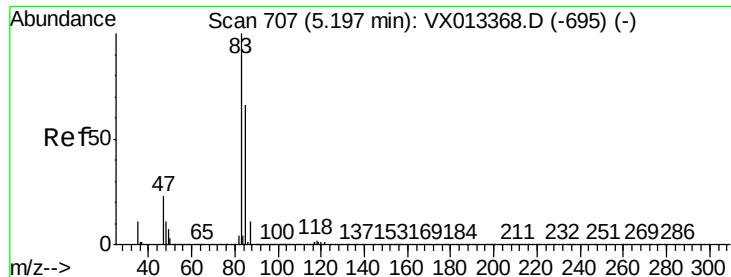
Tgt Ion: 73 Resp: 1612046

Ion Ratio Lower Upper

73 100

43 21.5 17.0 25.6





#25

Chloroform

Concen: 0.694 ug/l

RT: 5.20 min Scan# 707

Delta R.T. -0.00 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

Instrument :

MSVOA_X

ClientSampleId :

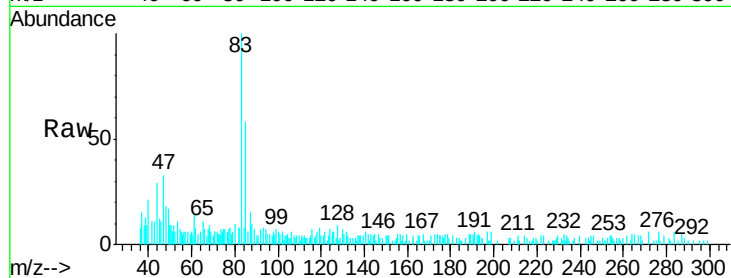
TE-MW-QA-2

Tgt Ion: 83 Resp: 9049

Ion Ratio Lower Upper

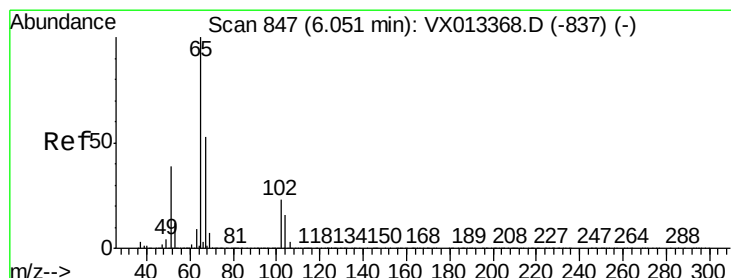
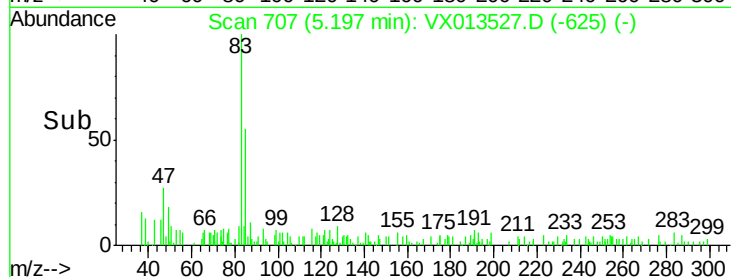
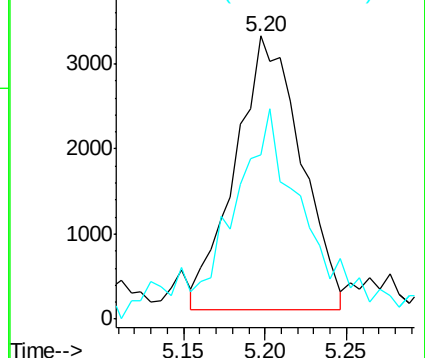
83 100

85 53.1 52.4 78.6



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 29.400 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013527.D

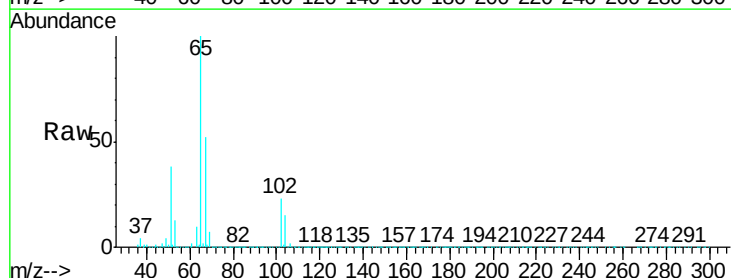
Acq: 22 Nov 2019 12:52

Tgt Ion: 65 Resp: 242745

Ion Ratio Lower Upper

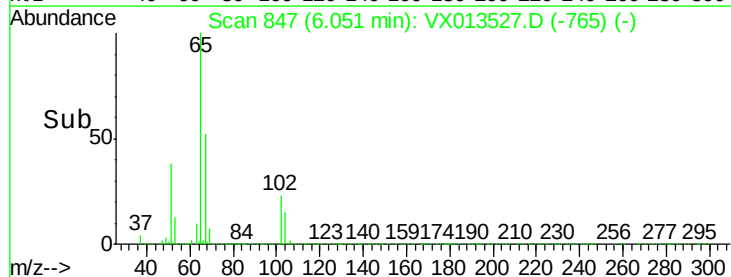
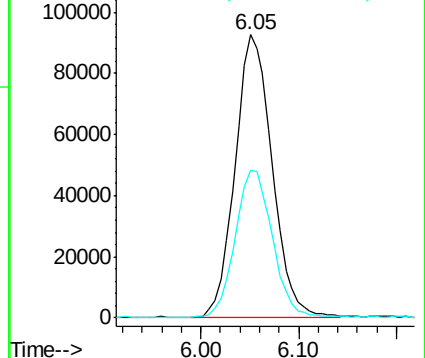
65 100

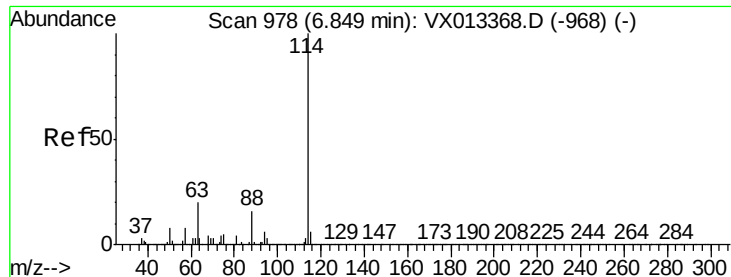
67 52.6 41.0 61.6



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

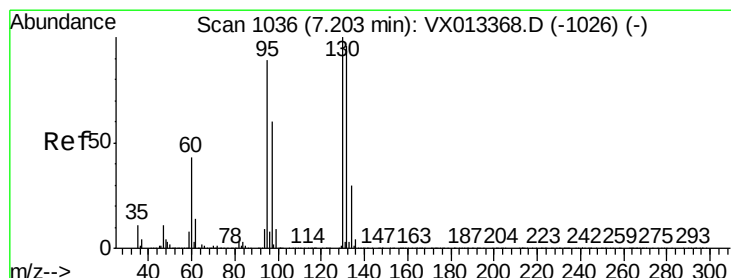
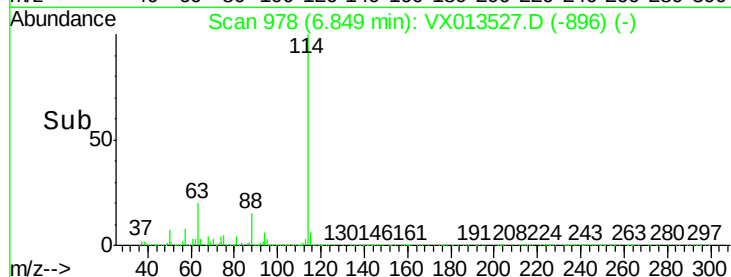
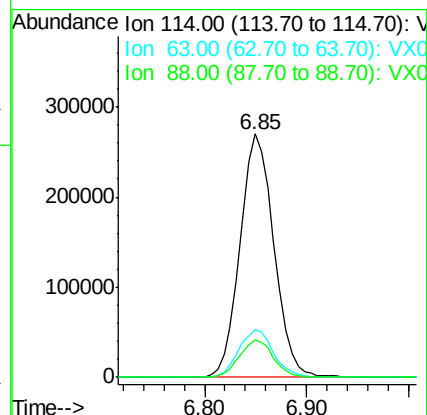
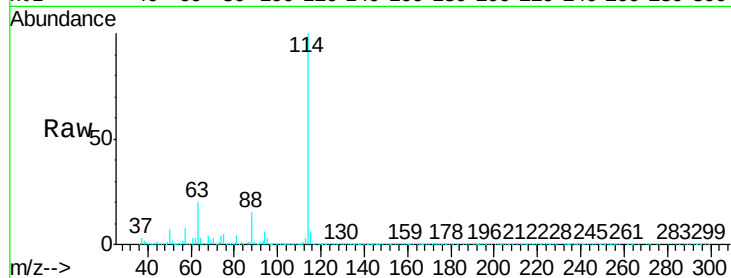




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX013527.D
Acq: 22 Nov 2019 12:52

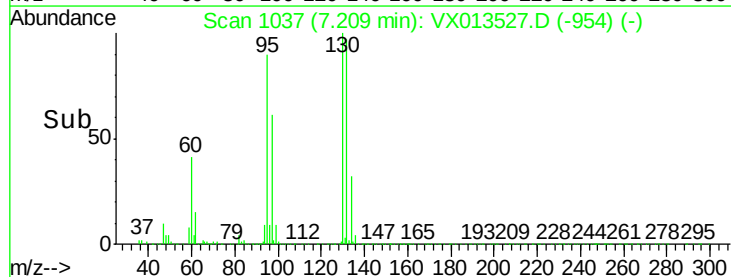
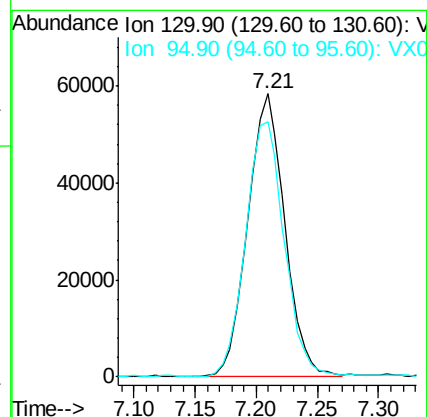
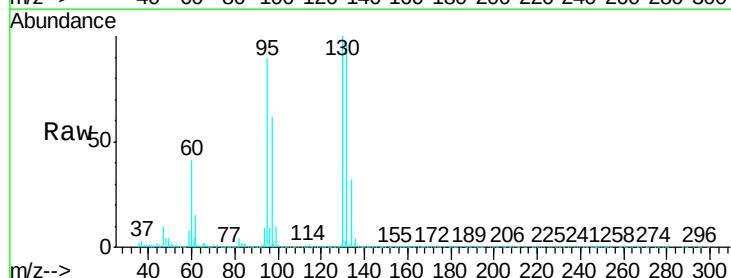
Instrument :
MSVOA_X
ClientSampleId :
TE-MW-QA-2

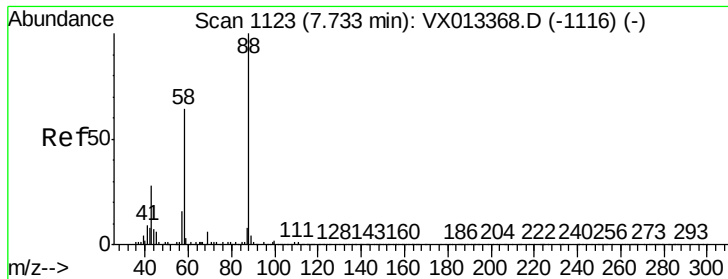
Tgt Ion:114 Resp: 621558
Ion Ratio Lower Upper
114 100
63 19.9 16.1 24.1
88 15.3 12.3 18.5



#37
Trichloroethene
Concen: 15.927 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VX013527.D
Acq: 22 Nov 2019 12:52

Tgt Ion:130 Resp: 122868
Ion Ratio Lower Upper
130 100
95 90.1 71.3 106.9





#45

1,4-Dioxane

Concen: 0.823 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

Instrument :

MSVOA_X

ClientSampled :

TE-MW-QA-2

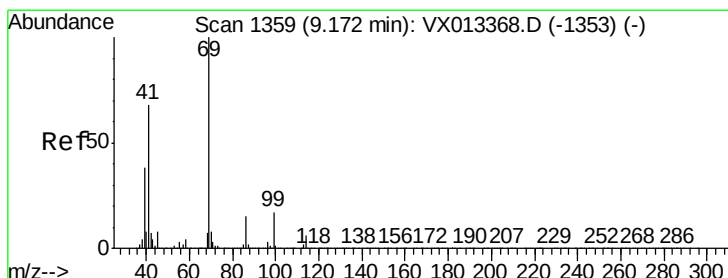
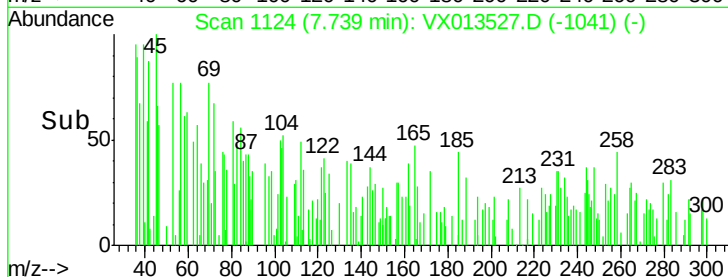
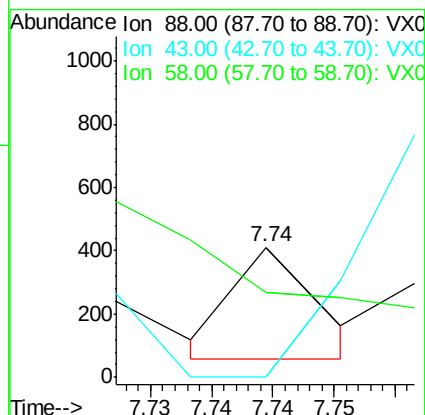
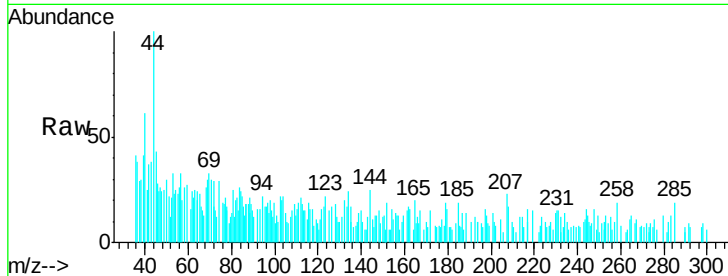
Tgt Ion: 88 Resp: 167

Ion Ratio Lower Upper

88 100

43 303.0 26.1 39.1#

58 435.9 55.8 83.8#



#51

Ethyl methacrylate

Concen: 0.231 ug/l

RT: 8.71 min Scan# 1284

Delta R.T. -0.46 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

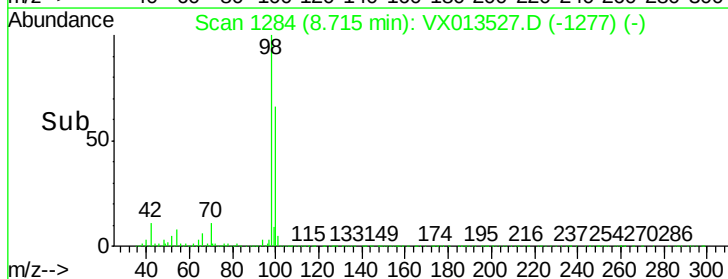
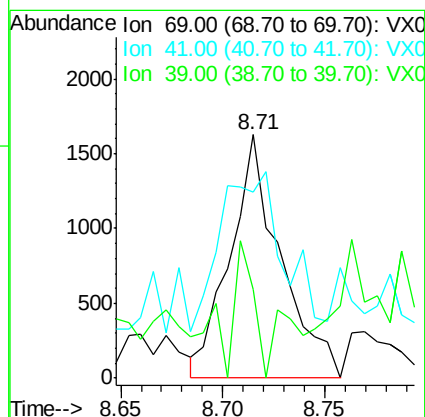
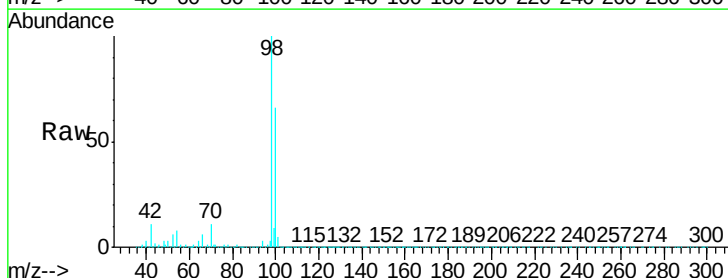
Tgt Ion: 69 Resp: 2785

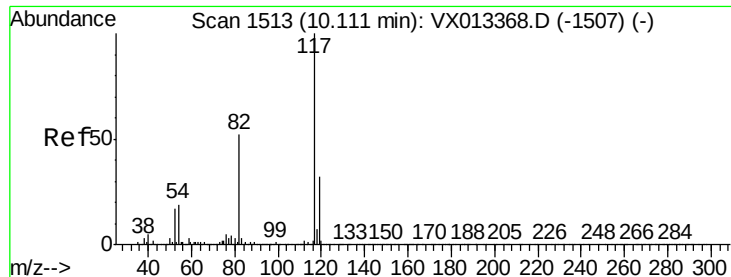
Ion Ratio Lower Upper

69 100

41 57.3 33.9 101.6

39 19.2 18.8 56.4

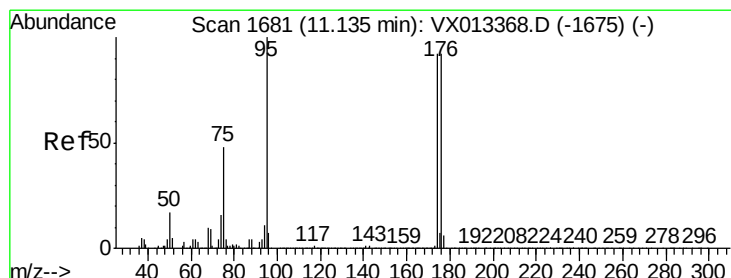
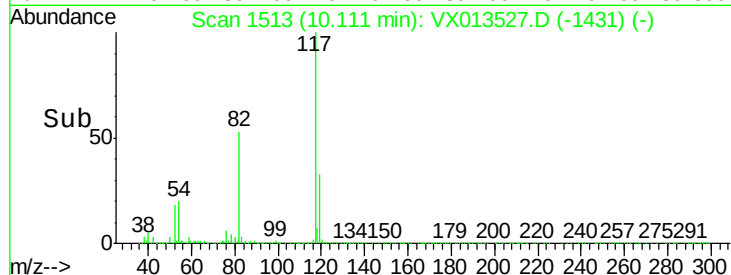
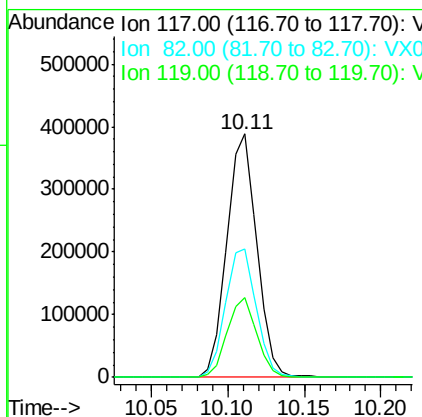
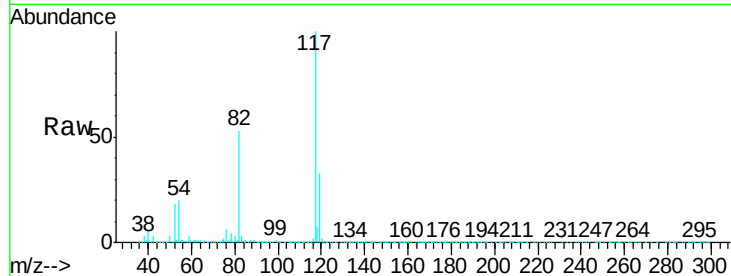




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013527.D
Acq: 22 Nov 2019 12:52

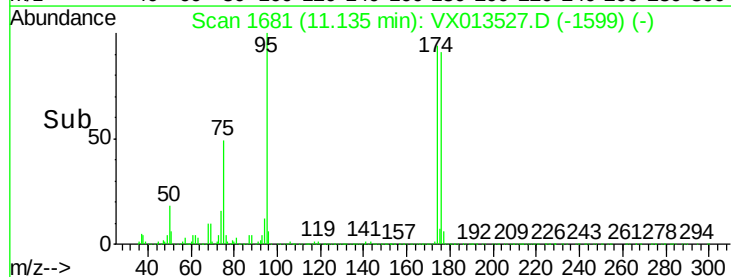
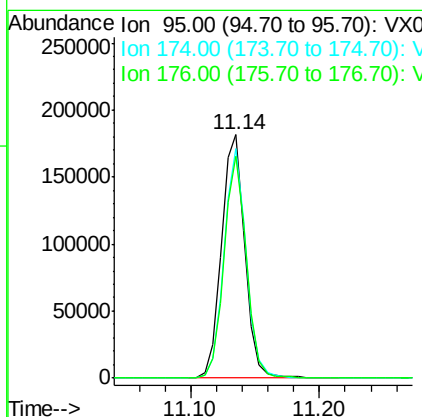
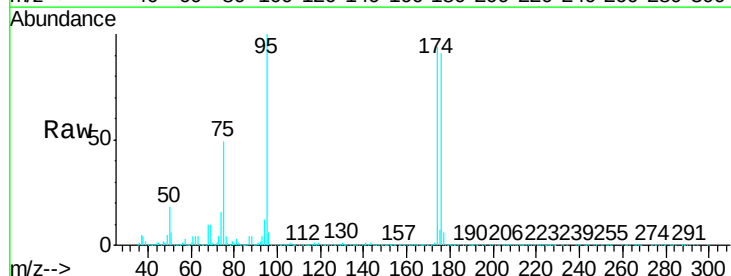
Instrument :
MSVOA_X
ClientSampled :
TE-MW-QA-2

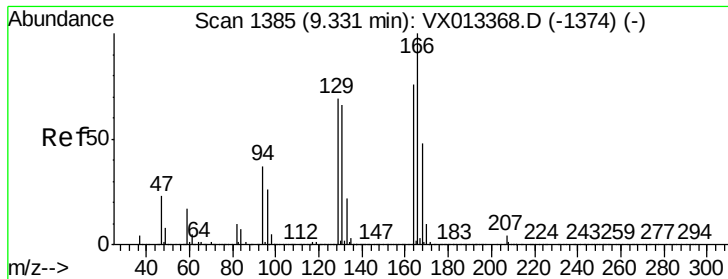
Tgt Ion: 117 Resp: 528133
Ion Ratio Lower Upper
117 100
82 53.9 43.7 65.5
119 32.3 25.5 38.3



#60
4-Bromofluorobenzene
Concen: 27.410 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013527.D
Acq: 22 Nov 2019 12:52

Tgt Ion: 95 Resp: 232668
Ion Ratio Lower Upper
95 100
174 89.0 70.2 105.2
176 87.0 68.3 102.5





#61

Tetrachloroethene

Concen: 40.385 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

Instrument :

MSVOA_X

ClientSampleId :

TE-MW-QA-2

Tgt Ion:164 Resp: 263009

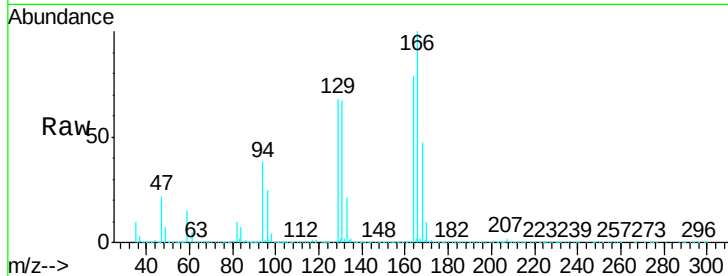
Ion Ratio Lower Upper

164 100

166 126.4 104.9 157.3

129 85.6 72.3 108.5

131 84.8 69.0 103.6

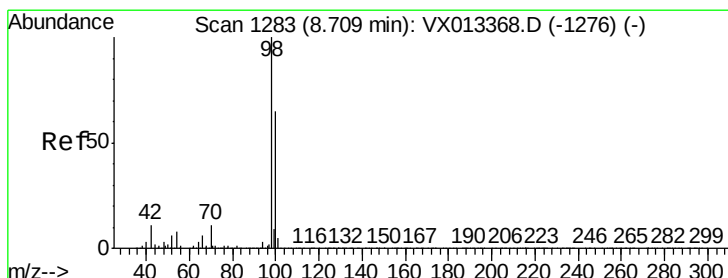
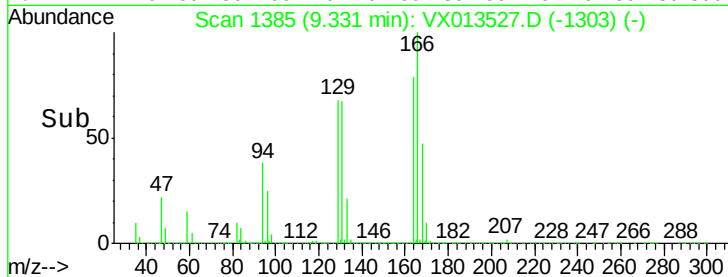
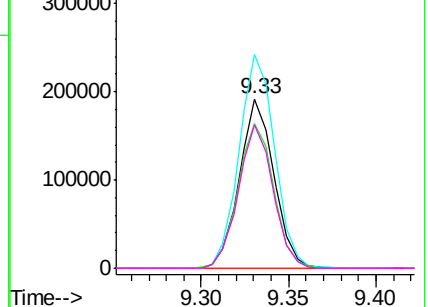


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#63

Toluene-d8

Concen: 30.657 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013527.D

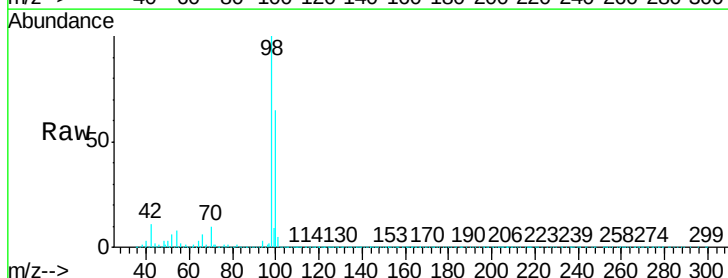
Acq: 22 Nov 2019 12:52

Tgt Ion: 98 Resp: 732164

Ion Ratio Lower Upper

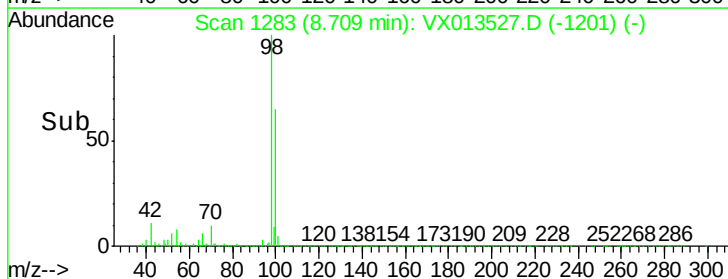
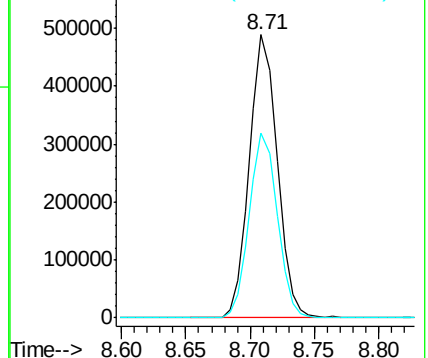
98 100

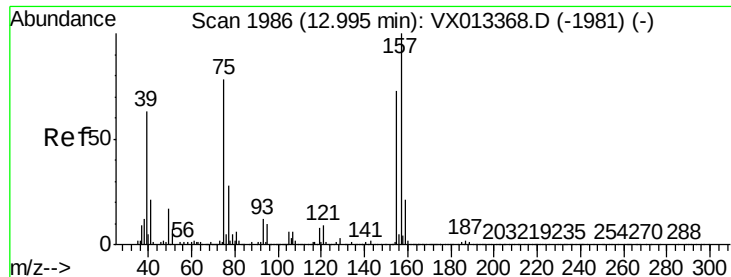
100 65.6 52.5 78.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.227 ug/l

RT: 12.99 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VX013527.D

Acq: 22 Nov 2019 12:52

Instrument :

MSVOA_X

ClientSampleId :

TE-MW-QA-2

Tgt Ion: 75 Resp: 575

Ion Ratio Lower Upper

75 100

155 23.5 76.9 115.3#

157 0.0 101.2 151.8#

