

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090320\
 Data File : VX018239.D
 Acq On : 03 Sep 2020 16:52
 Operator : JC/SP
 Sample : L3903-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 04 01:22:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	427790	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	714462	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	675100	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	331173	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	324798	54.69	ug/l	0.00
Spiked Amount			Recovery	=	109.38%	
35) Dibromofluoromethane	5.47	113	254772	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
50) Toluene-d8	8.70	98	870243	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
62) 4-Bromofluorobenzene	11.12	95	322303	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	

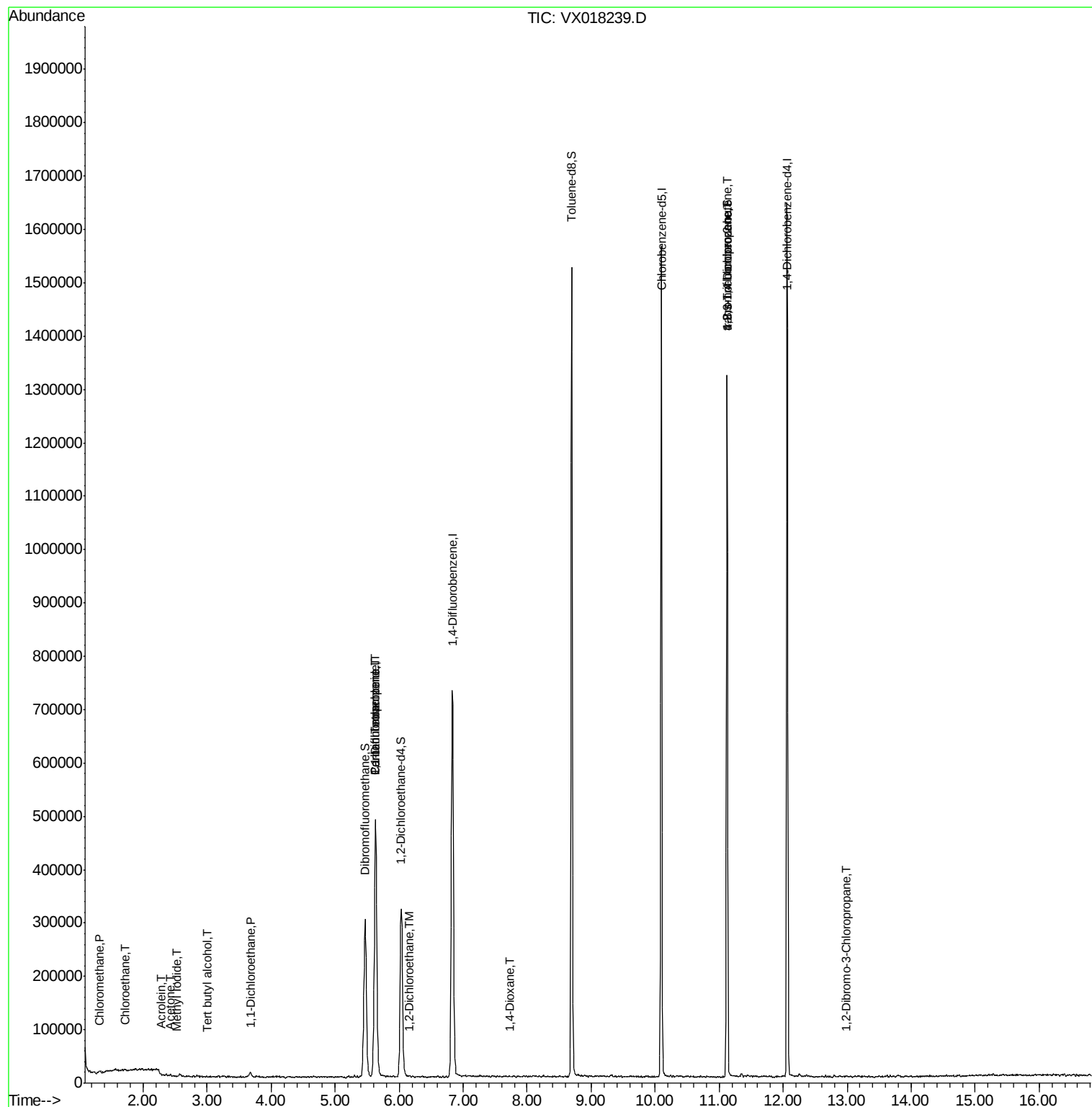
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1656	0.302	ug/l	94
6) Chloroethane	1.71	64	783	0.267	ug/l	94
10) Methyl Iodide	2.51	142	54	5.298	ug/l #	1
11) Tert butyl alcohol	3.00	59	495	0.429	ug/l #	71
13) Acrolein	2.28	56	315	0.658	ug/l #	44
16) Acetone	2.42	43	3239	1.400	ug/l	95
20) Methylene Chloride	2.84	84	833	Below Cal	#	72
24) 1,1-Dichloroethane	3.67	63	9939	1.178	ug/l #	81
36) 1,1-Dichloropropene	5.63	75	35034	5.316	ug/l #	52
38) Carbon Tetrachloride	5.63	117	46644	6.281	ug/l #	18
42) 1,2-Dichloroethane	6.17	62	1603	0.216	ug/l	87
49) 1,4-Dioxane	7.74	88	505	4.530	ug/l #	24
76) 1,2,3-Trichloropropane	11.12	75	172302	23.388	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	172302	63.167	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	415	0.215	ug/l #	13

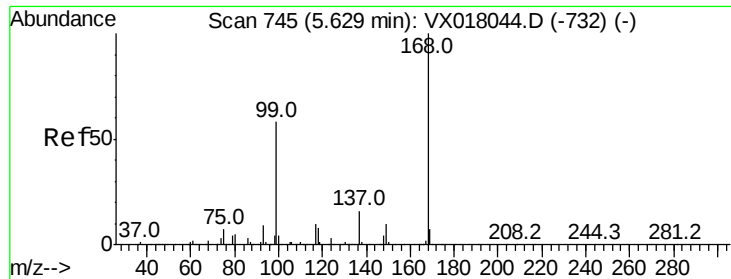
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

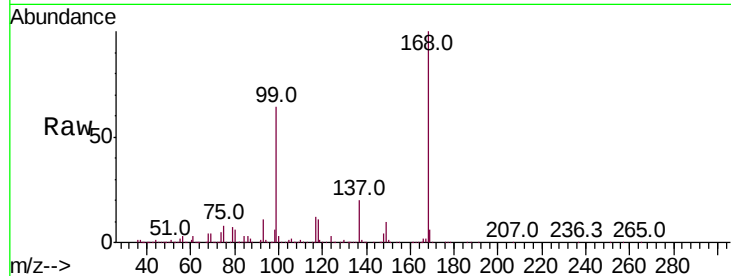
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 427790

Ion Ratio Lower Upper

168 100

99 63.7 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

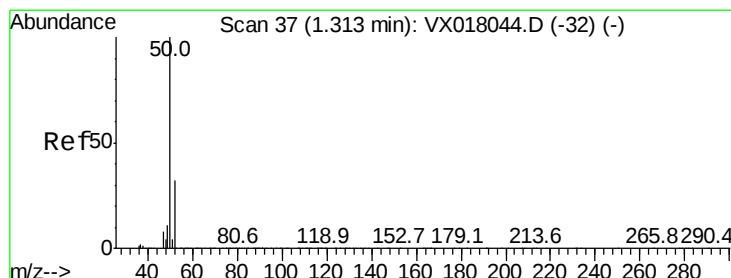
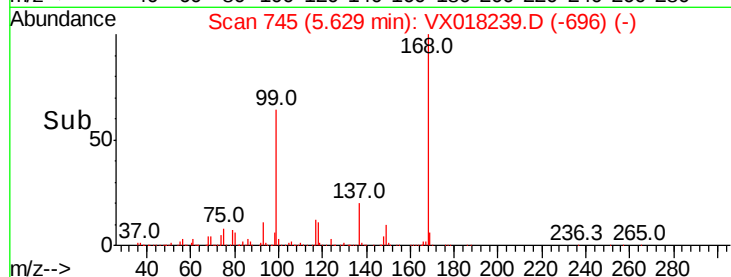
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.302 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018239.D

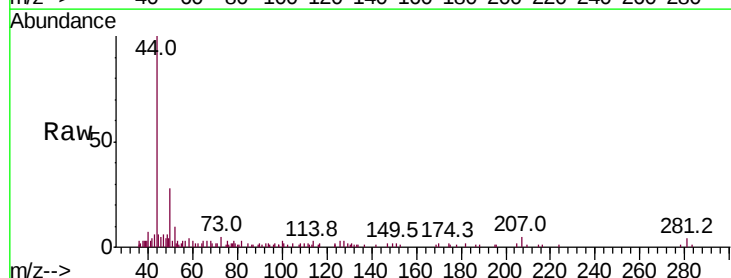
Acq: 03 Sep 2020 16:52

Tgt Ion: 50 Resp: 1656

Ion Ratio Lower Upper

50 100

52 35.1 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

1500

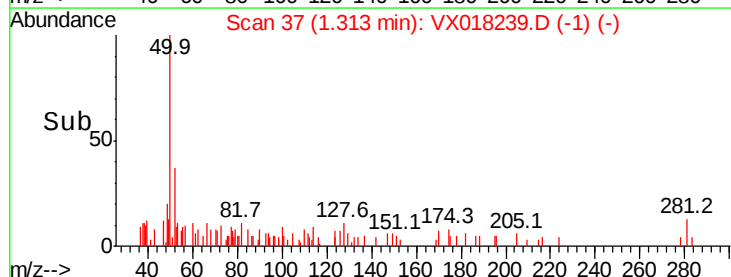
1000

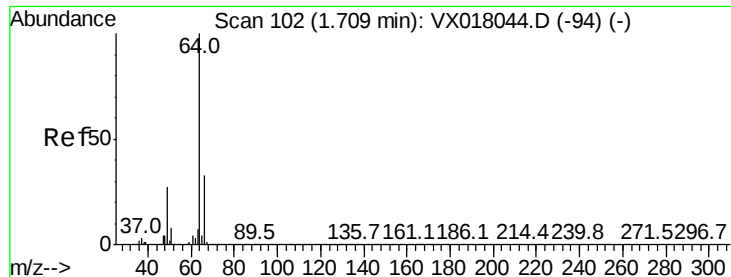
500

0

Time-->

1.28 1.30 1.32 1.34 1.36





#6

Chloroethane

Concen: 0.267 ug/l

RT: 1.71 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

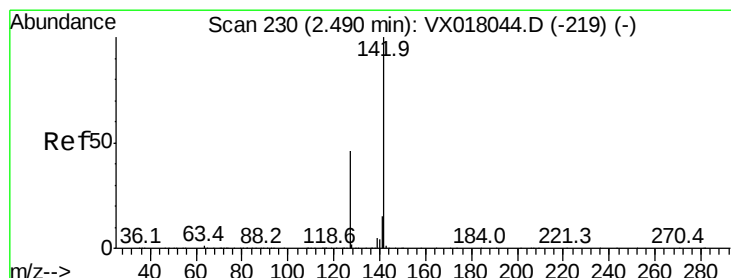
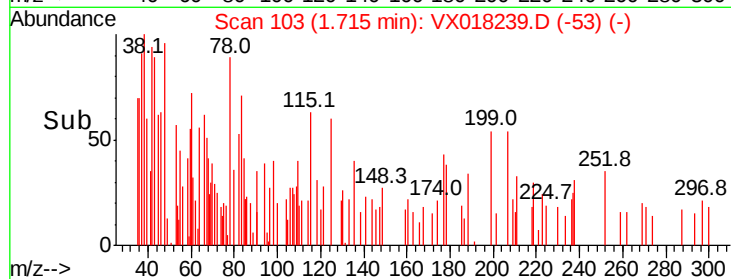
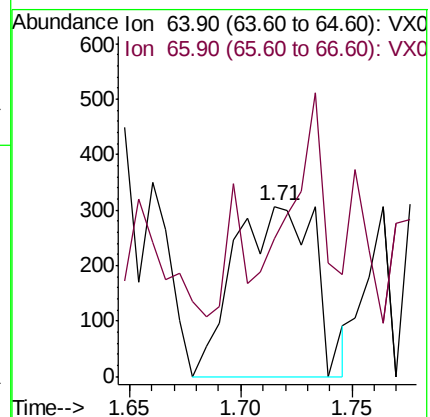
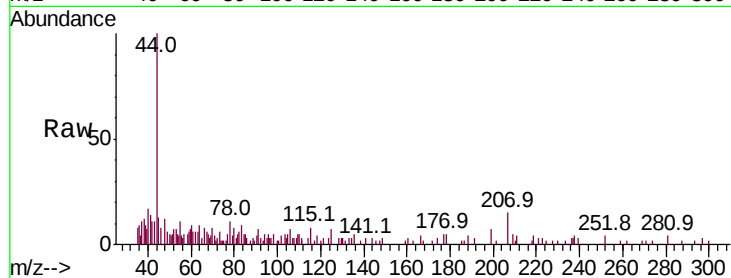
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 64 Resp: 783

Ion Ratio Lower Upper

64 100

66 36.6 26.6 39.8



#10

Methyl Iodide

Concen: 5.298 ug/l

RT: 2.51 min Scan# 234

Delta R.T. 0.02 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

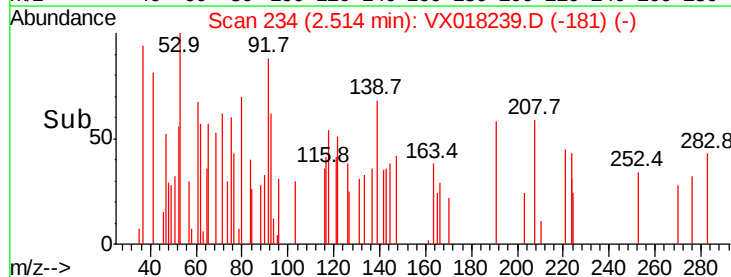
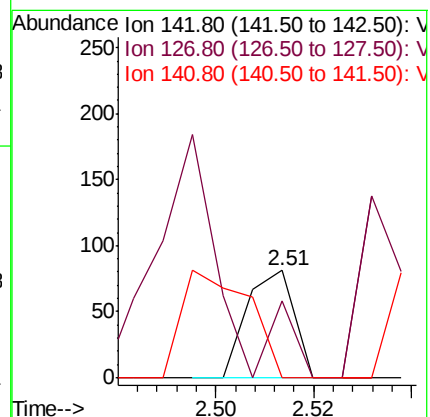
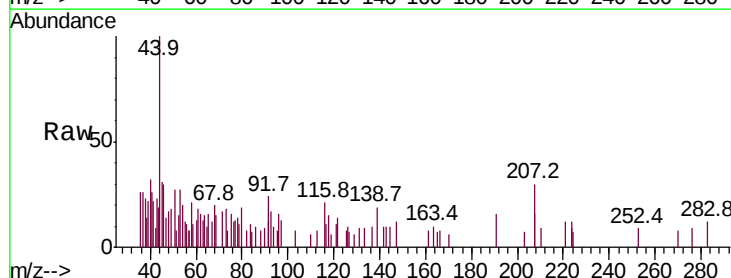
Tgt Ion: 142 Resp: 54

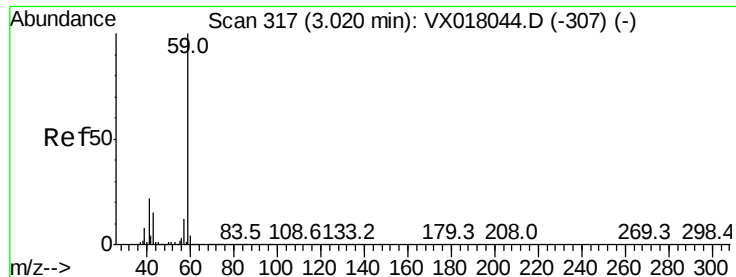
Ion Ratio Lower Upper

142 100

127 316.7 37.0 55.6#

141 142.6 11.5 17.3#

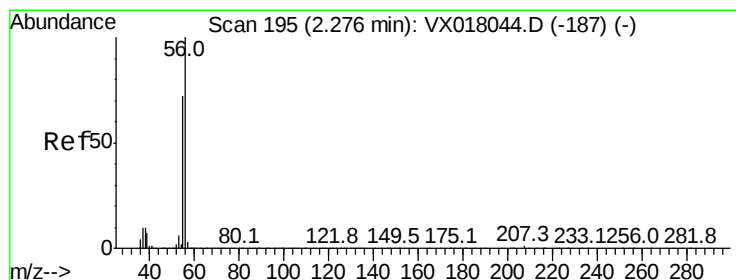
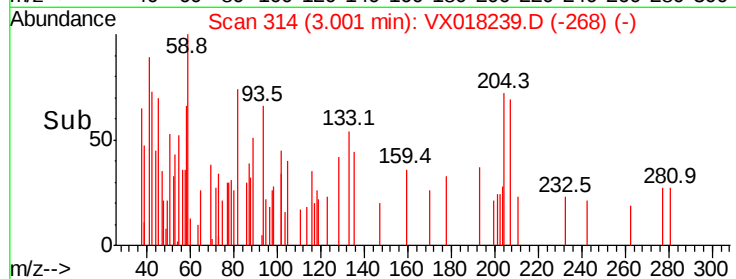
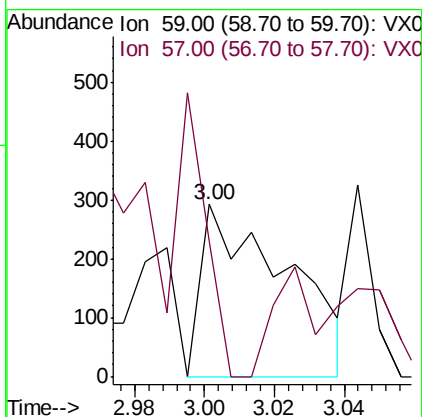
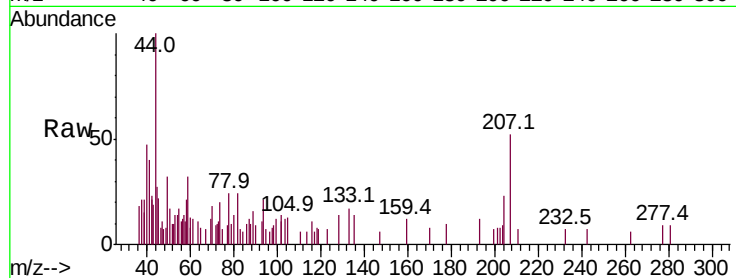




#11
Tert butyl alcohol
Concen: 0.429 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX018239.D
Acq: 03 Sep 2020 16:52

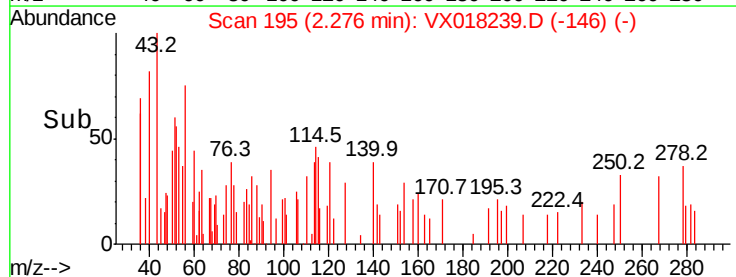
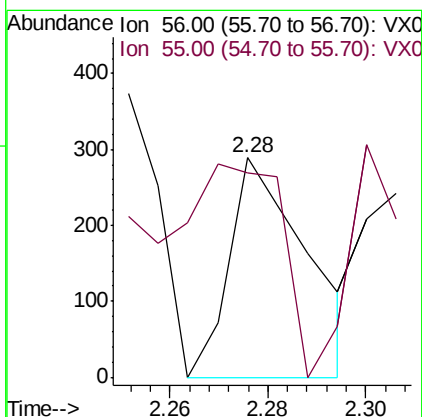
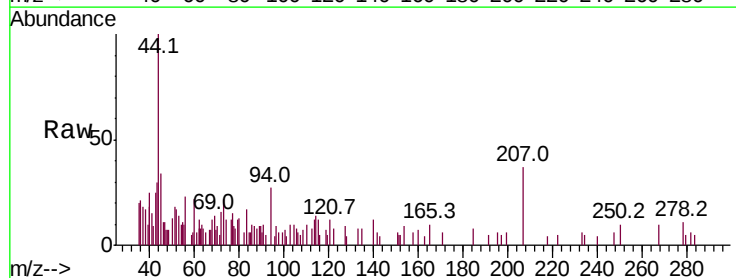
Instrument :
MSVOA_X
ClientSampled :

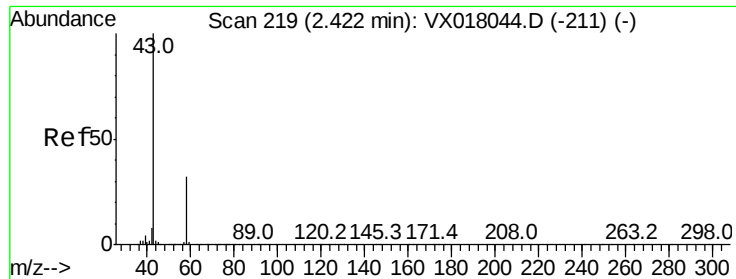
Tot Ion: 59 Resp: 495
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



#13
Acrolein
Concen: 0.658 ug/l
RT: 2.28 min Scan# 195
Delta R.T. -0.00 min
Lab File: VX018239.D
Acq: 03 Sep 2020 16:52

Tgt Ion: 56 Resp: 315
Ion Ratio Lower Upper
56 100
55 118.1 57.0 85.6#





#16

Acetone

Concen: 1.400 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

Instrument :

MSVOA_X

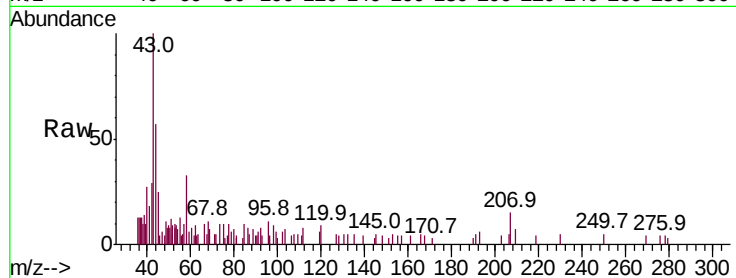
ClientSampleId :

Tot Ion: 43 Resp: 3239

Ion Ratio Lower Upper

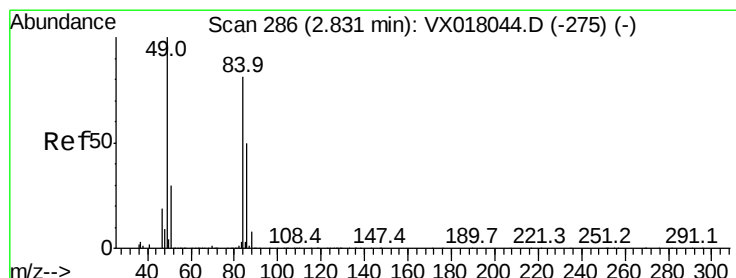
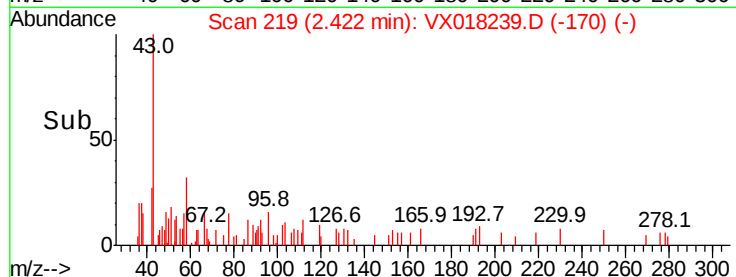
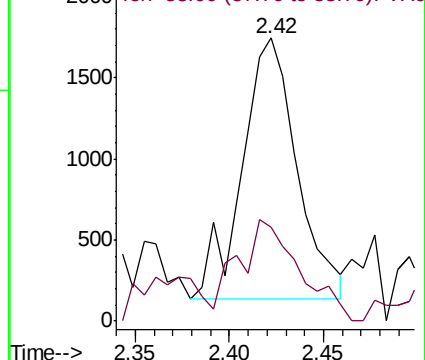
43 100

58 29.3 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

Tgt Ion: 84 Resp: 833

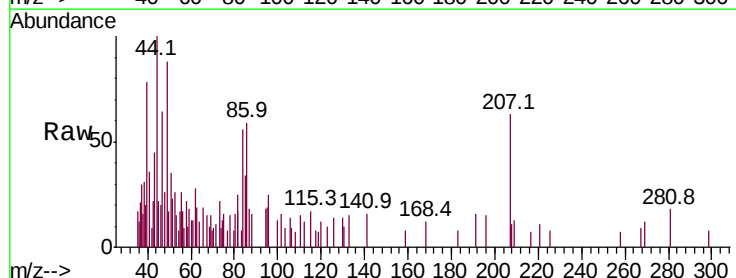
Ion Ratio Lower Upper

84 100

49 112.4 98.6 148.0

51 87.6 29.6 44.4#

86 85.8 49.8 74.6#

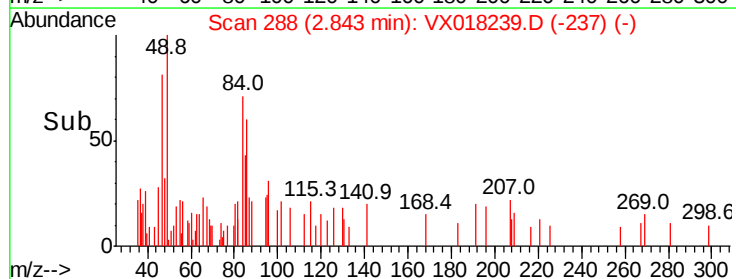
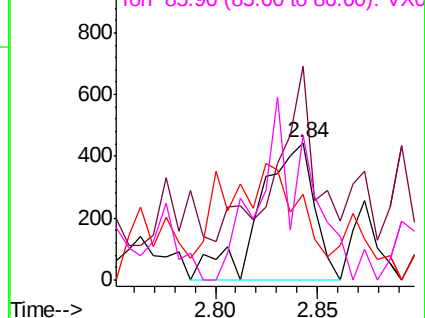


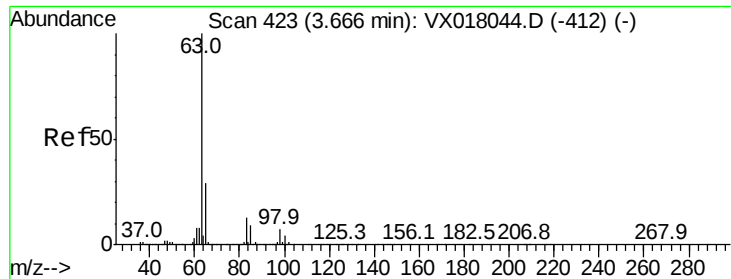
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#24

1,1-Dichloroethane

Concen: 1.178 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

Instrument :
MSVOA_X
ClientSampled :

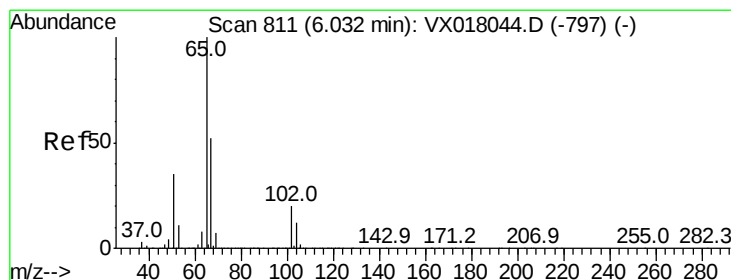
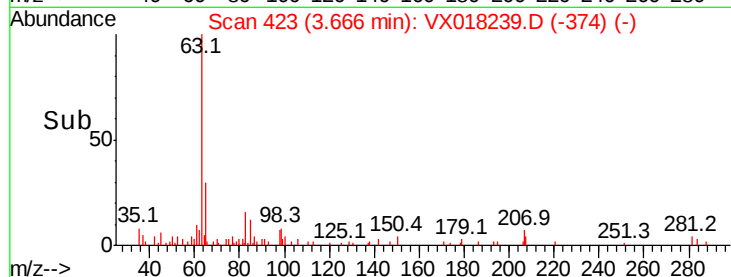
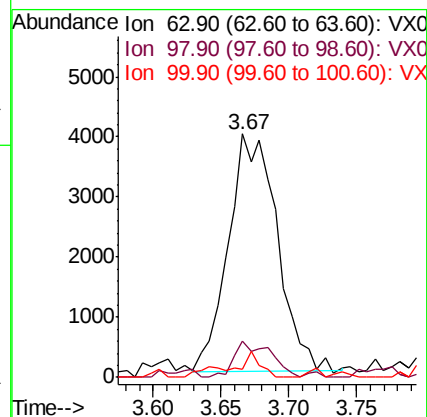
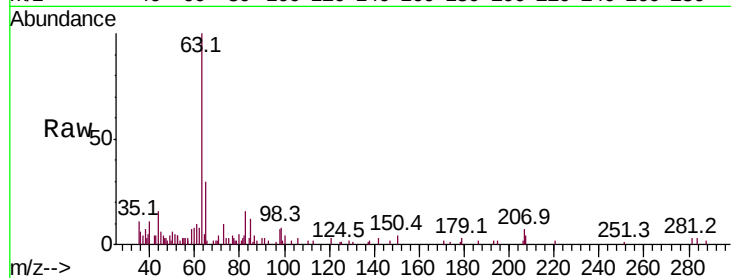
Tot Ion: 63 Resp: 9939

Ion Ratio Lower Upper

63 100

98 15.6 3.6 10.8#

100 1.2 2.0 6.0#



#33

1,2-Dichloroethane-d4

Concen: 54.691 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX018239.D

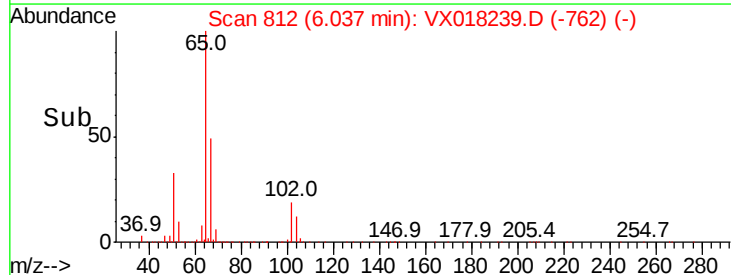
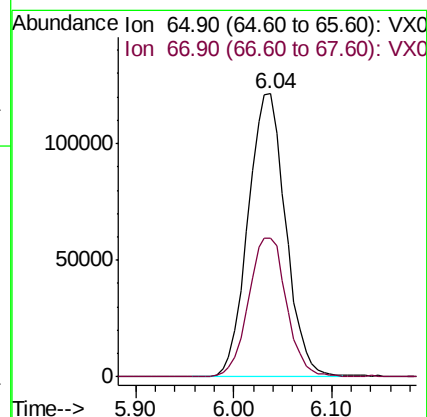
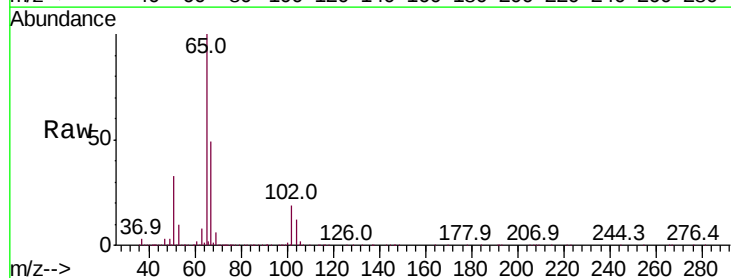
Acq: 03 Sep 2020 16:52

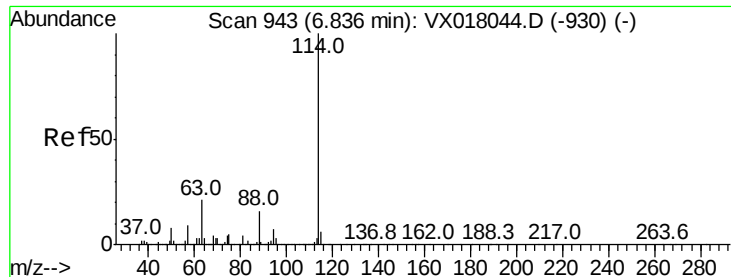
Tgt Ion: 65 Resp: 324798

Ion Ratio Lower Upper

65 100

67 49.7 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

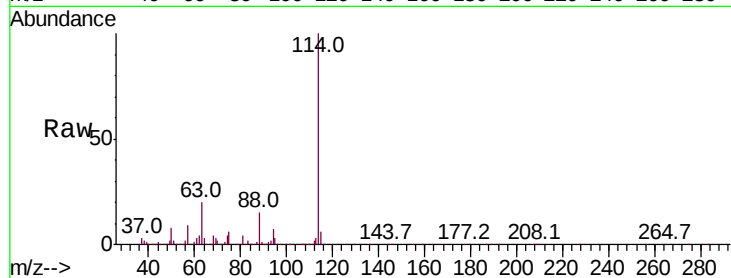
Tot Ion:114 Resp: 714462

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

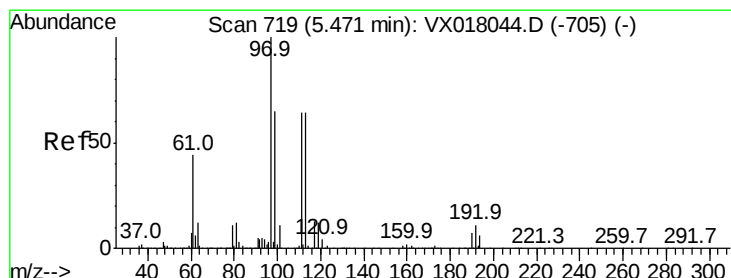
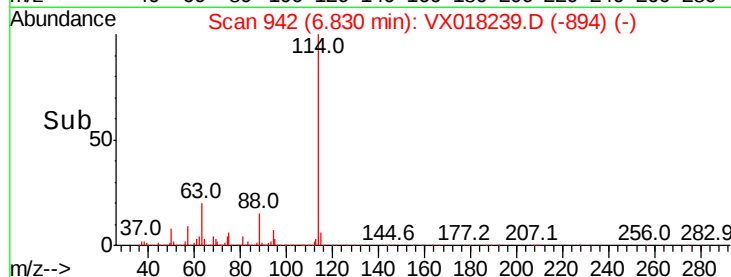
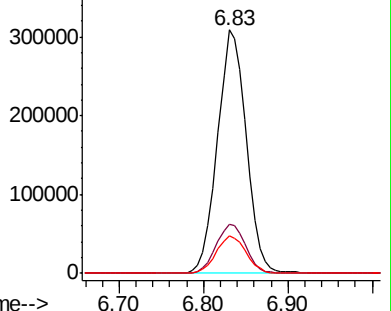
88 15.2 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 52.359 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

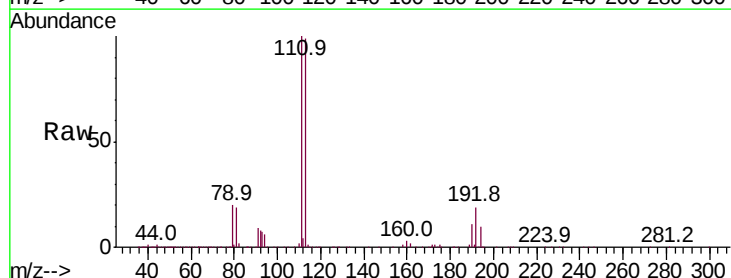
Tgt Ion:113 Resp: 254772

Ion Ratio Lower Upper

113 100

111 101.2 81.6 122.4

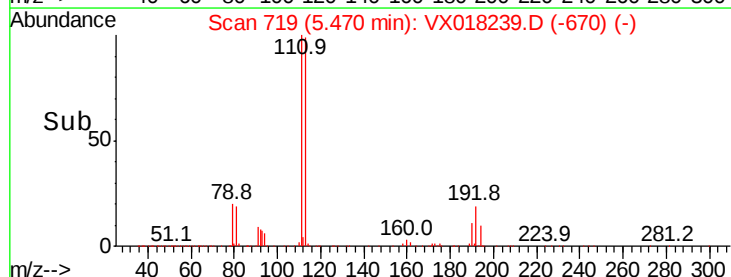
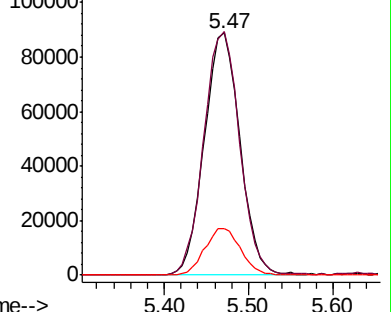
192 19.4 15.8 23.8

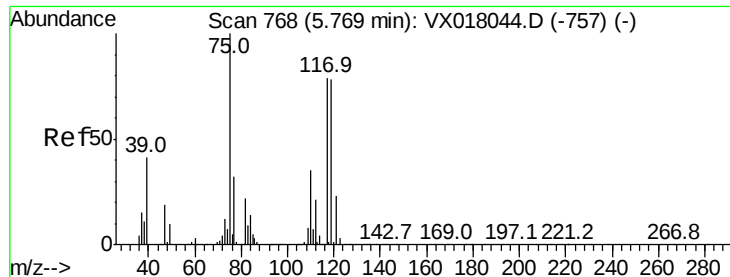


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.316 ug/l

RT: 5.63 min Scan# 746

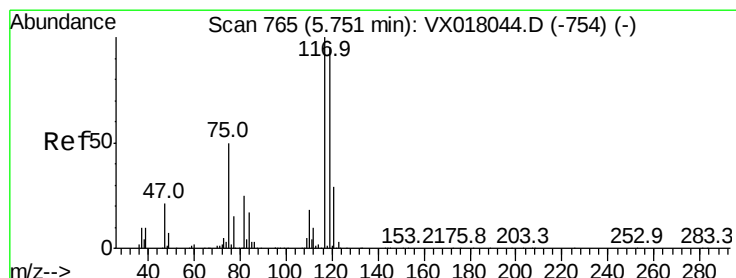
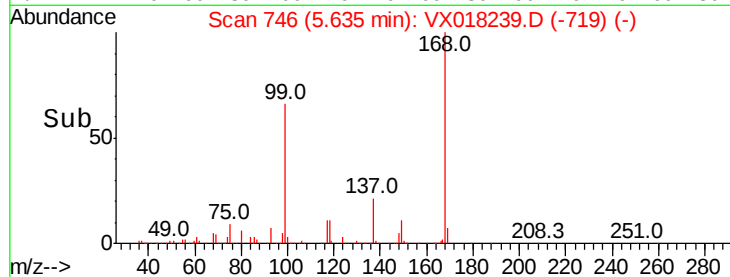
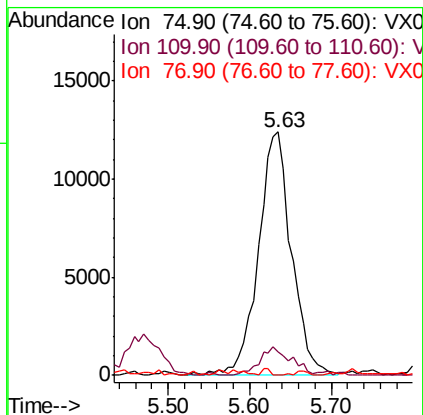
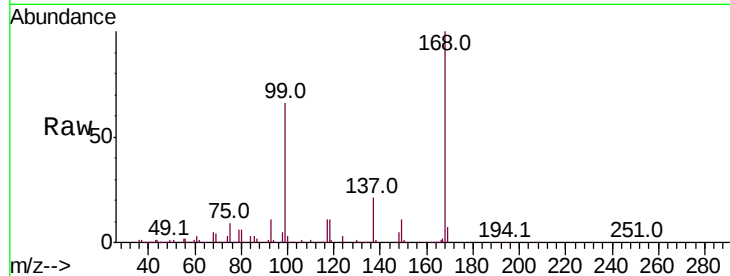
Delta R.T. -0.13 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	11.0	18.0	54.0#
77	0.7	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 6.281 ug/l

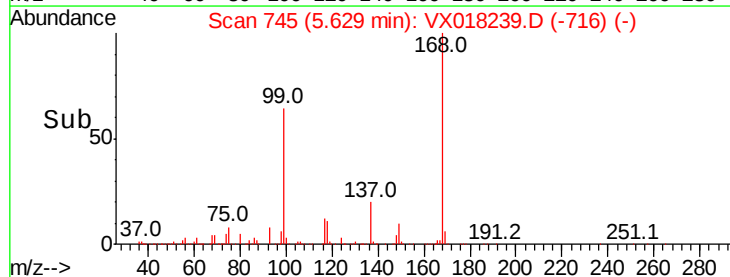
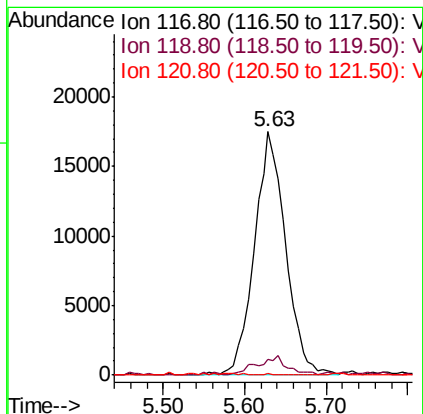
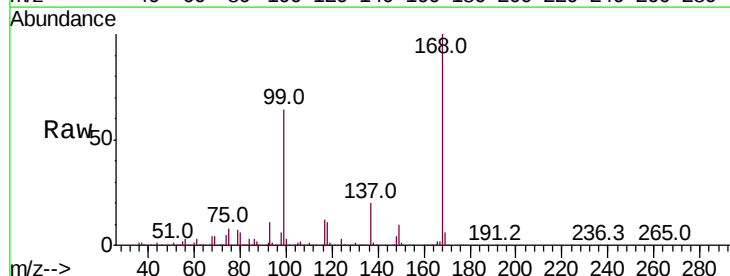
RT: 5.63 min Scan# 745

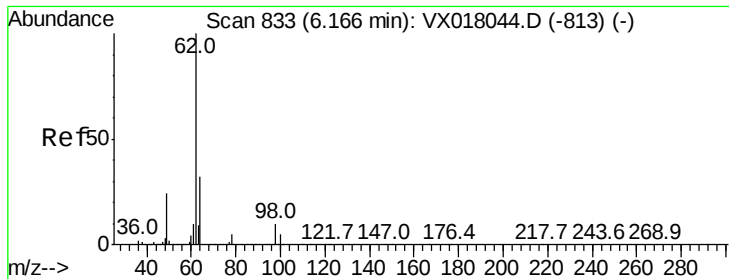
Delta R.T. -0.12 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	75.8	113.6#
121	0.0	23.4	35.0#





#42

1,2-Dichloroethane

Concen: 0.216 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

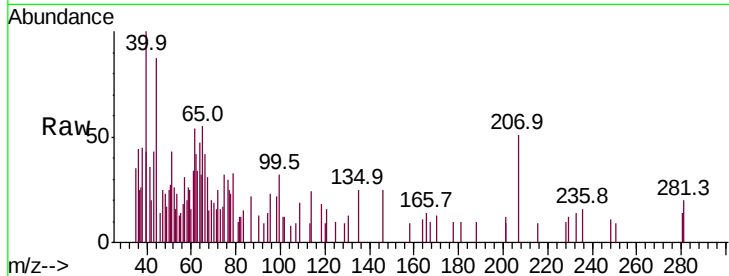
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 62 Resp: 1603

Ion Ratio Lower Upper

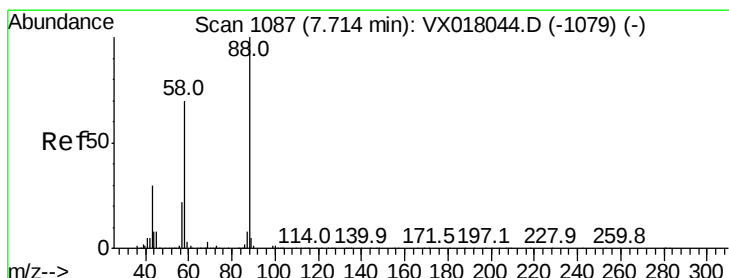
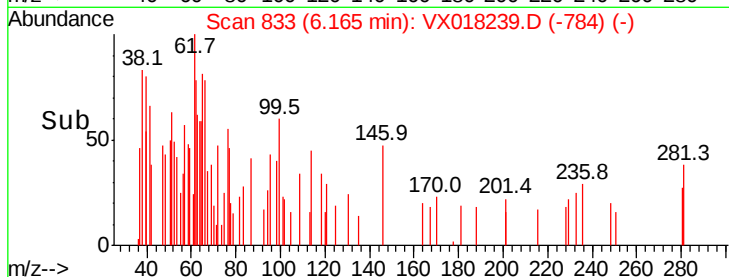
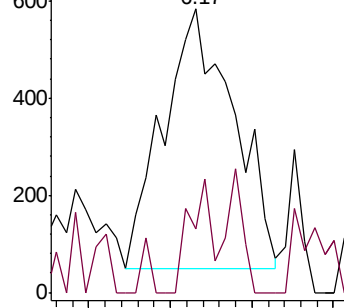
62 100

98 13.8 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#49

1,4-Dioxane

Concen: 4.530 ug/l

RT: 7.74 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

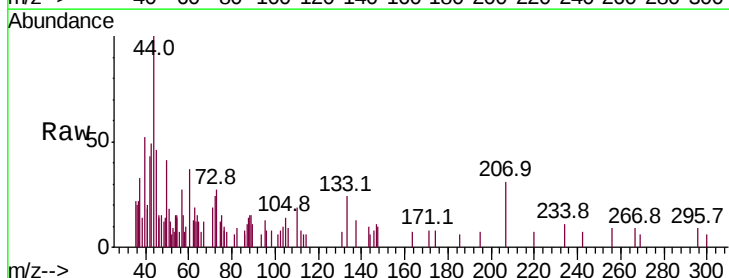
Tgt Ion: 88 Resp: 505

Ion Ratio Lower Upper

88 100

43 66.3 27.4 41.0#

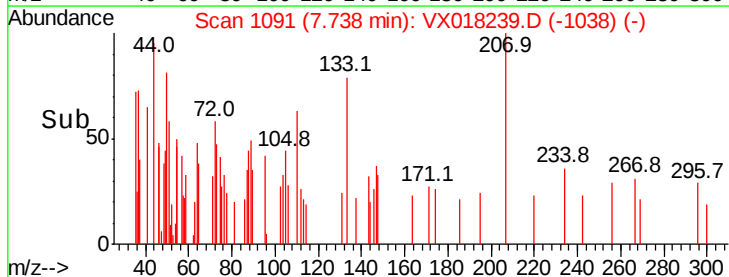
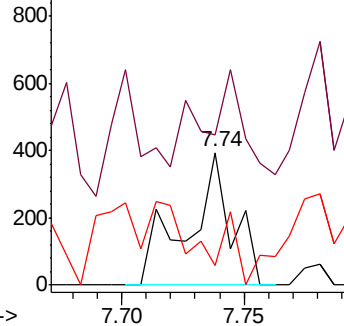
58 0.0 56.4 84.6#

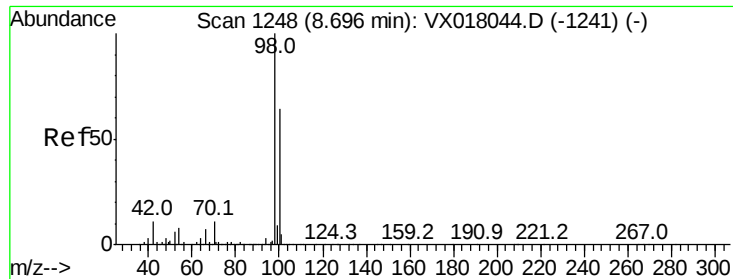


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.019 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

Instrument :

MSVOA_X

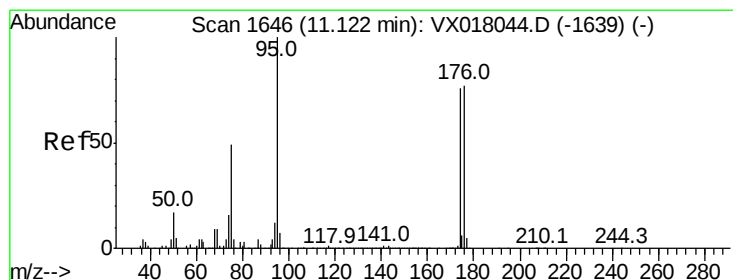
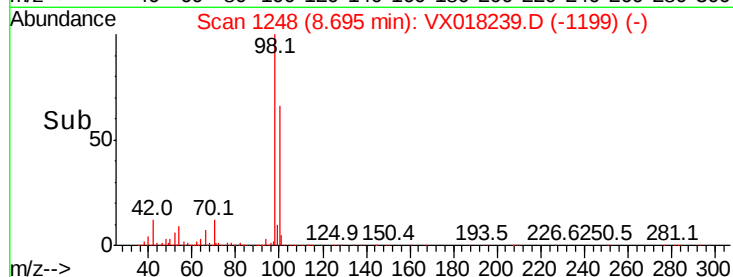
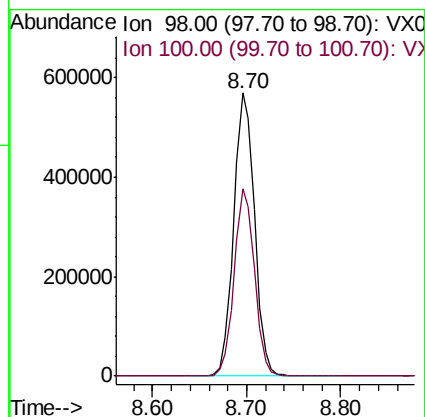
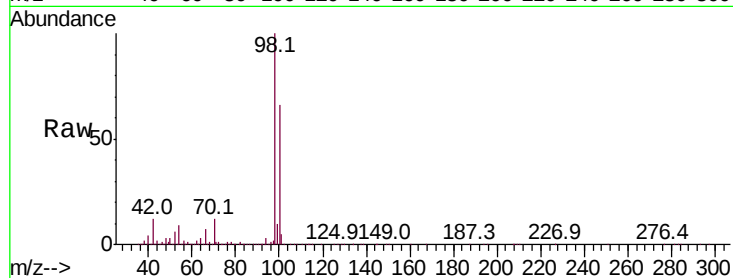
ClientSampleId :

Tot Ion: 98 Resp: 870243

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 45.202 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

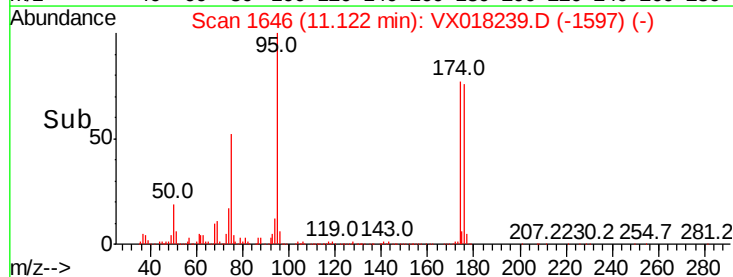
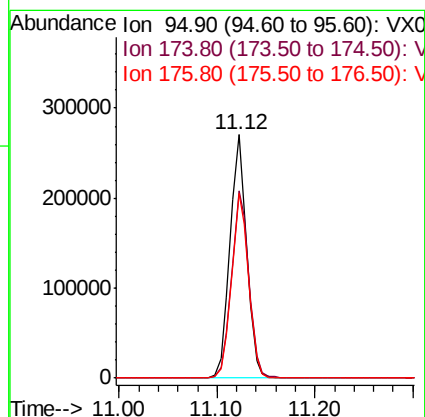
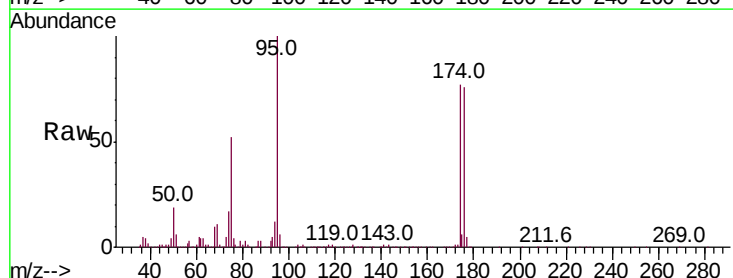
Tgt Ion: 95 Resp: 322303

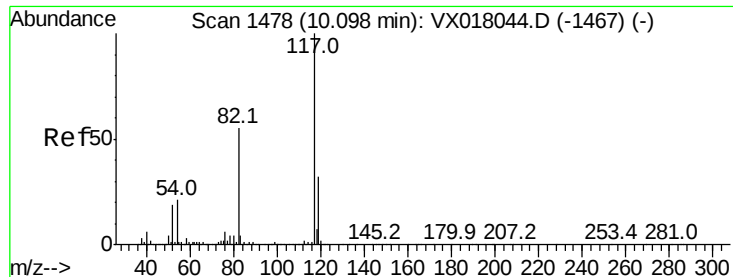
Ion Ratio Lower Upper

95 100

174 79.6 0.0 160.2

176 76.7 0.0 155.8

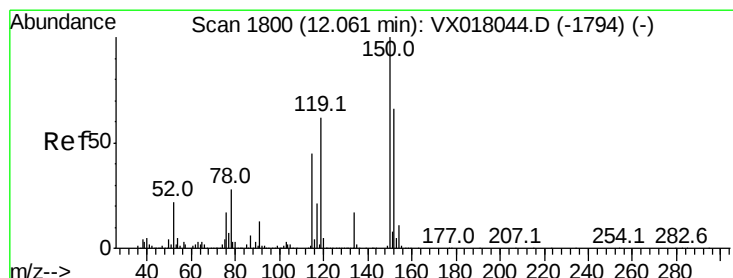
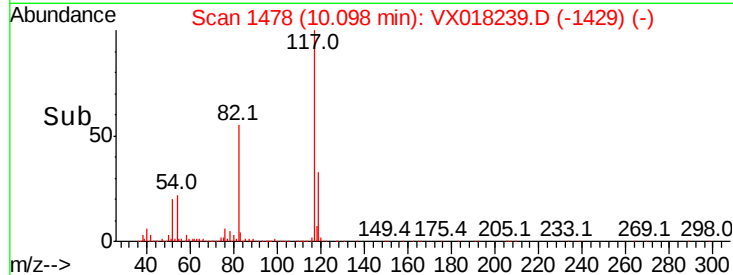
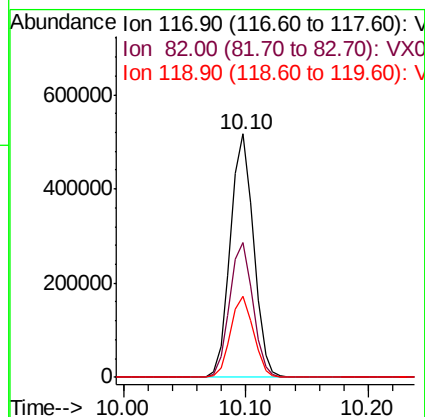
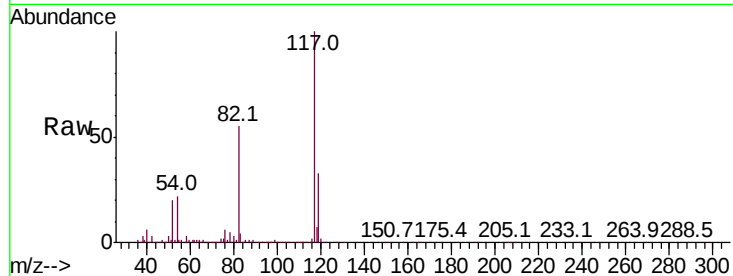




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018239.D
Acq: 03 Sep 2020 16:52

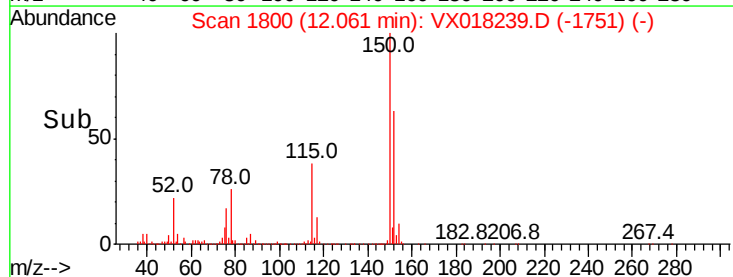
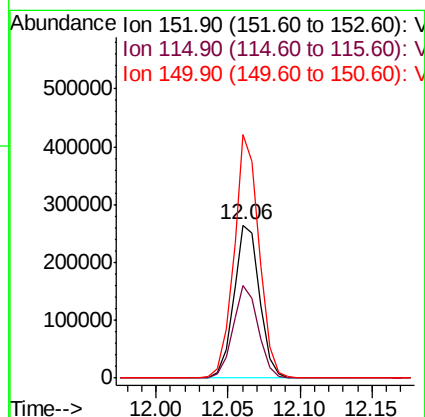
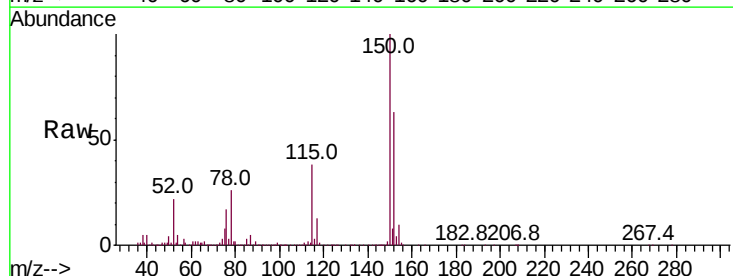
Instrument :
MSVOA_X
ClientSampleId :

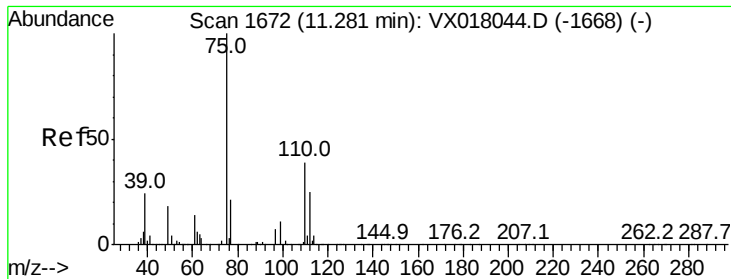
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.2	66.2
119	33.1	25.7	38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018239.D
Acq: 03 Sep 2020 16:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.3	41.5	124.5
150	154.0	0.0	343.8





#76

1,2,3-Trichloropropane

Concen: 23.388 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

Instrument :

MSVOA_X

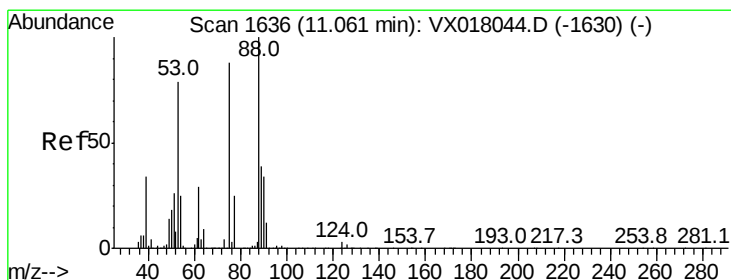
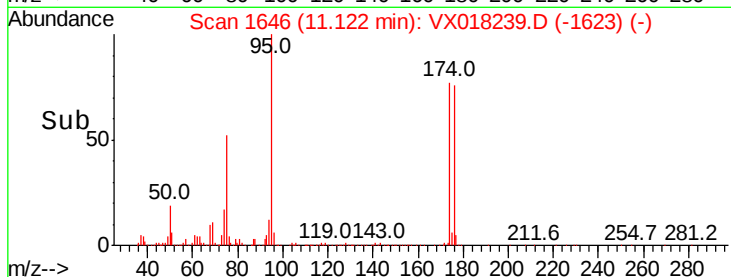
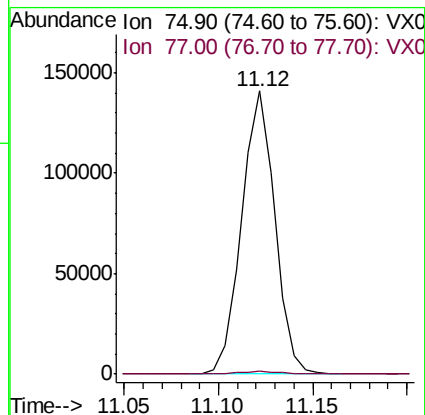
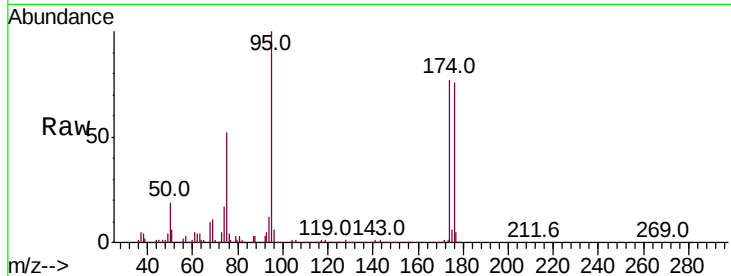
ClientSampleId :

Tot Ion: 75 Resp: 172302

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.167 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018239.D

Acq: 03 Sep 2020 16:52

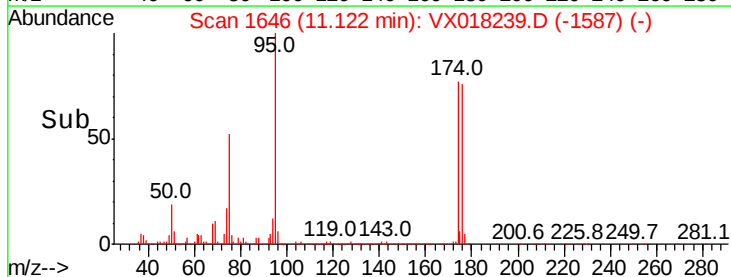
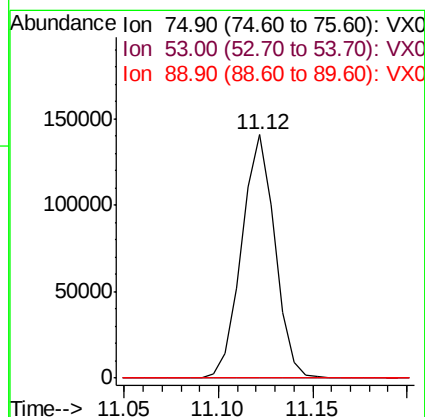
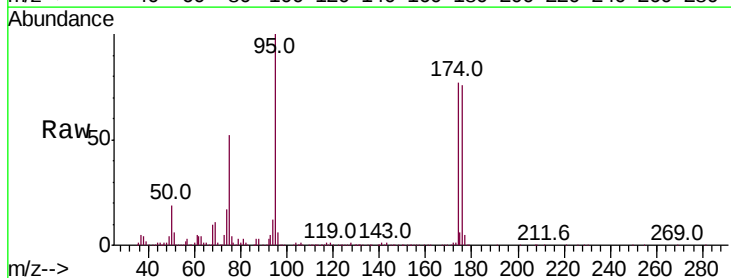
Tgt Ion: 75 Resp: 172302

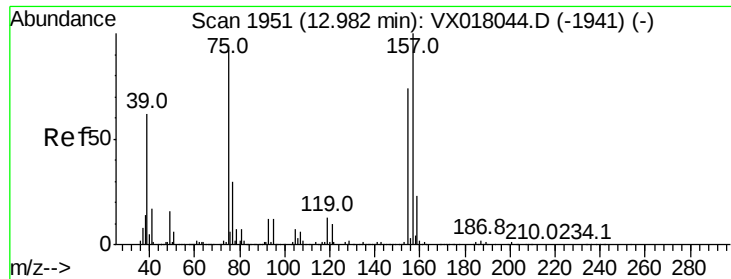
Ion Ratio Lower Upper

75 100

53 0.4 74.7 112.1#

89 0.1 36.6 54.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.215 ug/l
 RT: 12.98 min Scan# 1951
 Delta R.T. -0.00 min
 Lab File: VX018239.D
 Acq: 03 Sep 2020 16:52

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 415
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.2 120.6#
 157 20.7 55.0 165.2#

