

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009659.D
 Acq On : 17 May 2019 13:32
 Operator : JC/SP
 Sample : K2861-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-001-IDW/GW-20190514

Quant Time: May 18 03:55:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	32981	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	189866	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	167563	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.06	65	82722	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	11.13	95	79535	27.93	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.10%
63) Toluene-d8	8.71	98	235135	29.60	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.67%

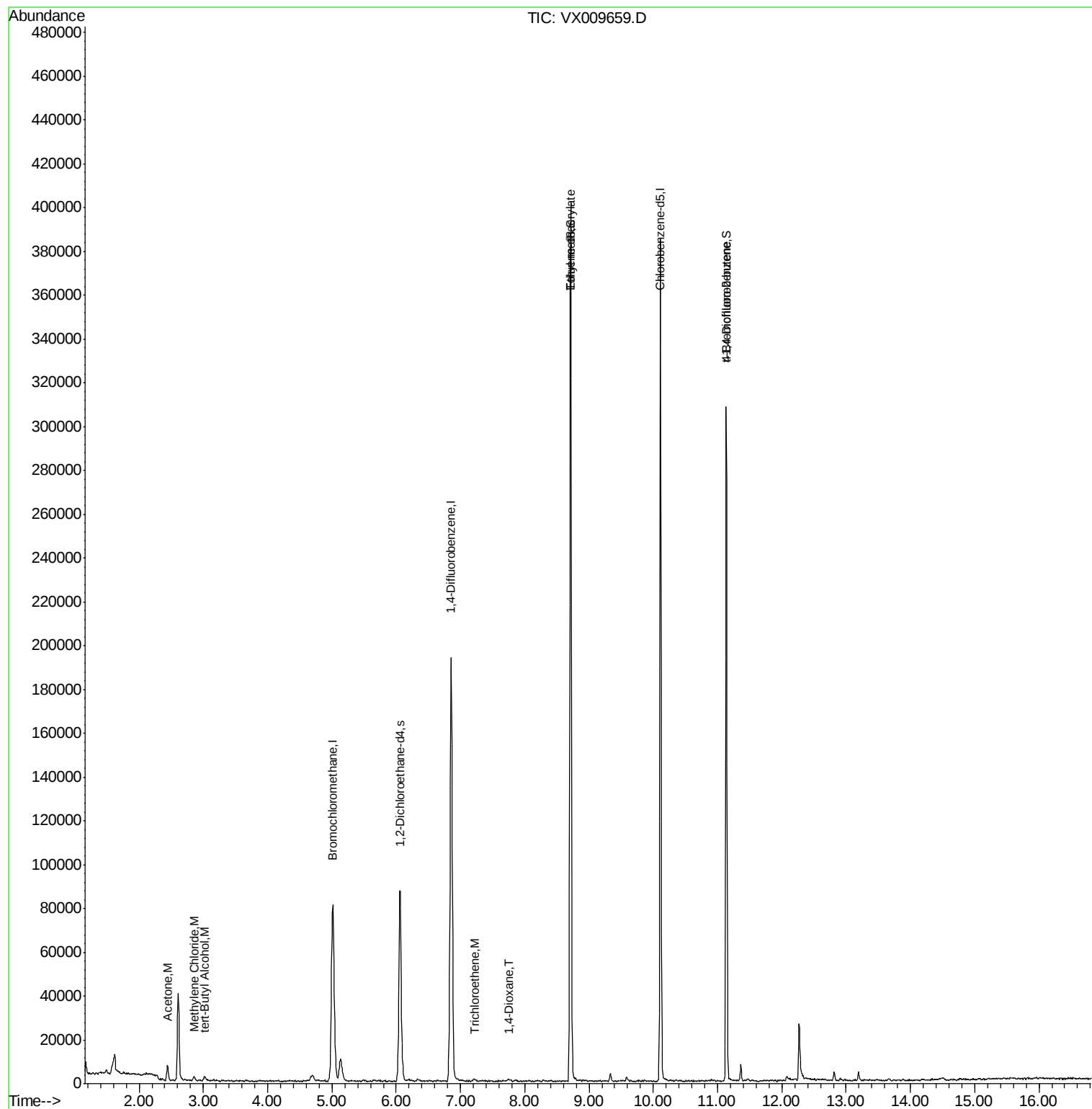
Target Compounds					Ovalue
15) Acetone	2.45	58	2123	5.014	ug/l 87
18) Methylene Chloride	2.85	84	779	0.357	ug/l # 56
23) tert-Butyl Alcohol	3.03	59	1118	1.793	ug/l # 97
37) Trichloroethene	7.21	130	419	0.203	ug/l # 44
45) 1,4-Dioxane	7.75	88	614	9.792	ug/l # 76
51) Ethyl methacrylate	8.72	69	873	0.222	ug/l 92
77) t-1,4-Dichloro-2-butene	11.13	75	40949	33.400	ug/l # 10

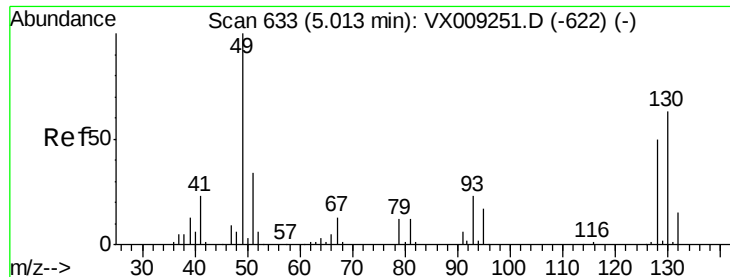
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 02 06:46:57 2019
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX009659.D

Acq: 17 May 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

TT-001-IDW/GW-20190514

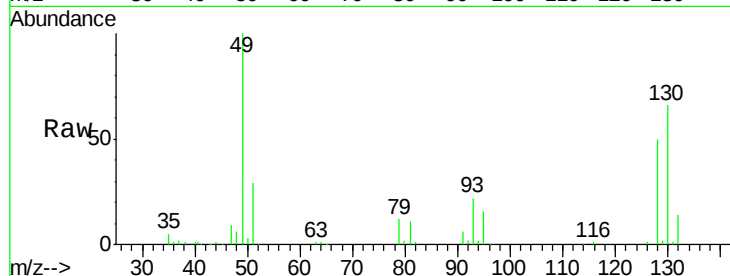
Tot Ion:128 Resp: 32981

Ion Ratio Lower Upper

128 100

49 200.5 0.0 515.0

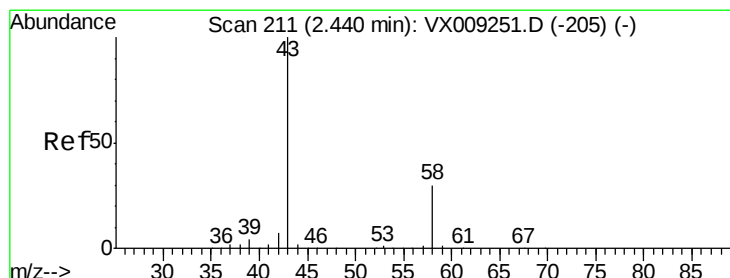
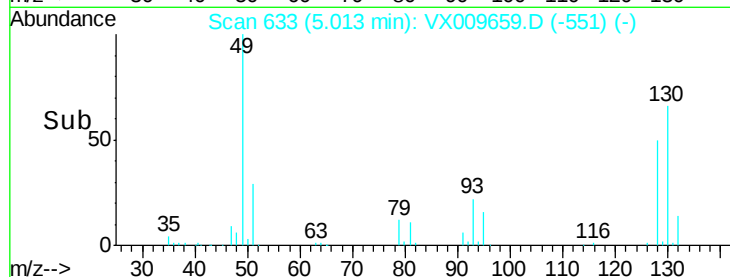
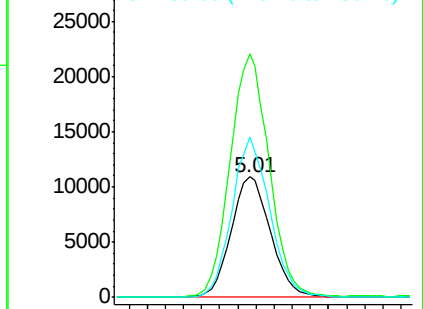
130 127.4 0.0 323.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 5.014 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX009659.D

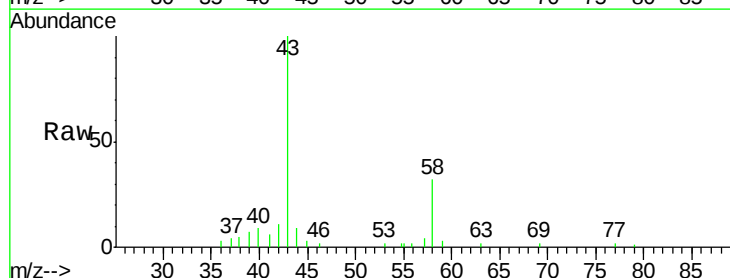
Acq: 17 May 2019 13:32

Tgt Ion: 58 Resp: 2123

Ion Ratio Lower Upper

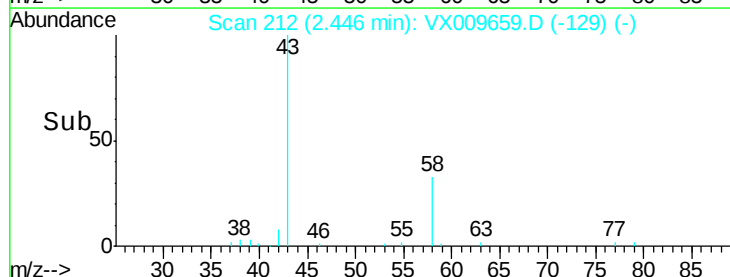
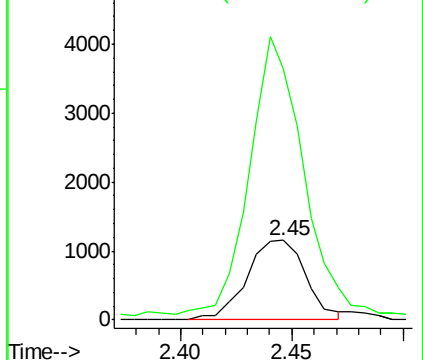
58 100

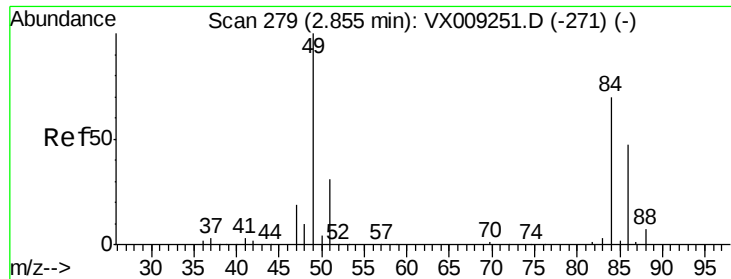
43 303.3 264.0 396.0



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

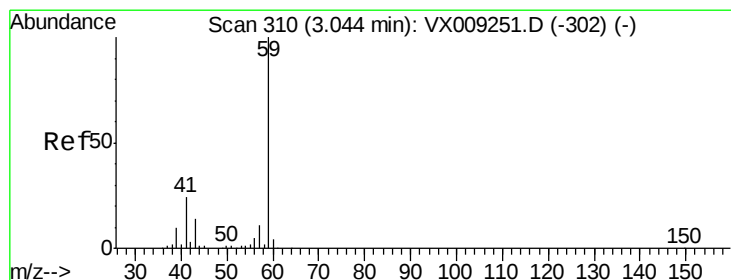
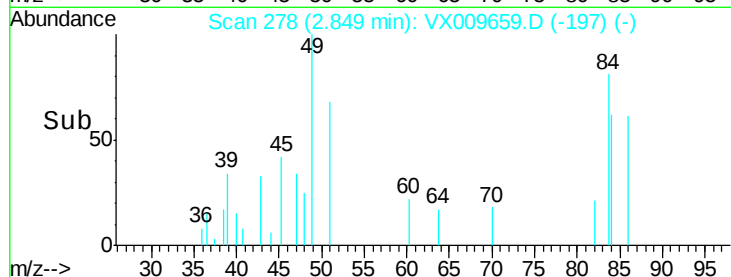
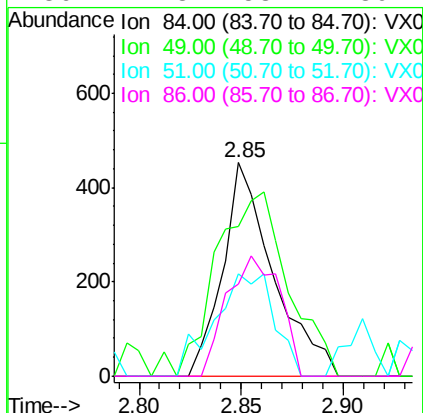
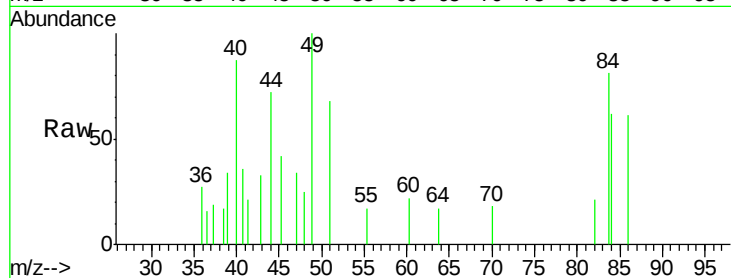




#18
Methvlene Chloride
Concen: 0.357 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX009659.D
Acq: 17 May 2019 13:32

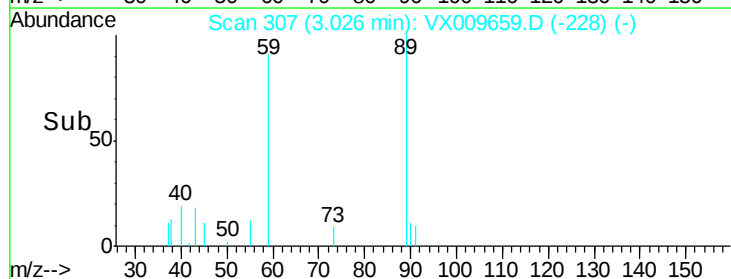
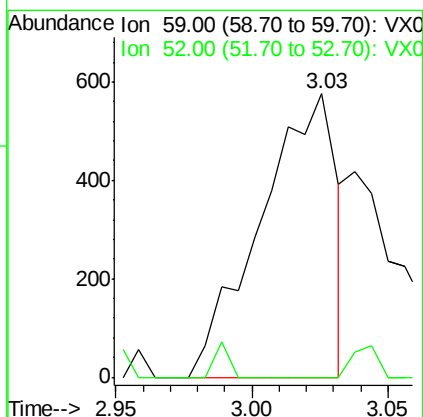
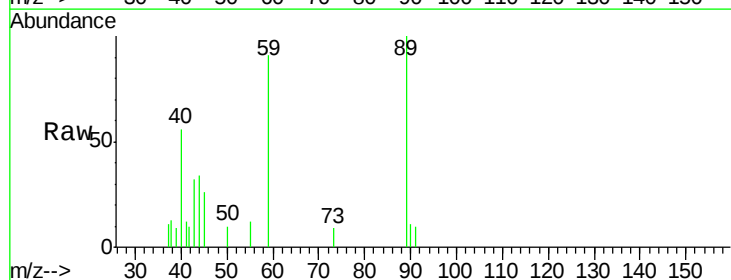
Instrument :
MSVOA_X
ClientSampleId :
TT-001-IDW/GW-20190514

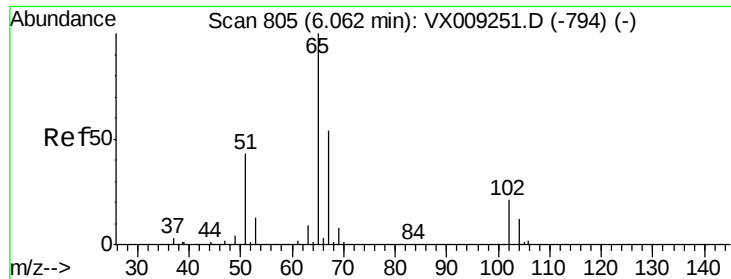
Tot Ion: 84 Resp: 779
Ion Ratio Lower Upper
84 100
49 70.0 114.6 171.8#
51 34.2 35.5 53.3#
86 42.8 53.4 80.2#



#23
tert-Butyl Alcohol
Concen: 1.793 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009659.D
Acq: 17 May 2019 13:32

Tgt Ion: 59 Resp: 1118
Ion Ratio Lower Upper
59 100
52 3.8 0.2 0.2#

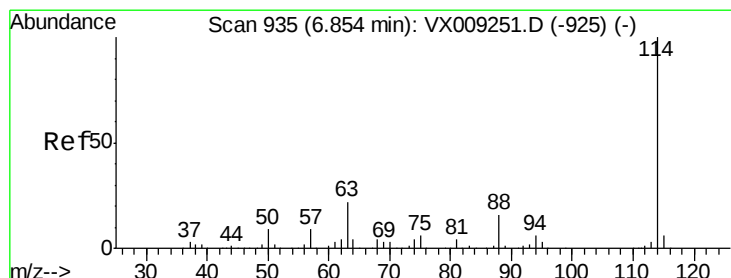
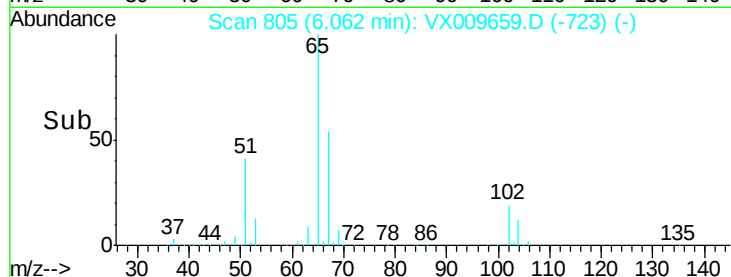
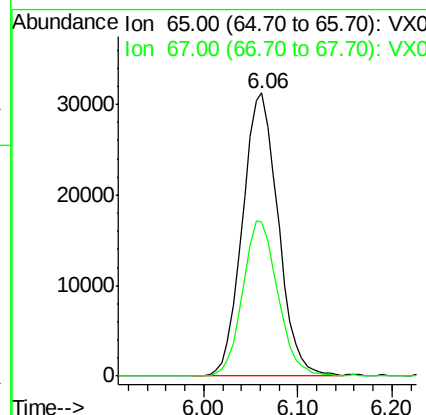
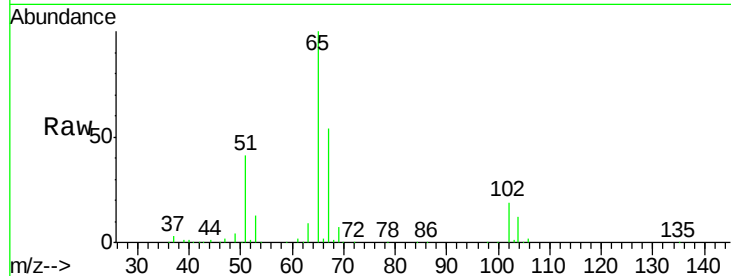




#27
 1,2-Dichloroethane-d4
 Concen: 30.236 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009659.D
 Acq: 17 May 2019 13:32

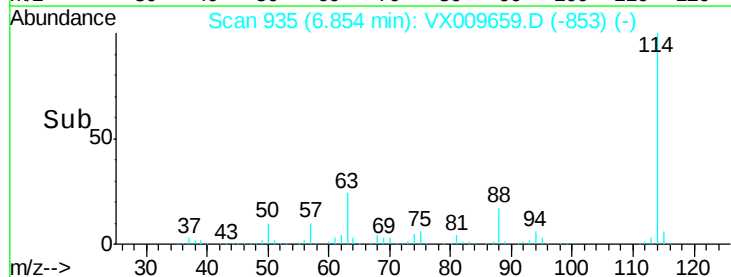
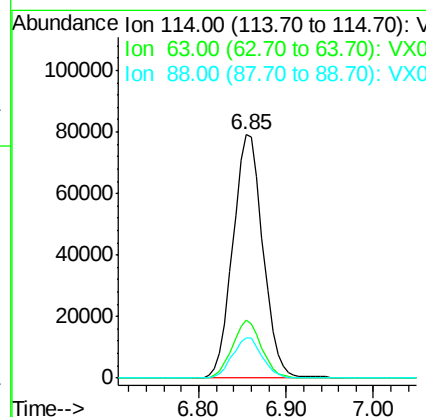
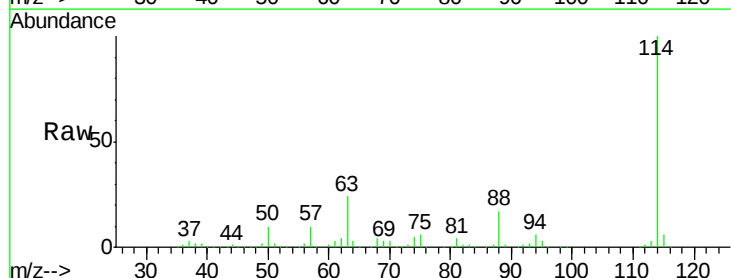
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-001-IDW/GW-20190514

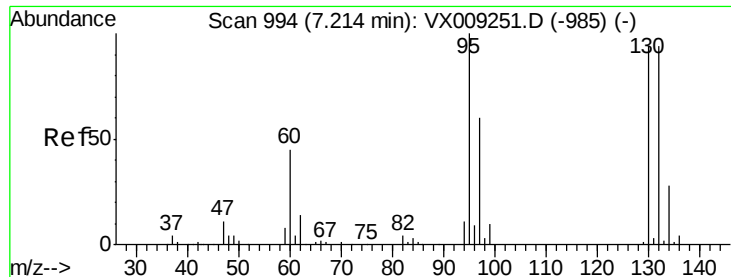
Tot Ion: 65 Resp: 82722
 Ion Ratio Lower Upper
 65 100
 67 53.8 43.1 64.7



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX009659.D
 Acq: 17 May 2019 13:32

Tgt Ion: 114 Resp: 189866
 Ion Ratio Lower Upper
 114 100
 63 23.0 18.0 27.0
 88 16.4 13.4 20.0

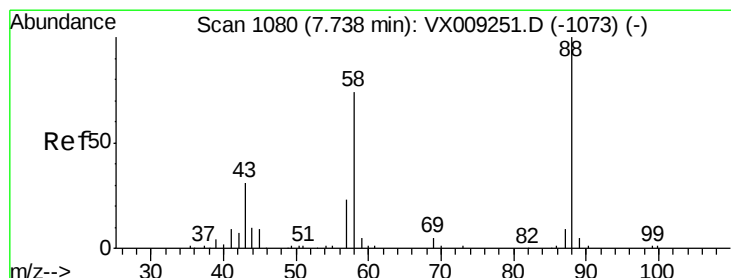
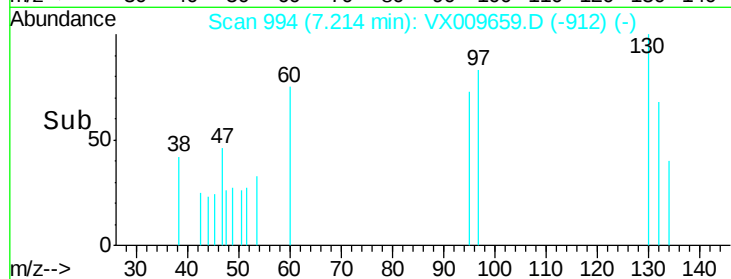
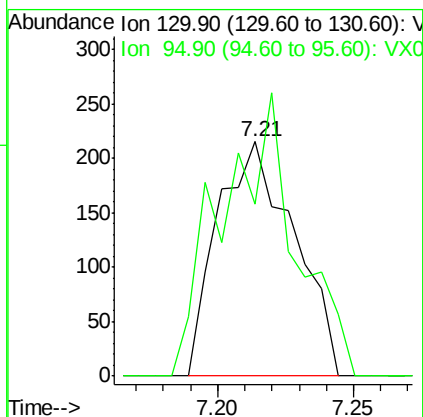
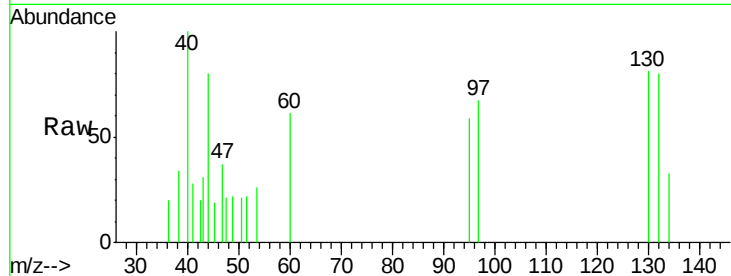




#37
 Trichloroethene
 Concen: 0.203 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX009659.D
 Acq: 17 May 2019 13:32

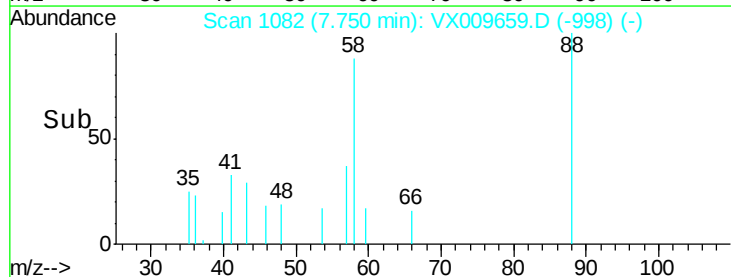
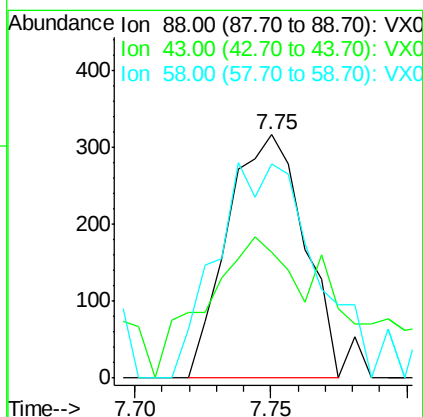
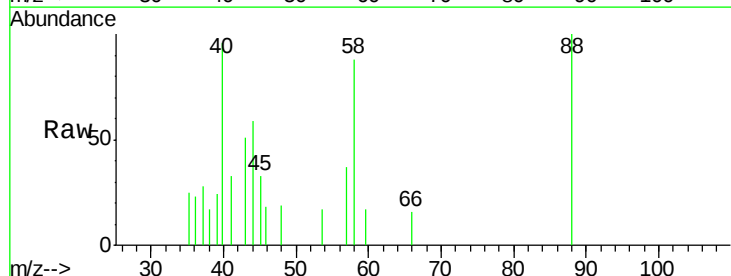
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-001-IDW/GW-20190514

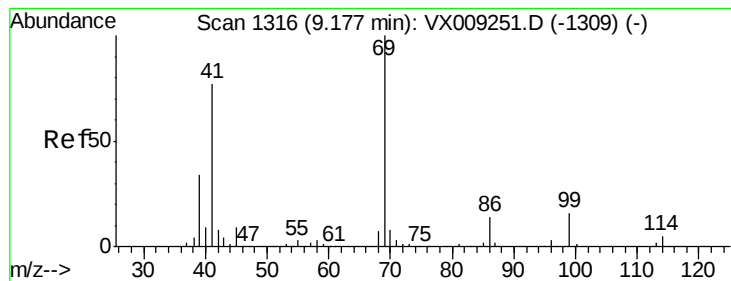
Tot Ion:130 Resp: 419
 Ion Ratio Lower Upper
 130 100
 95 48.4 85.0 127.4#



#45
 1,4-Dioxane
 Concen: 9.792 ug/l
 RT: 7.75 min Scan# 1082
 Delta R.T. 0.01 min
 Lab File: VX009659.D
 Acq: 17 May 2019 13:32

Tgt Ion: 88 Resp: 614
 Ion Ratio Lower Upper
 88 100
 43 47.4 28.5 42.7#
 58 55.5 62.5 93.7#





#51

Ethyl methacrylate

Concen: 0.222 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.46 min

Lab File: VX009659.D

Acq: 17 May 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

TT-001-IDWGW-20190514

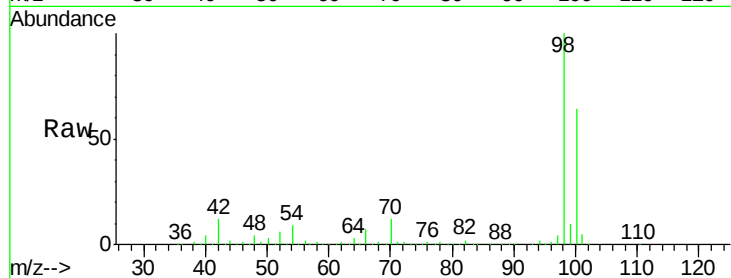
Tot Ion: 69 Resp: 873

Ion Ratio Lower Upper

69 100

41 77.1 38.4 115.2

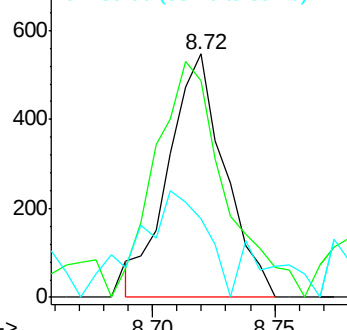
39 19.9 17.2 51.5



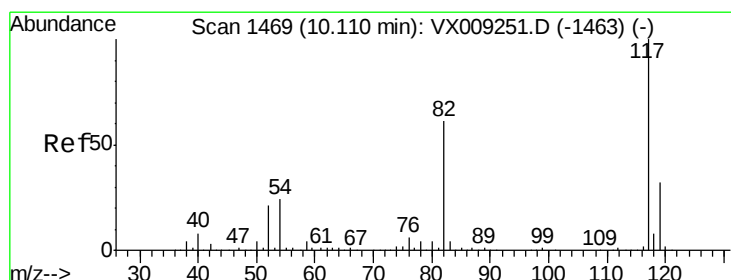
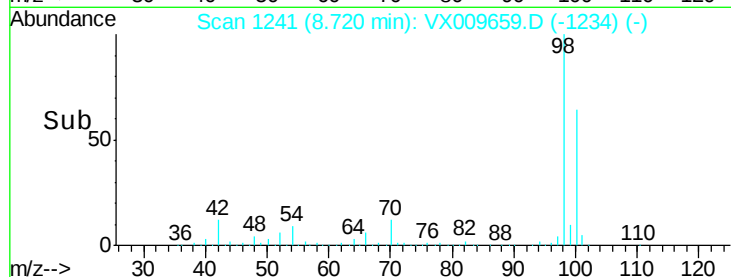
Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009659.D

Acq: 17 May 2019 13:32

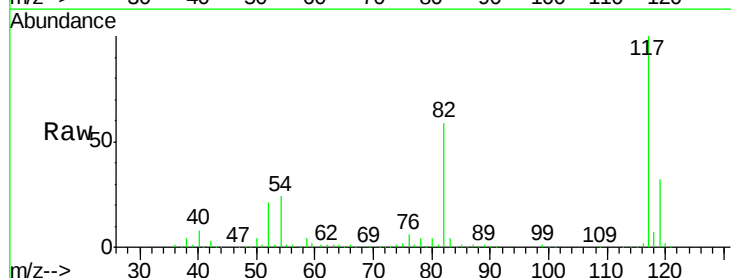
Tgt Ion: 117 Resp: 167563

Ion Ratio Lower Upper

117 100

82 58.7 47.8 71.8

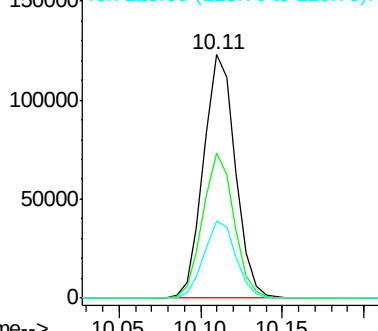
119 31.6 25.6 38.4



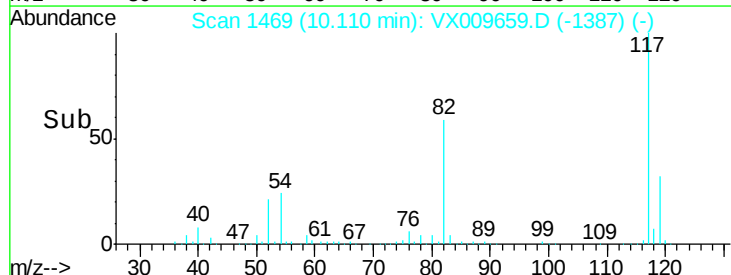
Abundance Ion 117.00 (116.70 to 117.70): V

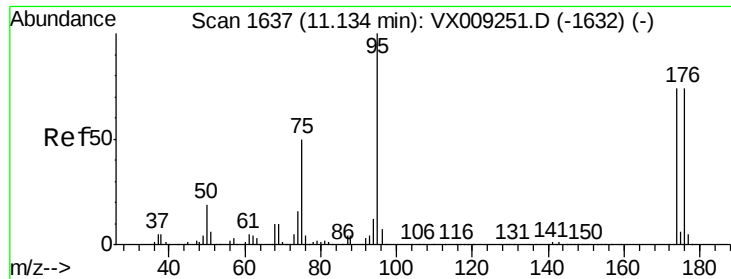
Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V



Time-->

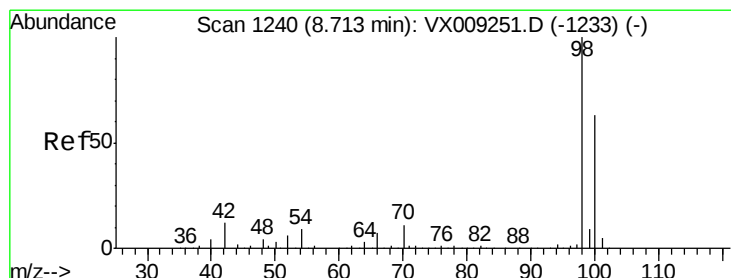
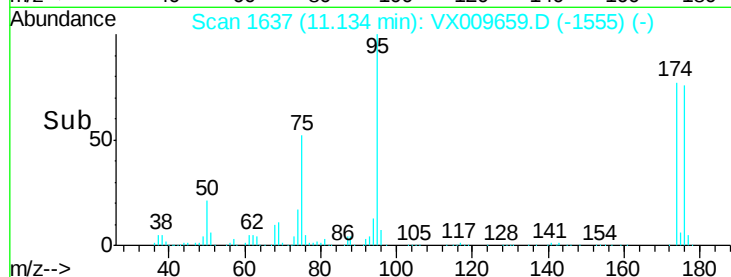
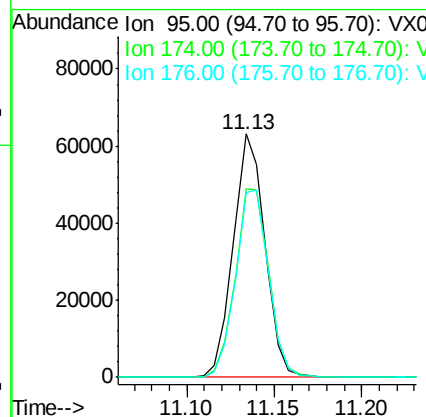
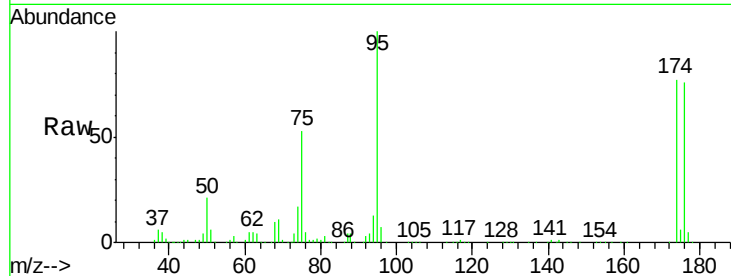




#60
4-Bromofluorobenzene
Concen: 27.933 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX009659.D
Acq: 17 May 2019 13:32

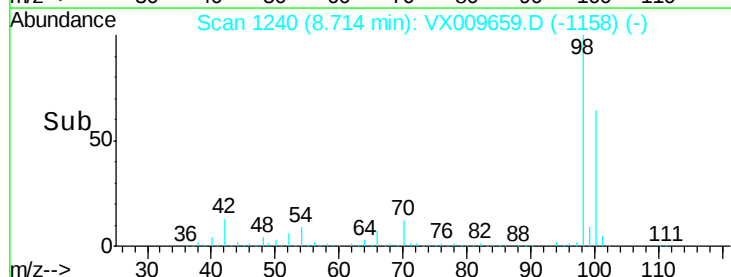
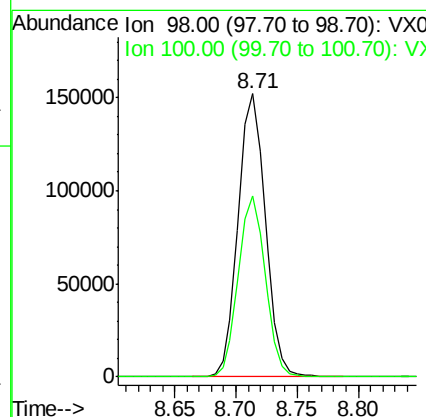
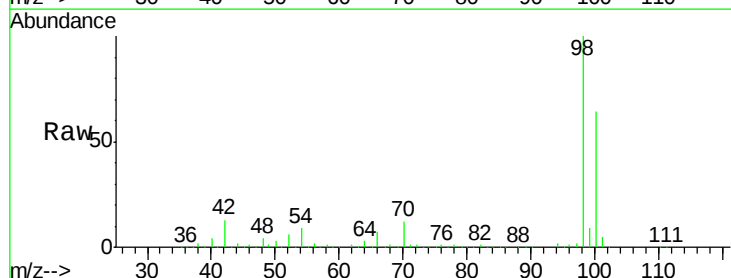
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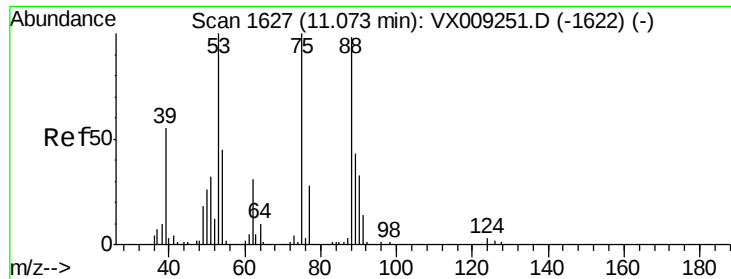
Tot Ion: 95 Resp: 79535
Ion Ratio Lower Upper
95 100
174 81.2 63.6 95.4
176 80.2 62.4 93.6



#63
Toluene-d8
Concen: 29.598 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009659.D
Acq: 17 May 2019 13:32

Tgt Ion: 98 Resp: 235135
Ion Ratio Lower Upper
98 100
100 63.3 52.3 78.5





#77

t-1,4-Dichloro-2-butene

Concen: 33.400 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009659.D

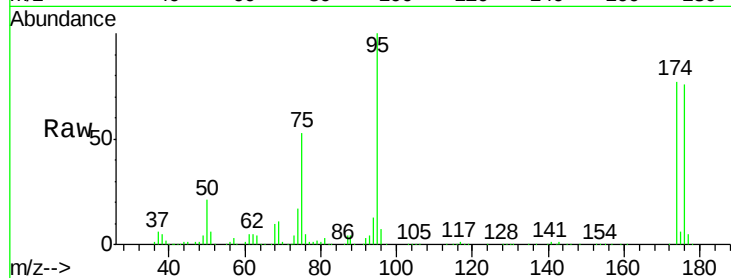
Acq: 17 May 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

TT-001-IDW/GW-20190514



Tot Ion: 75 Resp: 40949

Ion	Ratio	Lower	Upper
75	100		
53	0.0	50.0	149.8#
89	0.2	21.6	65.0#

