

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\
 Data File : VX009759.D
 Acq On : 21 May 2019 19:41
 Operator : JC/SP
 Sample : K2973-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0152

Quant Time: May 22 07:08:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	173798	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	277579	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	247759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	106526	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	117958	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
35) Dibromofluoromethane	5.50	113	85535	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
50) Toluene-d8	8.71	98	351930	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
62) 4-Bromofluorobenzene	11.13	95	118627	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	

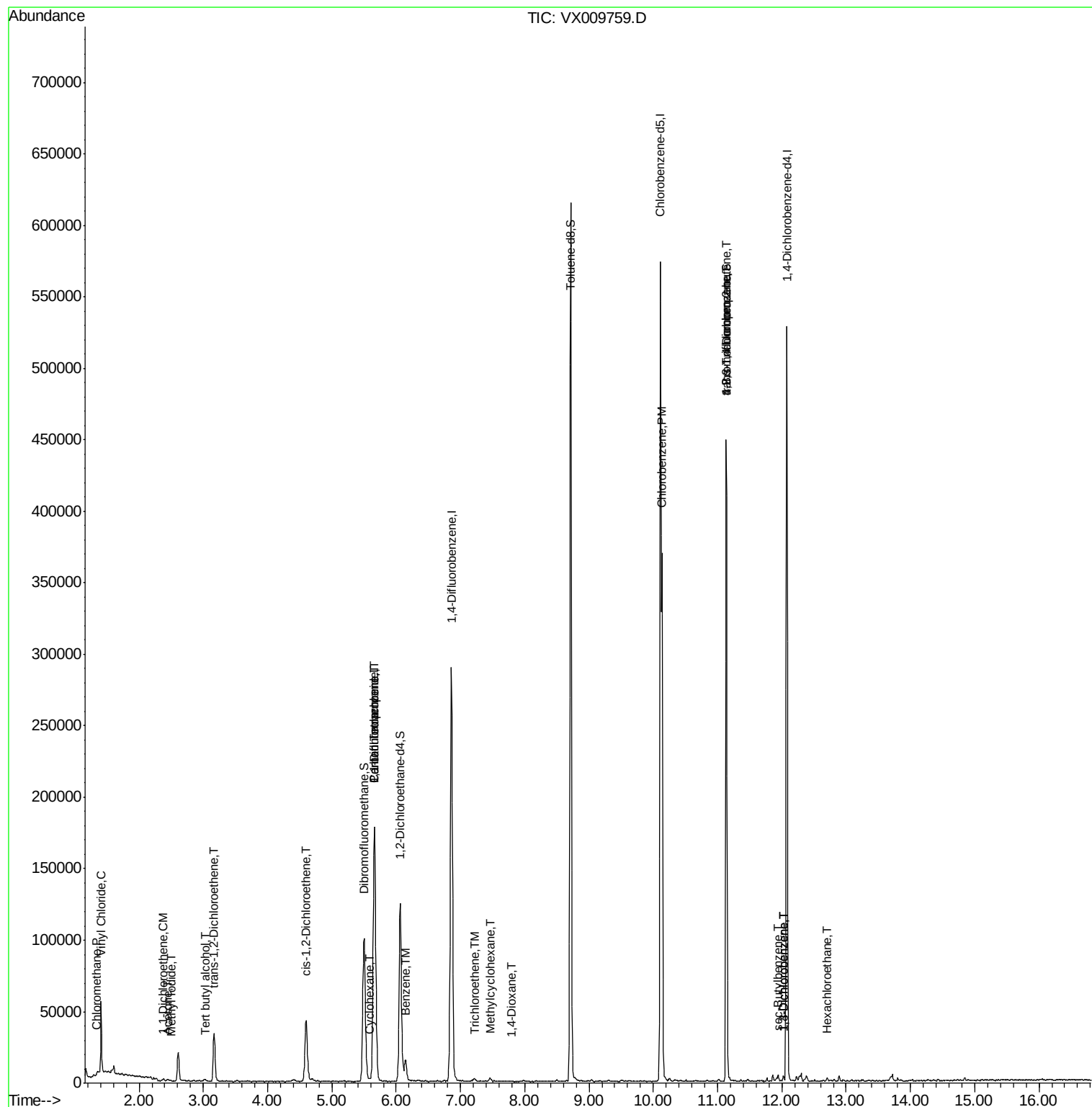
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	638	0.292	ug/l #	69
4) Vinyl Chloride	1.41	62	33582	15.750	ug/l	96
10) Methyl Iodide	2.50	142	39	4.613	ug/l #	42
11) Tert butyl alcohol	3.03	59	1319	2.402	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	479	0.294	ug/l	83
16) Acetone	2.45	43	1828	1.435	ug/l	100
21) trans-1,2-Dichloroethene	3.17	96	12839	7.260	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	27042	12.810	ug/l	88
28) Bromochloromethane	5.02	49	40	Below Cal	#	20
31) Cyclohexane	5.59	56	884	0.252	ug/l #	62
36) 1,1-Dichloropropene	5.66	75	13835	5.363	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16397	6.996	ug/l #	17
39) Methylcyclohexane	7.46	83	758	0.239	ug/l #	69
40) Benzene	6.15	78	16649	2.085	ug/l	92
44) Trichloroethene	7.22	130	697	0.361	ug/l	93
49) 1,4-Dioxane	7.80	88	19	0.328	ug/l #	1
65) Chlorobenzene	10.13	112	142486	28.748	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	61401	24.848	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61401	63.578	ug/l #	10
85) sec-Butylbenzene	11.94	105	1933	0.257	ug/l #	76
87) 1,3-Dichlorobenzene	12.02	146	1039	0.303	ug/l	91
88) 1,4-Dichlorobenzene	12.02	146	1039	0.301	ug/l	91
90) Hexachloroethane	12.70	117	430	0.373	ug/l #	7

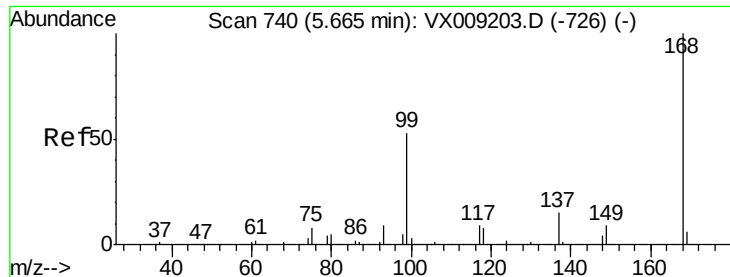
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
S36-0152

Quant Time: May 22 07:08:03 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration

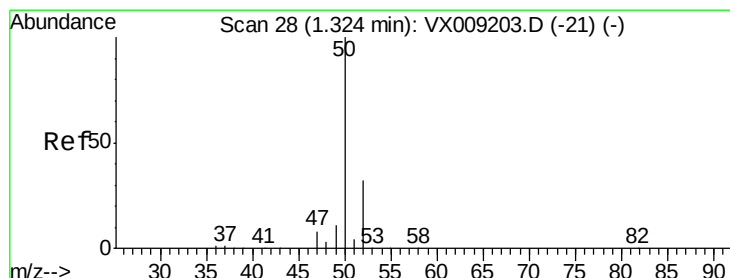
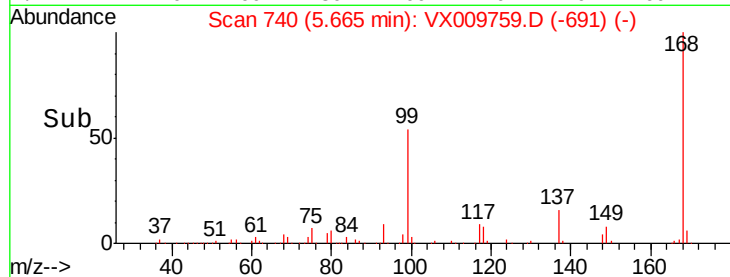
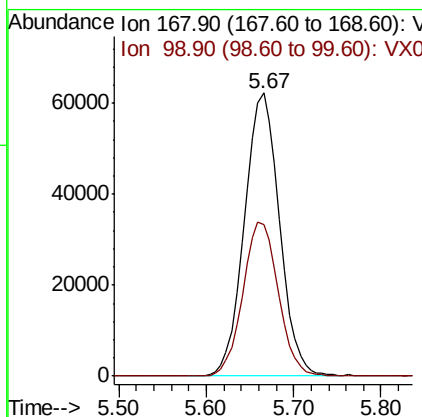
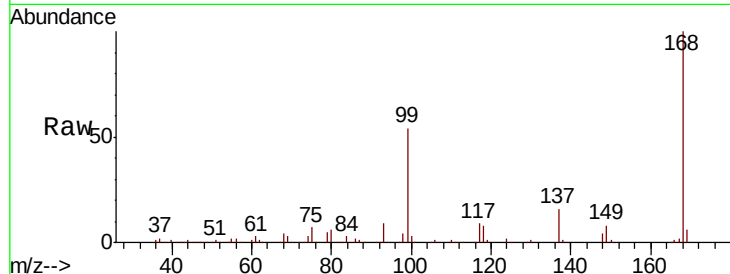




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.00 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

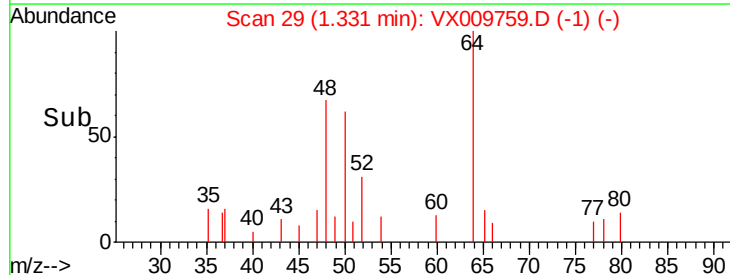
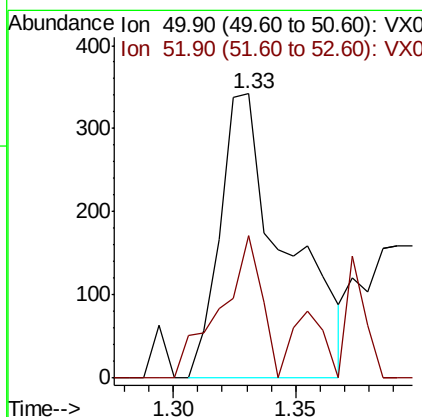
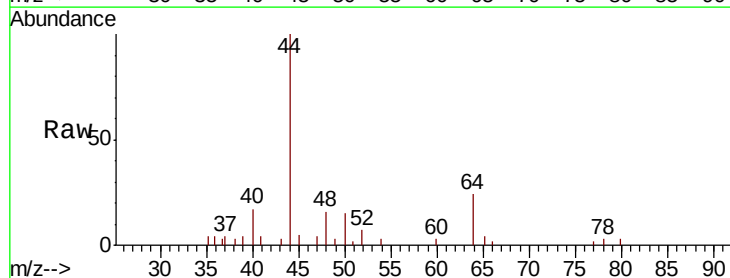
Instrument :
MSVOA_X
ClientSampleId :
S36-0152

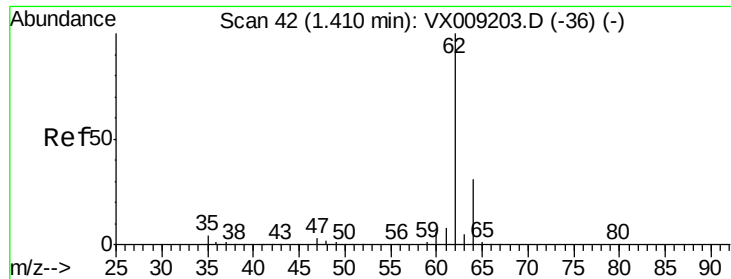
Tot Ion:168 Resp: 173798
Ion Ratio Lower Upper
168 100
99 53.7 42.3 63.5



#3
Chloromethane
Concen: 0.292 ug/l
RT: 1.33 min Scan# 29
Delta R.T. 0.01 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

Tgt Ion: 50 Resp: 638
Ion Ratio Lower Upper
50 100
52 50.0 25.9 38.9#





#4

Vinyl Chloride

Concen: 15.750 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009759.D

Acq: 21 May 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

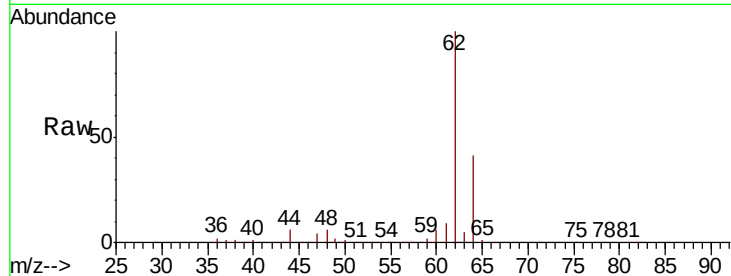
S36-0152

Tot Ion: 62 Resp: 33582

Ion Ratio Lower Upper

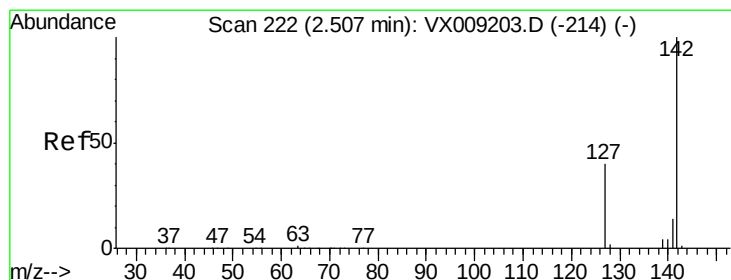
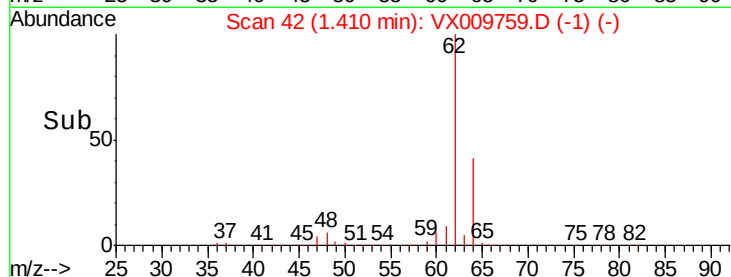
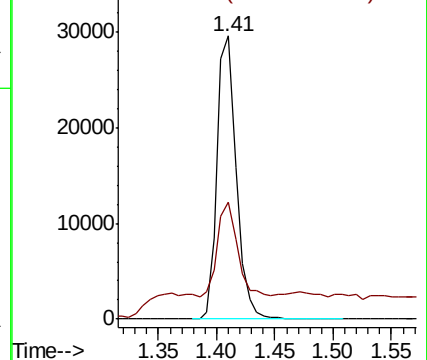
62 100

64 32.8 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#10

Methyl Iodide

Concen: 4.613 ug/l

RT: 2.50 min Scan# 221

Delta R.T. -0.01 min

Lab File: VX009759.D

Acq: 21 May 2019 19:41

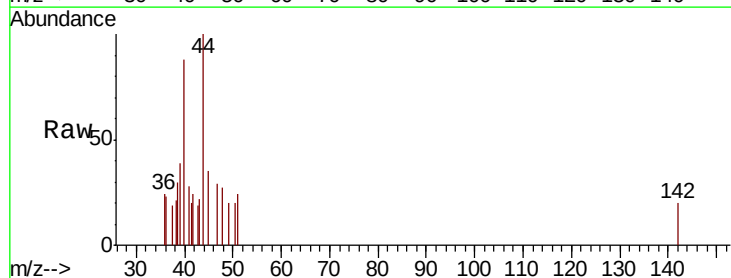
Tgt Ion: 142 Resp: 39

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

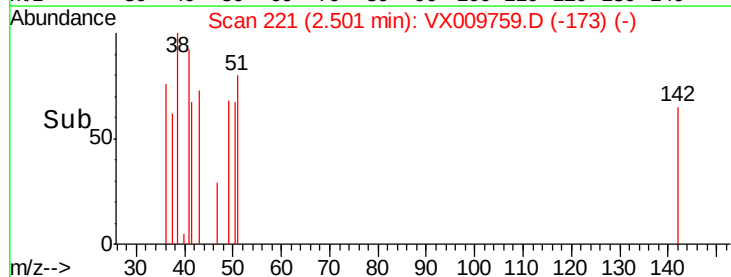
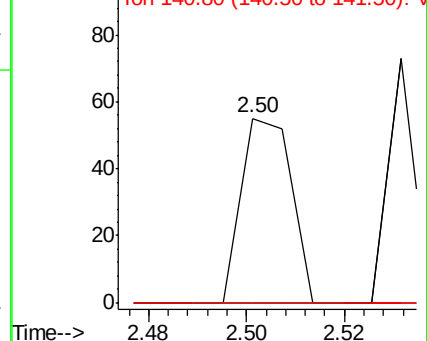
141 0.0 11.5 17.3#

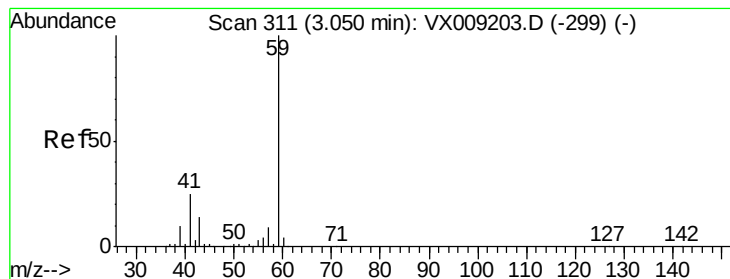


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



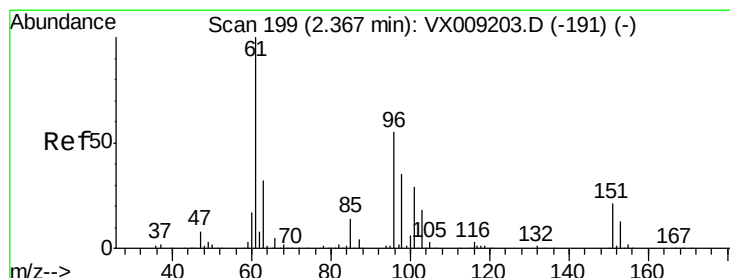
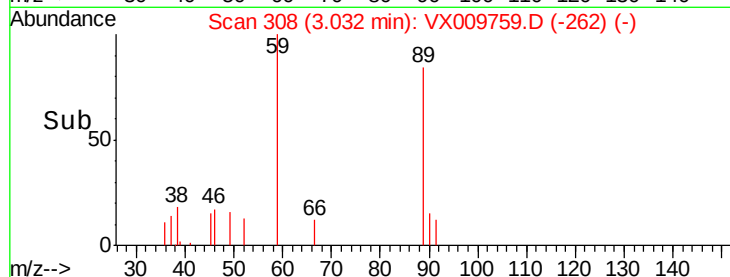
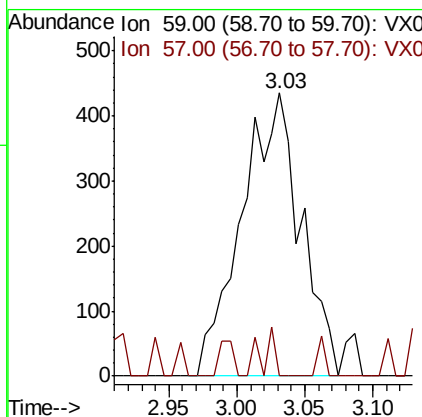
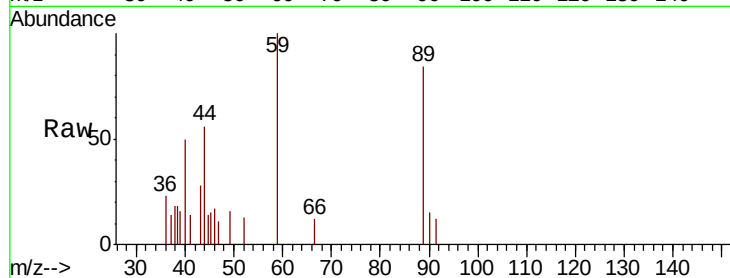


#11

Tert butyl alcohol
 Concen: 2.402 ug/l
 RT: 3.03 min Scan# 308
 Delta R.T. -0.02 min
 Lab File: VX009759.D
 Acq: 21 May 2019 19:41

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0152

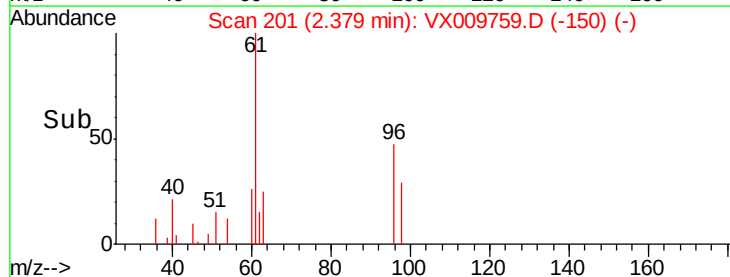
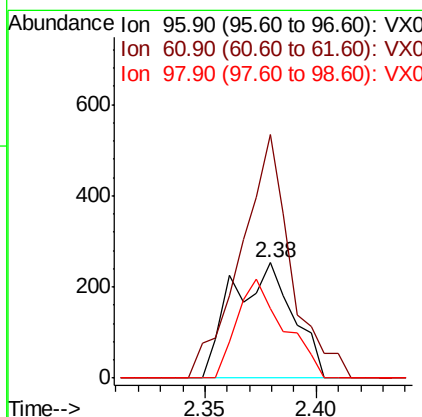
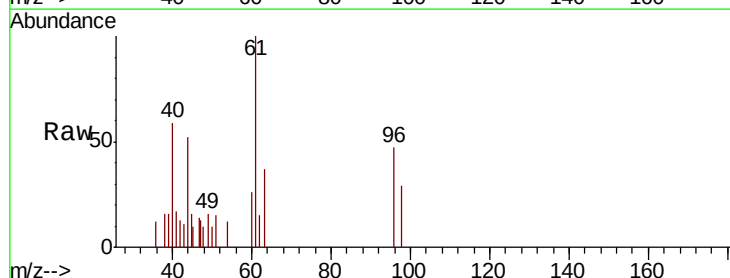
Tot Ion: 59 Resp: 1319
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

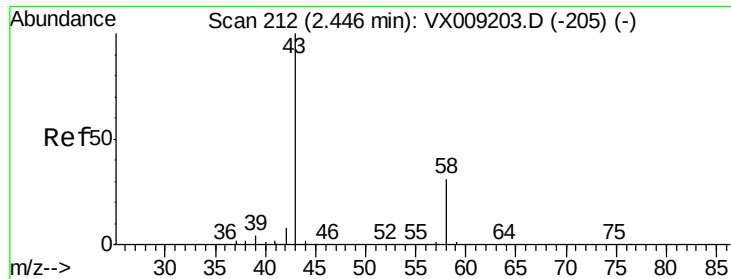


#12

1,1-Dichloroethene
 Concen: 0.294 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.01 min
 Lab File: VX009759.D
 Acq: 21 May 2019 19:41

Tgt Ion: 96 Resp: 479
 Ion Ratio Lower Upper
 96 100
 61 211.1 144.3 216.5
 98 60.9 50.3 75.5





#16

Acetone

Concen: 1.435 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009759.D

Acq: 21 May 2019 19:41

Instrument :

MSVOA_X

ClientSampled :

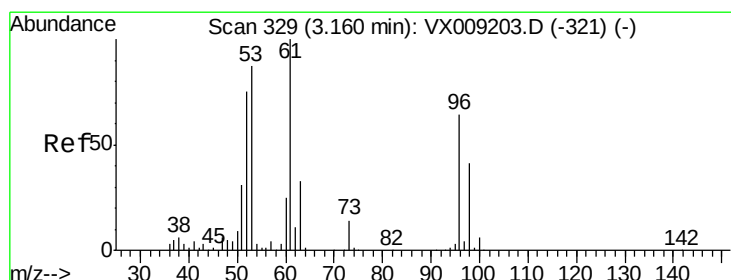
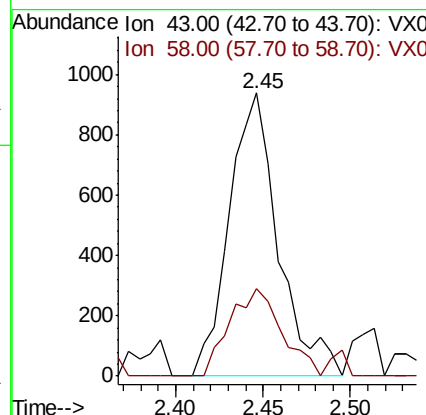
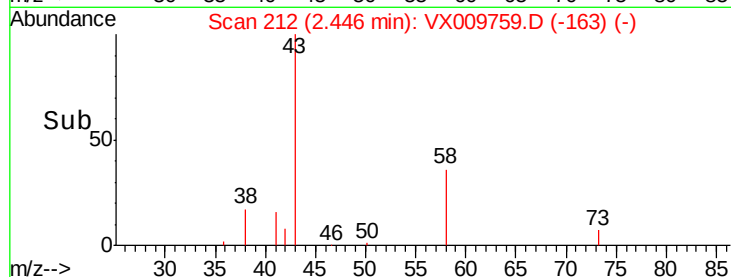
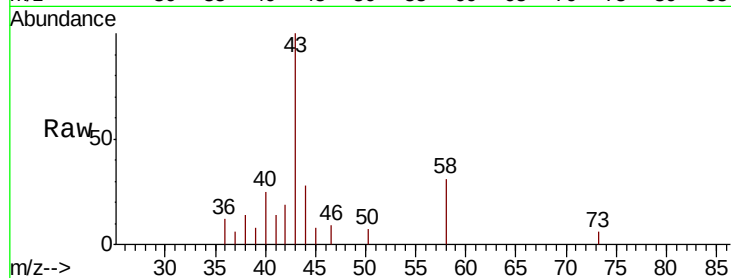
S36-0152

Tot Ion: 43 Resp: 1828

Ion Ratio Lower Upper

43 100

58 31.0 24.9 37.3



#21

trans-1,2-Dichloroethene

Concen: 7.260 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009759.D

Acq: 21 May 2019 19:41

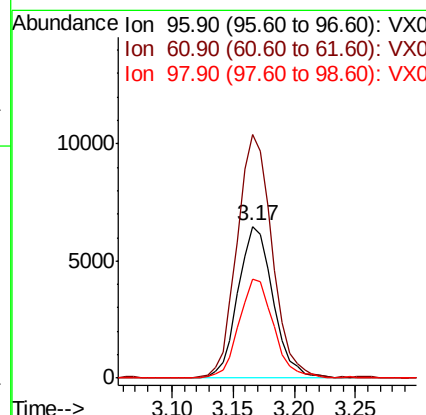
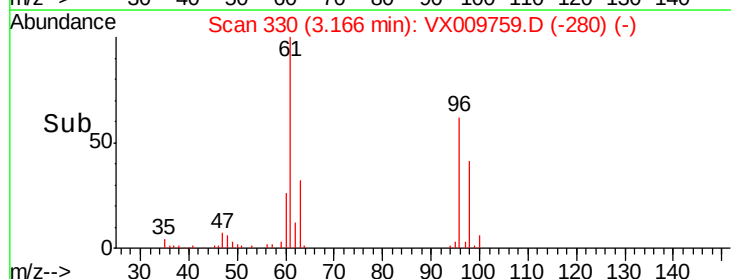
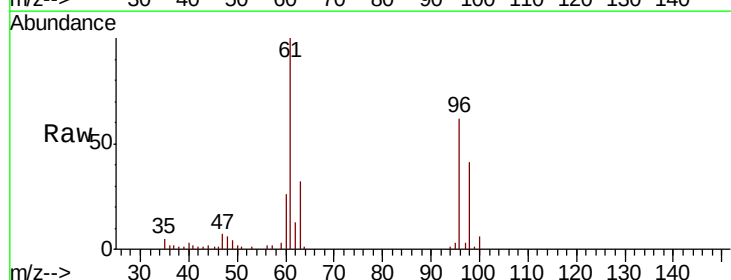
Tgt Ion: 96 Resp: 12839

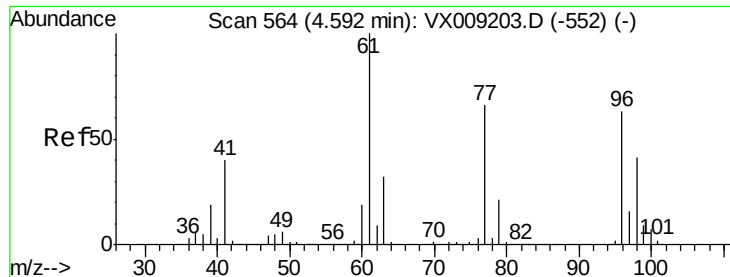
Ion Ratio Lower Upper

96 100

61 159.6 124.5 186.7

98 65.6 50.4 75.6



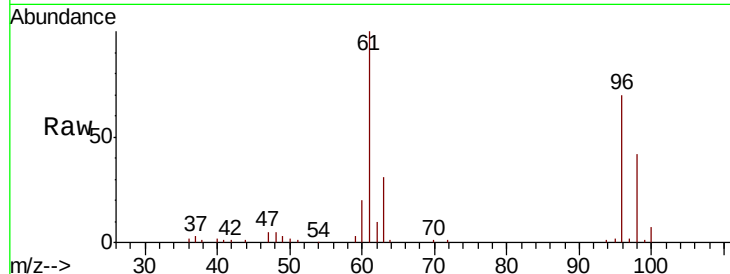


#27

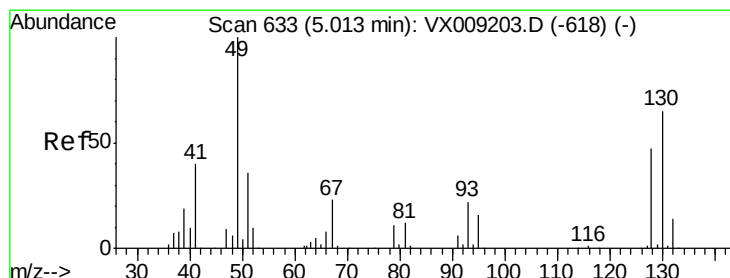
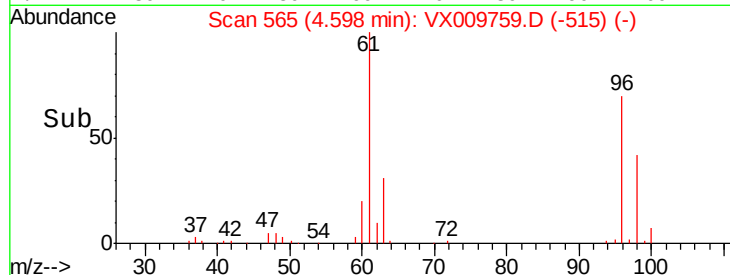
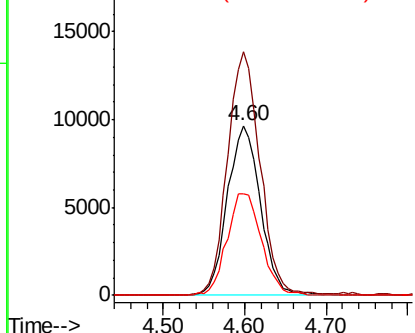
cis-1,2-Dichloroethene
 Concen: 12.810 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX009759.D
 Acq: 21 May 2019 19:41

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0152

Tot Ion: 96 Resp: 27042
 Ion Ratio Lower Upper
 96 100
 61 141.6 0.0 324.0
 98 62.3 0.0 130.4



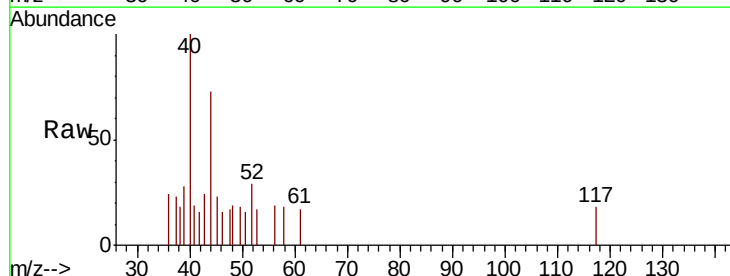
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



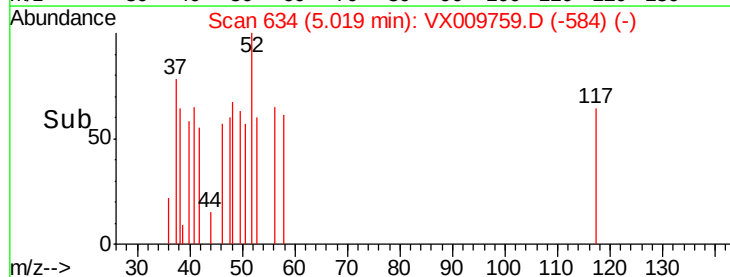
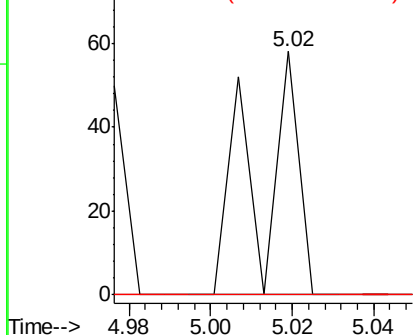
#28

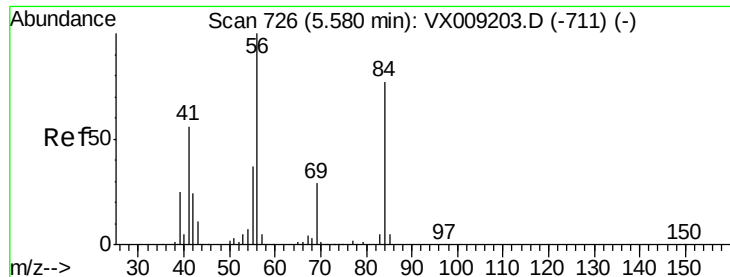
Bromochloromethane
 Concen: Below Cal
 RT: 5.02 min Scan# 634
 Delta R.T. 0.01 min
 Lab File: VX009759.D
 Acq: 21 May 2019 19:41

Tgt Ion: 49 Resp: 40
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.8
 130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

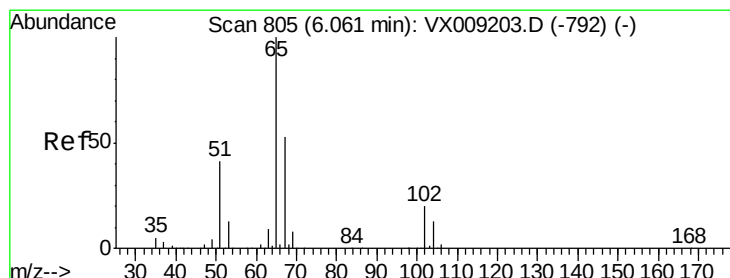
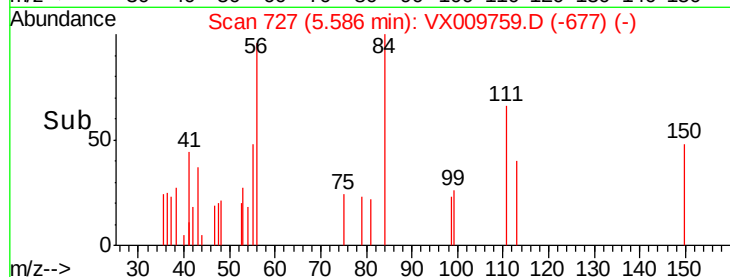
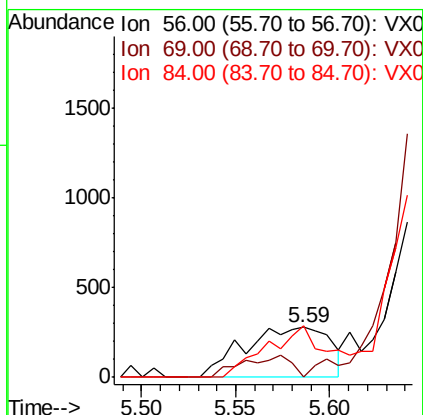
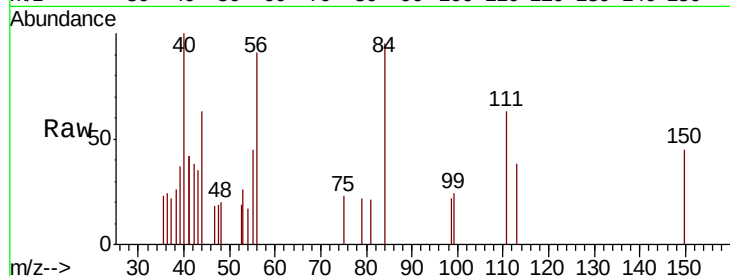




#31
Cyclohexane
Concen: 0.252 ug/l
RT: 5.59 min Scan# 727
Delta R.T. 0.01 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

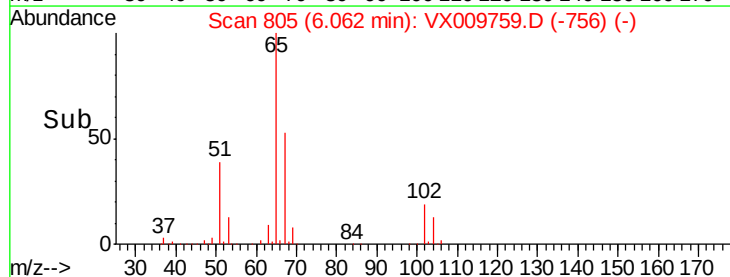
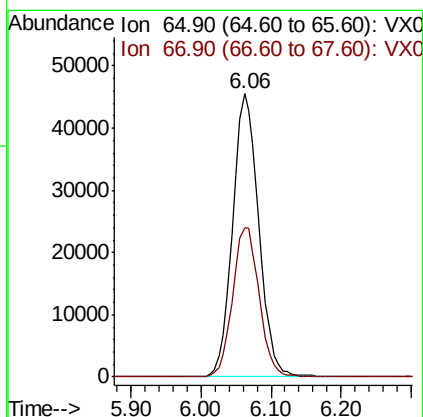
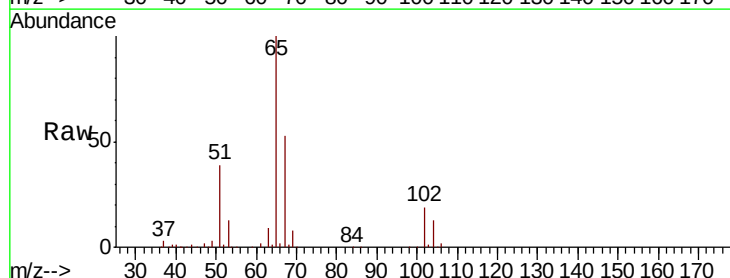
Instrument :
MSVOA_X
ClientSampled :
S36-0152

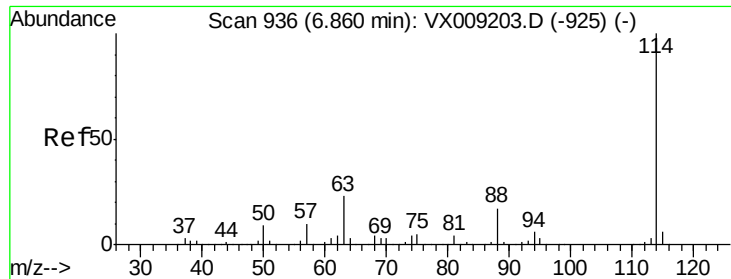
Tot Ion: 56 Resp: 884
Ion Ratio Lower Upper
56 100
69 0.0 23.4 35.0#
84 104.7 61.9 92.9#



#33
1,2-Dichloroethane-d4
Concen: 49.718 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

Tgt Ion: 65 Resp: 117958
Ion Ratio Lower Upper
65 100
67 53.7 0.0 106.6

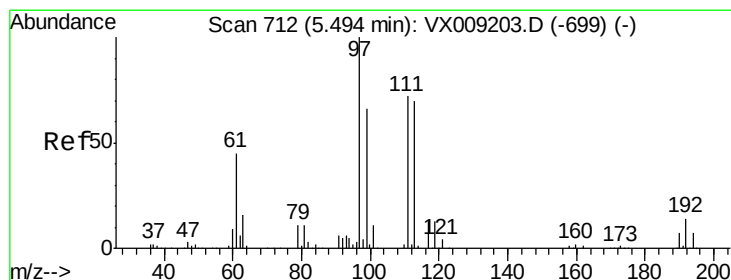
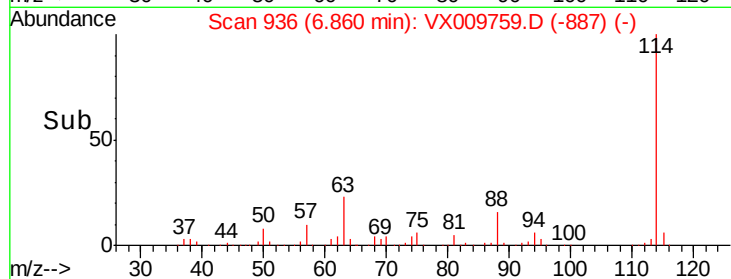
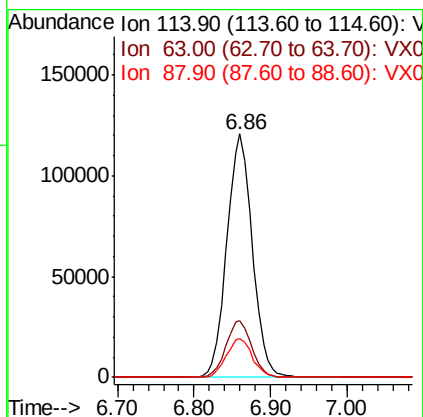
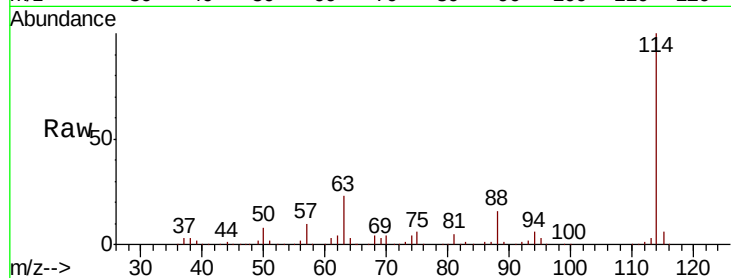




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

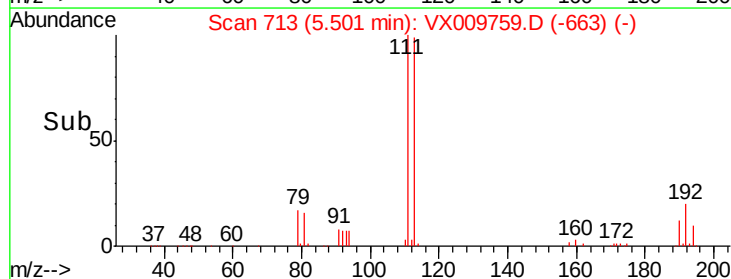
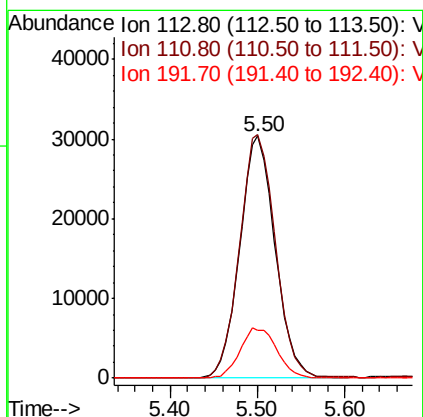
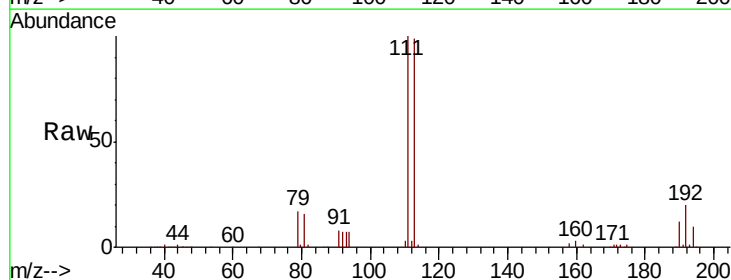
Instrument :
MSVOA_X
ClientSampleId :
S36-0152

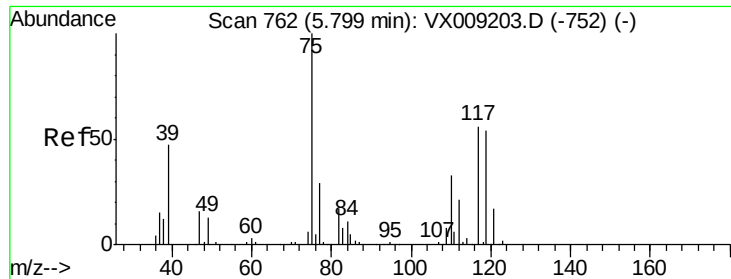
Tot Ion:114 Resp: 277579
Ion Ratio Lower Upper
114 100
63 23.2 0.0 45.6
88 16.0 0.0 33.2



#35
Dibromofluoromethane
Concen: 49.018 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

Tgt Ion:113 Resp: 85535
Ion Ratio Lower Upper
113 100
111 102.0 82.8 124.2
192 21.6 17.0 25.6

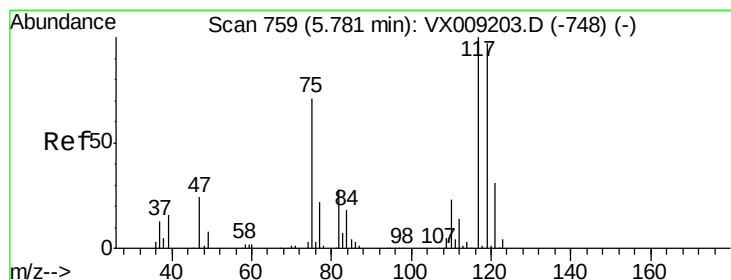
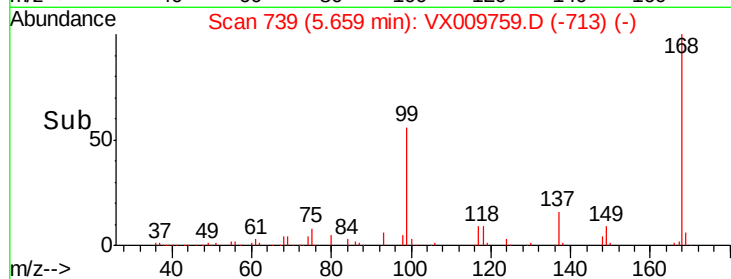
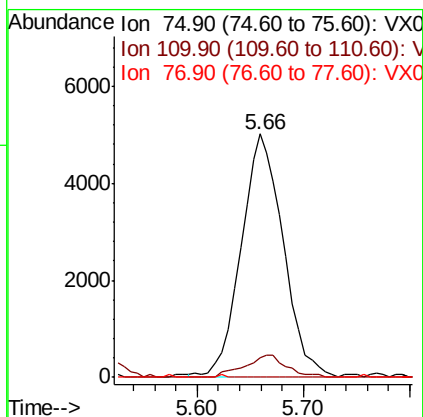
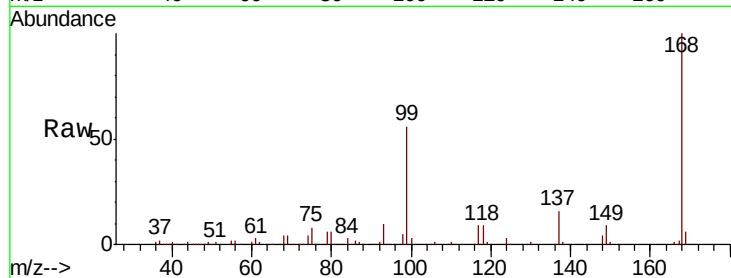




#36
 1,1-Dichloropropene
 Concen: 5.363 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009759.D
 Acq: 21 May 2019 19:41

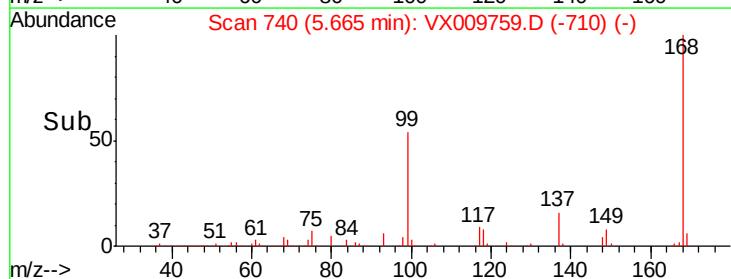
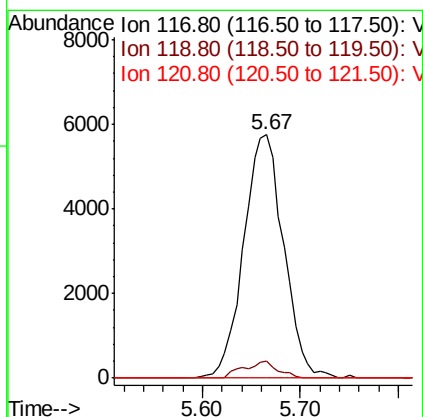
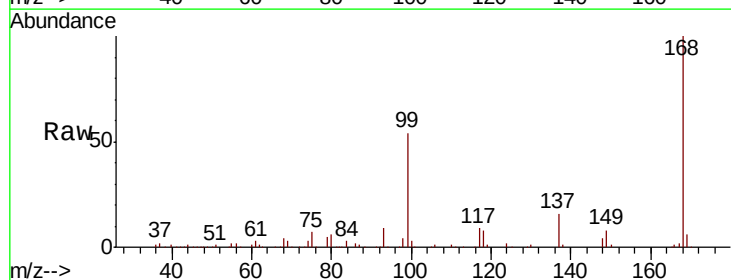
Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0152

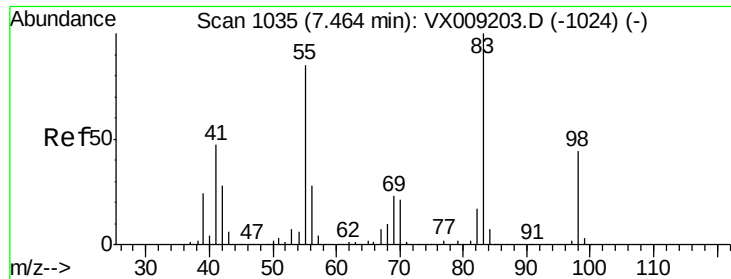
Tot Ion	75	Resp	13835
Ion Ratio	Lower	Upper	
75	100		
110	9.3	16.9	50.6#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.996 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX009759.D
 Acq: 21 May 2019 19:41

Tgt Ion	117	Resp	16397
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	7.0	77.5	116.3#
121	0.0	24.7	37.1#

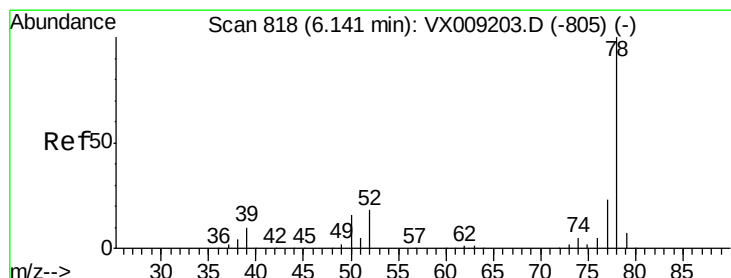
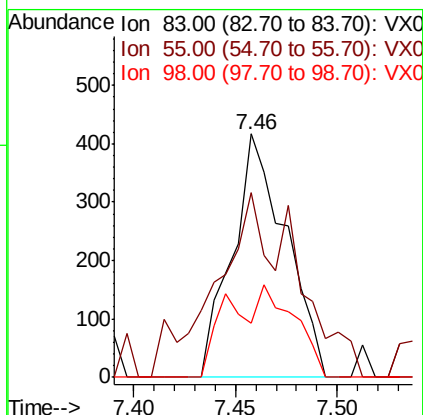
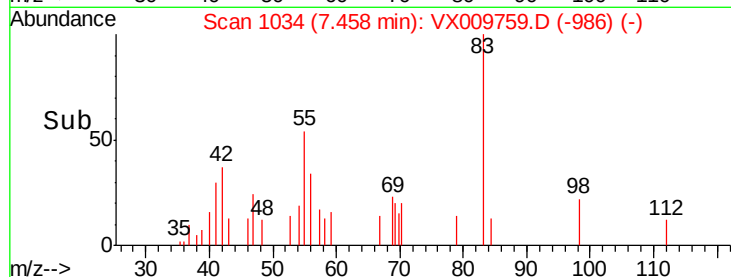
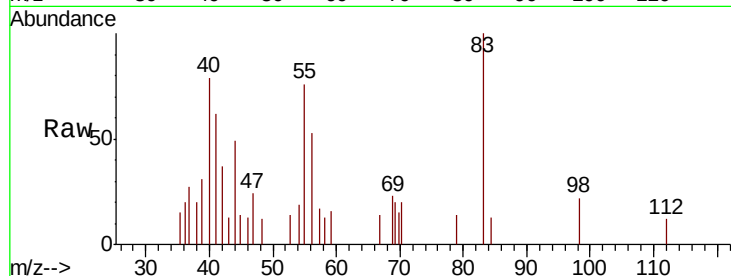




#39
Methylvlcyclohexane
Concen: 0.239 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

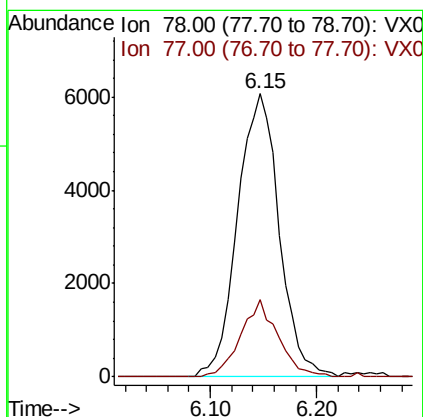
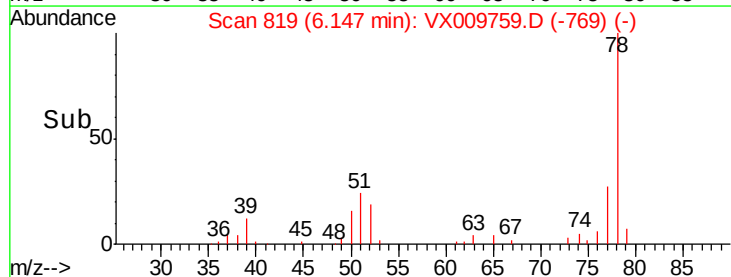
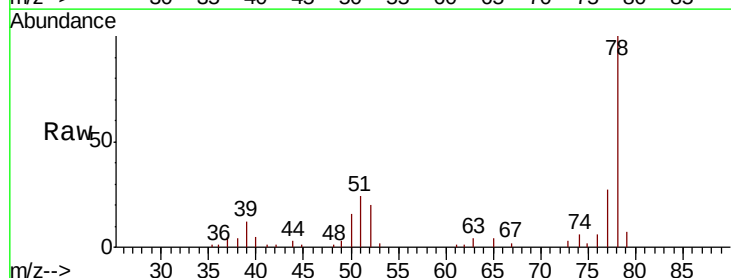
Instrument :
MSVOA_X
ClientSampled :
S36-0152

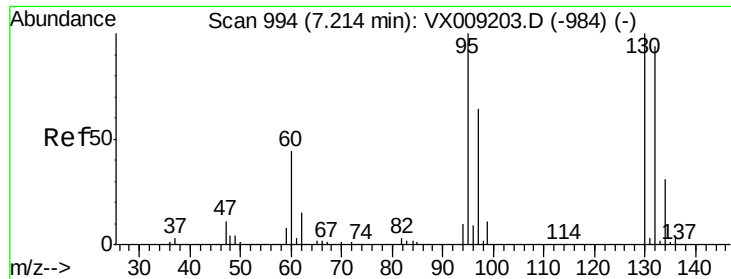
Tot Ion: 83 Resp: 758
Ion Ratio Lower Upper
83 100
55 57.8 67.7 101.5#
98 22.1 35.5 53.3#



#40
Benzene
Concen: 2.085 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

Tgt Ion: 78 Resp: 16649
Ion Ratio Lower Upper
78 100
77 27.2 18.8 28.2





#44

Trichloroethene

Concen: 0.361 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX009759.D

Acq: 21 May 2019 19:41

Instrument :

MSVOA_X

ClientSampled :

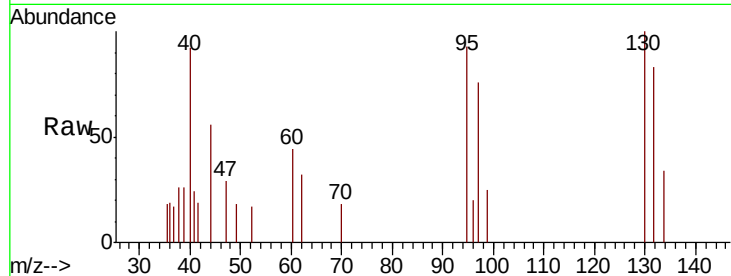
S36-0152

Tot Ion:130 Resp: 697

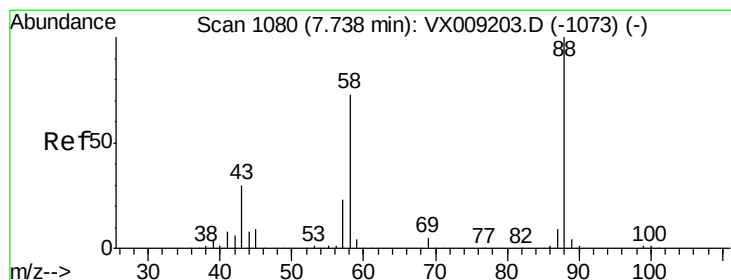
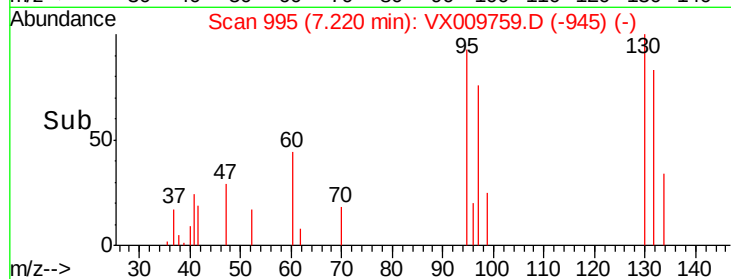
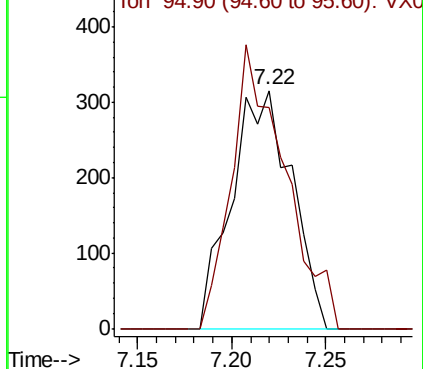
Ion Ratio Lower Upper

130 100

95 92.7 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.328 ug/l

RT: 7.80 min Scan# 1090

Delta R.T. 0.06 min

Lab File: VX009759.D

Acq: 21 May 2019 19:41

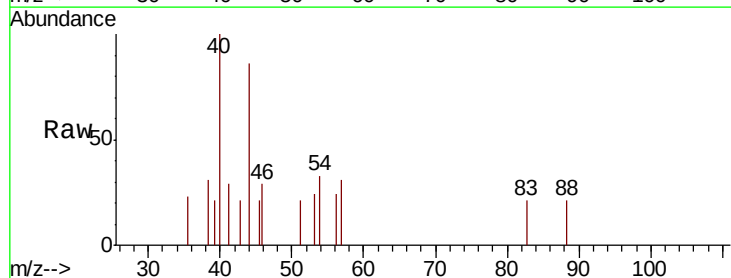
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 336.8 28.6 42.8#

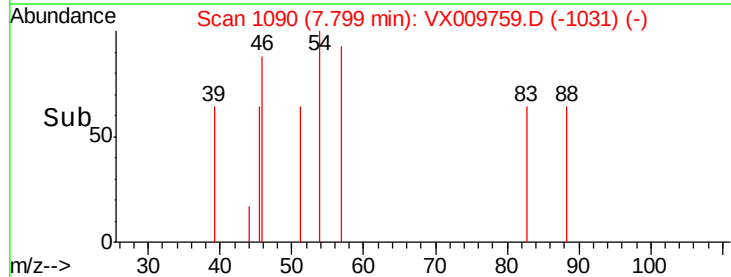
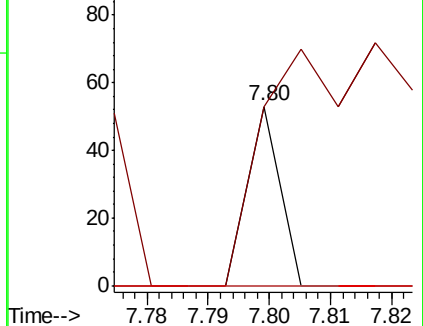
58 0.0 61.7 92.5#

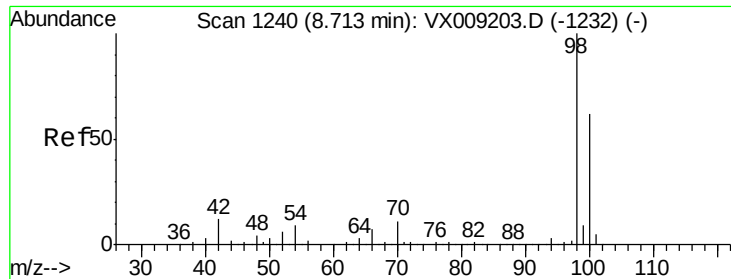


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

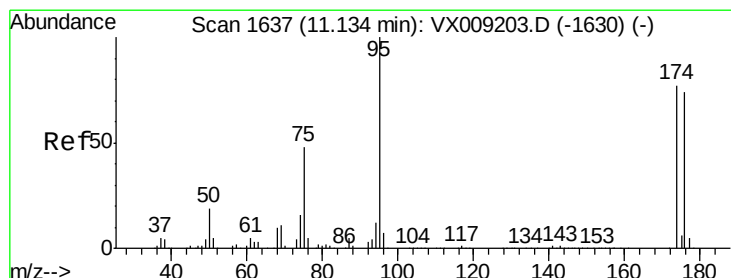
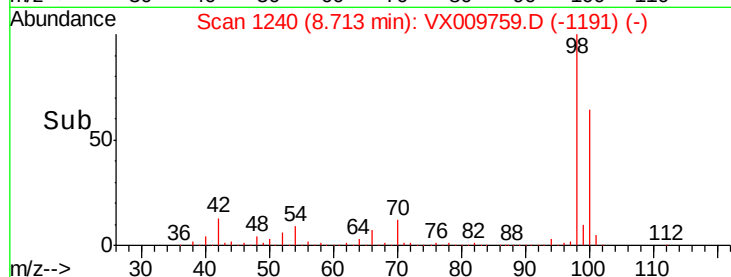
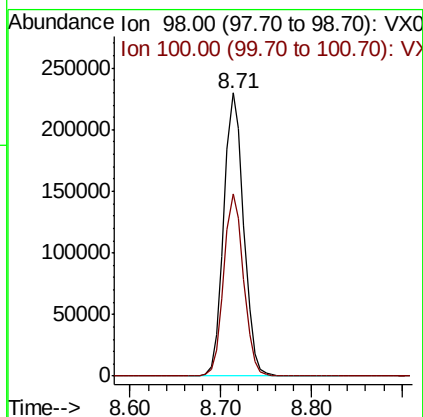
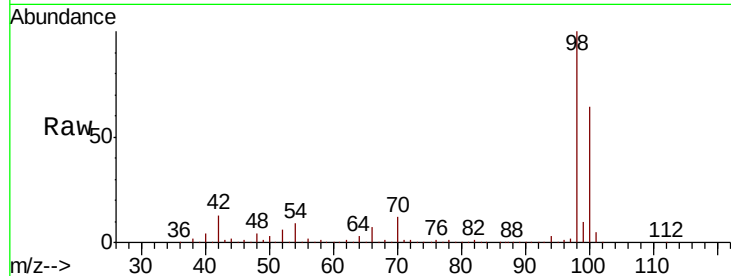




#50
Toluene-d8
Concen: 49.955 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

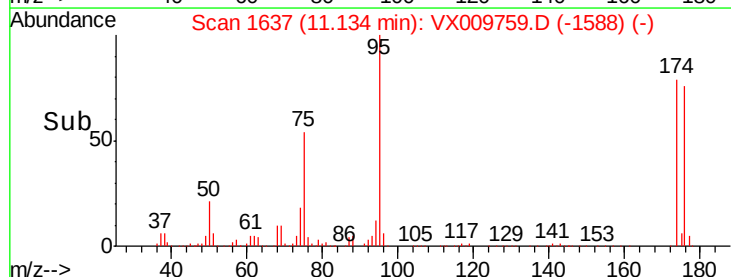
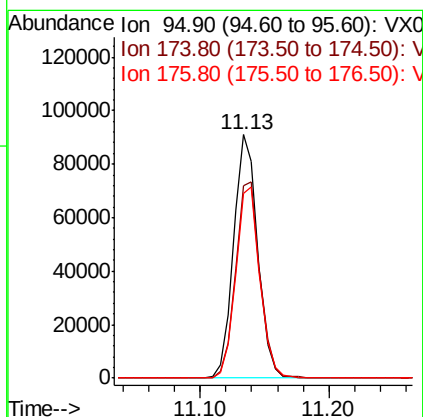
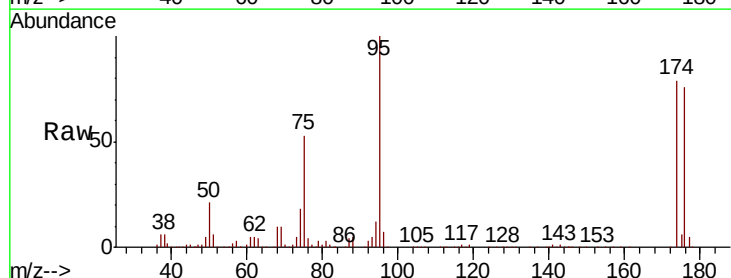
Instrument :
MSVOA_X
ClientSampled :
S36-0152

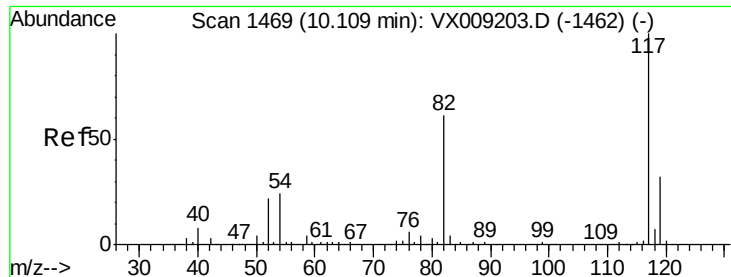
Tot Ion: 98 Resp: 351930
Ion Ratio Lower Upper
98 100
100 64.2 51.2 76.8



#62
4-Bromofluorobenzene
Concen: 46.341 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

Tgt Ion: 95 Resp: 118627
Ion Ratio Lower Upper
95 100
174 81.2 0.0 161.6
176 78.4 0.0 159.2

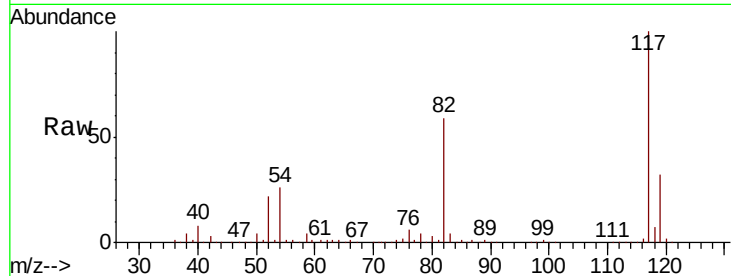




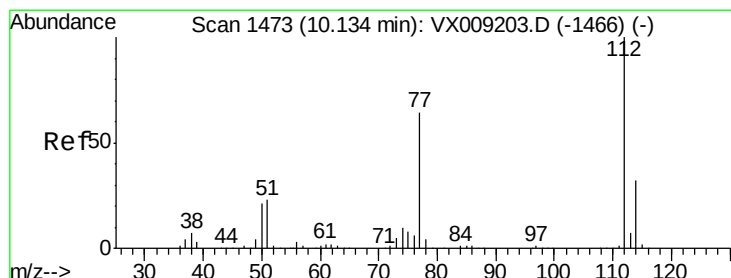
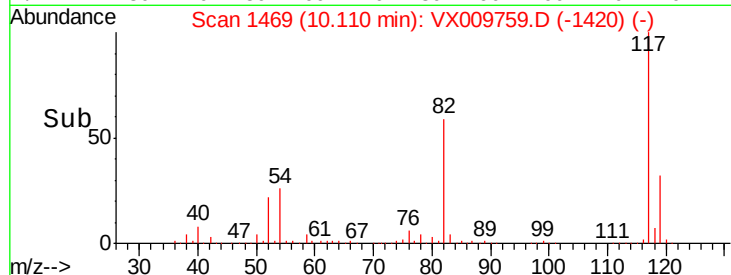
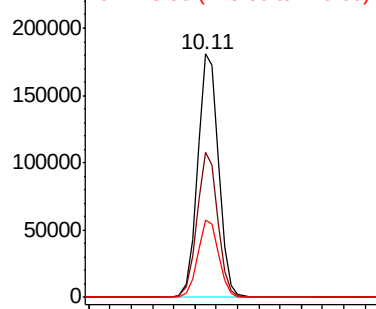
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

Instrument :
MSVOA_X
ClientSampleId :
S36-0152

Tot Ion:117 Resp: 247759
Ion Ratio Lower Upper
117 100
82 59.5 48.8 73.2
119 31.7 25.8 38.6

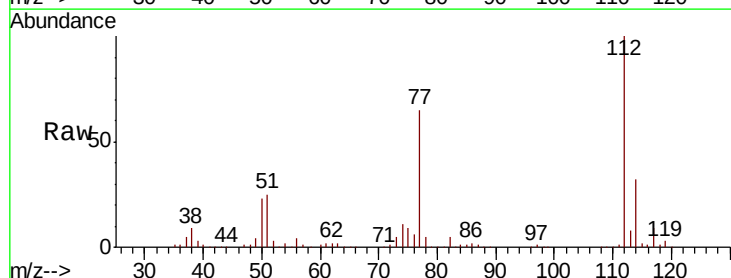


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

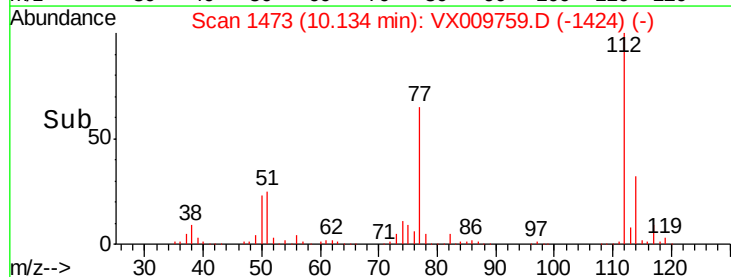
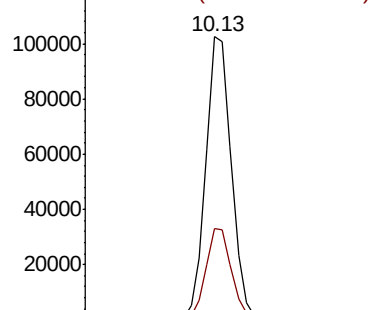


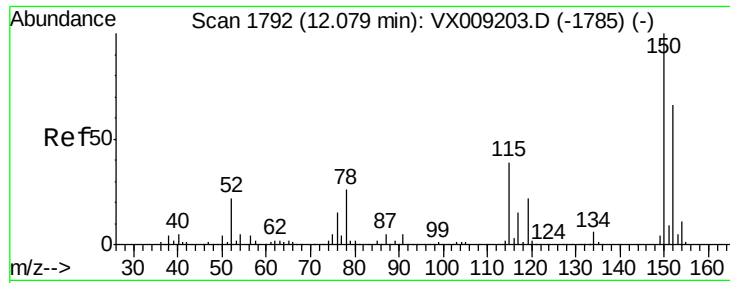
#65
Chlorobenzene
Concen: 28.748 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

Tgt Ion:112 Resp: 142486
Ion Ratio Lower Upper
112 100
114 32.1 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009759.D

Acq: 21 May 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

S36-0152

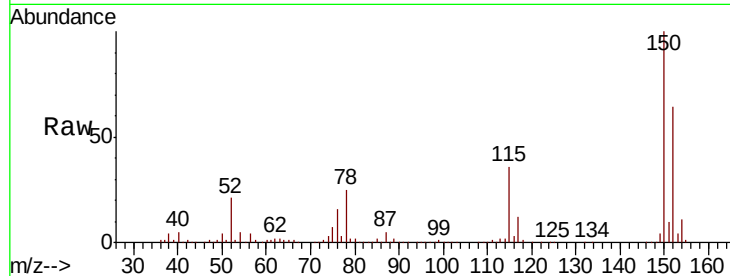
Tot Ion:152 Resp: 106526

Ion Ratio Lower Upper

152 100

115 58.6 41.2 123.6

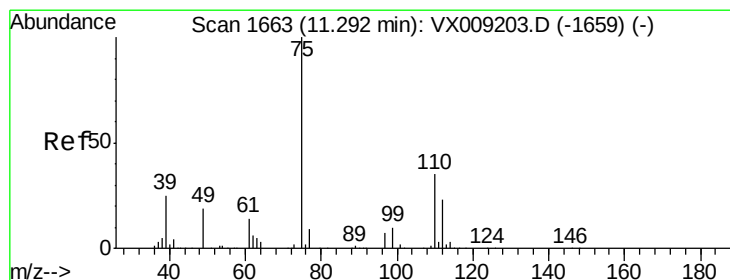
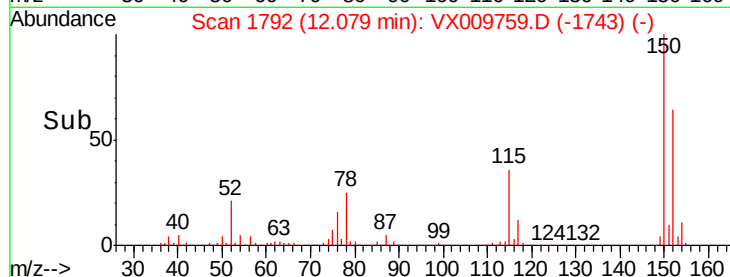
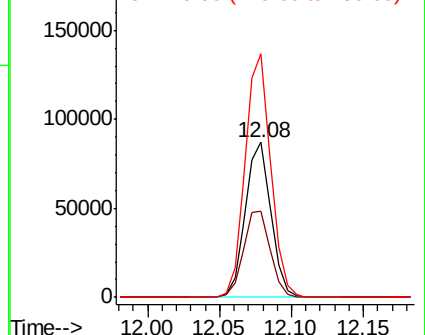
150 157.7 0.0 346.4



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: 24.848 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009759.D

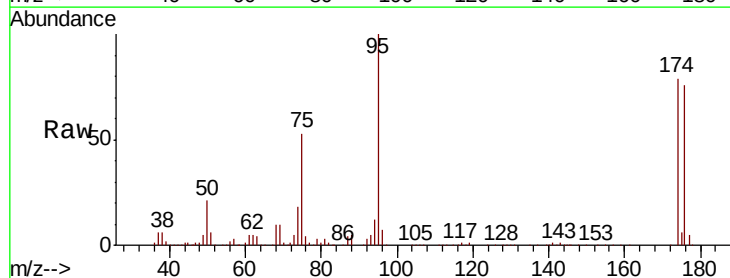
Acq: 21 May 2019 19:41

Tgt Ion: 75 Resp: 61401

Ion Ratio Lower Upper

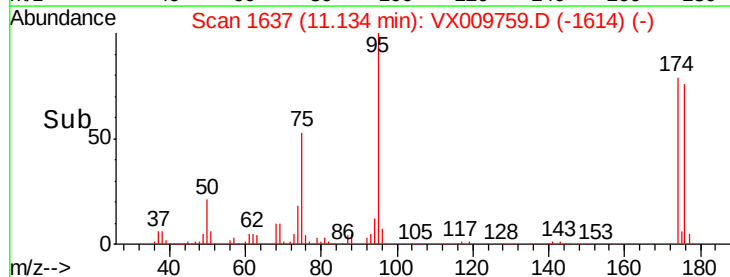
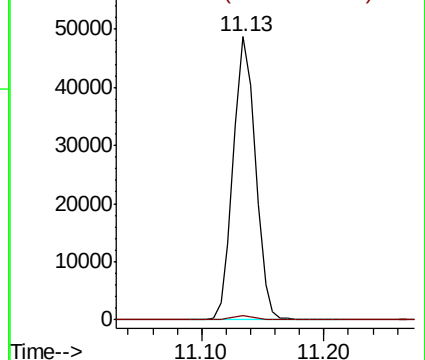
75 100

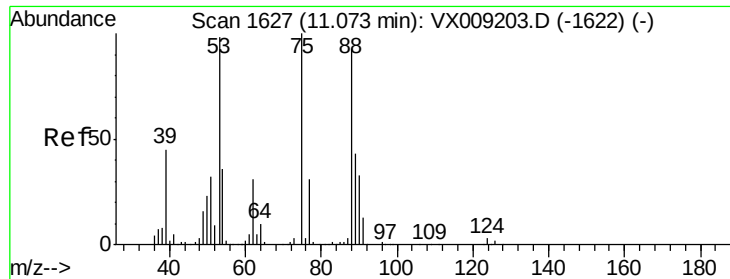
77 1.5 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

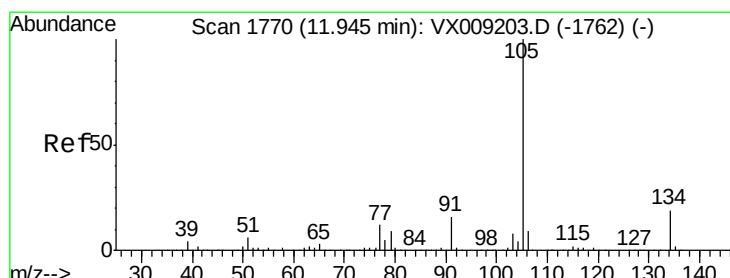
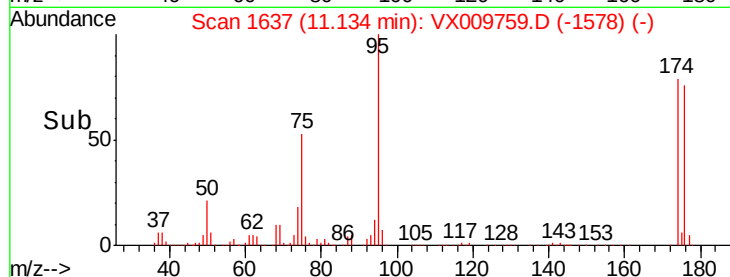
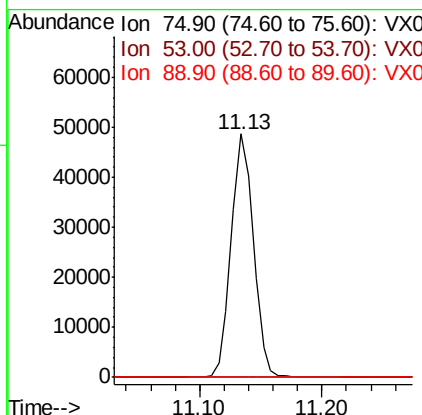
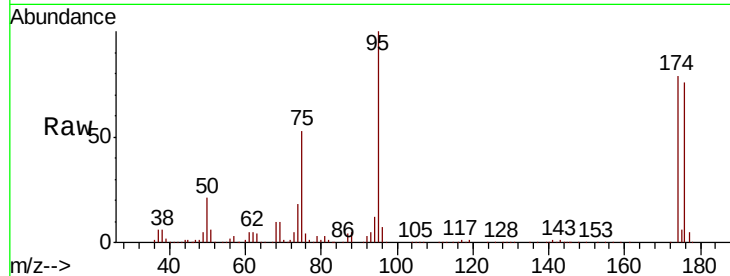




#81
trans-1,4-Dichloro-2-butene
Concen: 63.578 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

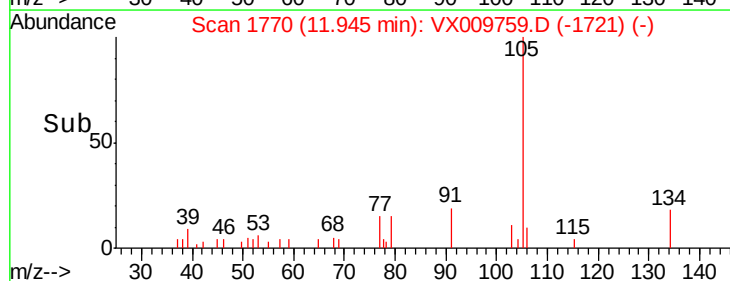
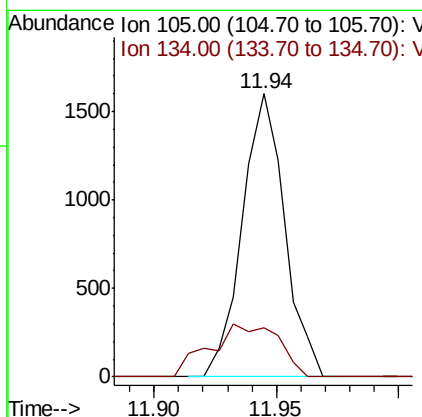
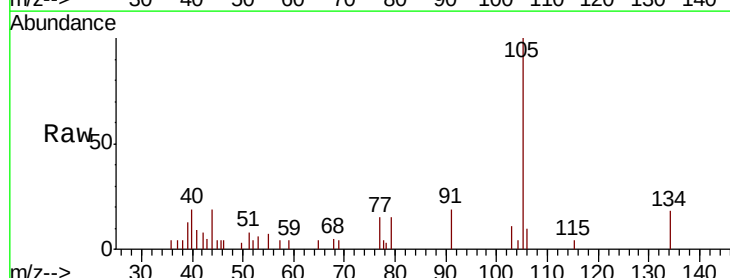
Instrument :
MSVOA_X
ClientSampleId :
S36-0152

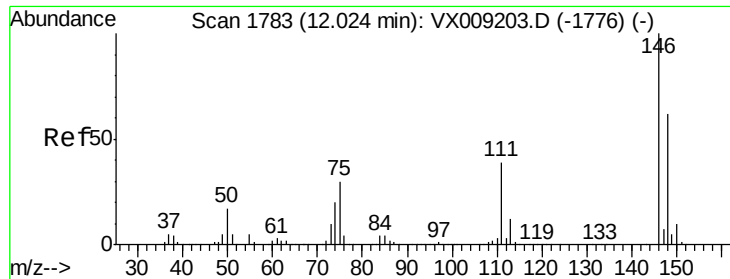
Tot Ion: 75 Resp: 61401
Ion Ratio Lower Upper
75 100
53 0.1 79.0 118.6#
89 0.0 34.7 52.1#



#85
sec-Butylbenzene
Concen: 0.257 ug/l
RT: 11.94 min Scan# 1770
Delta R.T. 0.00 min
Lab File: VX009759.D
Acq: 21 May 2019 19:41

Tgt Ion:105 Resp: 1933
Ion Ratio Lower Upper
105 100
134 30.2 9.7 28.9#

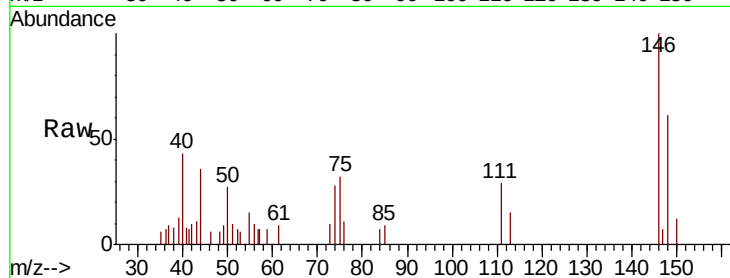




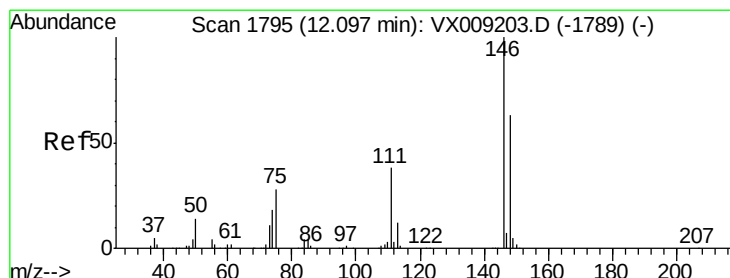
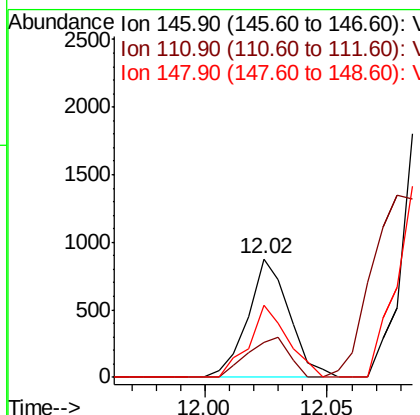
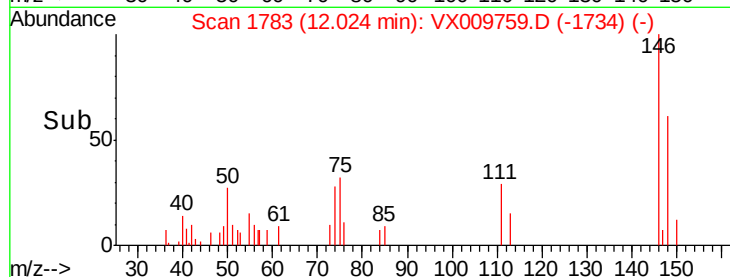
#87
 1,3-Dichlorobenzene
 Concen: 0.303 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX009759.D
 Acq: 21 May 2019 19:41

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0152

Tot Ion:146 Resp: 1039
 Ion Ratio Lower Upper
 146 100
 111 33.5 20.0 59.9
 148 57.2 31.8 95.3

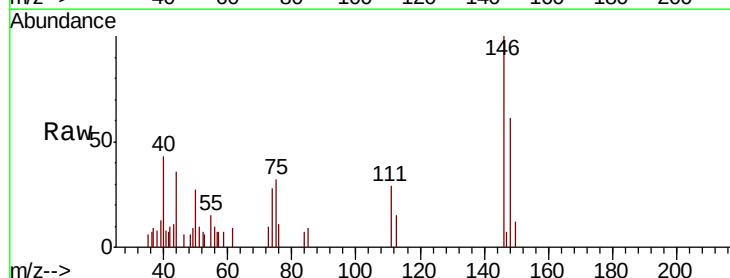


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

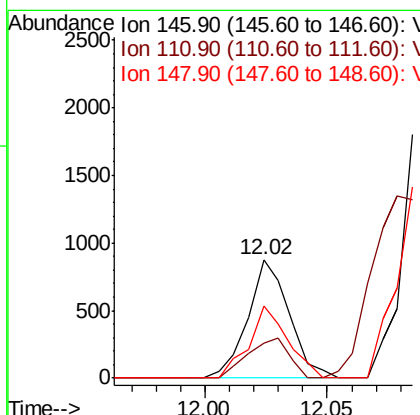
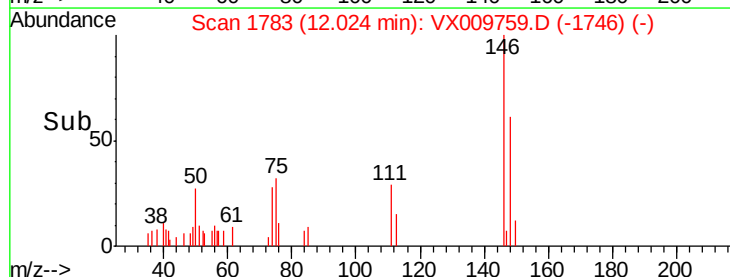


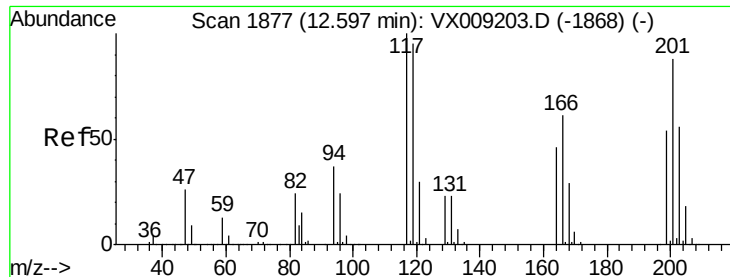
#88
 1,4-Dichlorobenzene
 Concen: 0.301 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.07 min
 Lab File: VX009759.D
 Acq: 21 May 2019 19:41

Tgt Ion:146 Resp: 1039
 Ion Ratio Lower Upper
 146 100
 111 33.5 19.6 58.8
 148 57.2 31.8 95.3



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#90

Hexachloroethane

Concen: 0.373 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX009759.D

Acq: 21 May 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

S36-0152

Tot Ion:117 Resp: 430

Ion Ratio Lower Upper

117 100

201 0.0 42.3 126.9#

