

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009331.D
 Acq On : 03 May 2019 23:40
 Operator : JC/SP
 Sample : K2663-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW513-190430

Quant Time: May 04 00:51:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	187005	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	302292	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	263089	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	116587	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	124864	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
35) Dibromofluoromethane	5.50	113	92127	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	8.71	98	375252	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
62) 4-Bromofluorobenzene	11.13	95	125175	44.90	ug/l	0.00
Spiked Amount			Recovery	=	89.80%	

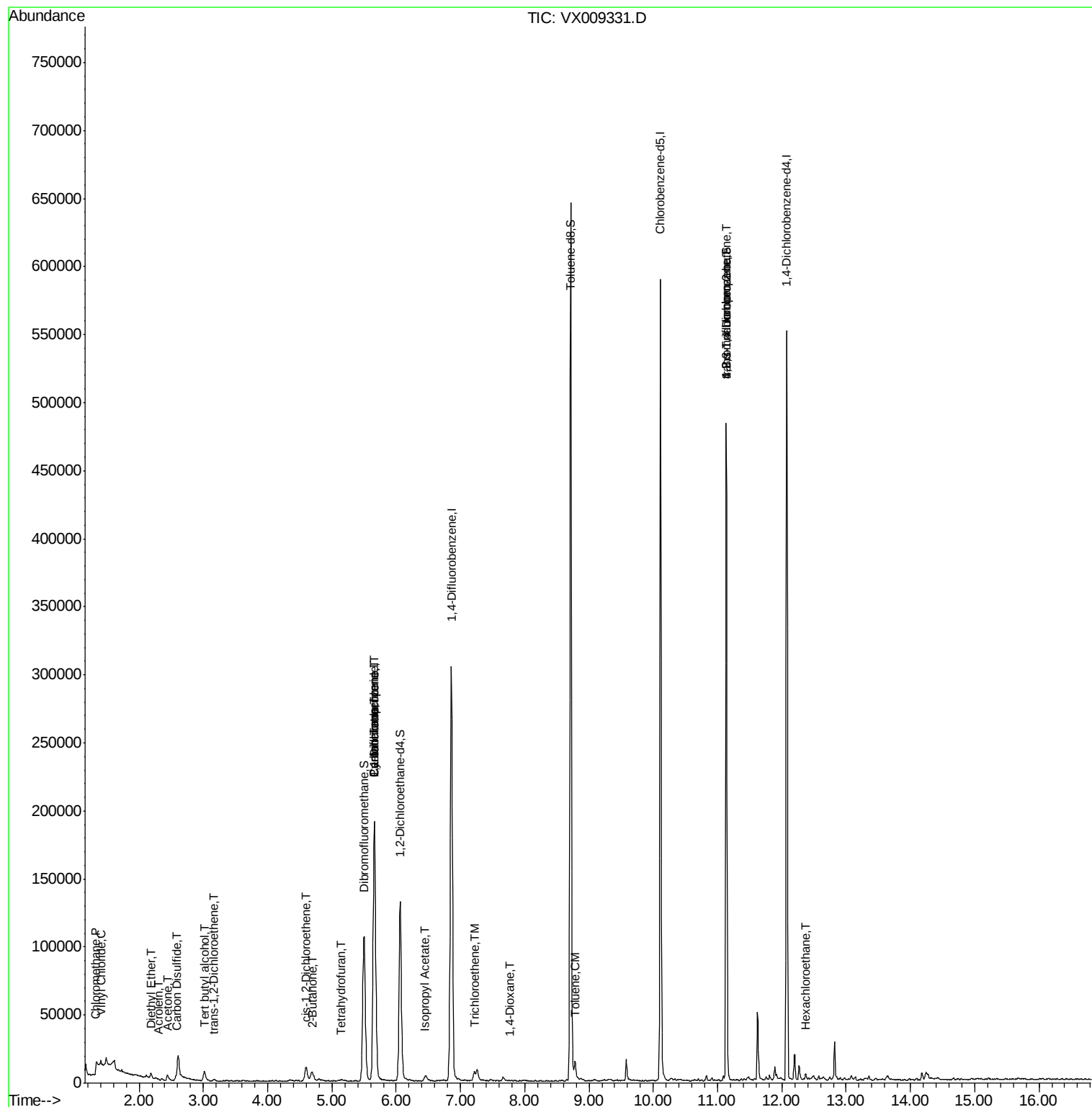
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	623	0.265	ug/l #	88
4) Vinyl Chloride	1.40	62	2638	1.150	ug/l #	74
8) Diethyl Ether	2.19	74	1065	0.806	ug/l	84
11) Tert butyl alcohol	3.01	59	4649	7.867	ug/l #	76
13) Acrolein	2.30	56	212	0.396	ug/l #	55
16) Acetone	2.44	43	4777	3.485	ug/l	92
17) Carbon Disulfide	2.57	76	6191	1.257	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	387	0.203	ug/l	93
25) 2-Butanone	4.70	43	684	0.321	ug/l #	89
27) cis-1,2-Dichloroethene	4.59	96	6639	2.923	ug/l	88
28) Bromochloromethane	5.04	49	25	Below Cal	#	20
29) Tetrahydrofuran	5.13	42	904	0.659	ug/l #	73
31) Cyclohexane	5.66	56	4075	1.080	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14439	5.140	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17554	6.878	ug/l #	16
43) Isopropyl Acetate	6.45	43	2292	0.366	ug/l #	63
44) Trichloroethene	7.21	130	2534	1.206	ug/l	95
49) 1,4-Dioxane	7.77	88	19	0.302	ug/l #	1
52) Toluene	8.78	92	3362	0.636	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	63942	23.644	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63942	60.496	ug/l #	10
90) Hexachloroethane	12.37	117	309	0.245	ug/l #	7

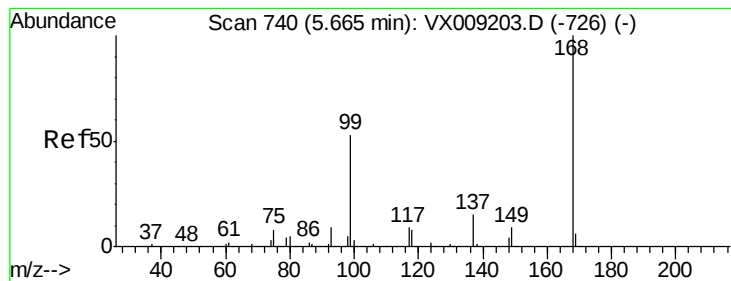
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 04 00:51:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:03:50 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: VX009331.D

Acq: 03 May 2019 23:40

Instrument :

MSVOA_X

ClientSampleId :

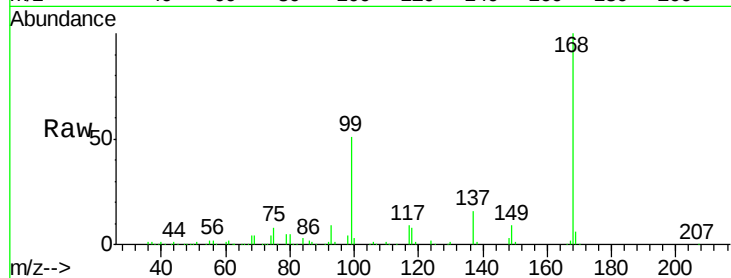
SS050MW513-190430

Tot Ion:168 Resp: 187005

Ion Ratio Lower Upper

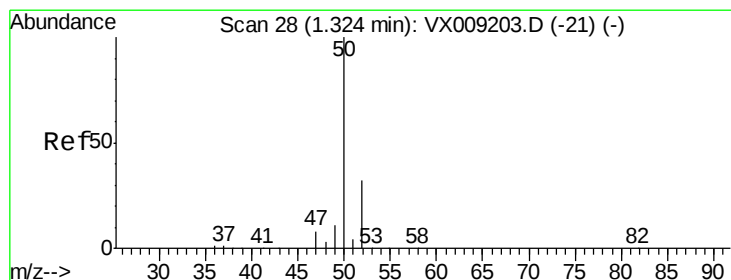
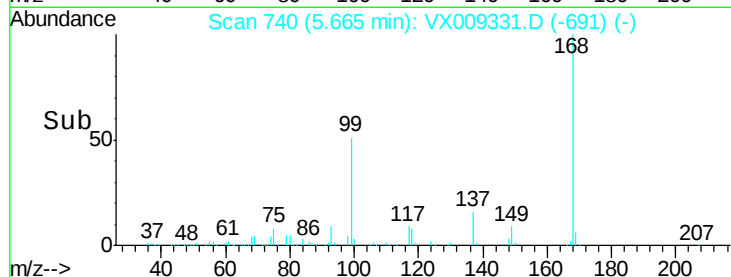
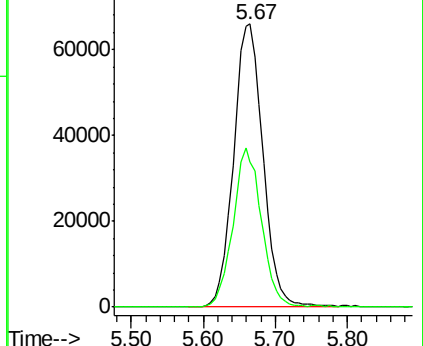
168 100

99 51.4 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.265 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009331.D

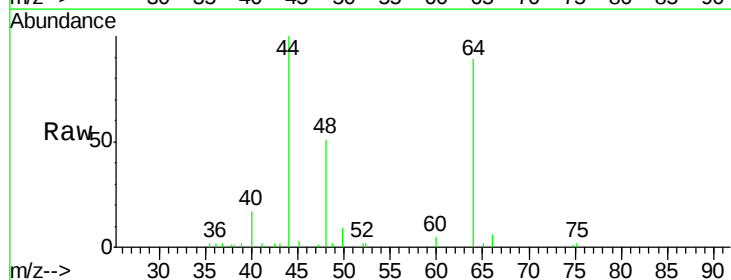
Acq: 03 May 2019 23:40

Tgt Ion: 50 Resp: 623

Ion Ratio Lower Upper

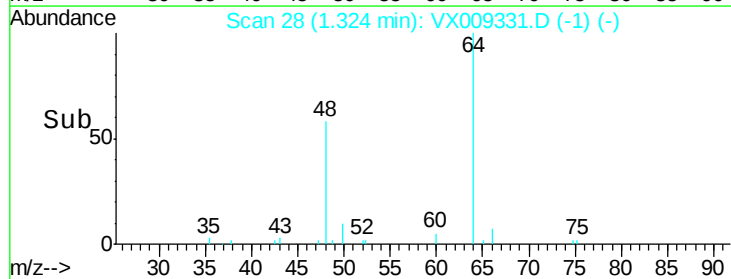
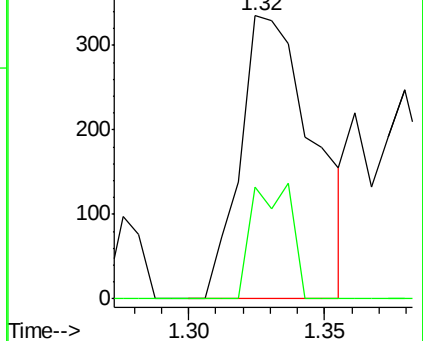
50 100

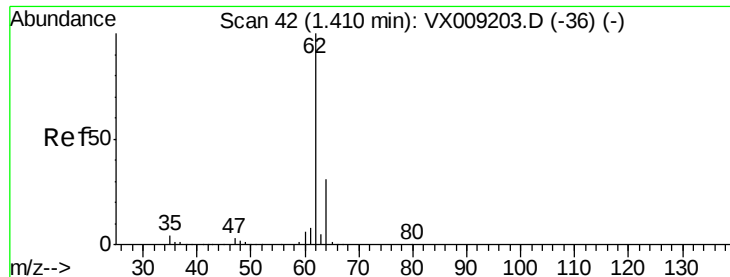
52 39.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 1.150 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

Instrument :

MSVOA_X

ClientSampleId :

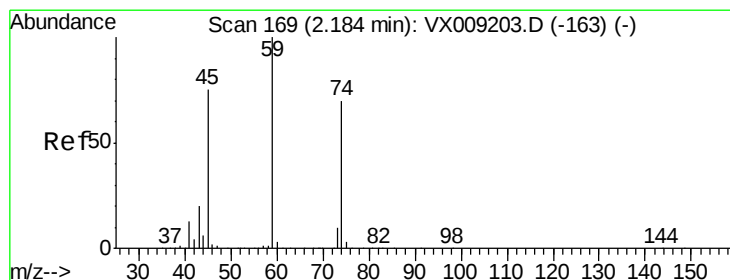
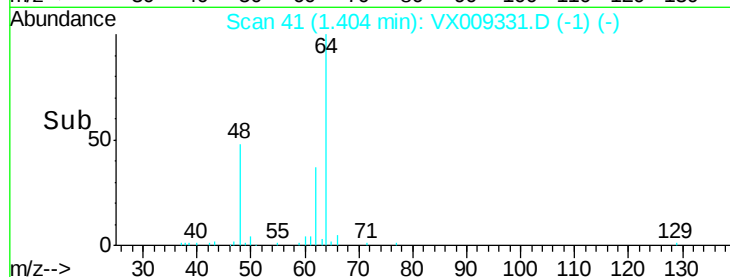
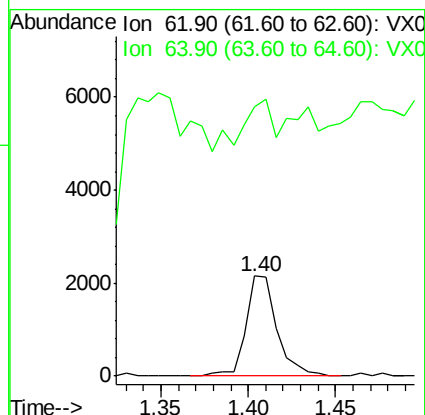
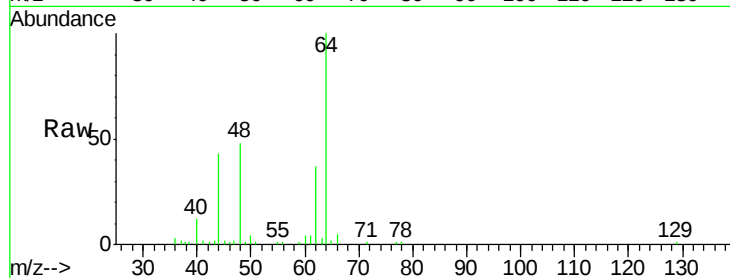
SS050MW513-190430

Tot Ion: 62 Resp: 2638

Ion Ratio Lower Upper

62 100

64 16.2 24.6 36.8#



#8

Diethyl Ether

Concen: 0.806 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX009331.D

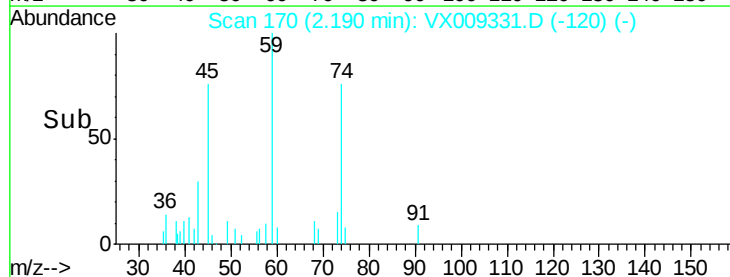
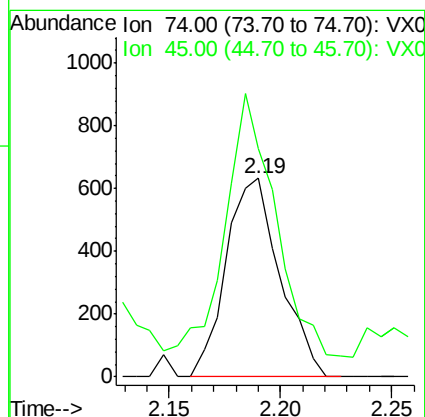
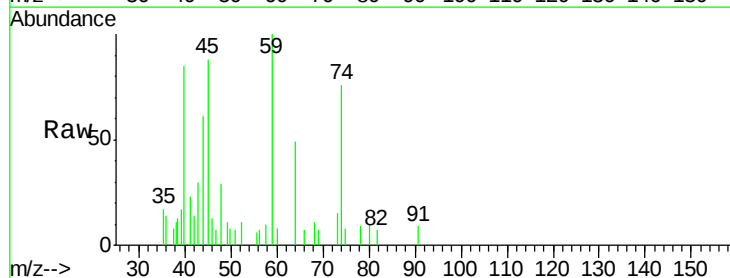
Acq: 03 May 2019 23:40

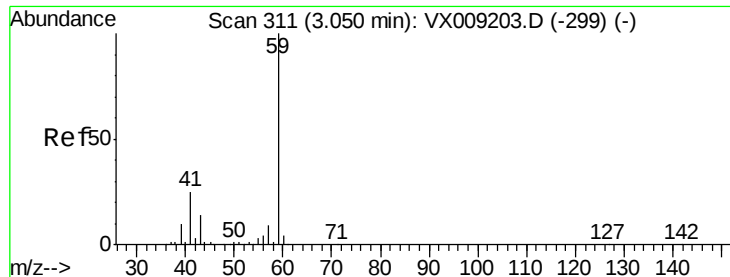
Tgt Ion: 74 Resp: 1065

Ion Ratio Lower Upper

74 100

45 123.3 53.3 159.9

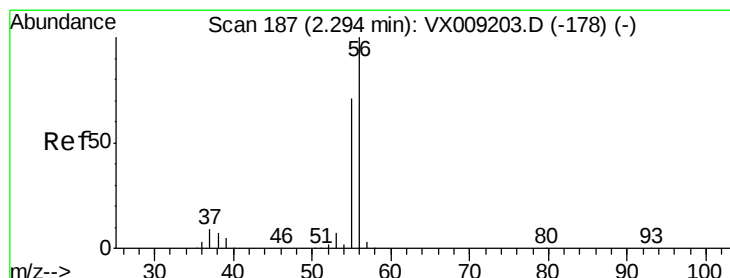
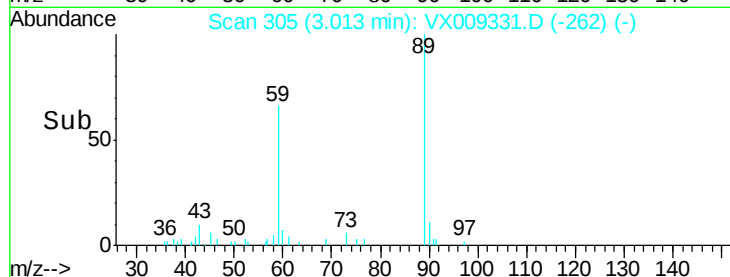
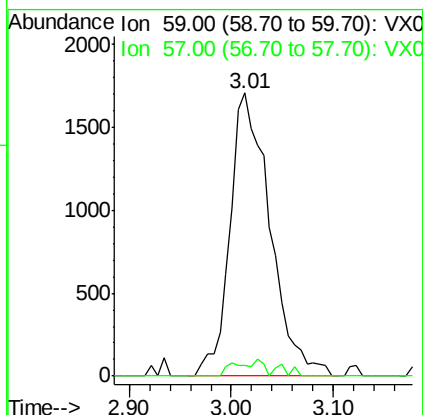
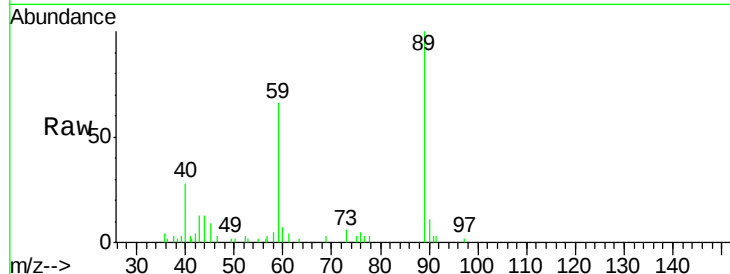




#11
Tert butyl alcohol
Concen: 7.867 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009331.D
Acq: 03 May 2019 23:40

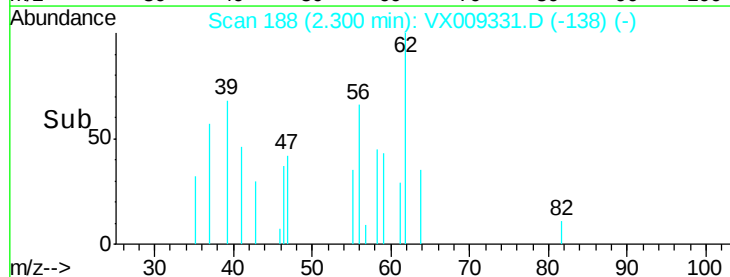
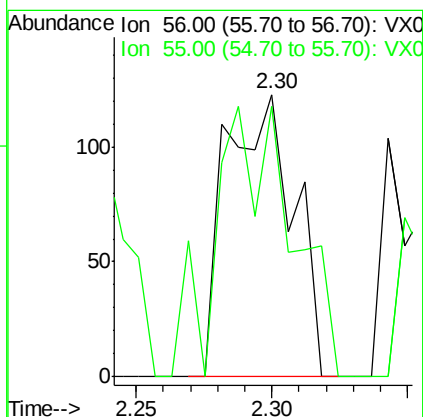
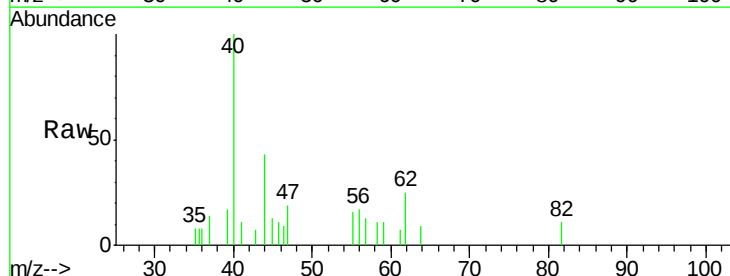
Instrument :
MSVOA_X
ClientSampleId :
SS050MW513-190430

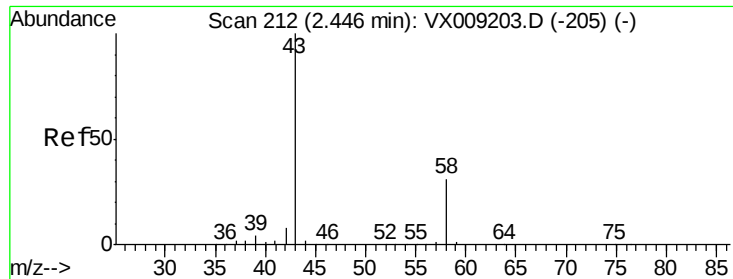
Tot Ion: 59 Resp: 4649
Ion Ratio Lower Upper
59 100
57 1.4 8.2 12.2#



#13
Acrolein
Concen: 0.396 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX009331.D
Acq: 03 May 2019 23:40

Tgt Ion: 56 Resp: 212
Ion Ratio Lower Upper
56 100
55 107.5 56.6 85.0#





#16

Acetone

Concen: 3.485 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

Instrument :

MSVOA_X

ClientSampleId :

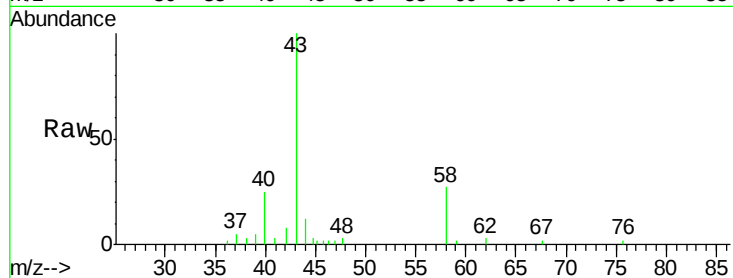
SS050MW513-190430

Tot Ion: 43 Resp: 4777

Ion Ratio Lower Upper

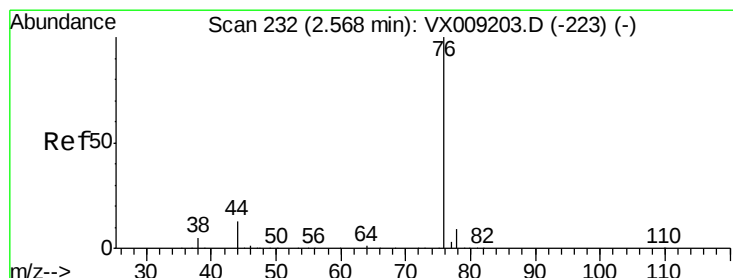
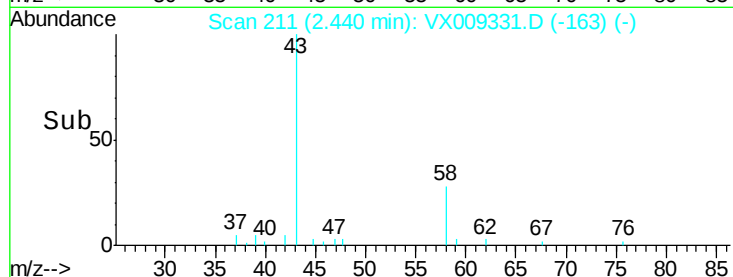
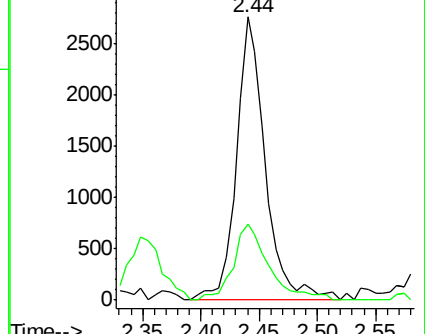
43 100

58 26.8 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.257 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009331.D

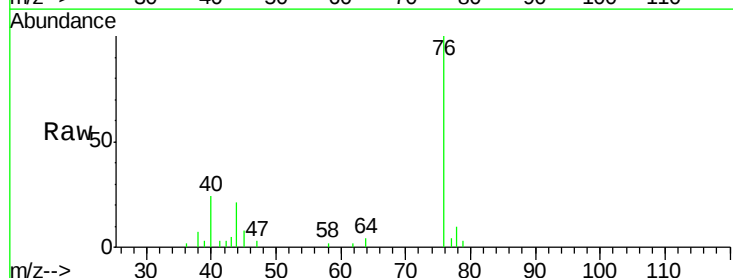
Acq: 03 May 2019 23:40

Tgt Ion: 76 Resp: 6191

Ion Ratio Lower Upper

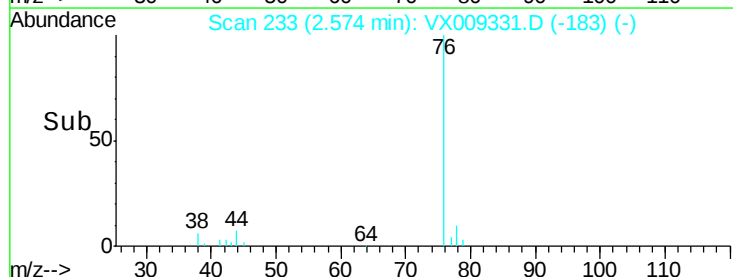
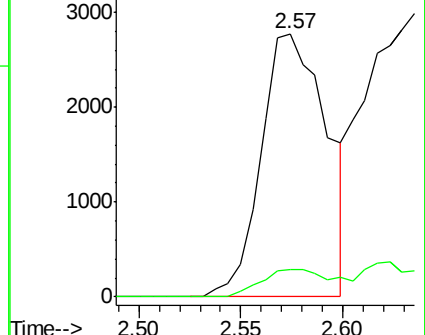
76 100

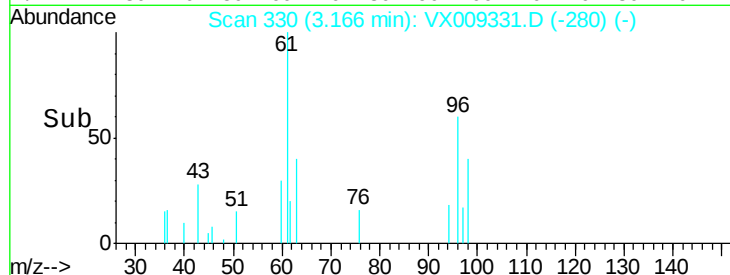
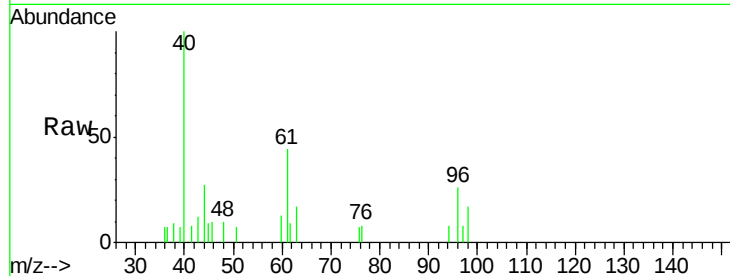
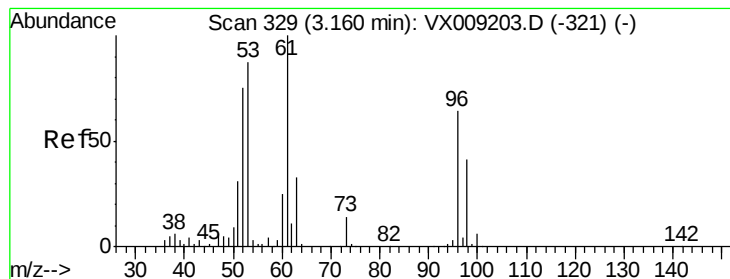
78 10.2 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.203 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

Instrument :

MSVOA_X

ClientSampleId :

SS050MW513-190430

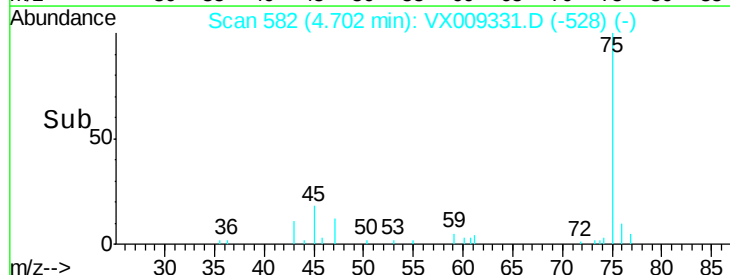
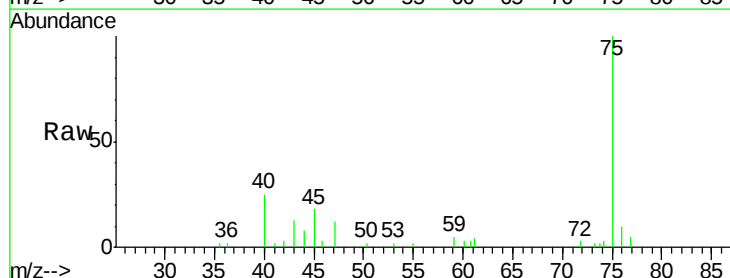
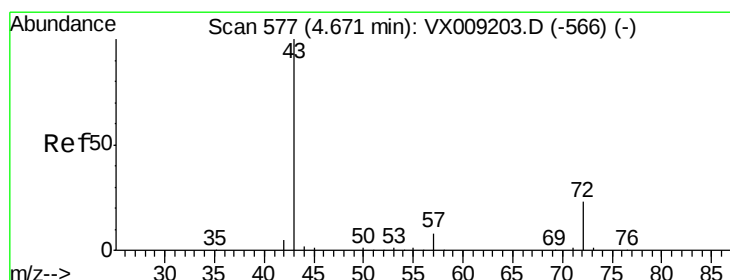
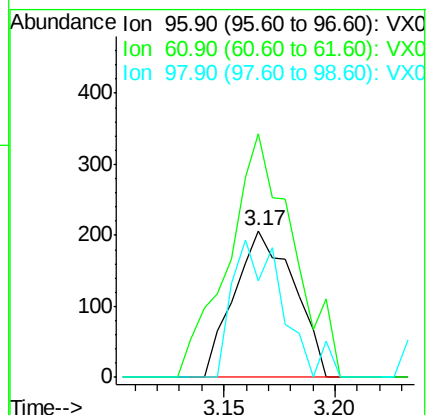
Tot Ion: 96 Resp: 387

Ion Ratio Lower Upper

96 100

61 165.7 124.5 186.7

98 65.7 50.4 75.6



#25

2-Butanone

Concen: 0.321 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX009331.D

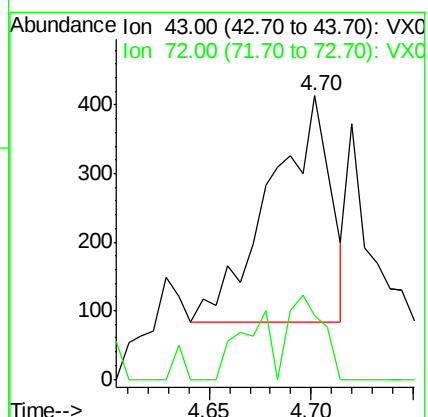
Acq: 03 May 2019 23:40

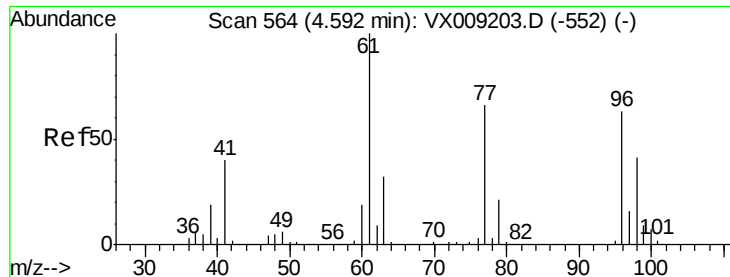
Tgt Ion: 43 Resp: 684

Ion Ratio Lower Upper

43 100

72 27.9 18.2 27.2#



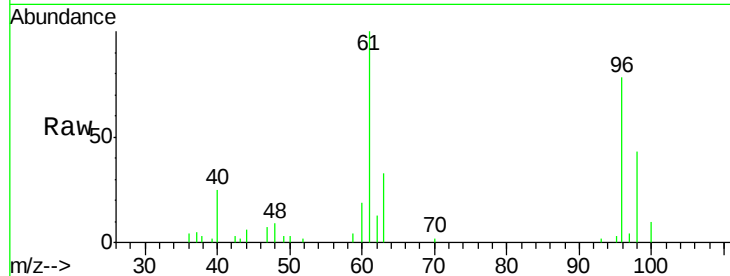


#27

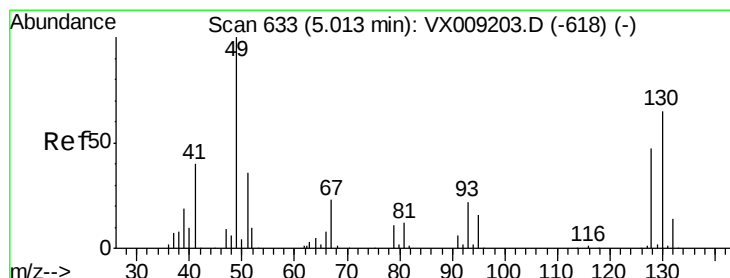
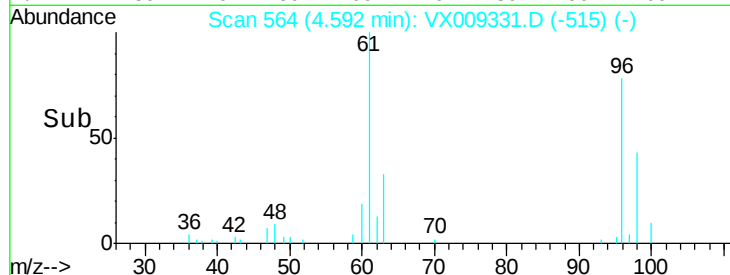
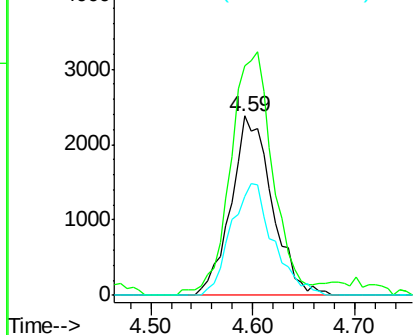
cis-1,2-Dichloroethene
 Concen: 2.923 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.00 min
 Lab File: VX009331.D
 Acq: 03 May 2019 23:40

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW513-190430

Tot Ion: 96 Resp: 6639
 Ion Ratio Lower Upper
 96 100
 61 139.8 0.0 324.0
 98 64.0 0.0 130.4



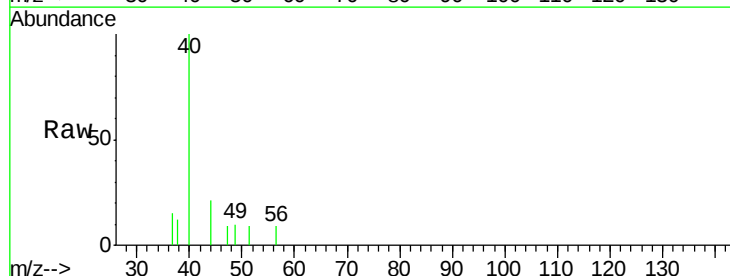
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



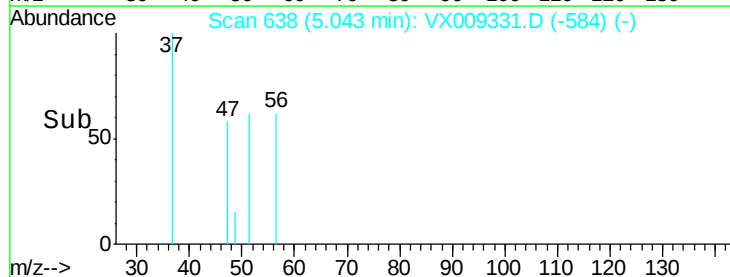
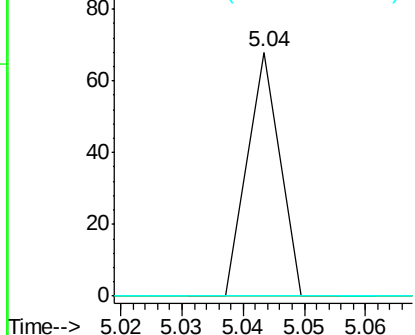
#28

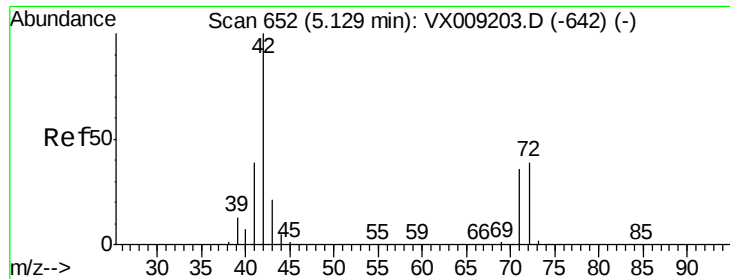
Bromochloromethane
 Concen: Below Cal
 RT: 5.04 min Scan# 638
 Delta R.T. 0.03 min
 Lab File: VX009331.D
 Acq: 03 May 2019 23:40

Tgt Ion: 49 Resp: 25
 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

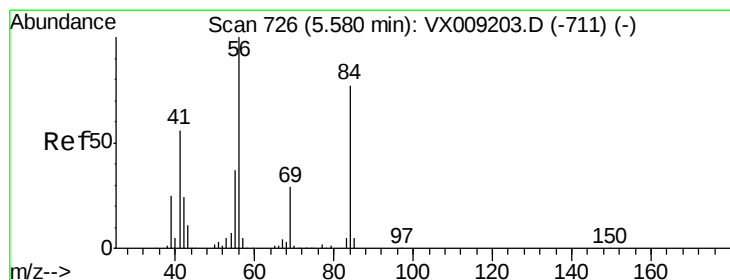
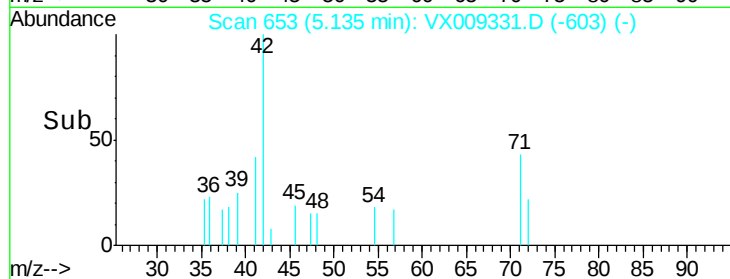
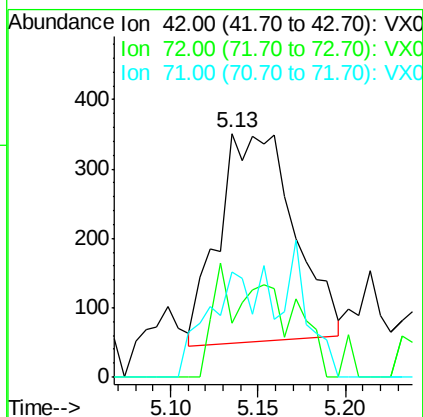
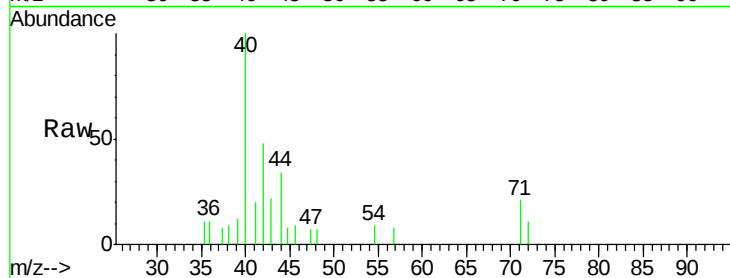




#29
Tetrahydrofuran
Concen: 0.659 ug/l
RT: 5.13 min Scan# 653
Delta R.T. 0.01 min
Lab File: VX009331.D
Acq: 03 May 2019 23:40

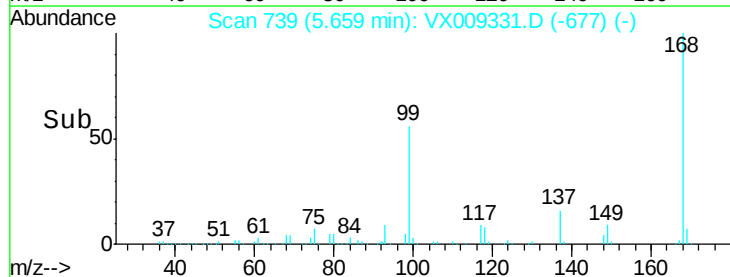
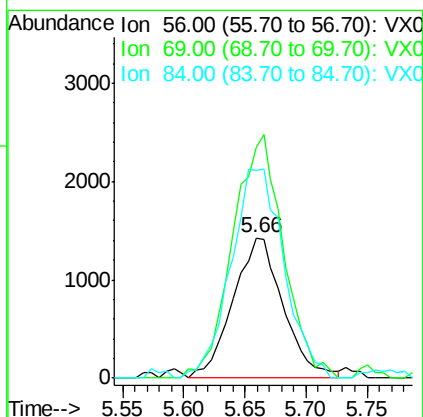
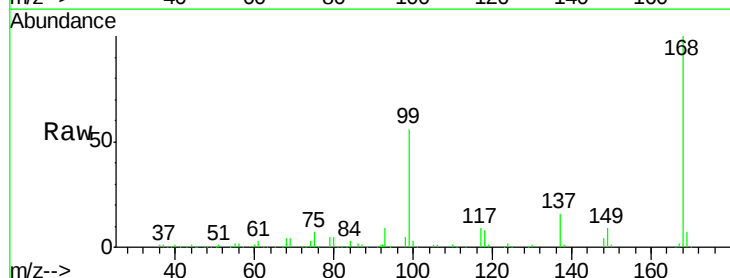
Instrument :
MSVOA_X
ClientSampleId :
SS050MW513-190430

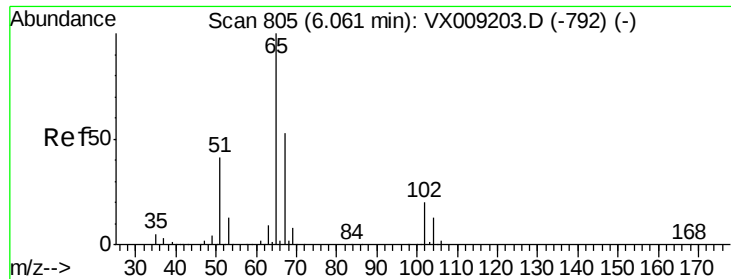
Tot Ion: 42 Resp: 904
Ion Ratio Lower Upper
42 100
72 13.2 30.4 45.6#
71 29.0 28.6 43.0



#31
Cyclohexane
Concen: 1.080 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009331.D
Acq: 03 May 2019 23:40

Tgt Ion: 56 Resp: 4075
Ion Ratio Lower Upper
56 100
69 164.8 23.4 35.0#
84 147.9 61.9 92.9#

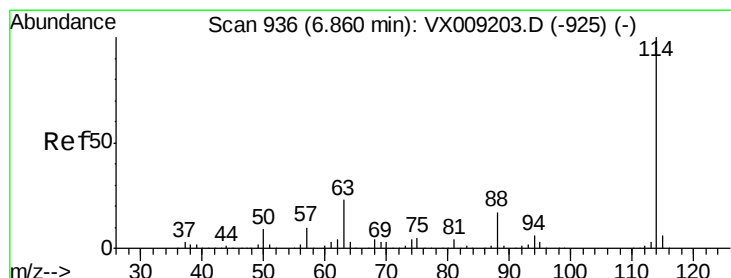
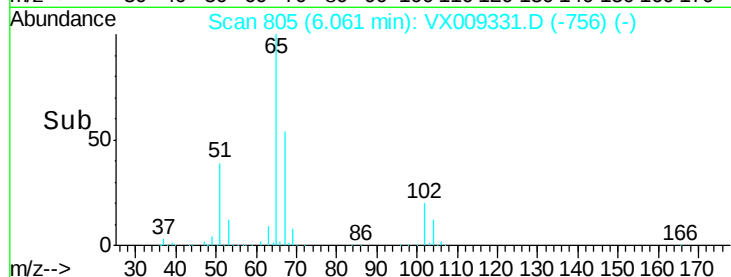
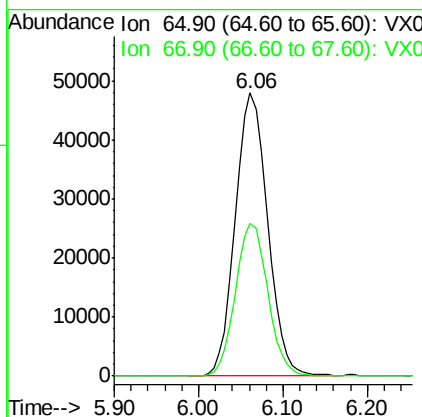
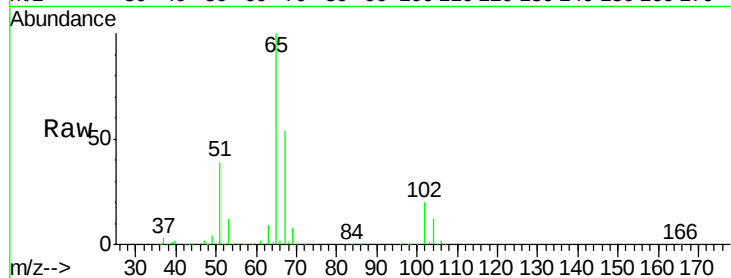




#33
 1,2-Dichloroethane-d4
 Concen: 48.912 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009331.D
 Acq: 03 May 2019 23:40

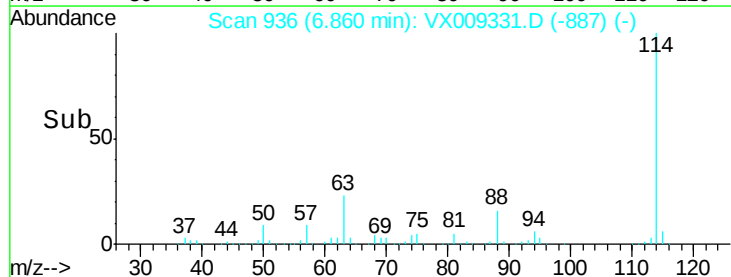
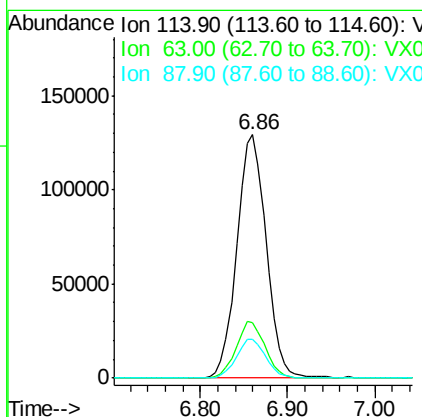
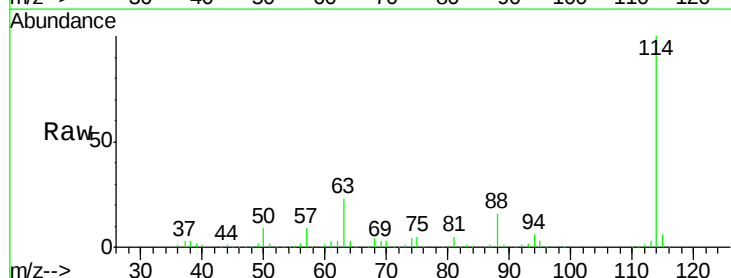
Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW513-190430

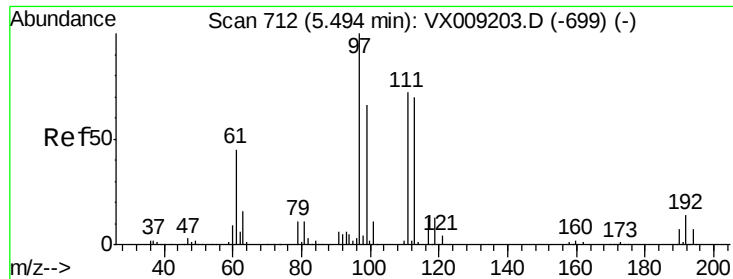
Tot Ion: 65 Resp: 124864
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009331.D
 Acq: 03 May 2019 23:40

Tgt Ion: 114 Resp: 302292
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 45.6
 88 15.9 0.0 33.2

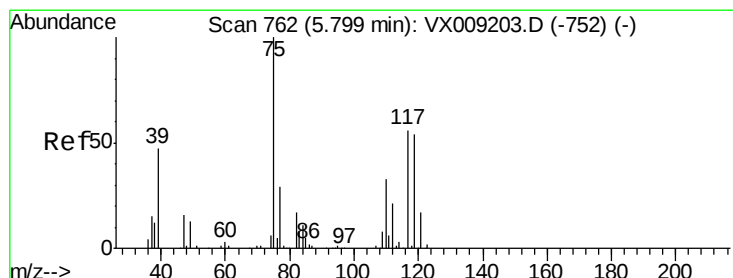
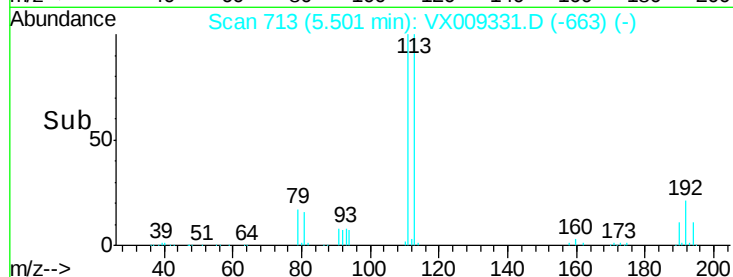
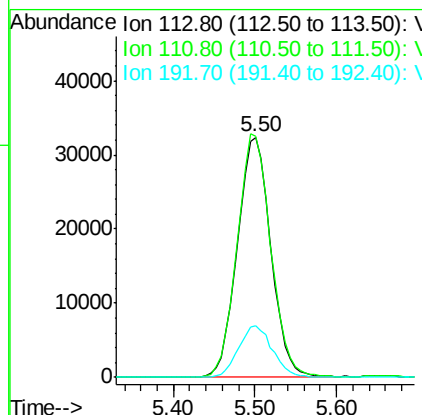
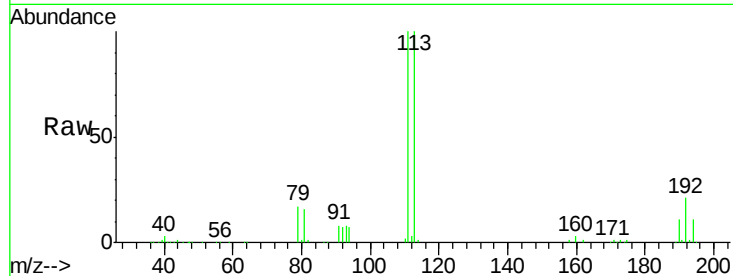




#35
Dibromofluoromethane
Concen: 48.480 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX009331.D
Acq: 03 May 2019 23:40

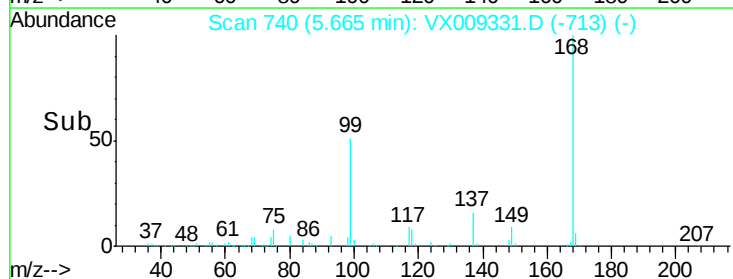
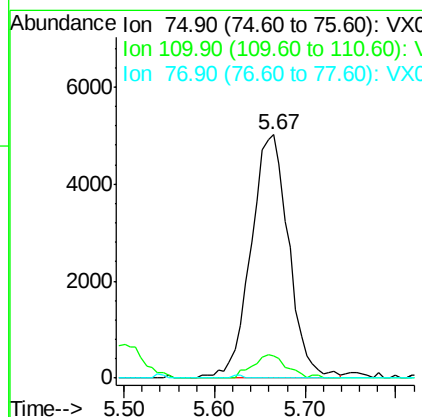
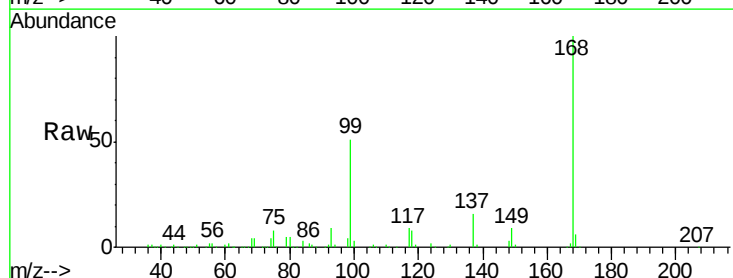
Instrument :
MSVOA_X
ClientSampleId :
SS050MW513-190430

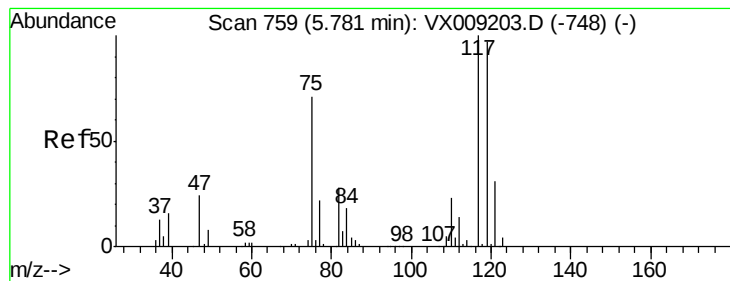
Tot Ion:113 Resp: 92127
Ion Ratio Lower Upper
113 100
111 101.8 82.8 124.2
192 21.6 17.0 25.6



#36
1,1-Dichloropropene
Concen: 5.140 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.13 min
Lab File: VX009331.D
Acq: 03 May 2019 23:40

Tgt Ion: 75 Resp: 14439
Ion Ratio Lower Upper
75 100
110 8.3 16.9 50.6#
77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.878 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

Instrument :

MSVOA_X

ClientSampleId :

SS050MW513-190430

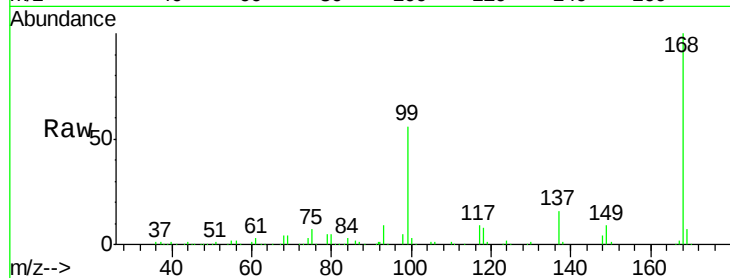
Tot Ion:117 Resp: 17554

Ion Ratio Lower Upper

117 100

119 5.4 77.5 116.3#

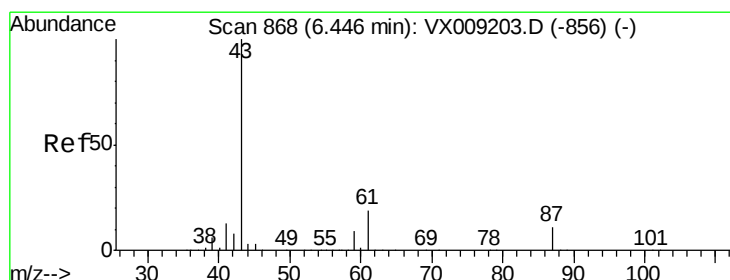
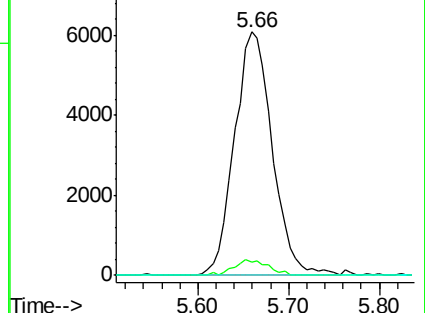
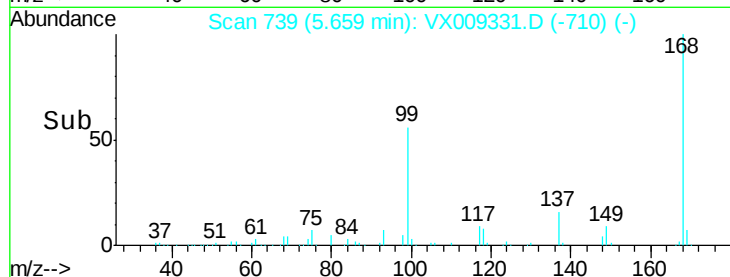
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.366 ug/l

RT: 6.45 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

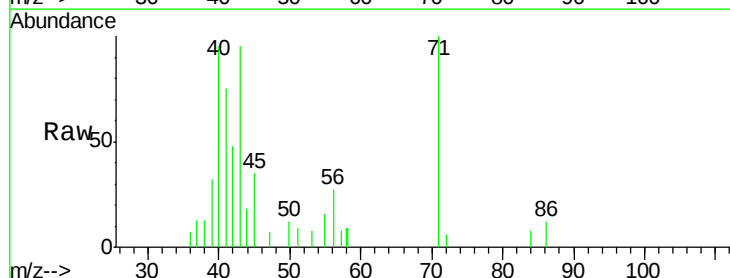
Tgt Ion: 43 Resp: 2292

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

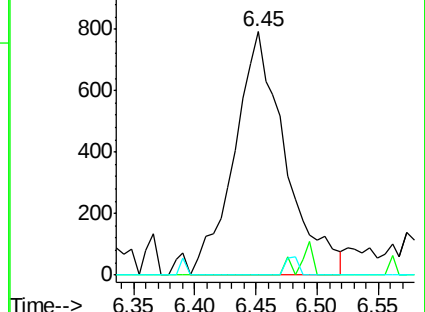
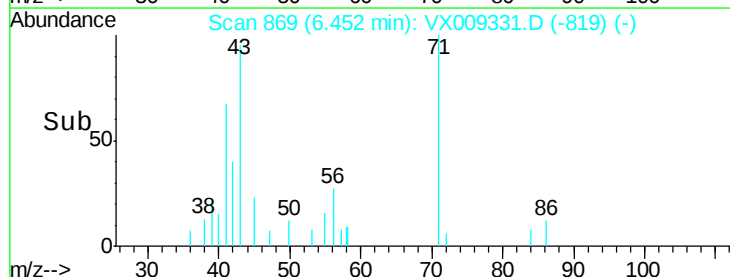
87 0.0 9.0 13.6#

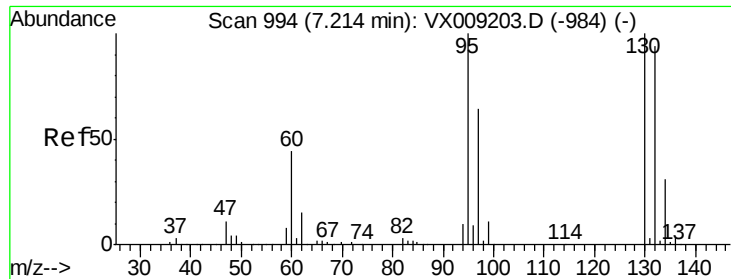


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: 1.206 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

Instrument :

MSVOA_X

ClientSampleId :

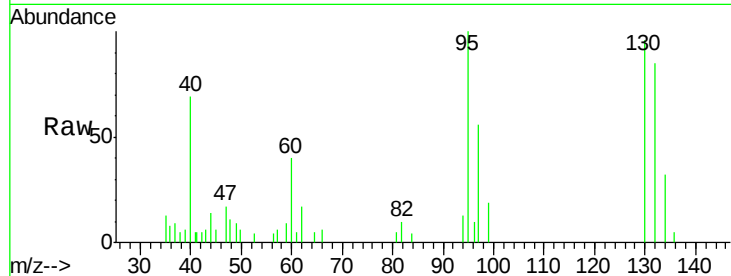
SS050MW513-190430

Tot Ion:130 Resp: 2534

Ion Ratio Lower Upper

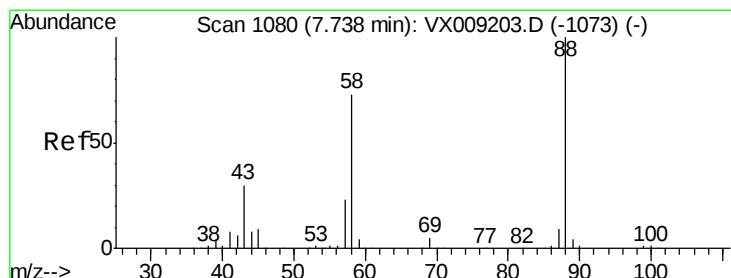
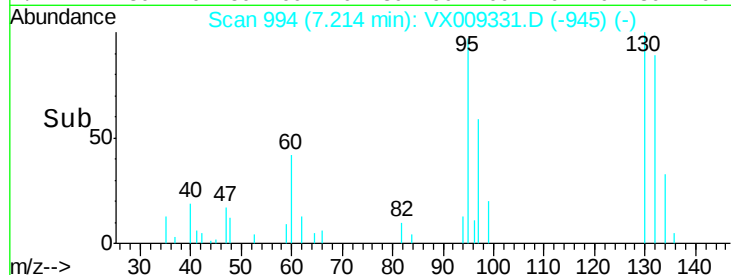
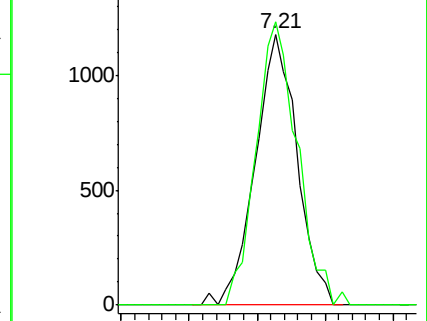
130 100

95 104.4 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.302 ug/l

RT: 7.77 min Scan# 1086

Delta R.T. 0.04 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

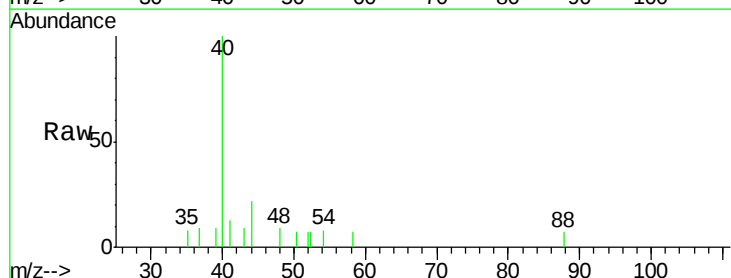
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 557.9 28.6 42.8#

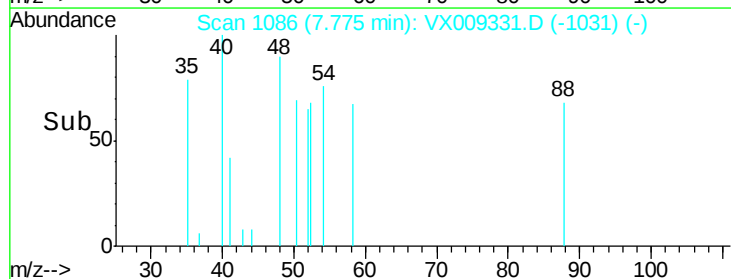
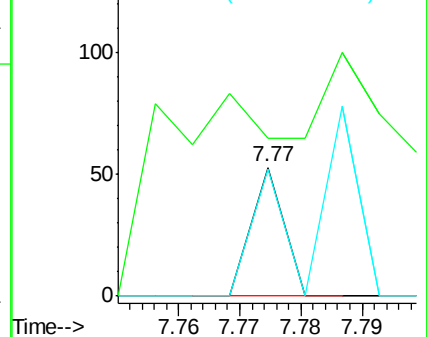
58 0.0 61.7 92.5#

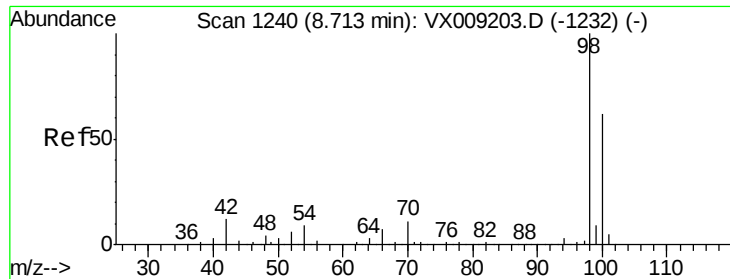


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.911 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

Instrument :

MSVOA_X

ClientSampleId :

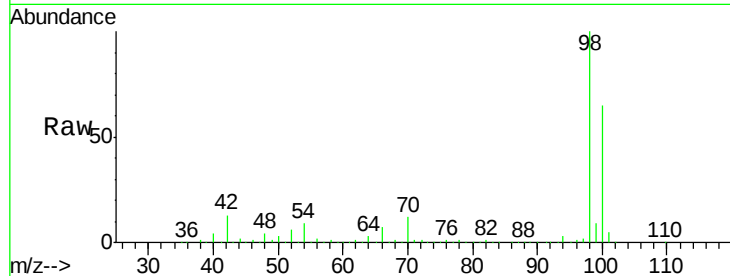
SS050MW513-190430

Tot Ion: 98 Resp: 375252

Ion Ratio Lower Upper

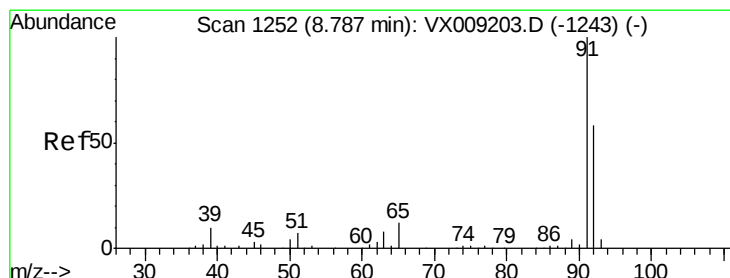
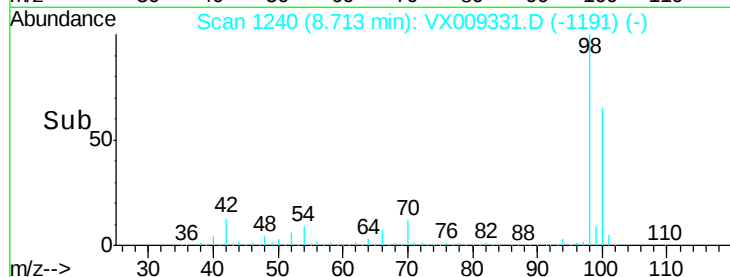
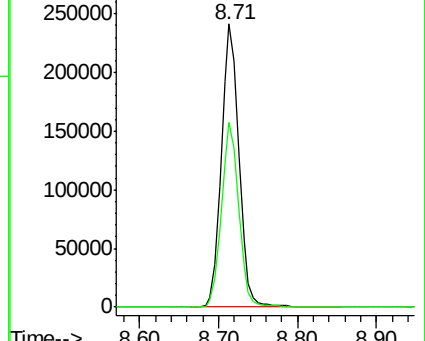
98 100

100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 0.636 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX009331.D

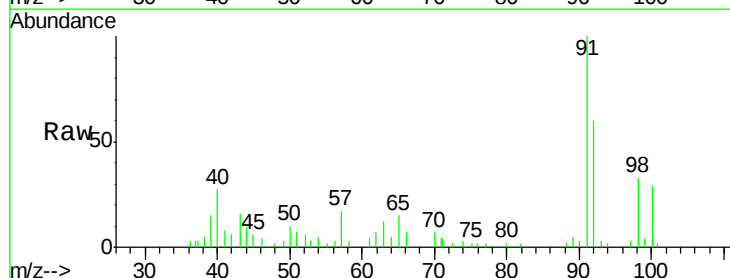
Acq: 03 May 2019 23:40

Tgt Ion: 92 Resp: 3362

Ion Ratio Lower Upper

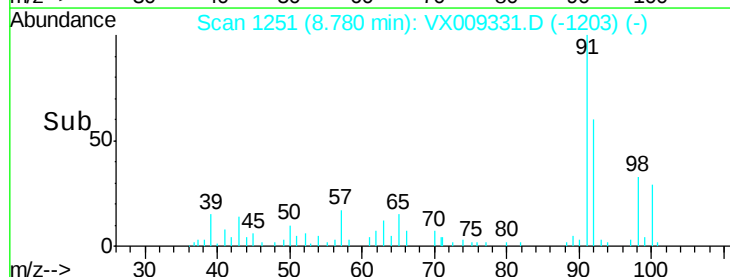
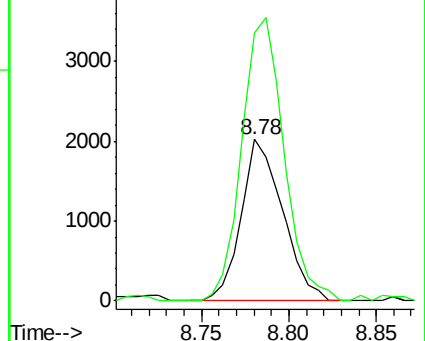
92 100

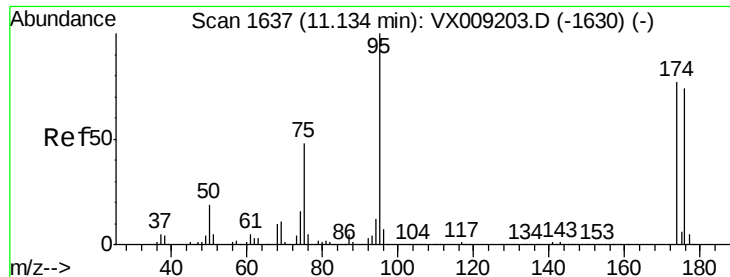
91 177.9 138.8 208.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

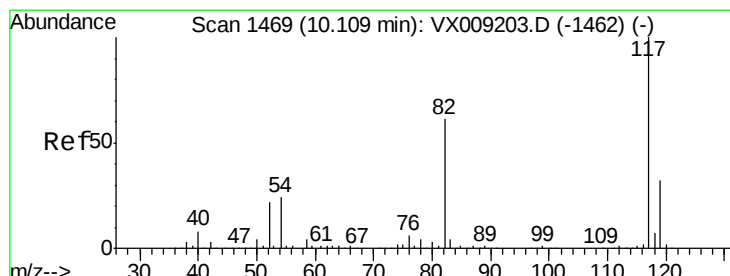
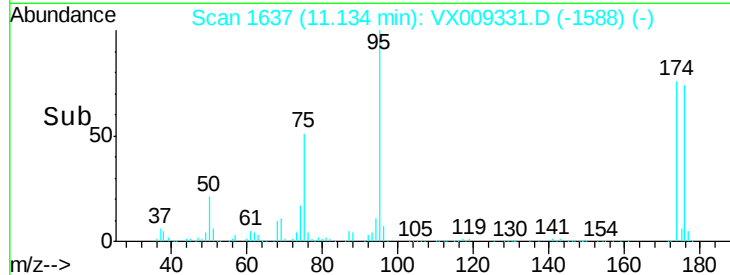
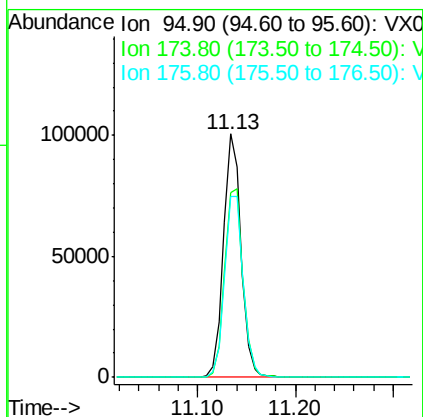
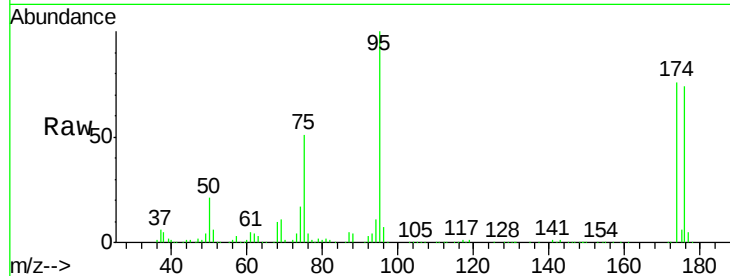




#62
4-Bromofluorobenzene
Concen: 44.902 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009331.D
Acq: 03 May 2019 23:40

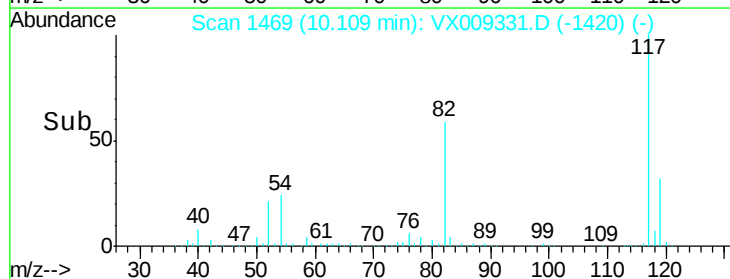
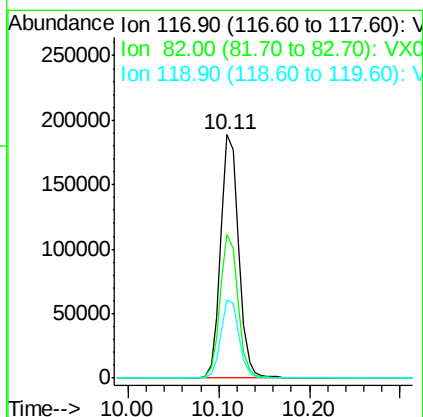
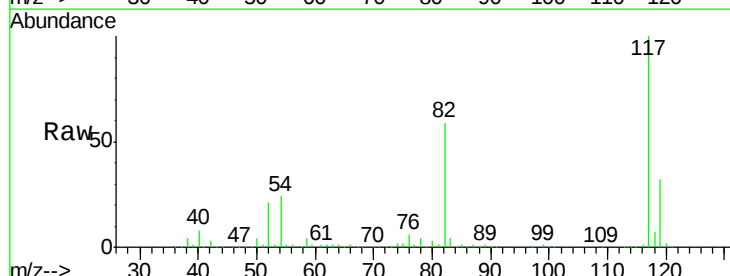
Instrument :
MSVOA_X
ClientSampleId :
SS050MW513-190430

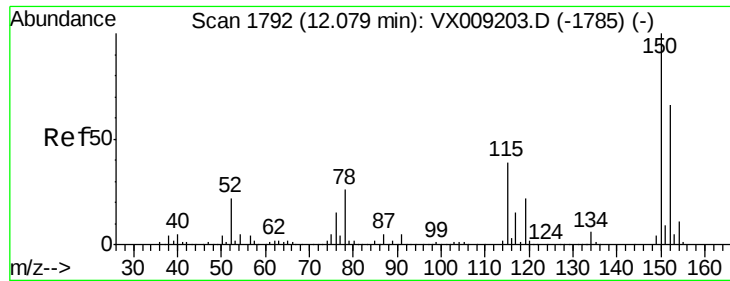
Tot Ion: 95 Resp: 125175
Ion Ratio Lower Upper
95 100
174 81.6 0.0 161.6
176 79.2 0.0 159.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009331.D
Acq: 03 May 2019 23:40

Tgt Ion: 117 Resp: 263089
Ion Ratio Lower Upper
117 100
82 59.3 48.8 73.2
119 32.1 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

Instrument :

MSVOA_X

ClientSampleId :

SS050MW513-190430

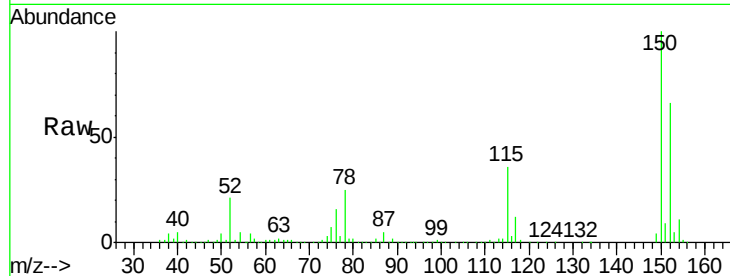
Tot Ion:152 Resp: 116587

Ion Ratio Lower Upper

152 100

115 58.5 41.2 123.6

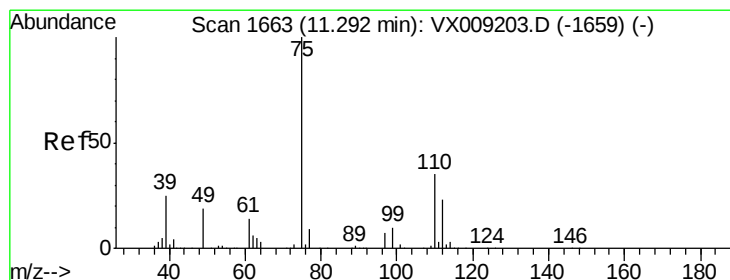
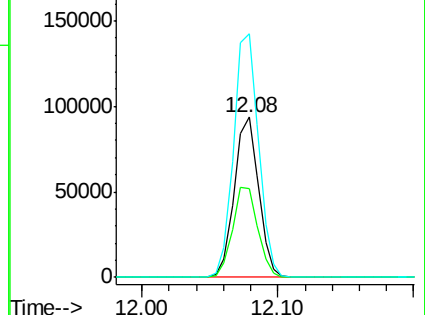
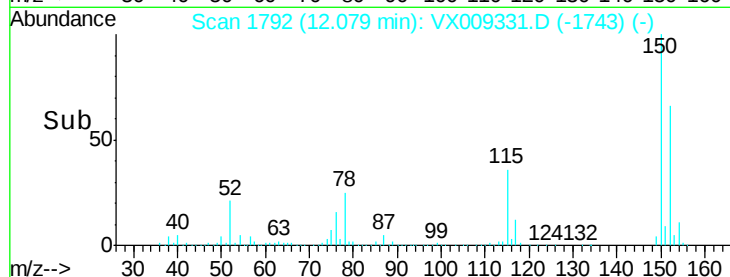
150 156.7 0.0 346.4



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: 23.644 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009331.D

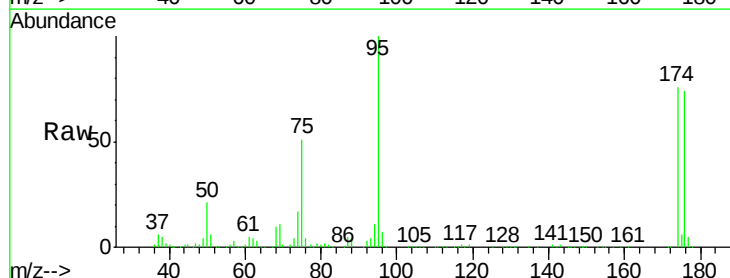
Acq: 03 May 2019 23:40

Tgt Ion: 75 Resp: 63942

Ion Ratio Lower Upper

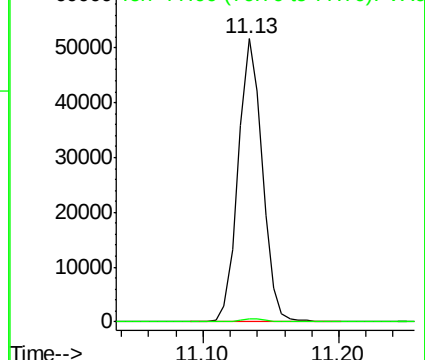
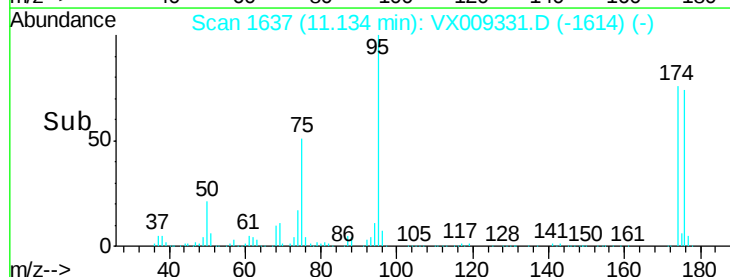
75 100

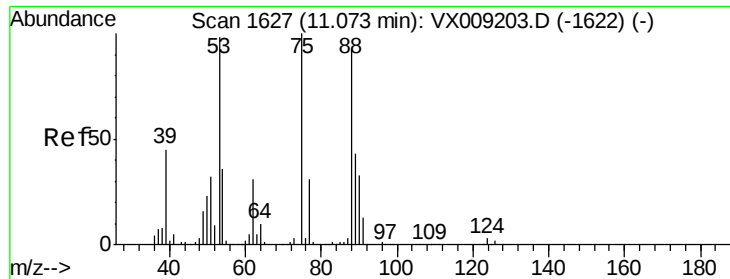
77 1.3 22.1 66.1#



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: 60.496 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009331.D

Acq: 03 May 2019 23:40

Instrument :

MSVOA_X

ClientSampleId :

SS050MW513-190430

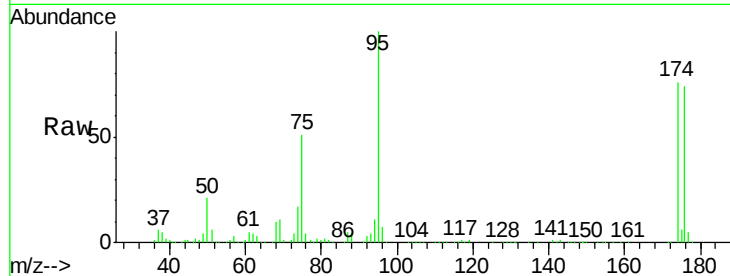
Tot Ion: 75 Resp: 63942

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

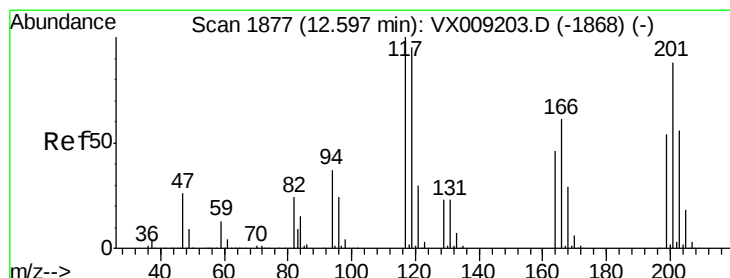
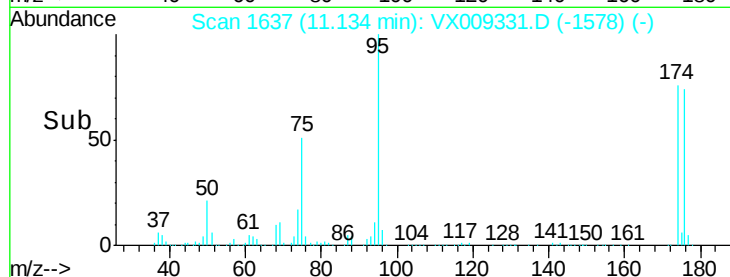
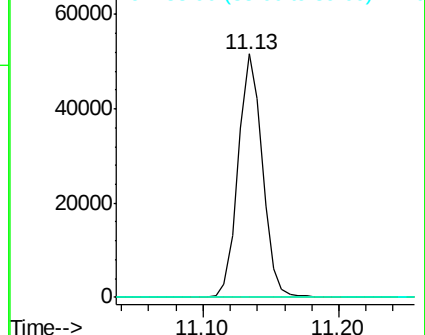
89 0.0 34.7 52.1#



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



#90

Hexachloroethane

Concen: 0.245 ug/l

RT: 12.37 min Scan# 1839

Delta R.T. -0.23 min

Lab File: VX009331.D

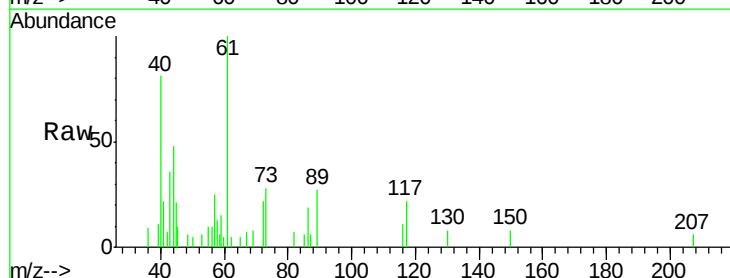
Acq: 03 May 2019 23:40

Tgt Ion: 117 Resp: 309

Ion Ratio Lower Upper

117 100

201 0.0 42.3 126.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

