

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005499.D
 Acq On : 23 Oct 2018 05:00
 Operator : JC/MD
 Sample : J5621-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TWP-01

Quant Time: Oct 23 07:39:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	221808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	327245	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	294343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	142687	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	139886	56.82	ug/l	-0.01
Spiked Amount			Recovery	=	113.64%	
35) Dibromofluoromethane	5.50	113	110015	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
50) Toluene-d8	8.72	98	405485	54.49	ug/l	0.00
Spiked Amount			Recovery	=	108.98%	
62) 4-Bromofluorobenzene	11.14	95	136892	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	139	0.680	ug/l #	59
6) Chloroethane	1.70	64	1745	1.384	ug/l #	44
10) Methyl Iodide	2.51	142	71	2.520	ug/l #	41
11) Tert butyl alcohol	3.06	59	294	0.423	ug/l #	72
13) Acrolein	2.29	56	178	Below Cal	#	63
14) Allyl chloride	2.61	41	6768	1.587	ug/l #	63
16) Acetone	2.45	43	9022	6.339	ug/l	89
17) Carbon Disulfide	2.57	76	2754	0.468	ug/l	99
18) Methyl Acetate	2.78	43	905	0.223	ug/l	93
19) Methyl tert-butyl Ether	3.20	73	7232	1.057	ug/l	99
20) Methylene Chloride	2.87	84	1098	Below Cal	#	60
25) 2-Butanone	4.71	43	1767	0.848	ug/l #	81
31) Cyclohexane	5.66	56	4081	1.206	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15094	4.762	ug/l #	49
38) Carbon Tetrachloride	5.67	117	19986	6.276	ug/l #	16
55) 1,1,2-Trichloroethane	9.16	97	1671	0.758	ug/l #	27
59) 2-Hexanone	9.64	43	45019	14.887	ug/l #	25
67) Ethyl Benzene	10.25	91	138976	13.654	ug/l	95
68) m/p-Xylenes	10.36	106	356516	90.244	ug/l	93
69) o-Xylene	10.70	106	129775	34.061	ug/l	96
70) Styrene	10.70	104	7088	1.131	ug/l #	1
73) Isopropylbenzene	11.02	105	2149	0.253	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	68656	24.806	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	68656	75.372	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	2809	0.376	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

Instrument :

MSVOA_X

ClientSampleId :

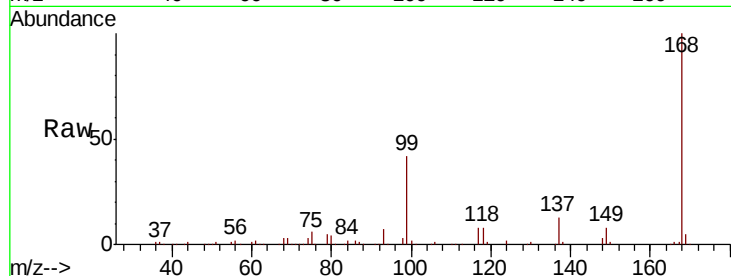
SA-TWP-01

Tot Ion:168 Resp: 221808

Ion Ratio Lower Upper

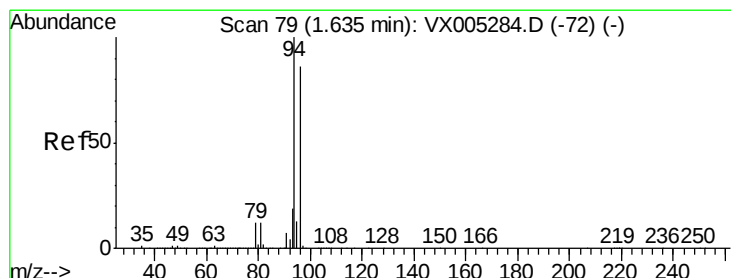
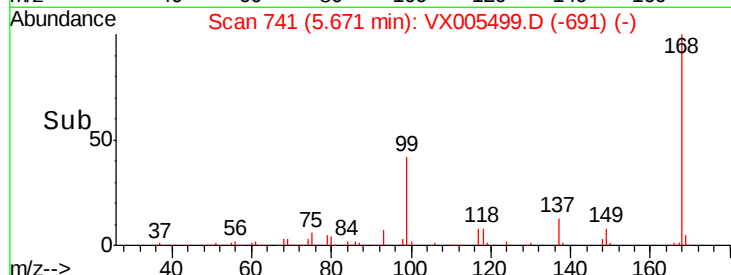
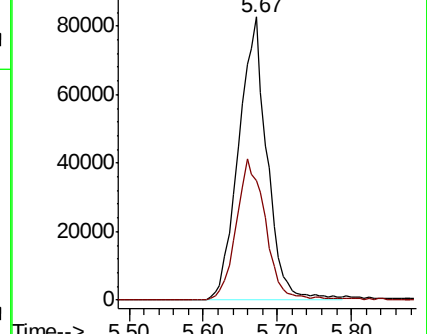
168 100

99 42.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.680 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005499.D

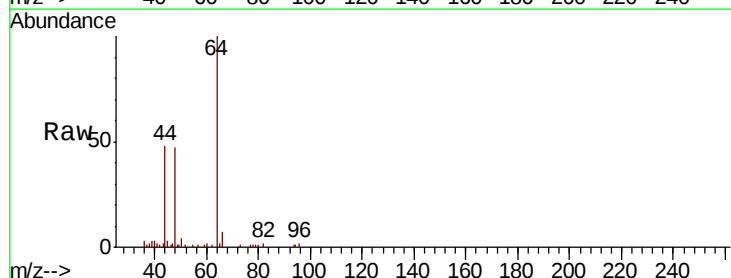
Acq: 23 Oct 2018 05:00

Tgt Ion: 94 Resp: 139

Ion Ratio Lower Upper

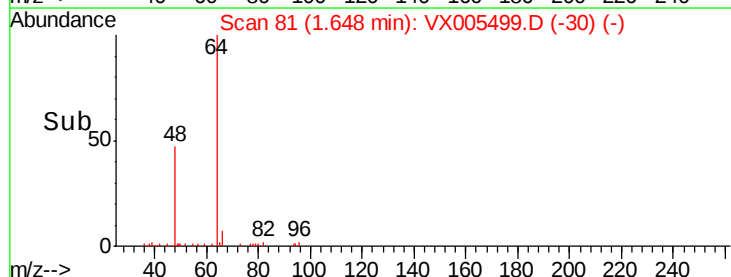
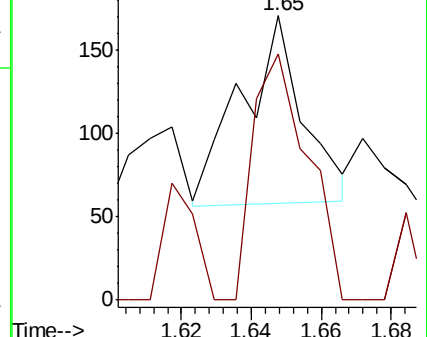
94 100

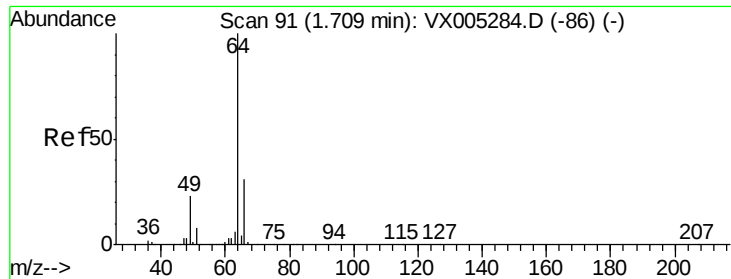
96 132.1 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.384 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

Instrument :

MSVOA_X

ClientSampleId :

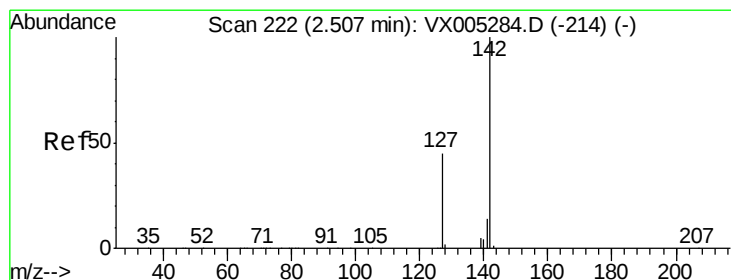
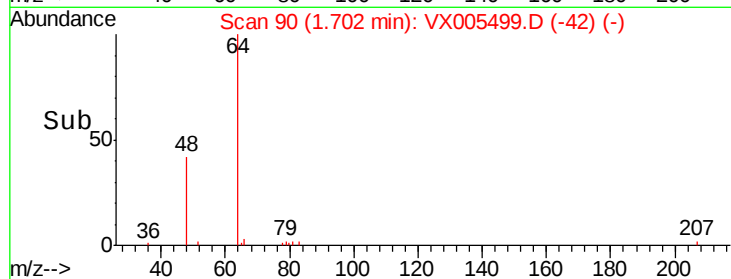
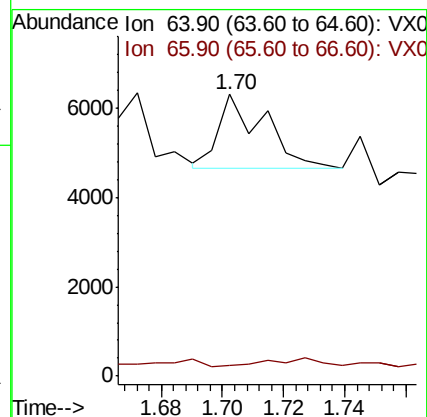
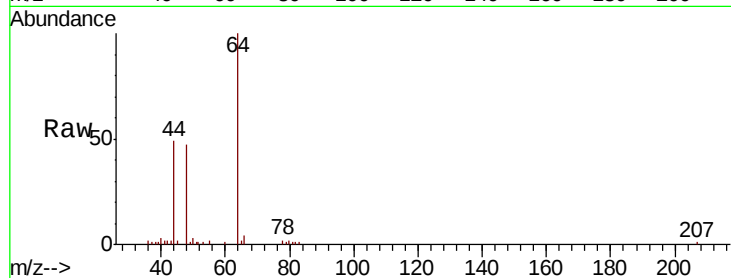
SA-TWP-01

Tot Ion: 64 Resp: 1745

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



#10

Methyl Iodide

Concen: 2.520 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

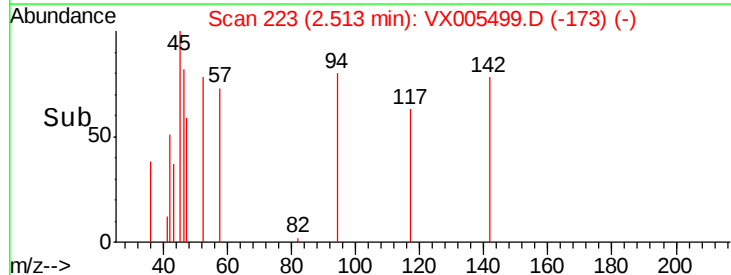
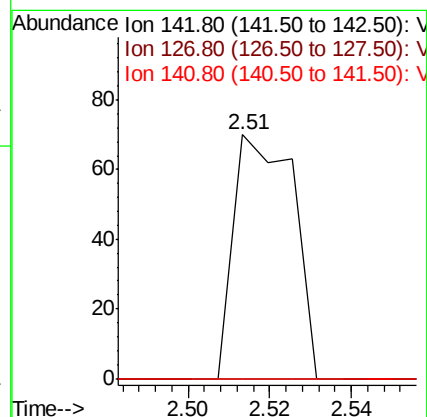
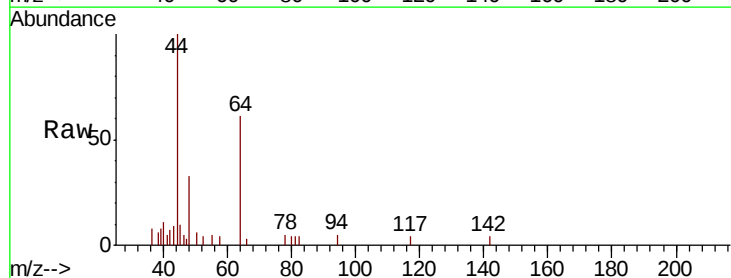
Tgt Ion: 142 Resp: 71

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

141 0.0 11.4 17.0#

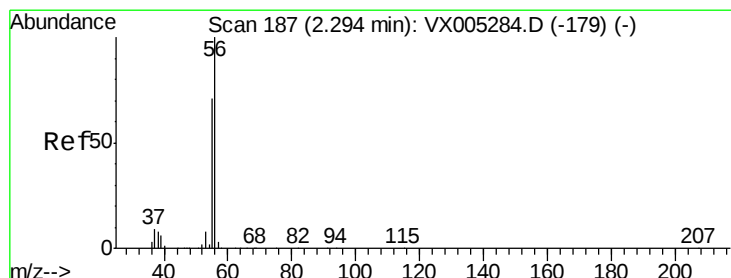
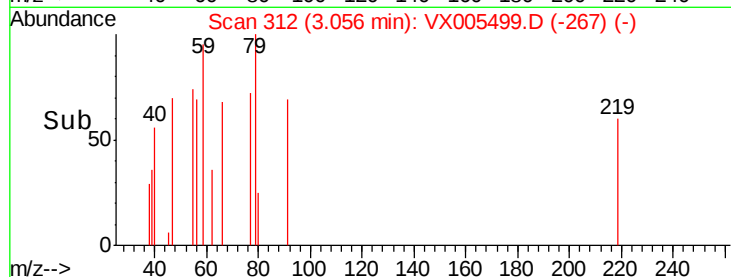
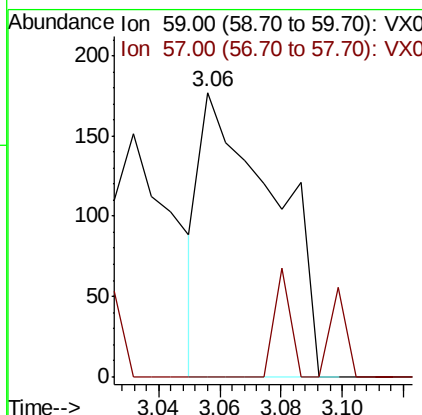
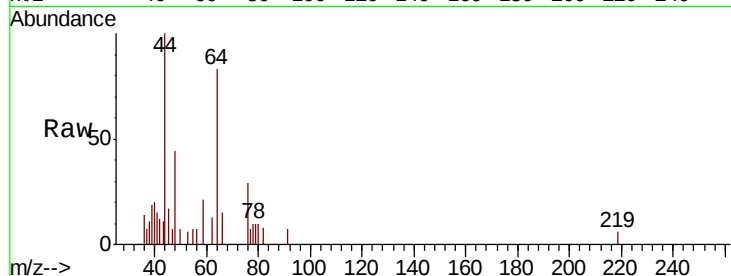




#11
Tert butyl alcohol
Concen: 0.423 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

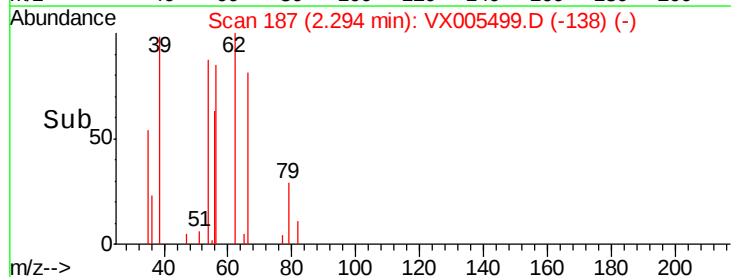
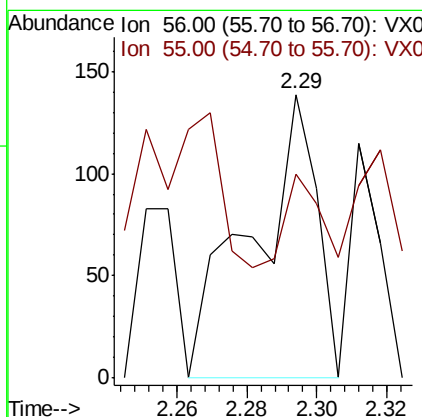
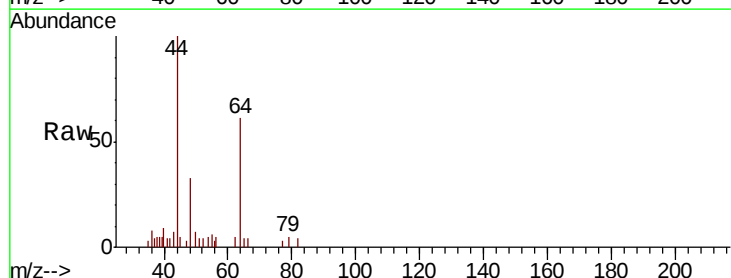
Instrument :
MSVOA_X
ClientSampled :
SA-TWP-01

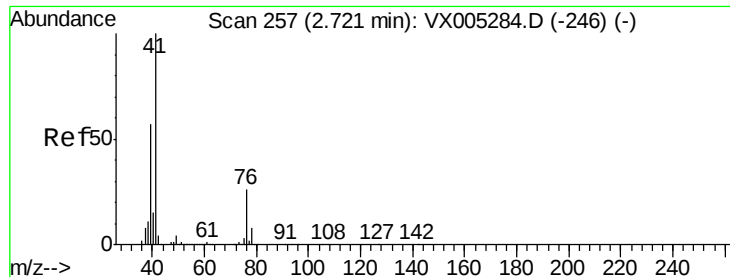
Tot Ion: 59 Resp: 294
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

Tgt Ion: 56 Resp: 178
Ion Ratio Lower Upper
56 100
55 38.2 54.7 82.1#





#14

Allvl chloride

Concen: 1.587 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.11 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

Instrument :

MSVOA_X

ClientSampleId :

SA-TWP-01

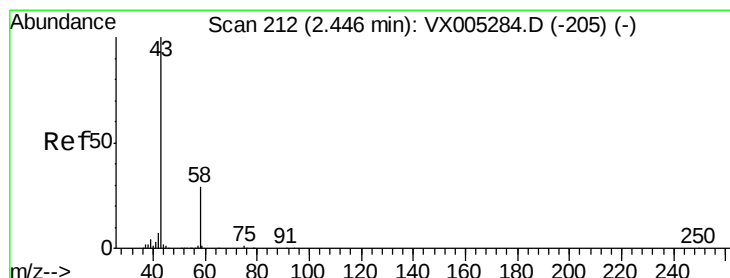
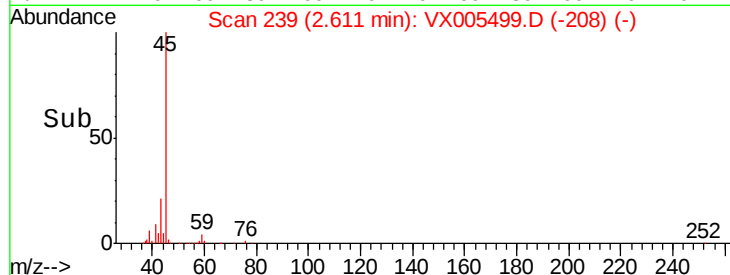
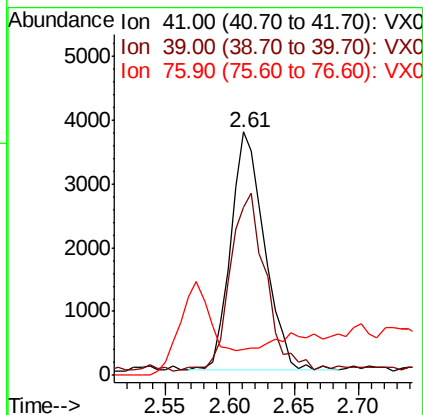
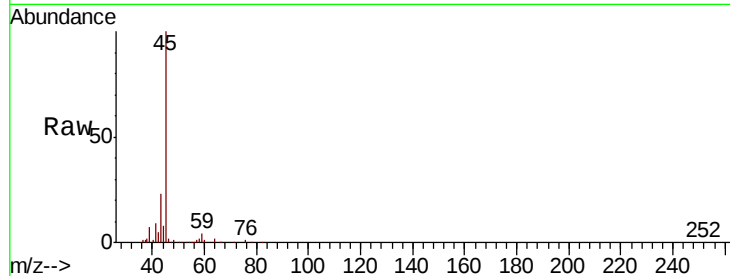
Tot Ion: 41 Resp: 6768

Ion Ratio Lower Upper

41 100

39 79.8 48.9 73.3#

76 0.0 26.7 40.1#



#16

Acetone

Concen: 6.339 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005499.D

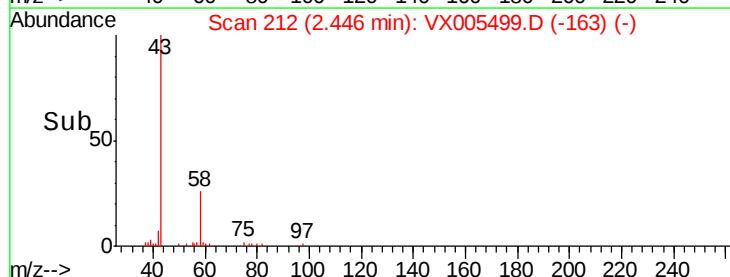
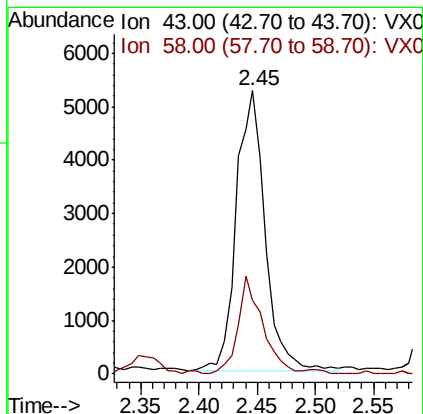
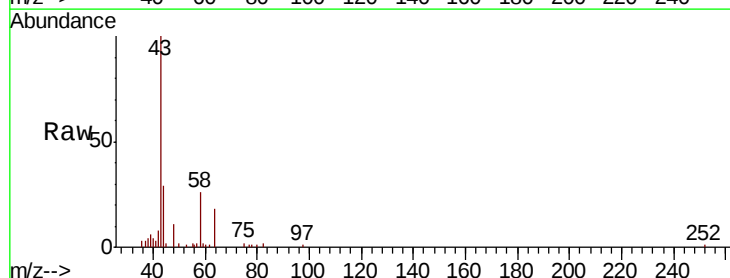
Acq: 23 Oct 2018 05:00

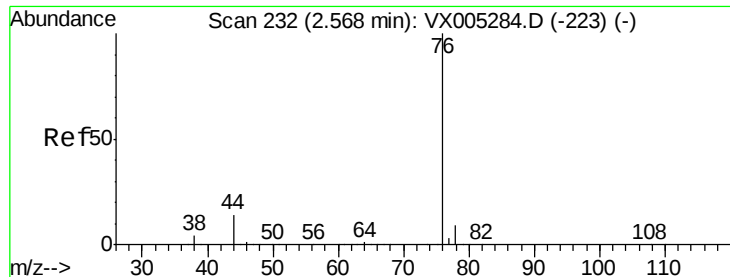
Tgt Ion: 43 Resp: 9022

Ion Ratio Lower Upper

43 100

58 26.4 26.2 39.4

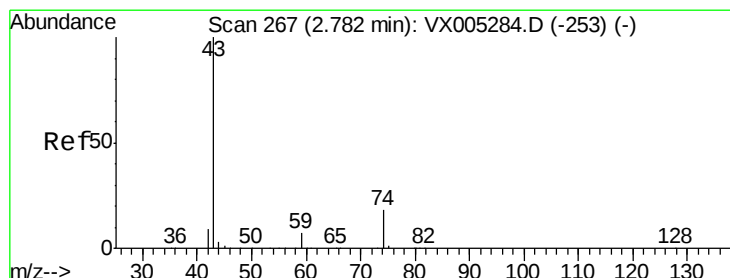
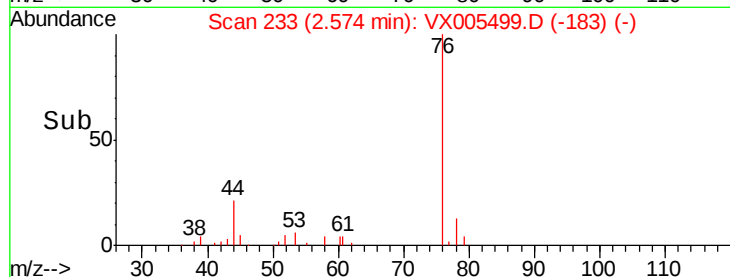
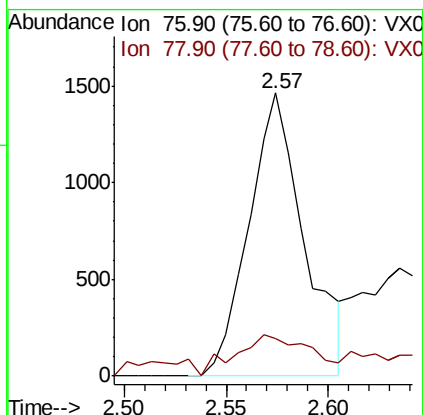
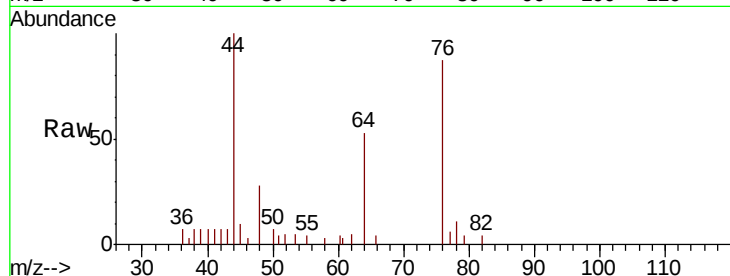




#17
Carbon Disulfide
Concen: 0.468 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

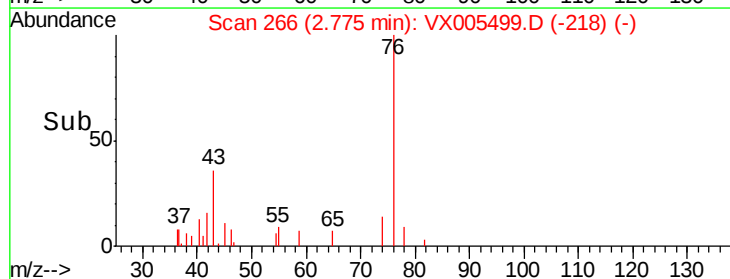
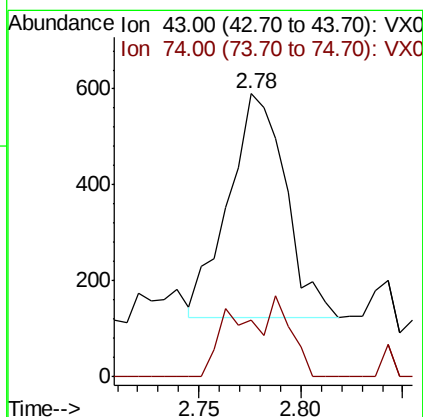
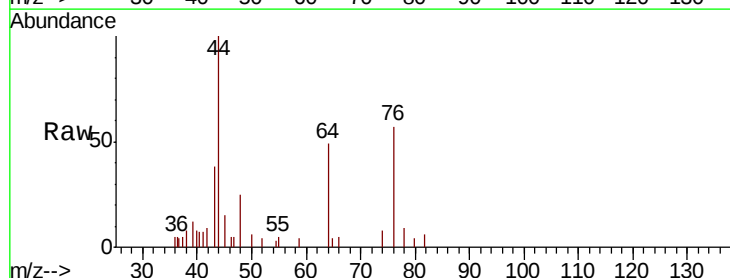
Instrument :
MSVOA_X
ClientSampled :
SA-TWP-01

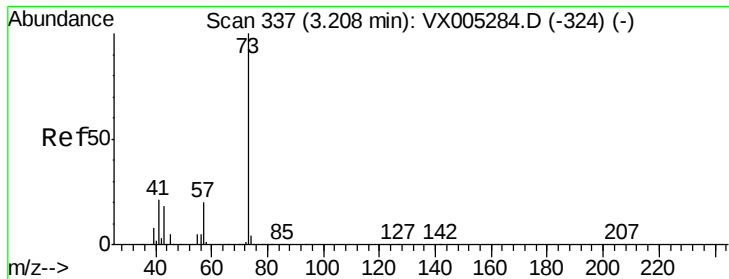
Tot Ion: 76 Resp: 2754
Ion Ratio Lower Upper
76 100
78 8.3 7.0 10.6



#18
Methyl Acetate
Concen: 0.223 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

Tgt Ion: 43 Resp: 905
Ion Ratio Lower Upper
43 100
74 20.7 19.4 29.2



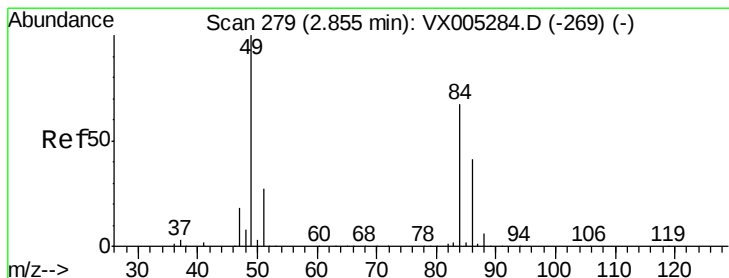
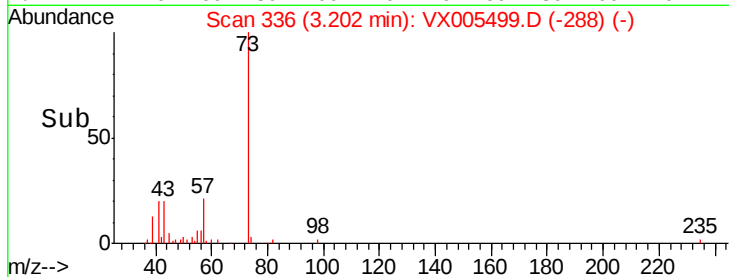
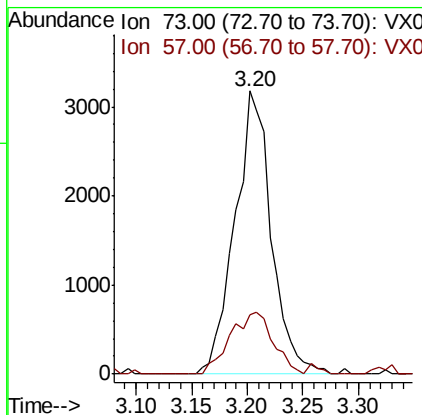
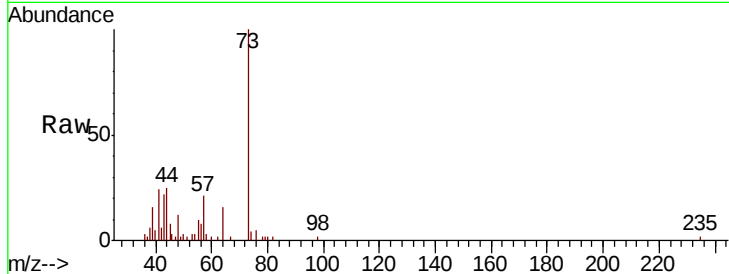


#19

Methyl tert-butyl Ether
 Concen: 1.057 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. -0.01 min
 Lab File: VX005499.D
 Acq: 23 Oct 2018 05:00

Instrument :
 MSVOA_X
 ClientSampleID :
 SA-TWP-01

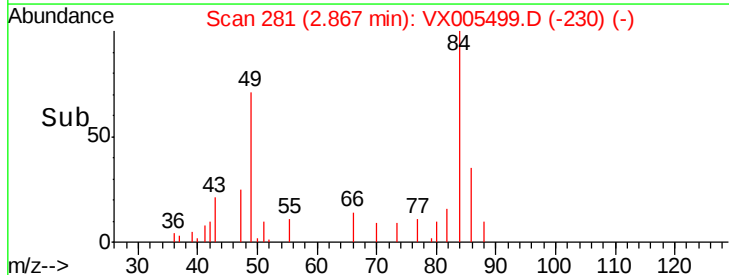
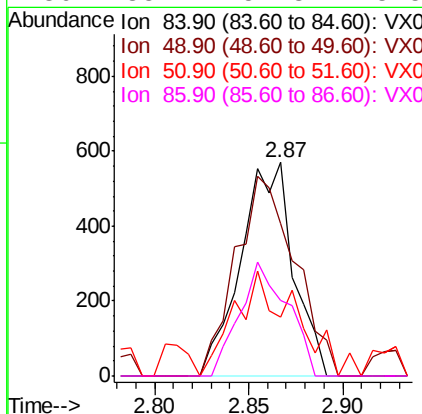
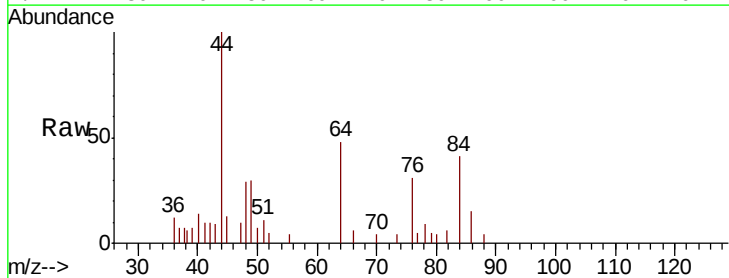
Tot Ion: 73 Resp: 7232
 Ion Ratio Lower Upper
 73 100
 57 20.8 17.1 25.7

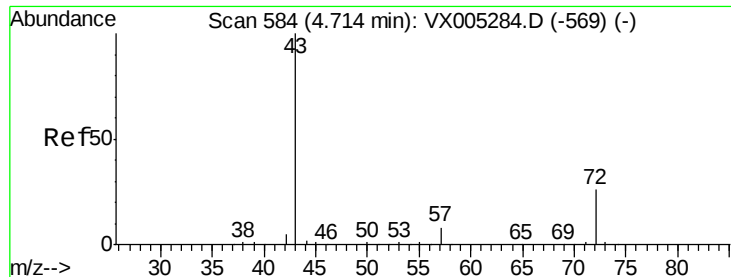


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.87 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX005499.D
 Acq: 23 Oct 2018 05:00

Tgt Ion: 84 Resp: 1098
 Ion Ratio Lower Upper
 84 100
 49 71.2 101.2 151.8#
 51 27.4 29.5 44.3#
 86 35.4 52.3 78.5#





#25

2-Butanone

Concen: 0.848 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

Instrument :

MSVOA_X

ClientSampled :

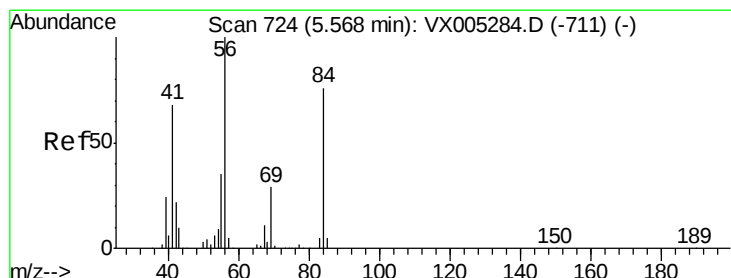
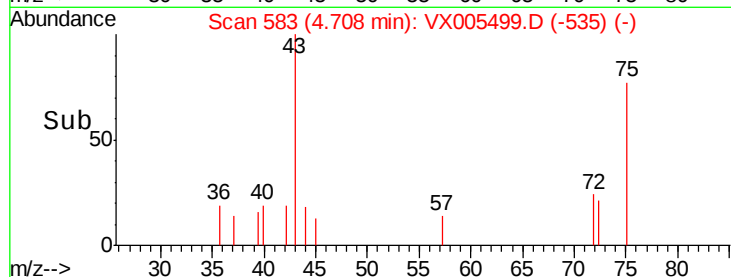
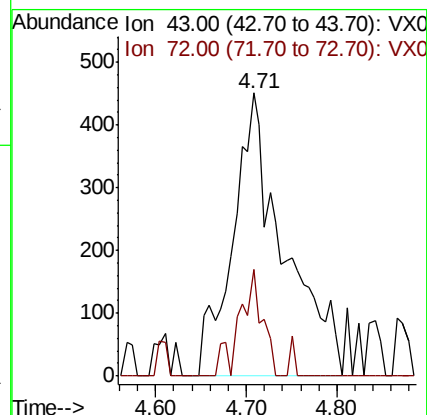
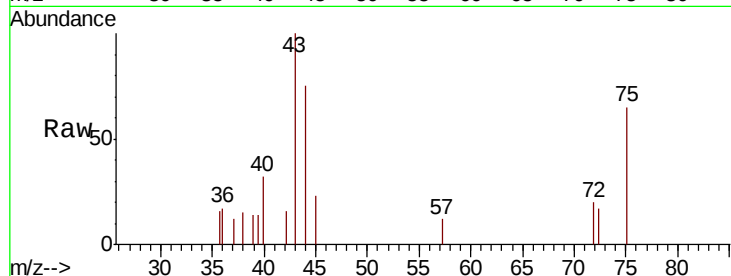
SA-TWP-01

Tot Ion: 43 Resp: 1767

Ion Ratio Lower Upper

43 100

72 37.5 22.0 33.0#



#31

Cyclohexane

Concen: 1.206 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

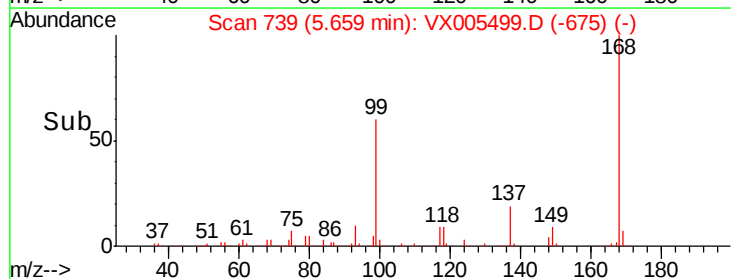
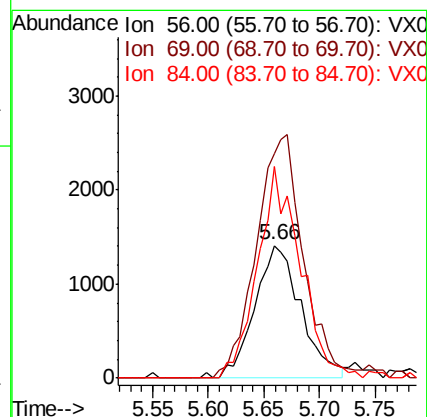
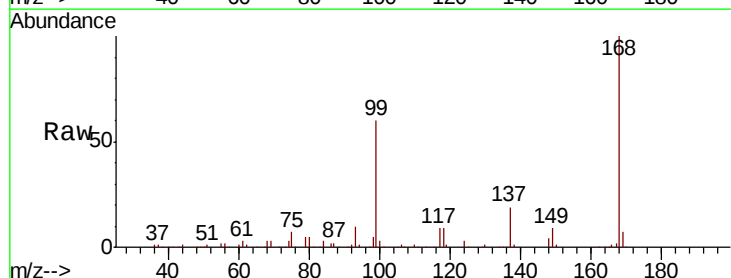
Tgt Ion: 56 Resp: 4081

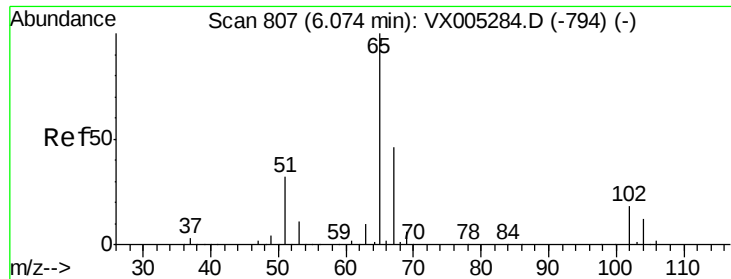
Ion Ratio Lower Upper

56 100

69 169.1 25.4 38.2#

84 159.9 71.4 107.2#

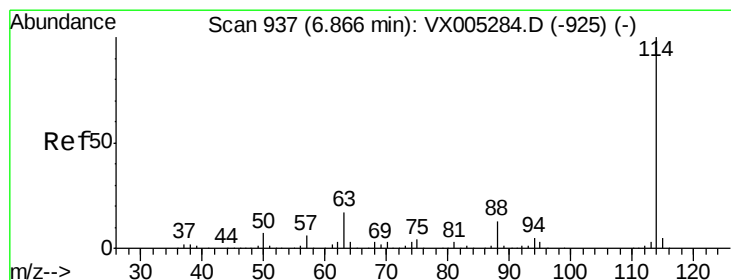
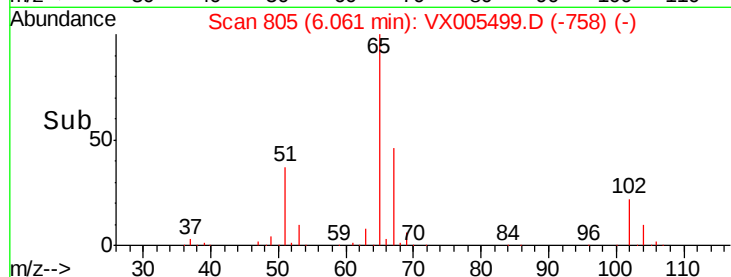
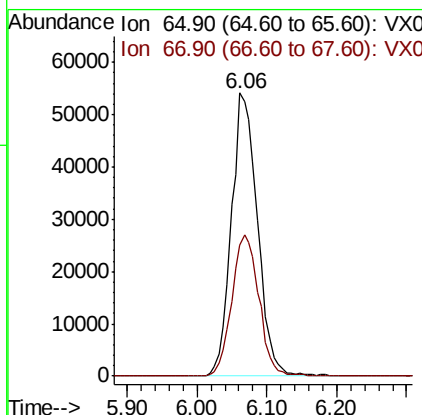
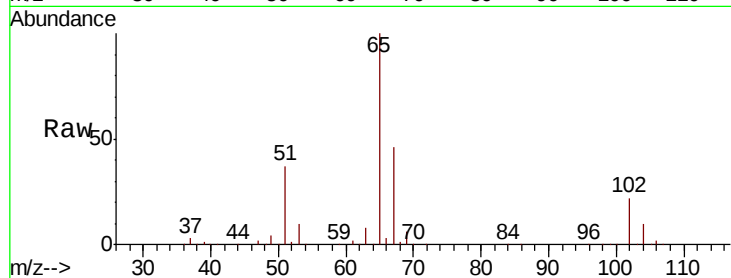




#33
 1,2-Dichloroethane-d4
 Concen: 56.824 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX005499.D
 Acq: 23 Oct 2018 05:00

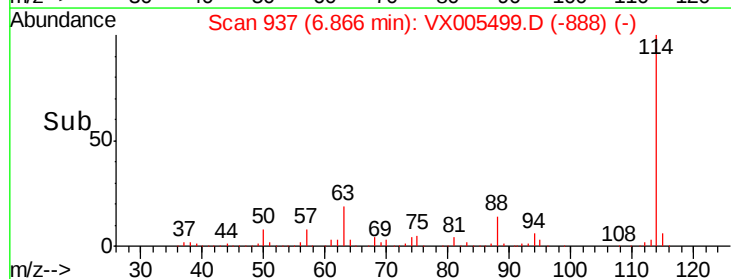
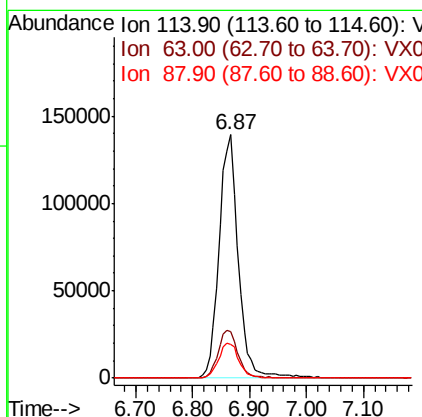
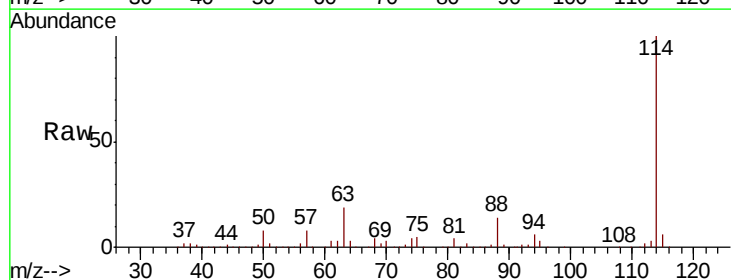
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TWP-01

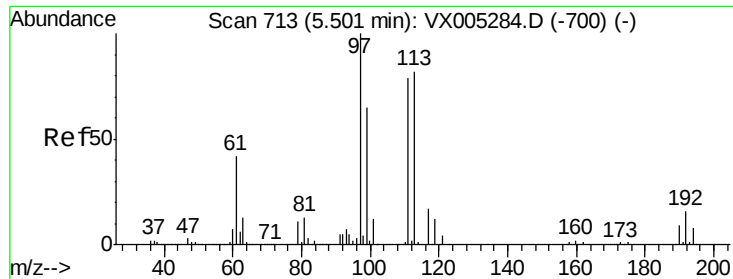
Tot Ion: 65 Resp: 139886
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. -0.00 min
 Lab File: VX005499.D
 Acq: 23 Oct 2018 05:00

Tgt Ion: 114 Resp: 327245
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.0
 88 13.8 0.0 30.4

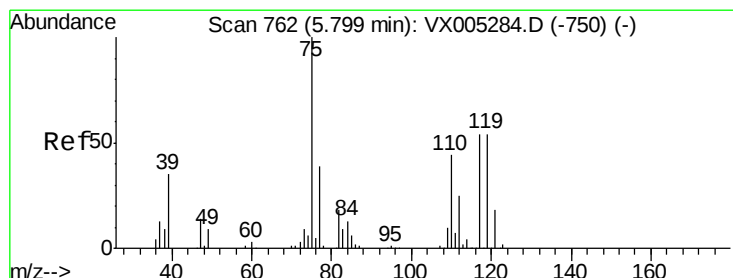
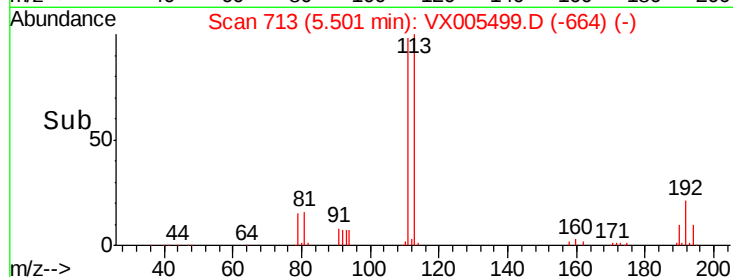
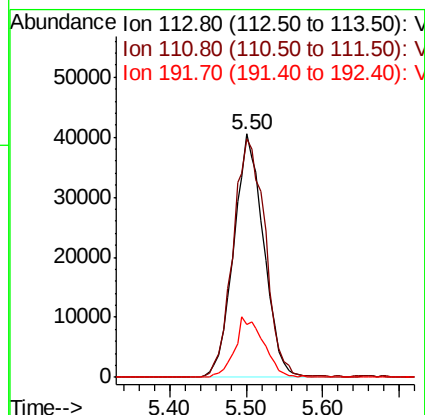
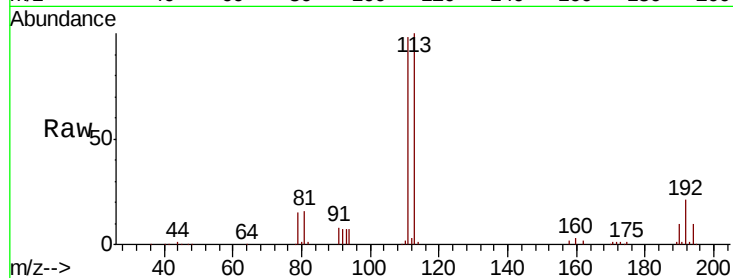




#35
 Dibromofluoromethane
 Concen: 50.758 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005499.D
 Acq: 23 Oct 2018 05:00

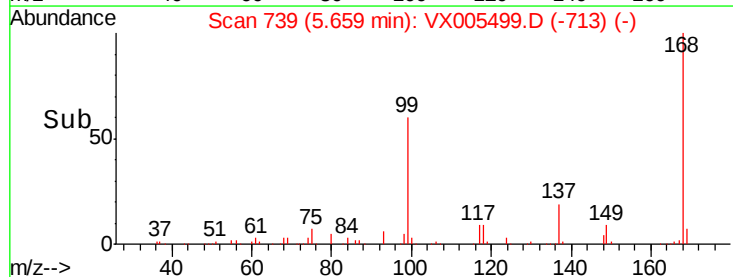
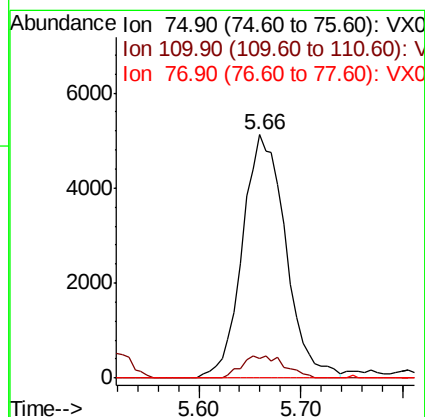
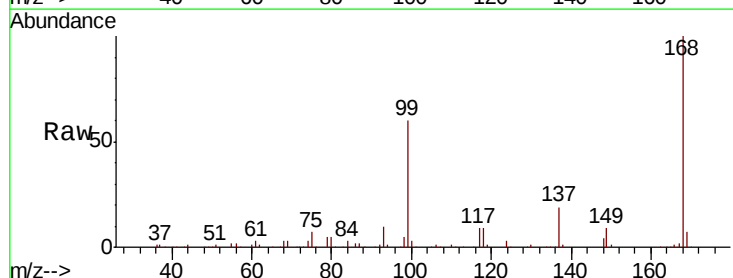
Instrument :
 MSVOA_X
 ClientSampled :
 SA-TWP-01

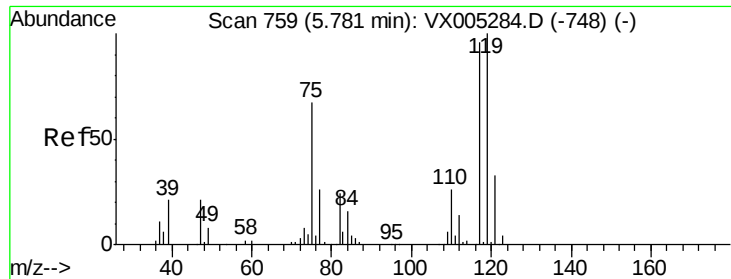
Tot Ion:113 Resp: 110015
 Ion Ratio Lower Upper
 113 100
 111 105.4 82.4 123.6
 192 23.9 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.762 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005499.D
 Acq: 23 Oct 2018 05:00

Tgt Ion: 75 Resp: 15094
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.0 54.0#
 77 0.0 24.6 36.8#

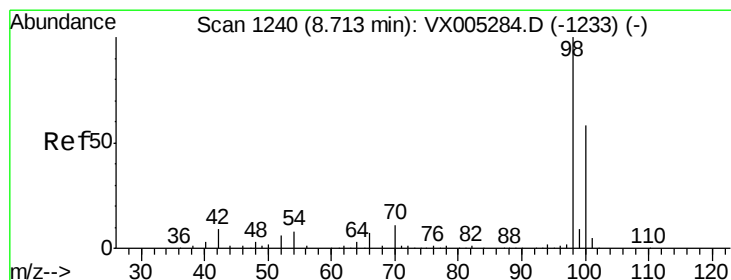
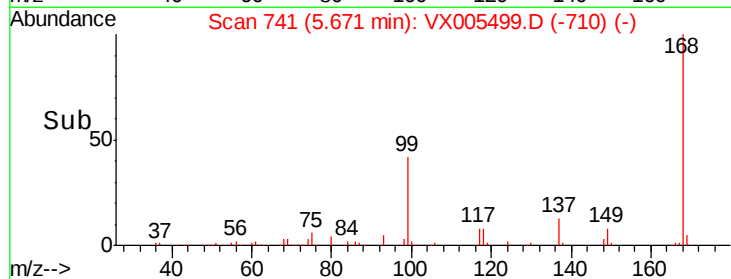
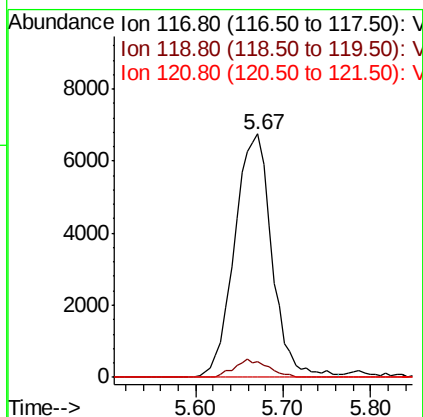
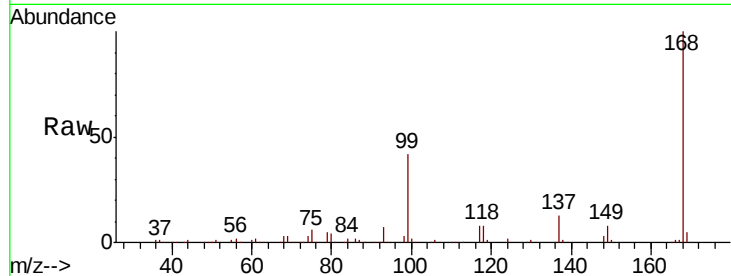




#38
Carbon Tetrachloride
Concen: 6.276 ug/l
RT: 5.67 min Scan# 741
Delta R.T. -0.11 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

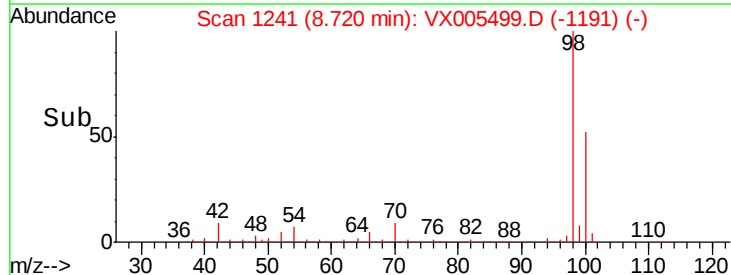
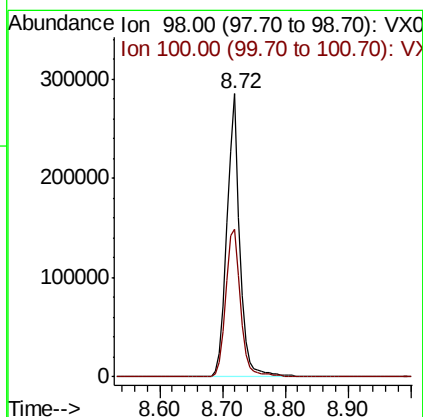
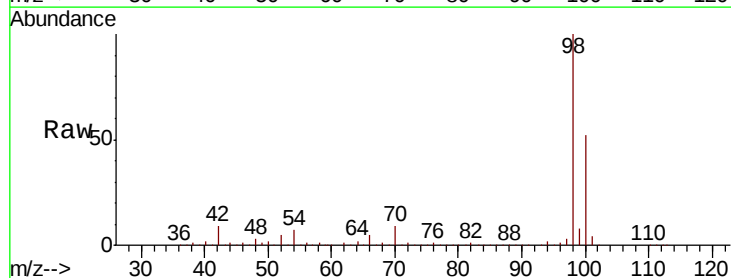
Instrument :
MSVOA_X
ClientSampled :
SA-TWP-01

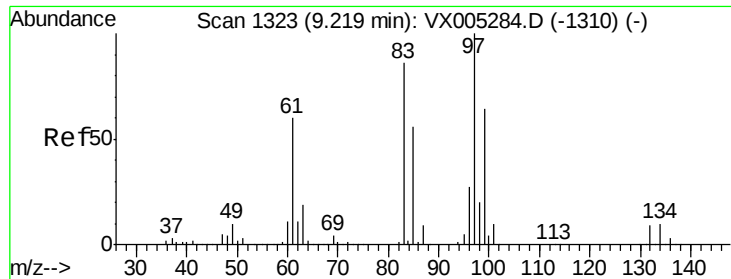
Tot Ion:117 Resp: 19986
Ion Ratio Lower Upper
117 100
119 6.7 78.8 118.2#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 54.494 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

Tgt Ion: 98 Resp: 405485
Ion Ratio Lower Upper
98 100
100 60.5 52.9 79.3

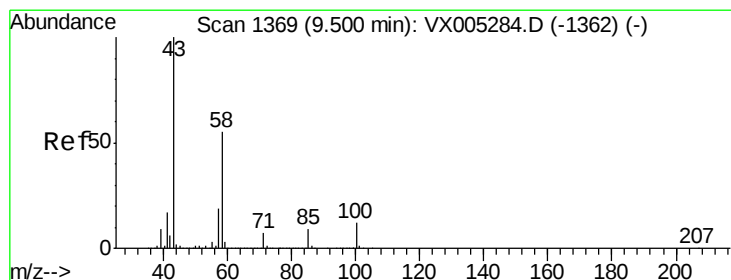
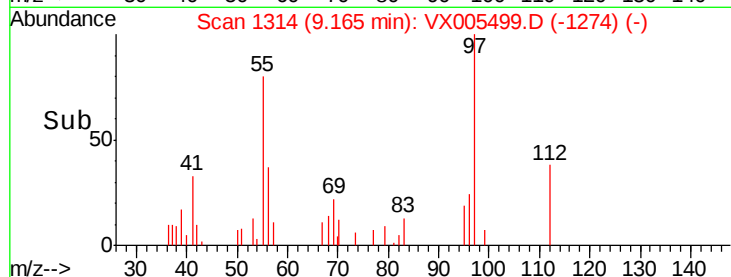
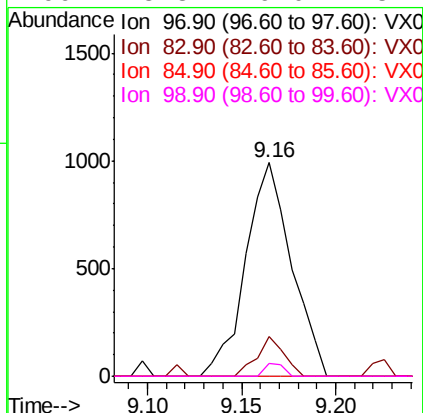
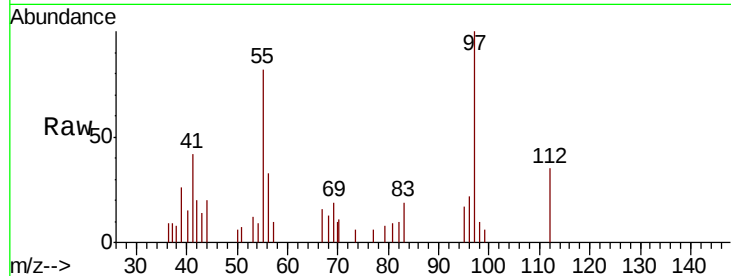




#55
 1,1,2-Trichloroethane
 Concen: 0.758 ug/l
 RT: 9.16 min Scan# 1314
 Delta R.T. -0.05 min
 Lab File: VX005499.D
 Acq: 23 Oct 2018 05:00

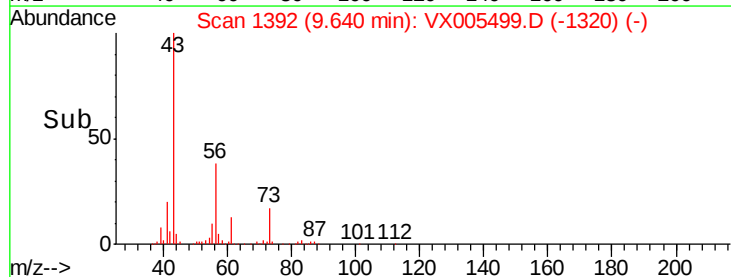
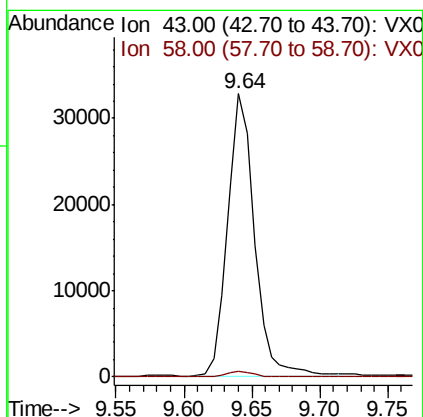
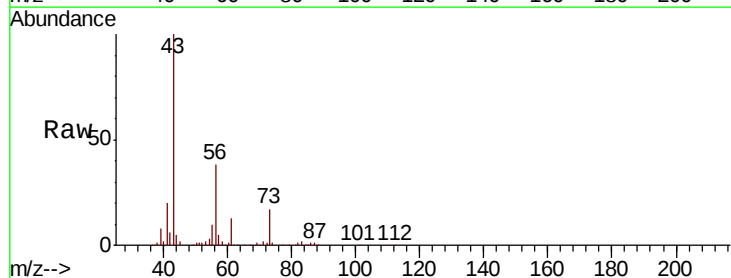
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TWP-01

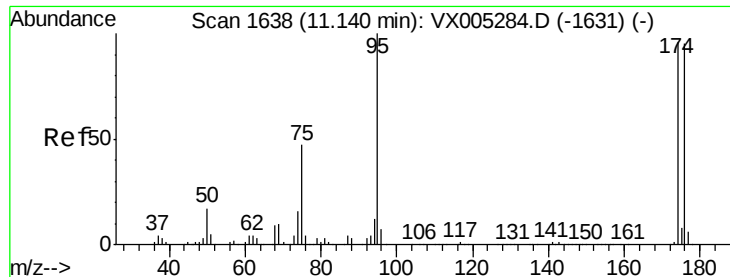
Tot Ion: 97 Resp: 1671
 Ion Ratio Lower Upper
 97 100
 83 18.6 66.4 99.6#
 85 0.0 43.3 64.9#
 99 5.8 49.0 73.4#



#59
 2-Hexanone
 Concen: 14.887 ug/l
 RT: 9.64 min Scan# 1392
 Delta R.T. 0.14 min
 Lab File: VX005499.D
 Acq: 23 Oct 2018 05:00

Tgt Ion: 43 Resp: 45019
 Ion Ratio Lower Upper
 43 100
 58 2.0 29.0 87.0#





#62

4-Bromofluorobenzene

Concen: 48.972 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

Instrument :

MSVOA_X

ClientSampled :

SA-TWP-01

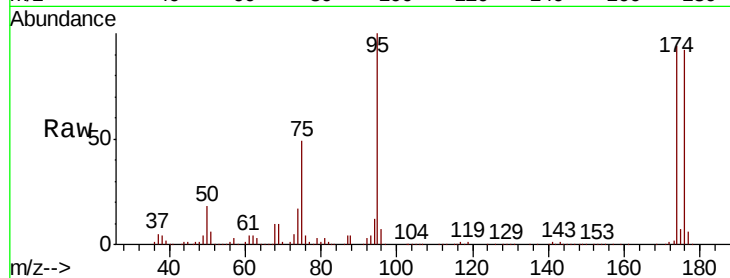
Tot Ion: 95 Resp: 136892

Ion Ratio Lower Upper

95 100

174 92.5 0.0 185.2

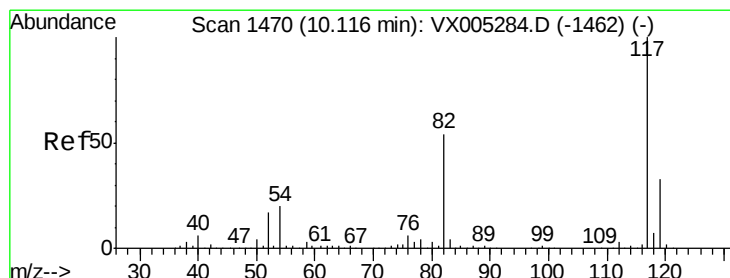
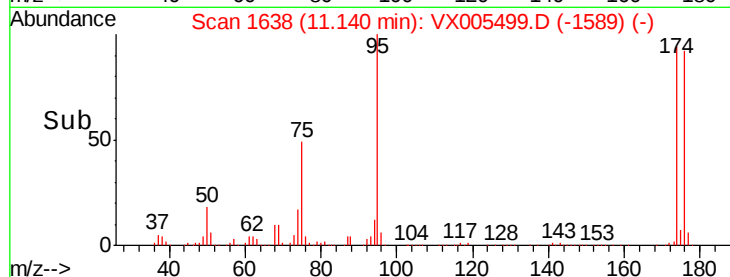
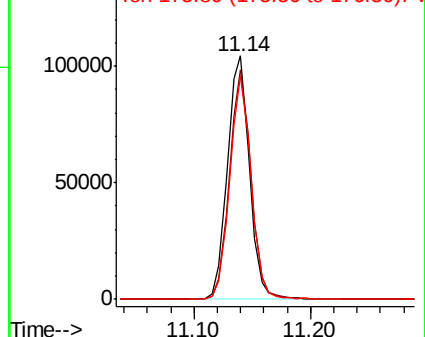
176 89.1 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005284.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005284.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005284.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

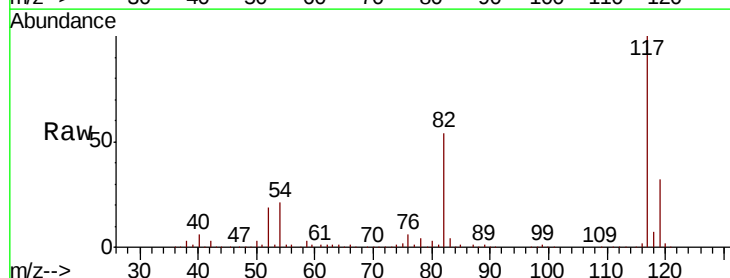
Tgt Ion: 117 Resp: 294343

Ion Ratio Lower Upper

117 100

82 54.4 47.8 71.6

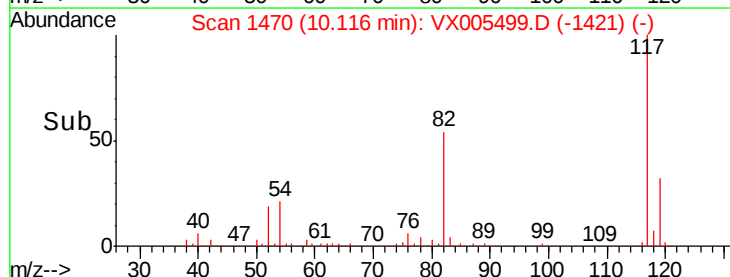
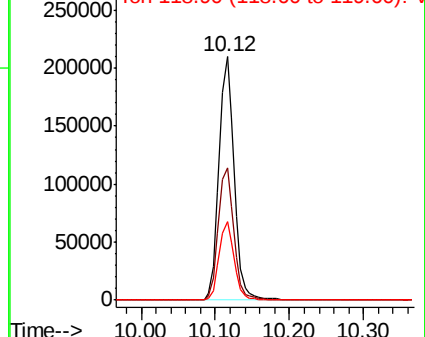
119 32.3 29.3 43.9

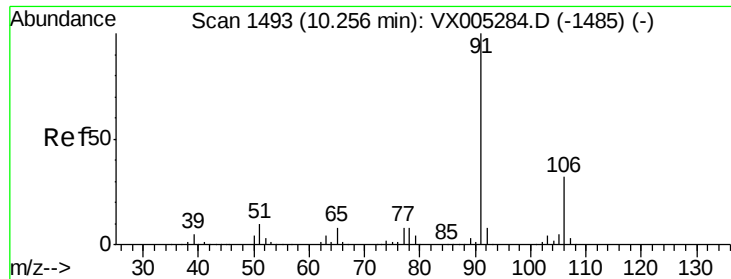


Abundance Ion 116.90 (116.60 to 117.60): VX005284.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005284.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005284.D (-1462) (-)

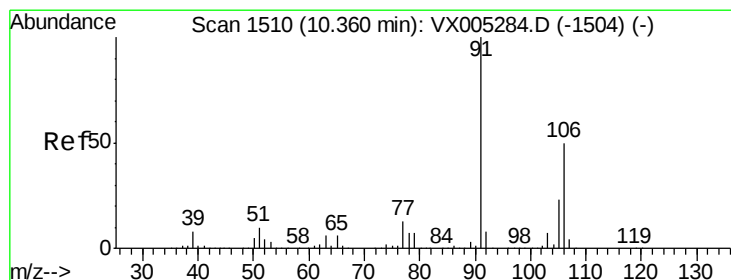
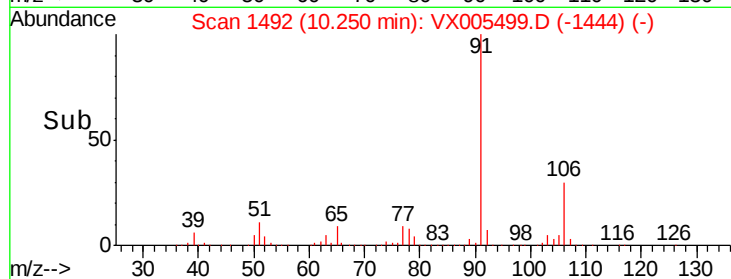
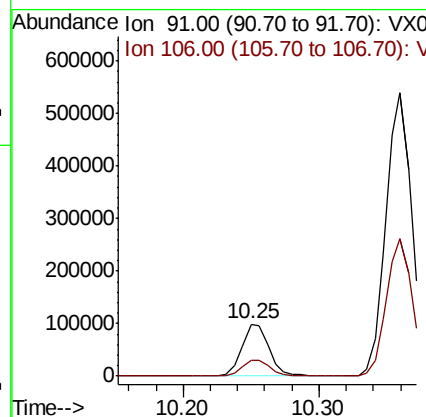
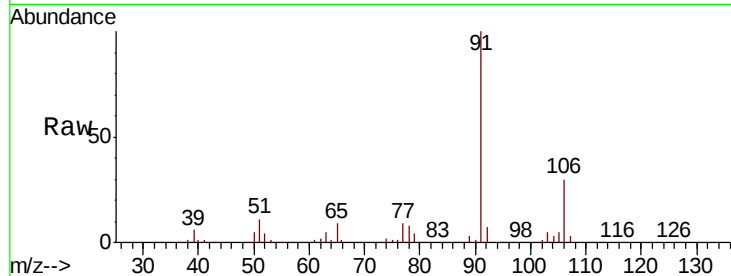




#67
Ethyl Benzene
Concen: 13.654 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

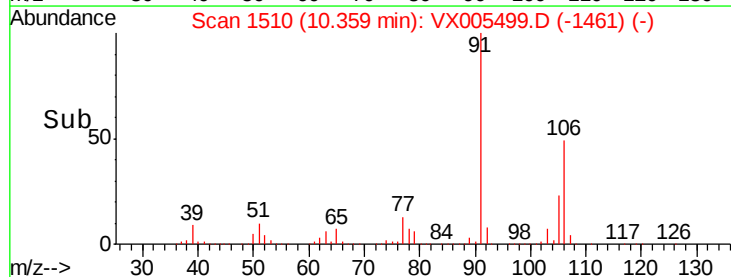
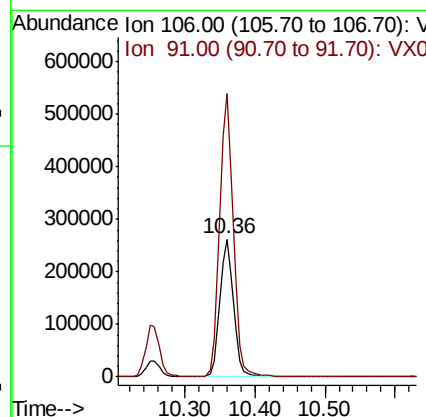
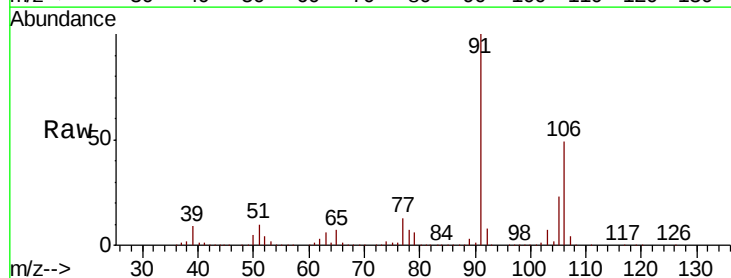
Instrument :
MSVOA_X
ClientSampled :
SA-TWP-01

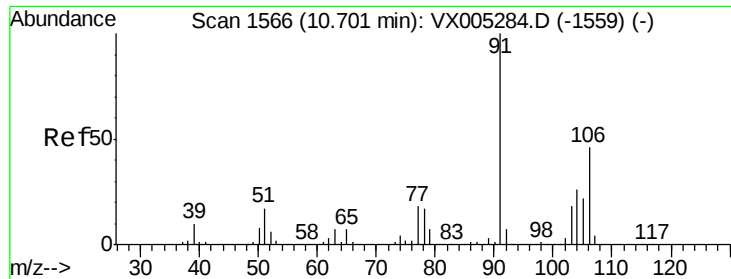
Tot Ion: 91 Resp: 138976
Ion Ratio Lower Upper
91 100
106 29.7 25.9 38.9



#68
m/p-Xylenes
Concen: 90.244 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

Tgt Ion: 106 Resp: 356516
Ion Ratio Lower Upper
106 100
91 206.8 157.1 235.7

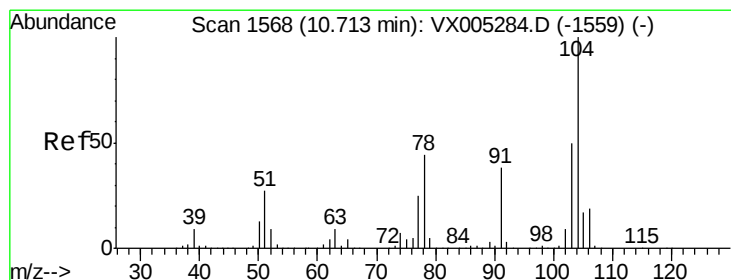
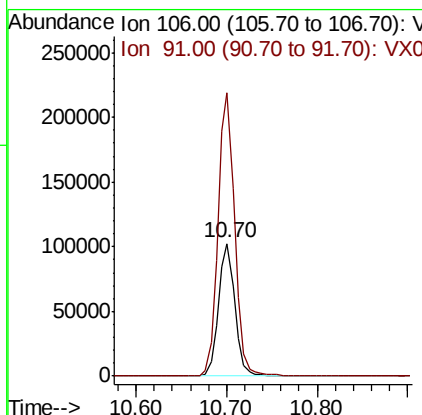
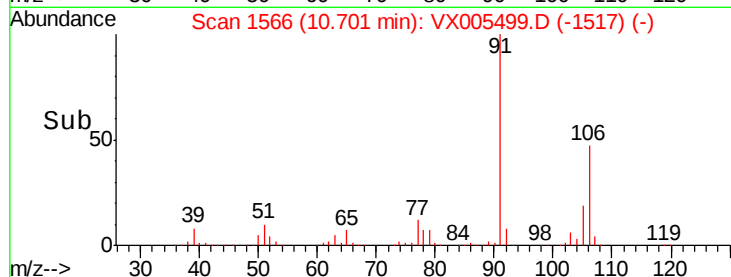
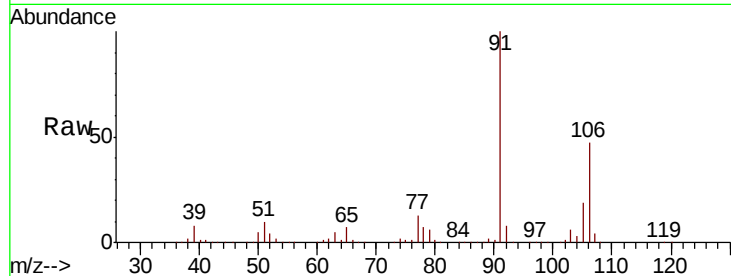




#69
o-Xylene
Concen: 34.061 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

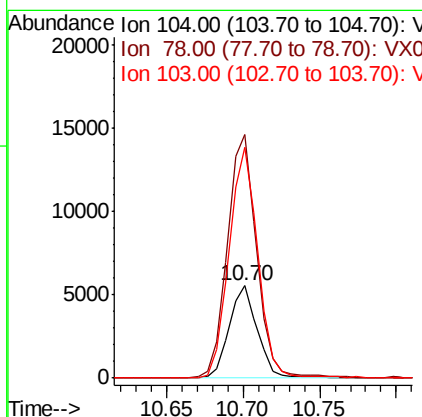
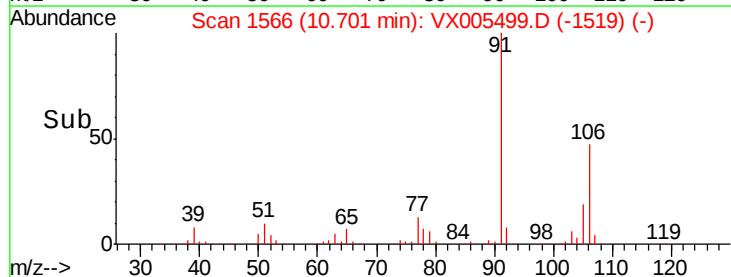
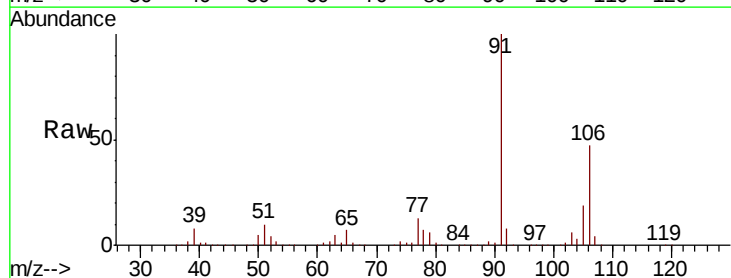
Instrument :
MSVOA_X
ClientSampled :
SA-TWP-01

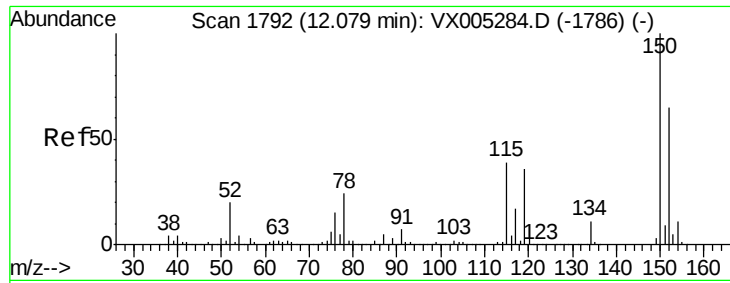
Tot Ion:106 Resp: 129775
Ion Ratio Lower Upper
106 100
91 216.7 105.1 315.1



#70
Styrene
Concen: 1.131 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VX005499.D
Acq: 23 Oct 2018 05:00

Tgt Ion:104 Resp: 7088
Ion Ratio Lower Upper
104 100
78 273.5 37.4 56.0#
103 254.5 43.8 65.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

Instrument :

MSVOA_X

ClientSampled :

SA-TWP-01

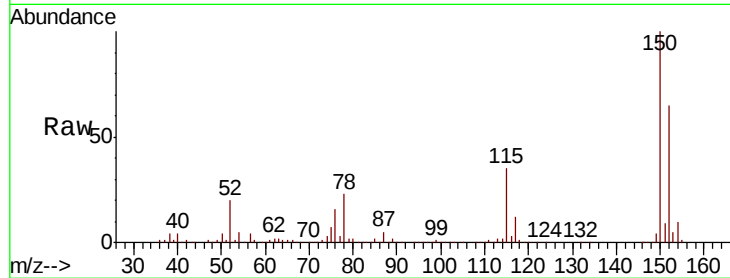
Tot Ion:152 Resp: 142687

Ion Ratio Lower Upper

152 100

115 54.9 39.0 117.0

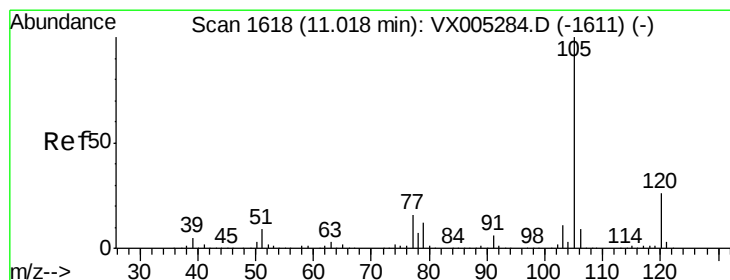
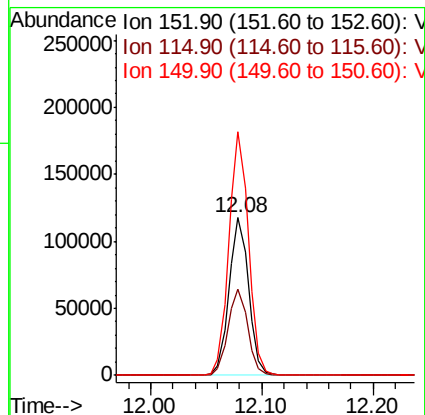
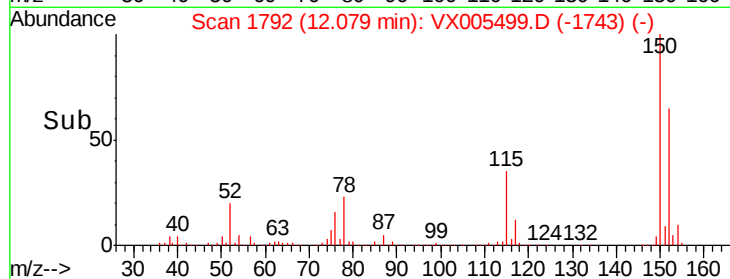
150 155.0 0.0 351.0



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



#73

Isopropylbenzene

Concen: 0.253 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX005499.D

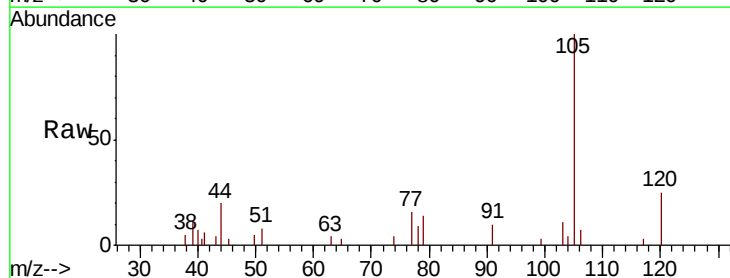
Acq: 23 Oct 2018 05:00

Tgt Ion:105 Resp: 2149

Ion Ratio Lower Upper

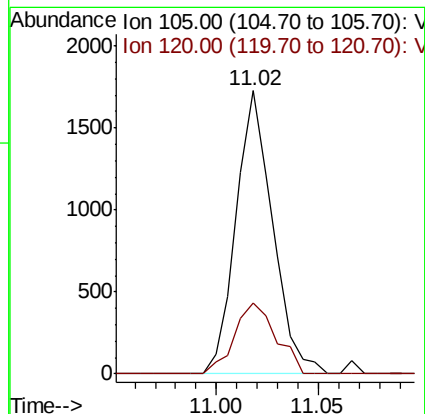
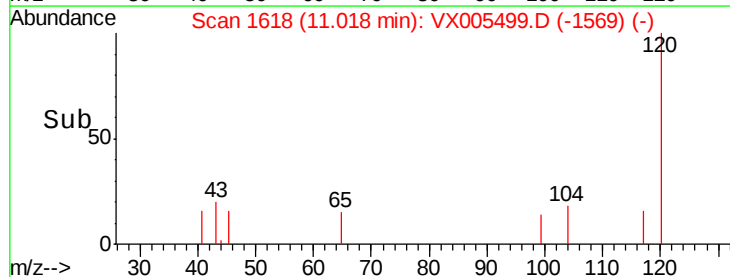
105 100

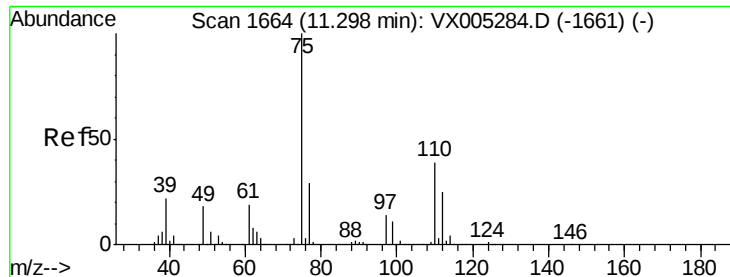
120 28.1 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 24.806 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

Instrument :

MSVOA_X

ClientSampleId :

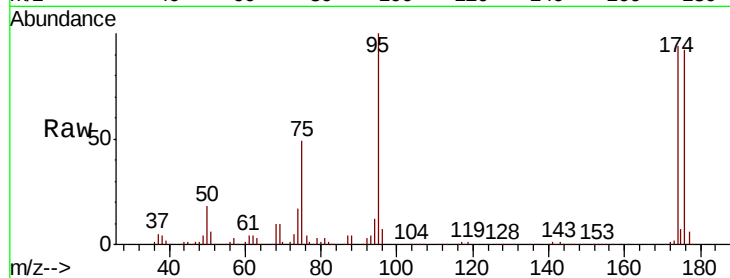
SA-TWP-01

Tot Ion: 75 Resp: 68656

Ion Ratio Lower Upper

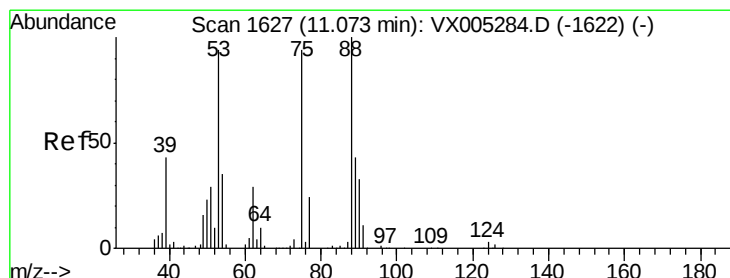
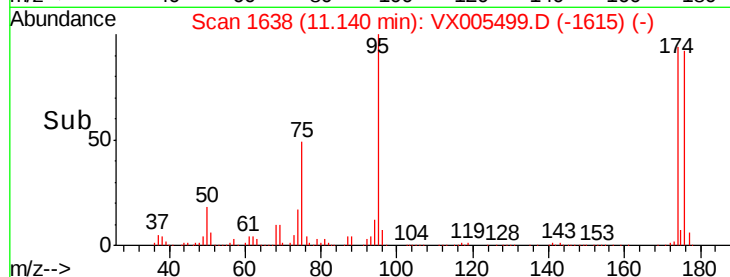
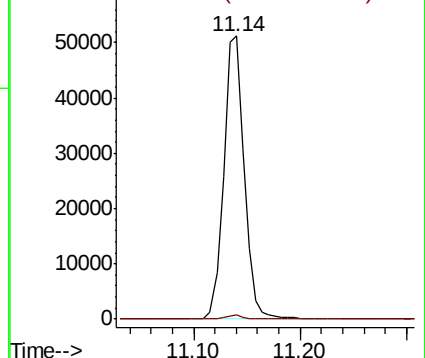
75 100

77 1.5 20.2 60.6#



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: 75.372 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005499.D

Acq: 23 Oct 2018 05:00

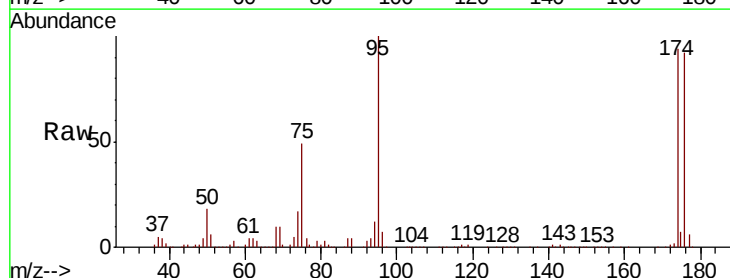
Tgt Ion: 75 Resp: 68656

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

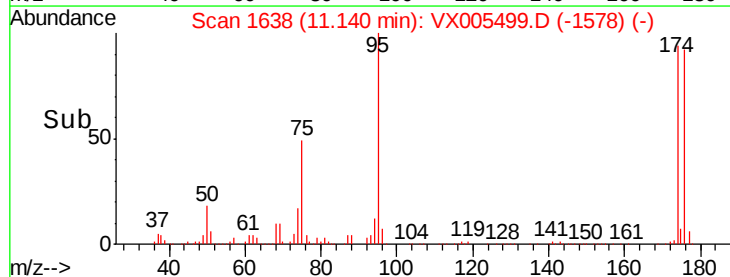
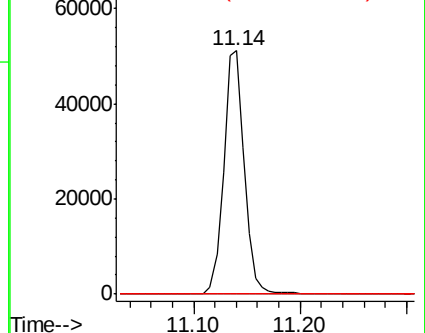
89 0.0 37.2 55.8#

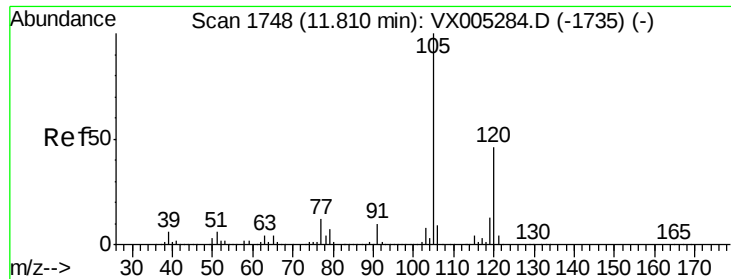


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84
 1,2,4-Trimethylbenzene
 Concen: 0.376 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX005499.D
 Acq: 23 Oct 2018 05:00

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TWP-01

Tot Ion:105 Resp: 2809
 Ion Ratio Lower Upper
 105 100
 120 39.6 23.2 69.6

