

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071819\
 Data File : VX010954.D
 Acq On : 18 Jul 2019 13:26
 Operator : JC/SP
 Sample : K3834-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-8

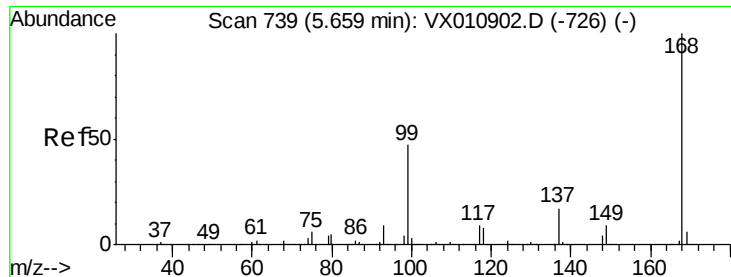
Quant Time: Jul 19 01:32:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	218800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	338918	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	310915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	148058	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	115018	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
35) Dibromofluoromethane	5.50	113	104005	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
50) Toluene-d8	8.71	98	402016	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
62) 4-Bromofluorobenzene	11.13	95	140760	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	20	0.555	ug/l #	43
3) Chloromethane	1.33	50	1639	0.815	ug/l	96
5) Bromomethane	1.65	94	721	0.623	ug/l #	59
6) Chloroethane	1.74	64	394	0.302	ug/l #	55
10) Methyl Iodide	2.51	142	607	0.233	ug/l #	85
11) Tert butyl alcohol	3.04	59	1494	2.756	ug/l	97
13) Acrolein	2.28	56	90	0.287	ug/l #	15
15) Acrylonitrile	3.15	53	259	0.236	ug/l #	41
16) Acetone	2.45	43	2645	2.516	ug/l #	85
20) Methylene Chloride	2.86	84	737	0.331	ug/l #	84
30) Chloroform	5.21	83	931	0.248	ug/l	87
31) Cyclohexane	5.65	56	4285	1.356	ug/l #	26
36) 1,1-Dichloropropene	5.66	75	13988	5.025	ug/l #	39
38) Carbon Tetrachloride	5.66	117	19915	6.865	ug/l #	18
49) 1,4-Dioxane	7.77	88	52	0.814	ug/l #	26
60) Dibromochloromethane	9.33	129	69	2.553	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	70629	26.435	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	70629	65.624	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

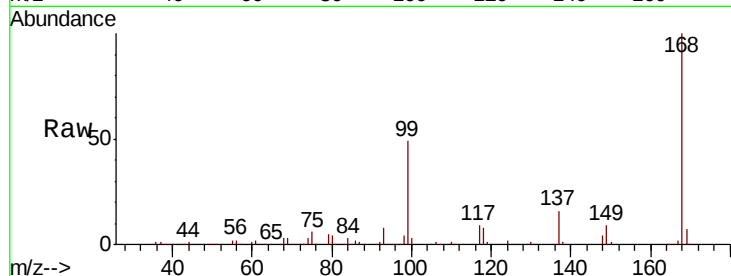
TW-8

Tot Ion:168 Resp: 218800

Ion Ratio Lower Upper

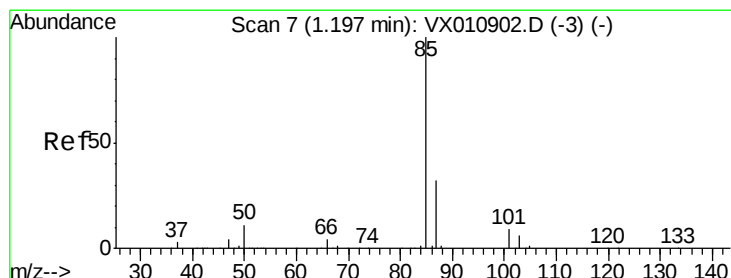
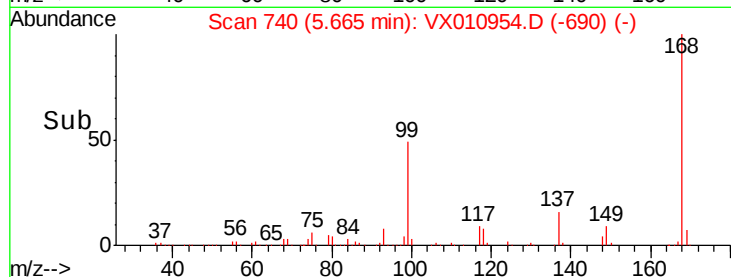
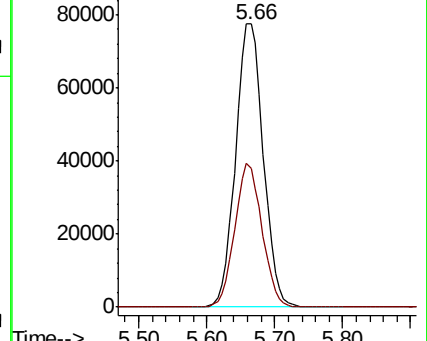
168 100

99 49.0 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.555 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX010954.D

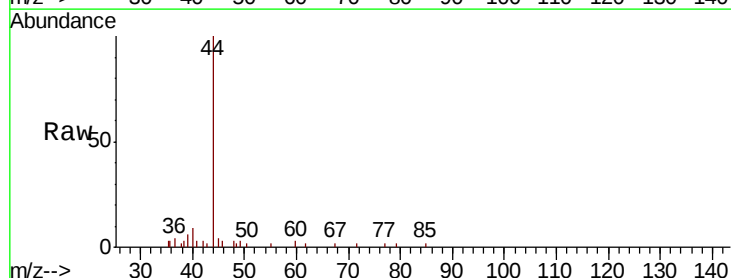
Acq: 18 Jul 2019 13:26

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

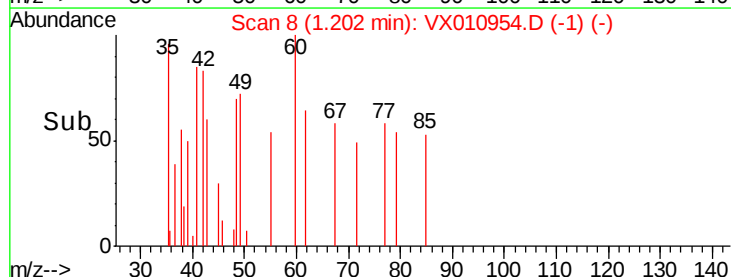
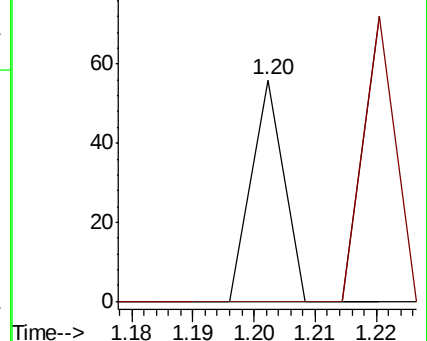
85 100

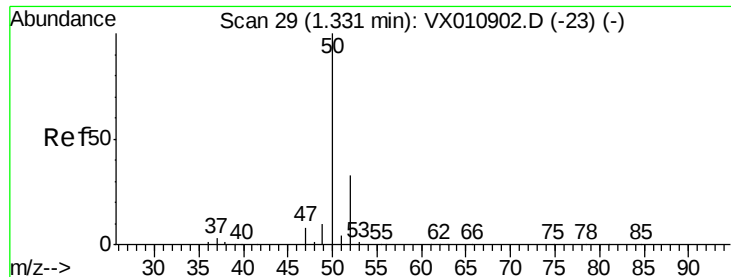
87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.815 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

Instrument :

MSVOA_X

ClientSampled :

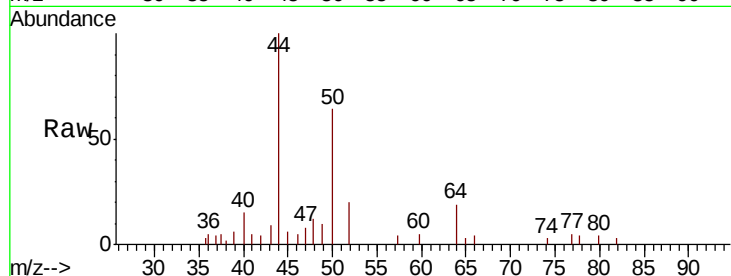
TW-8

Tot Ion: 50 Resp: 1639

Ion Ratio Lower Upper

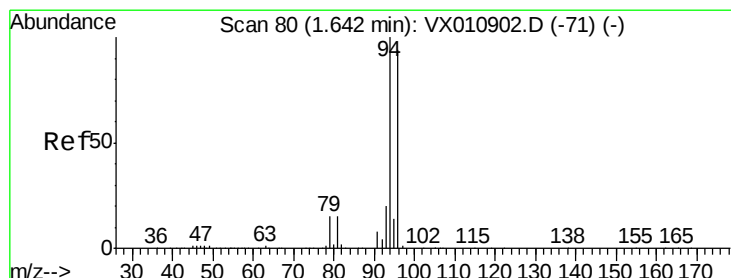
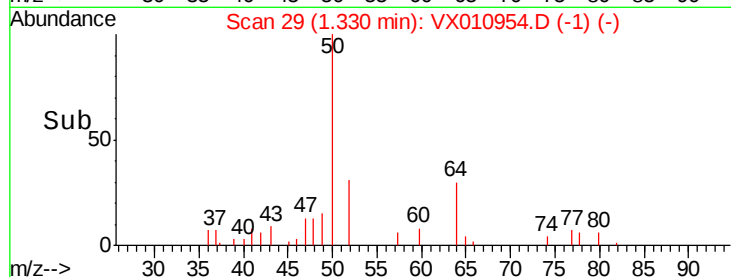
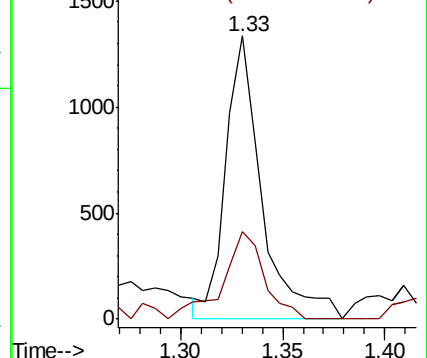
50 100

52 31.0 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.623 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX010954.D

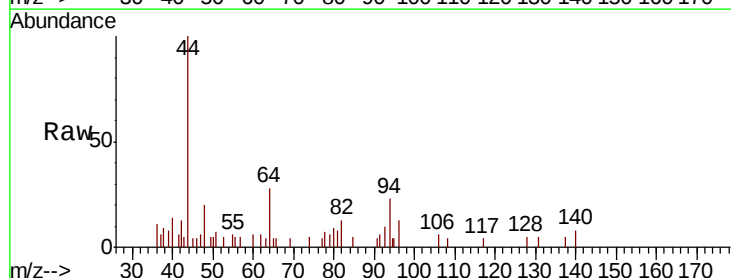
Acq: 18 Jul 2019 13:26

Tgt Ion: 94 Resp: 721

Ion Ratio Lower Upper

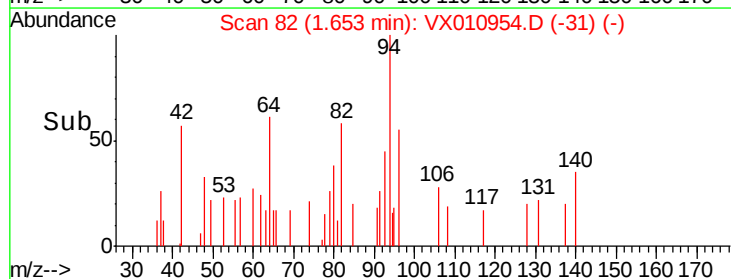
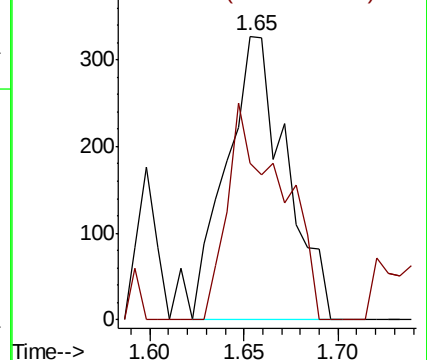
94 100

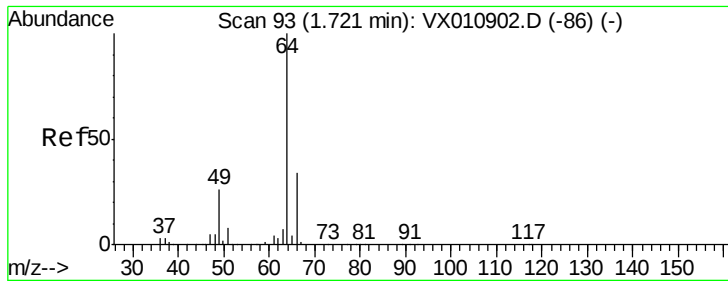
96 55.0 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.302 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

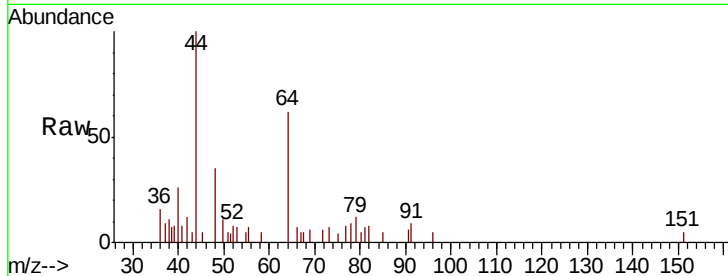
TW-8

Tot Ion: 64 Resp: 394

Ion Ratio Lower Upper

64 100

66 8.1 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.74

800

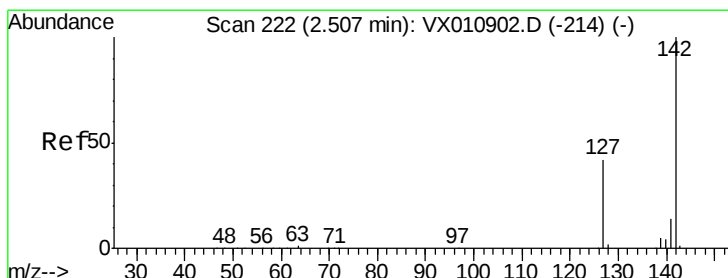
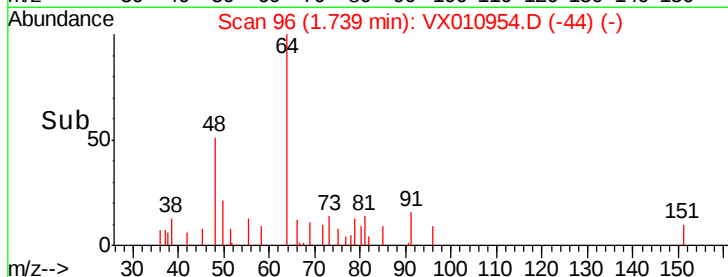
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 0.233 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

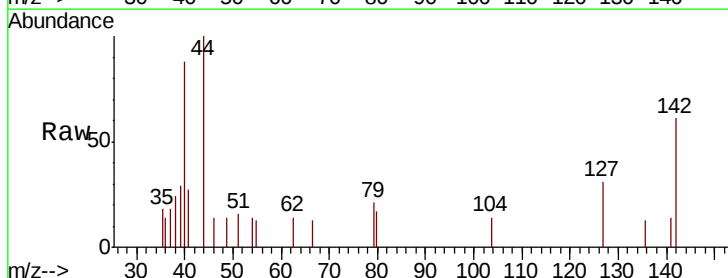
Tgt Ion: 142 Resp: 607

Ion Ratio Lower Upper

142 100

127 32.3 34.2 51.4#

141 18.9 11.7 17.5#



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

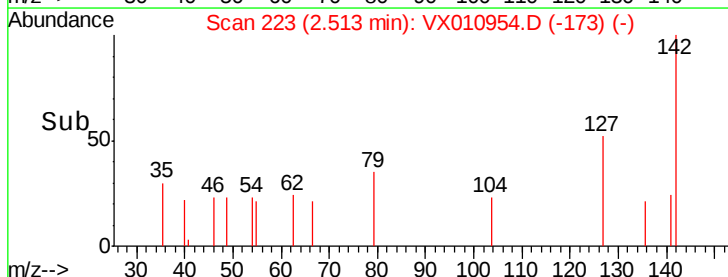
300

200

100

0

Time-->

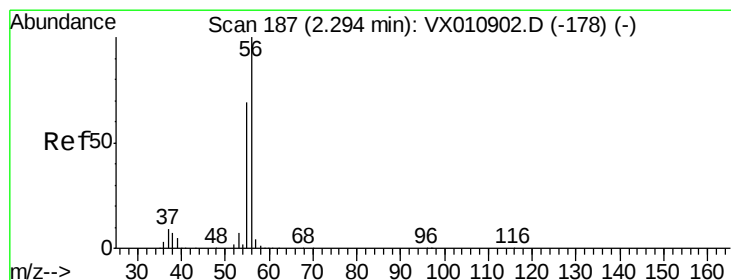
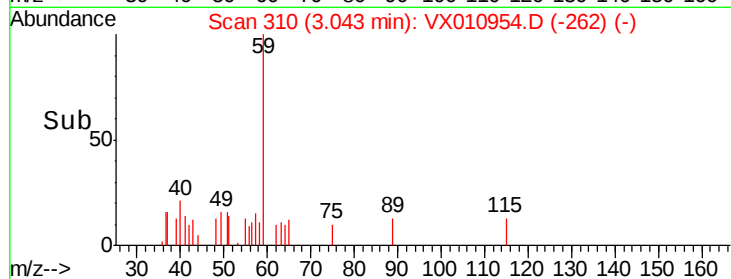
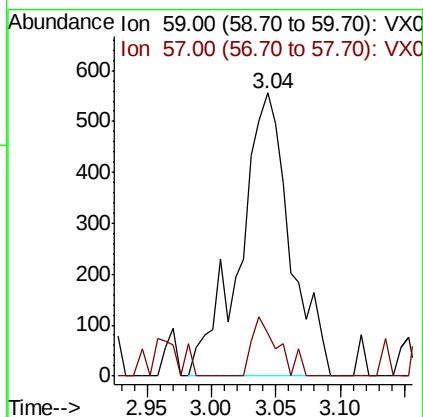
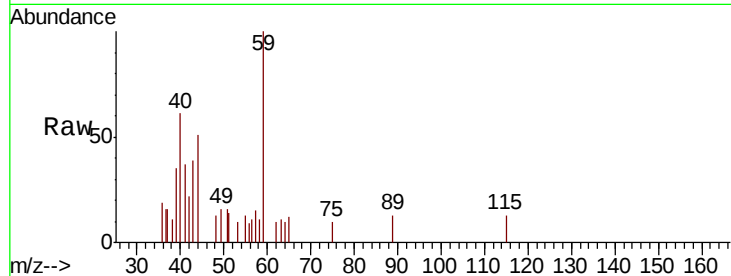




#11
Tert butyl alcohol
Concen: 2.756 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

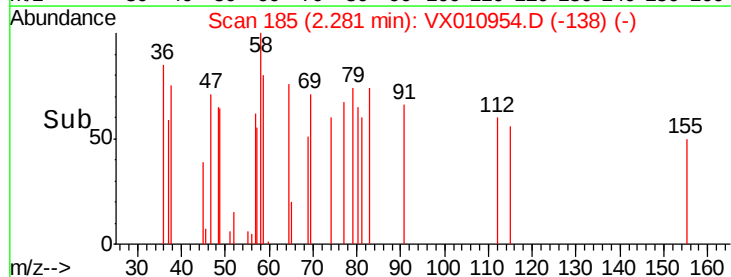
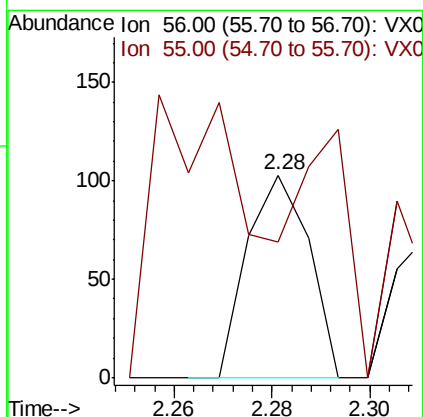
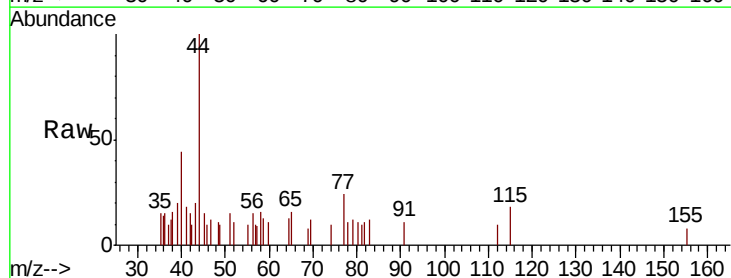
Instrument :
MSVOA_X
ClientSampled :
TW-8

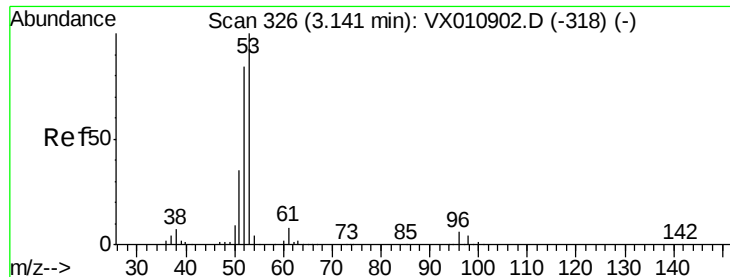
Tot Ion: 59 Resp: 1494
Ion Ratio Lower Upper
59 100
57 10.8 7.9 11.9



#13
Acrolein
Concen: 0.287 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

Tgt Ion: 56 Resp: 90
Ion Ratio Lower Upper
56 100
55 0.0 55.9 83.9#





#15

Acrylonitrile

Concen: 0.236 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

Instrument :

MSVOA_X

ClientSampled :

TW-8

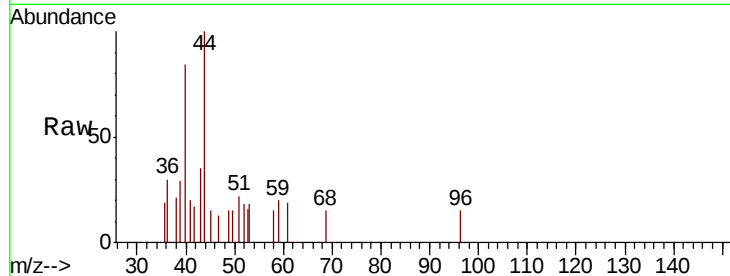
Tot Ion: 53 Resp: 259

Ion Ratio Lower Upper

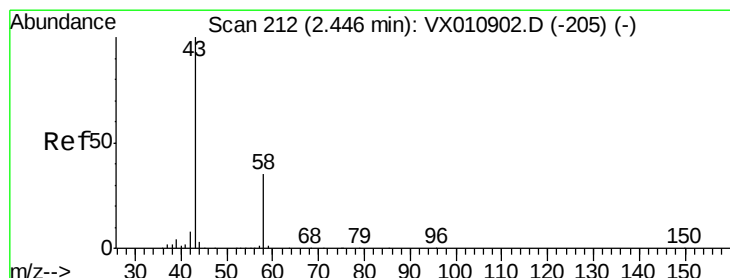
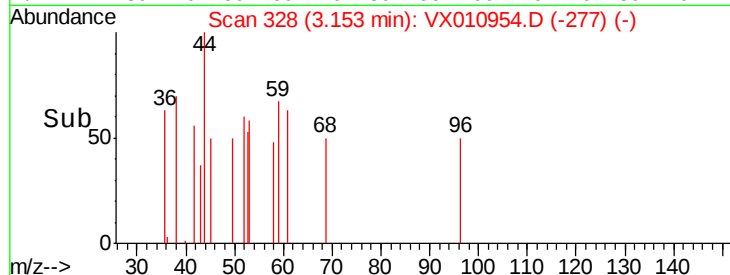
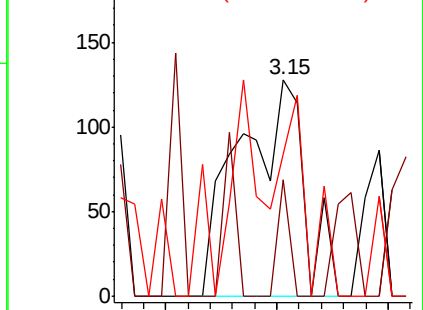
53 100

52 9.7 66.5 99.7#

51 37.8 28.2 42.4



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 2.516 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010954.D

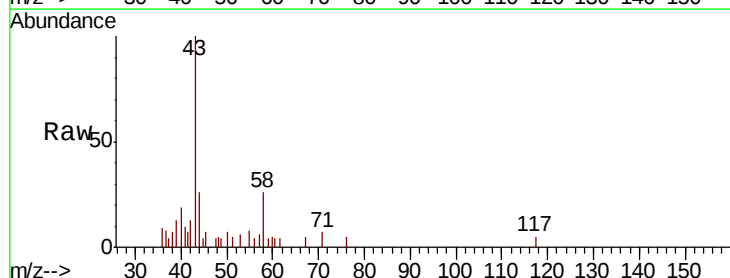
Acq: 18 Jul 2019 13:26

Tgt Ion: 43 Resp: 2645

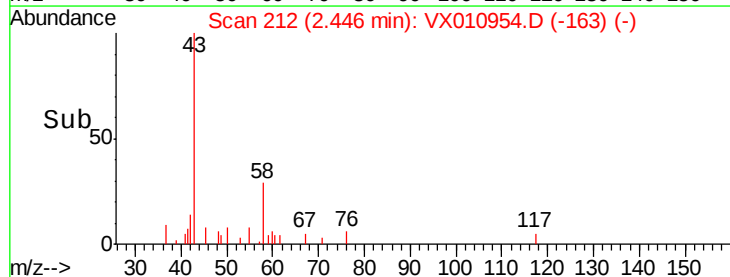
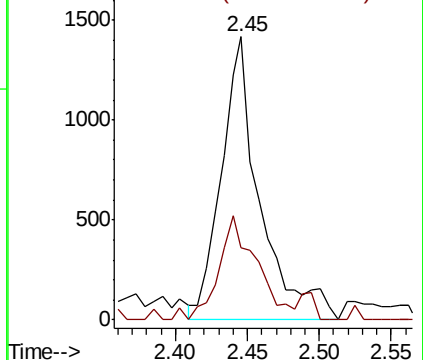
Ion Ratio Lower Upper

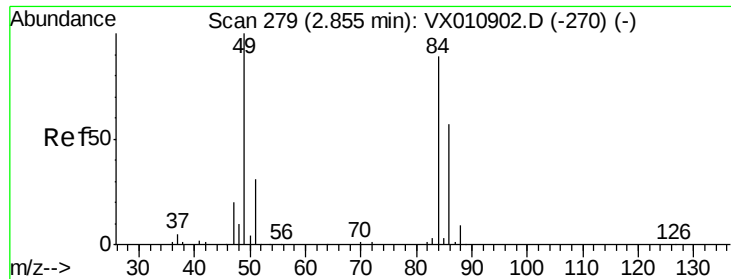
43 100

58 25.7 27.7 41.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

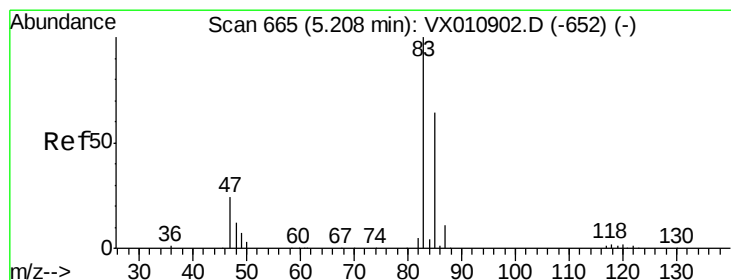
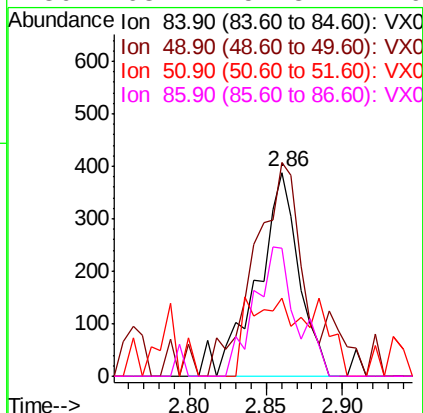
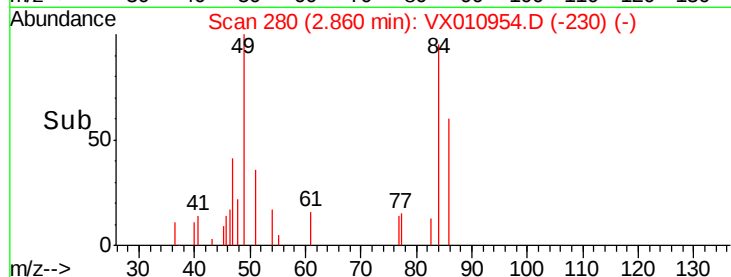
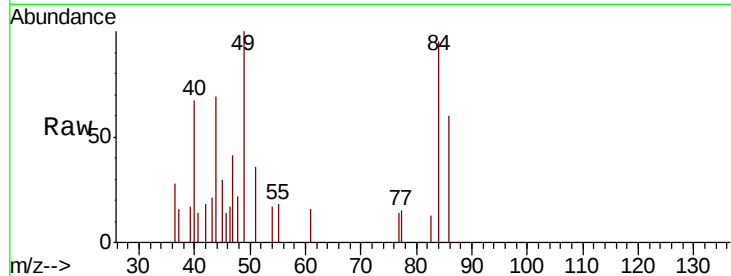




#20
Methylene Chloride
Concen: 0.331 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

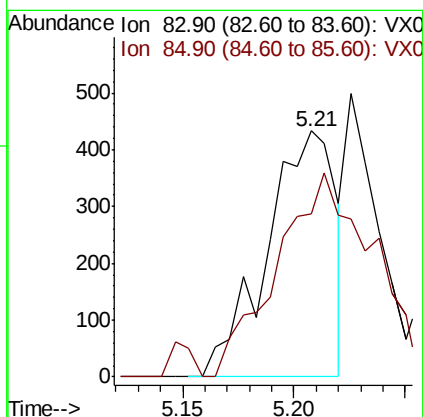
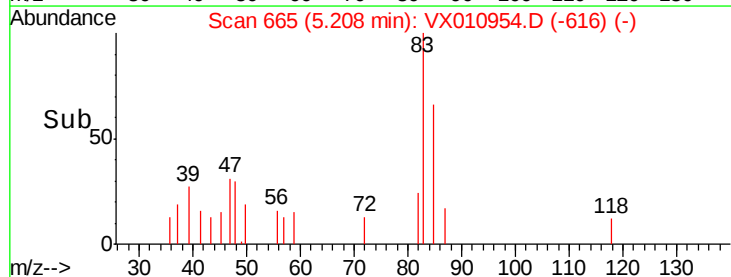
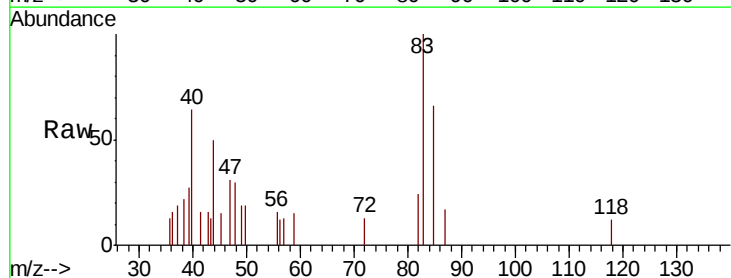
Instrument :
MSVOA_X
ClientSampled :
TW-8

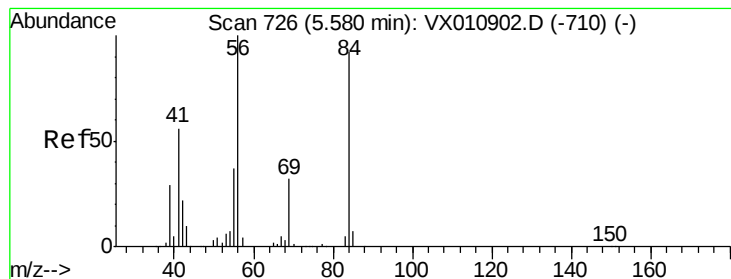
Tot Ion: 84 Resp: 737
Ion Ratio Lower Upper
84 100
49 89.4 89.9 134.9#
51 19.3 27.8 41.6#
86 63.1 51.8 77.6



#30
Chloroform
Concen: 0.248 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.00 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

Tgt Ion: 83 Resp: 931
Ion Ratio Lower Upper
83 100
85 54.3 51.4 77.0





#31

Cyclohexane

Concen: 1.356 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

Instrument :

MSVOA_X

ClientSampled :

TW-8

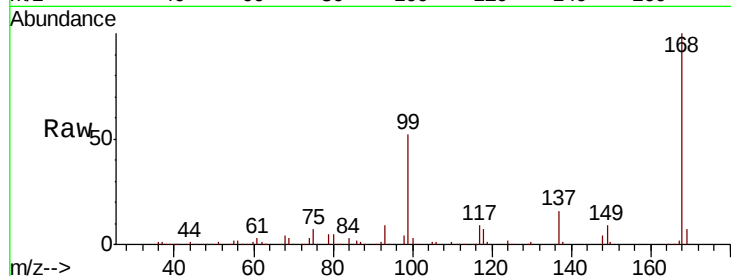
Tot Ion: 56 Resp: 4285

Ion Ratio Lower Upper

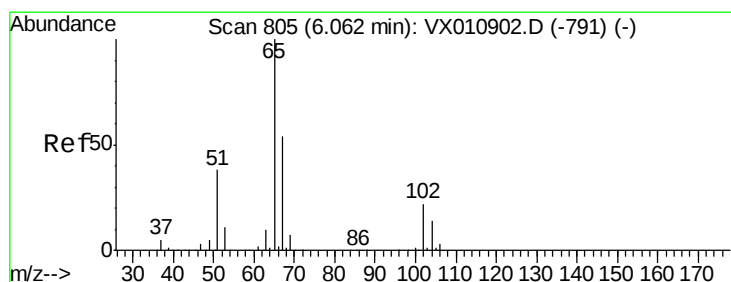
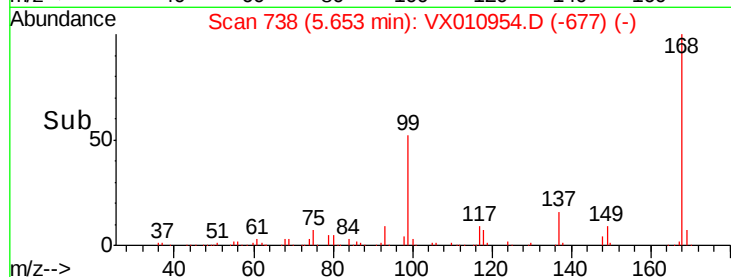
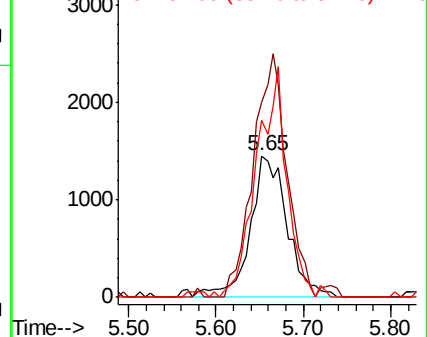
56 100

69 137.2 25.8 38.8#

84 125.3 73.8 110.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.413 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010954.D

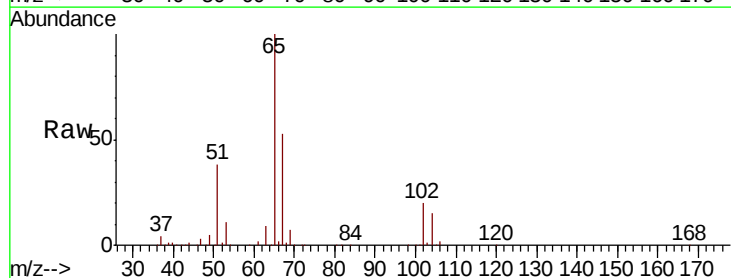
Acq: 18 Jul 2019 13:26

Tgt Ion: 65 Resp: 115018

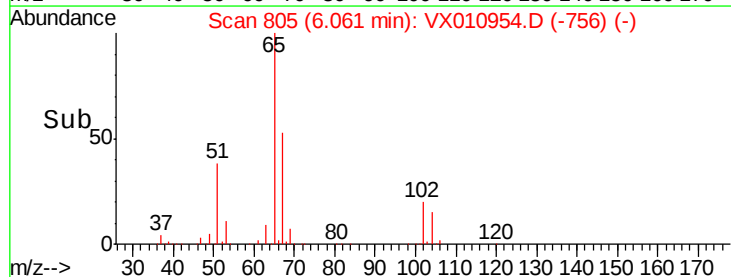
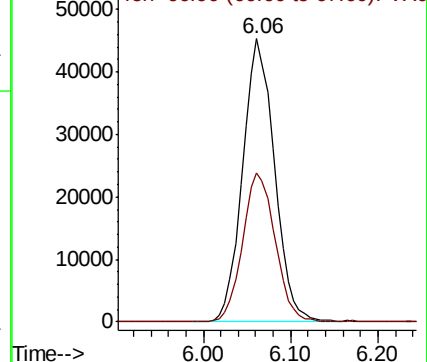
Ion Ratio Lower Upper

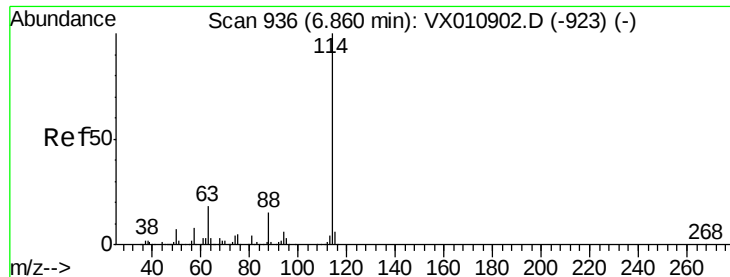
65 100

67 53.9 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

TW-8

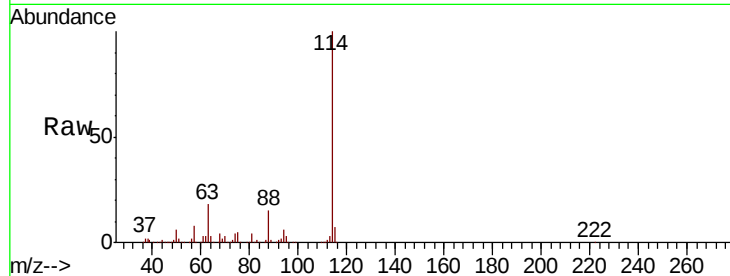
Tot Ion:114 Resp: 338918

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.6

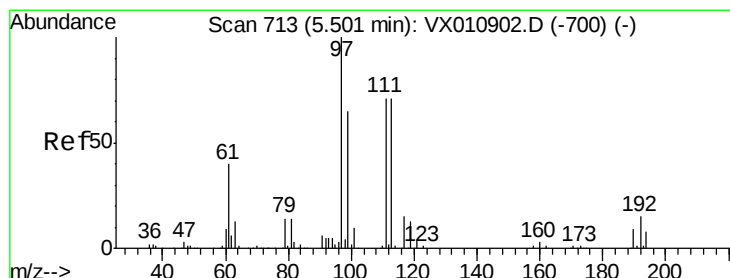
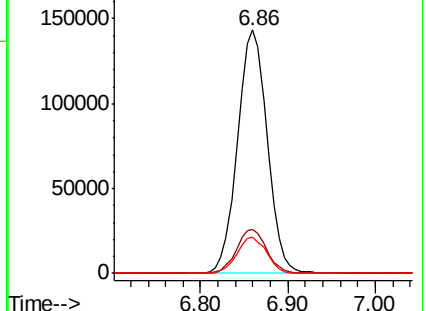
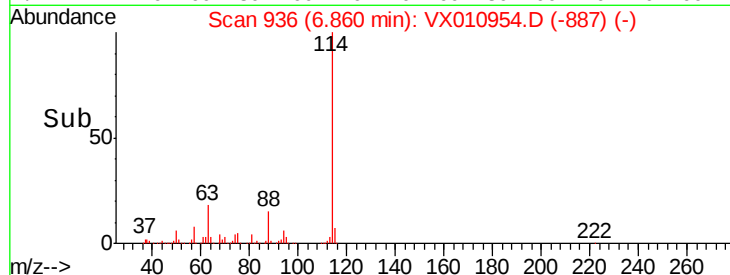
88 14.7 0.0 29.8



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: 48.348 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

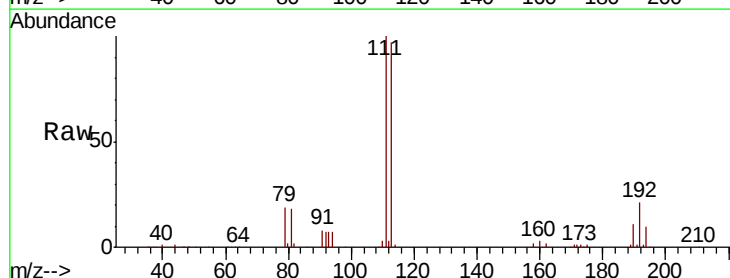
Tgt Ion:113 Resp: 104005

Ion Ratio Lower Upper

113 100

111 101.7 82.3 123.5

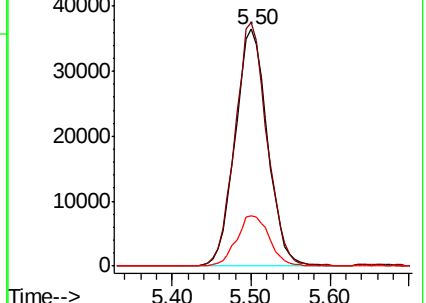
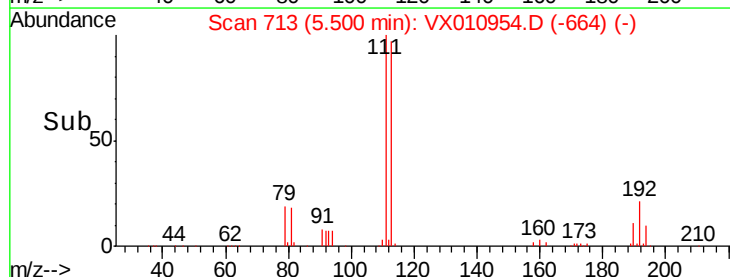
192 21.7 17.4 26.2

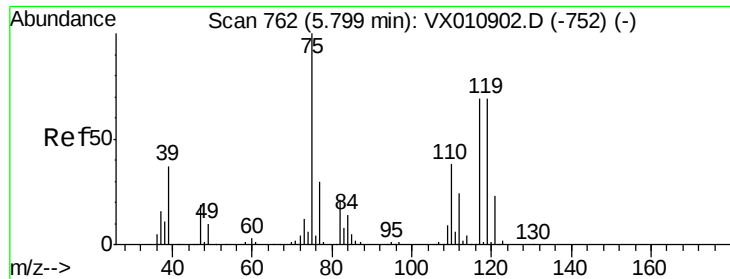


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.025 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

TW-8

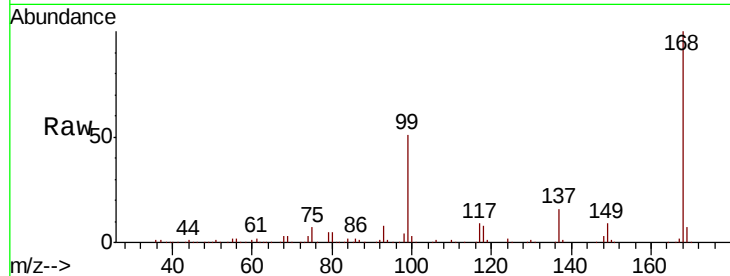
Tot Ion: 75 Resp: 13988

Ion Ratio Lower Upper

75 100

110 0.0 19.9 59.7#

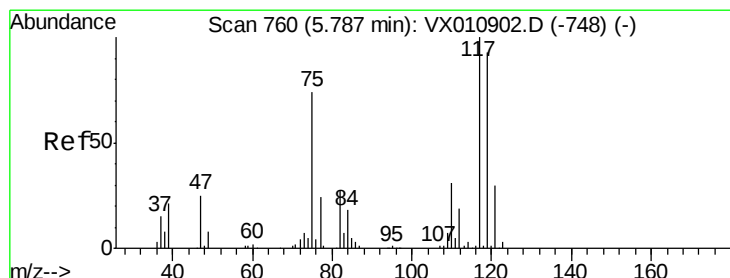
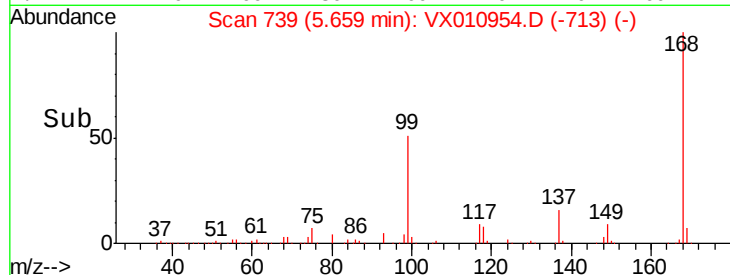
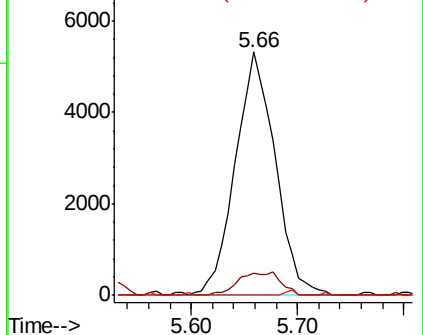
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.865 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010954.D

Acq: 18 Jul 2019 13:26

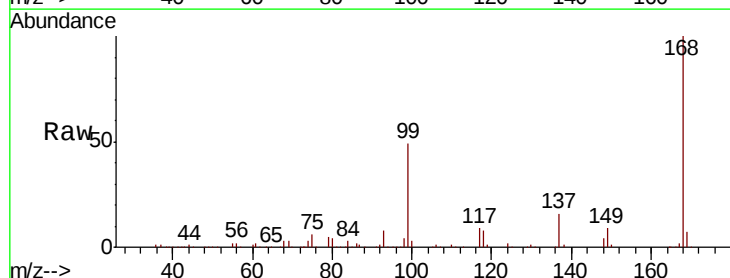
Tgt Ion: 117 Resp: 19915

Ion Ratio Lower Upper

117 100

119 5.9 74.2 111.2#

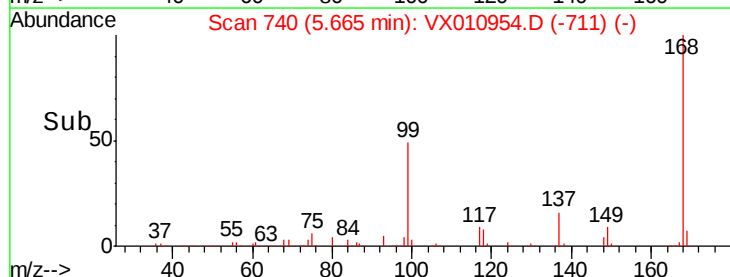
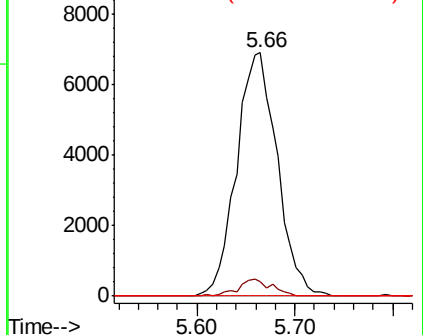
121 0.0 24.2 36.2#

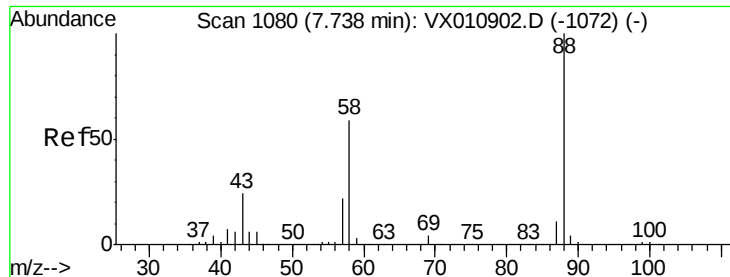


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

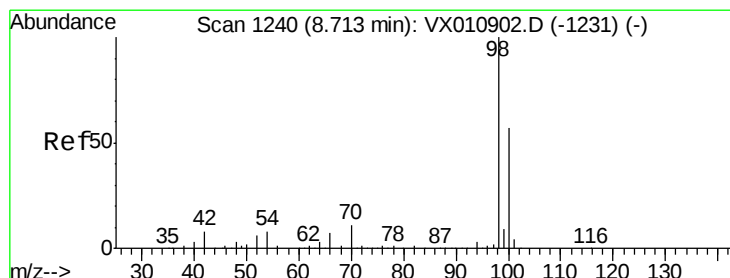
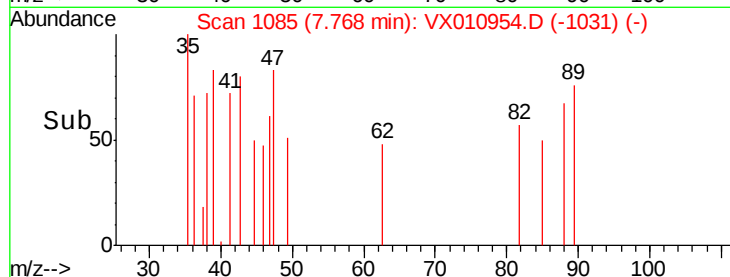
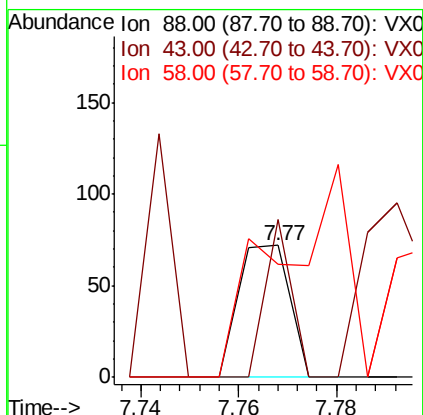
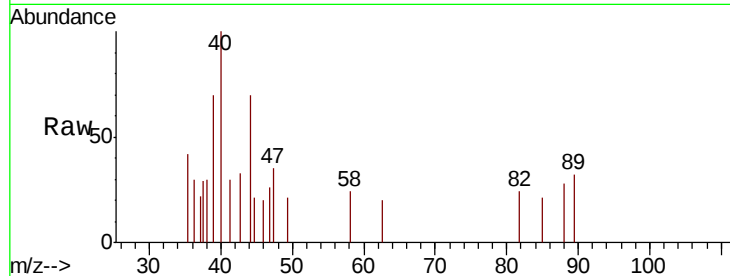




#49
1,4-Dioxane
Concen: 0.814 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

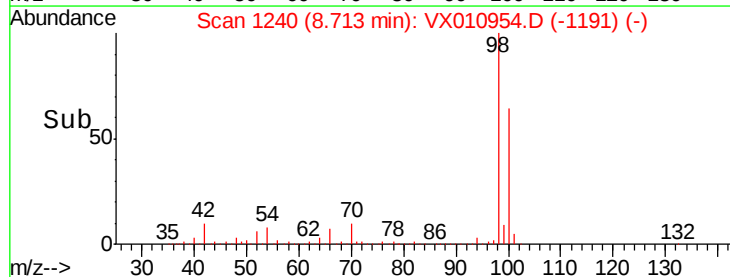
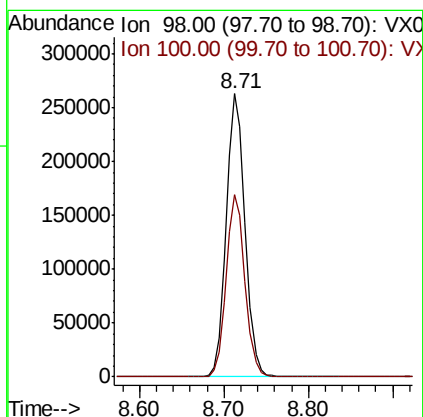
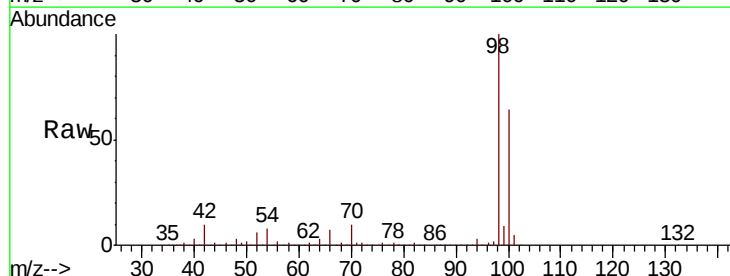
Instrument :
MSVOA_X
ClientSampled :
TW-8

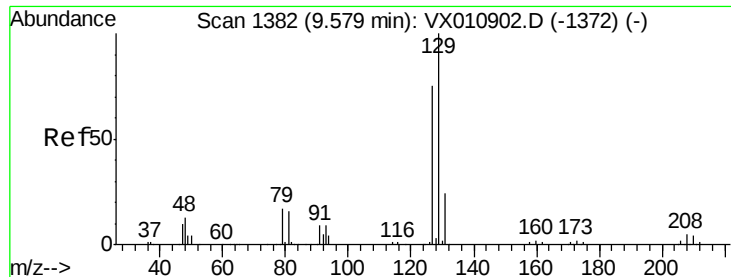
Tot Ion: 88 Resp: 52
Ion Ratio Lower Upper
88 100
43 59.6 22.9 34.3#
58 0.0 49.8 74.8#



#50
Toluene-d8
Concen: 49.827 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

Tgt Ion: 98 Resp: 402016
Ion Ratio Lower Upper
98 100
100 64.1 50.6 75.8

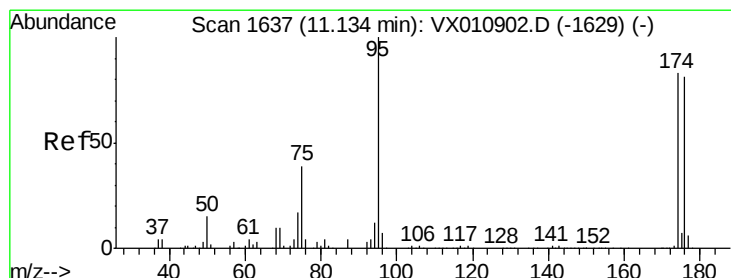
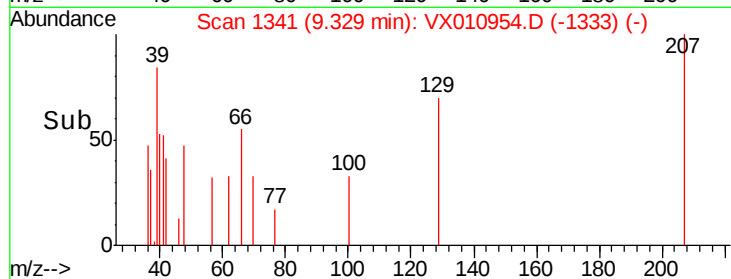
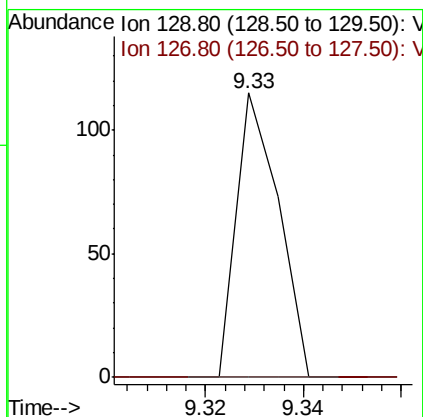
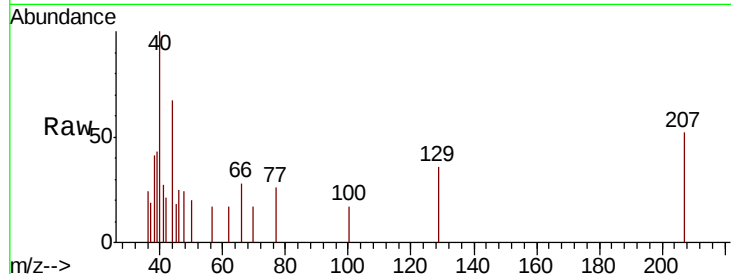




#60
Dibromochloromethane
Concen: 2.553 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.25 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

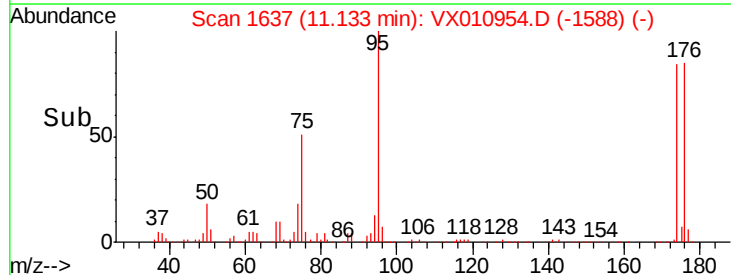
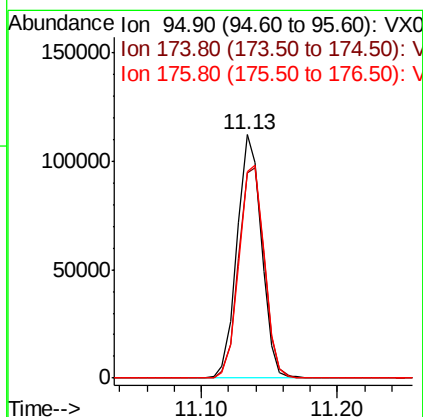
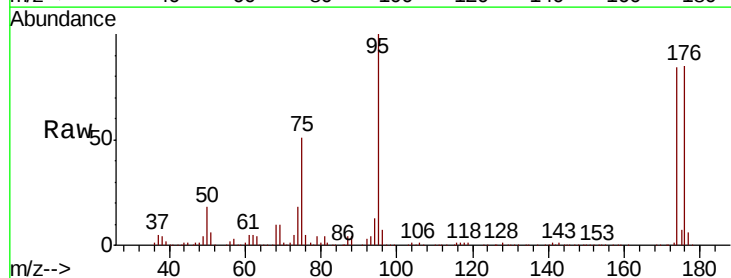
Instrument :
MSVOA_X
ClientSampleId :
TW-8

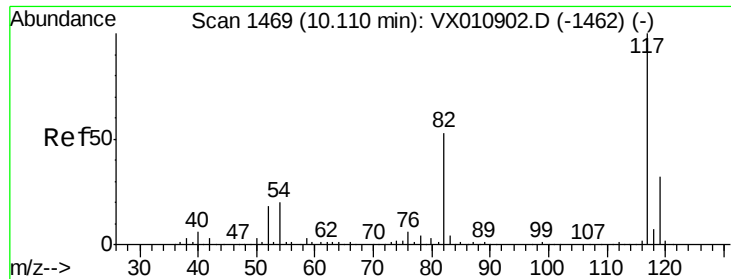
Tot Ion:129 Resp: 69
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



#62
4-Bromofluorobenzene
Concen: 47.463 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

Tgt Ion: 95 Resp: 140760
Ion Ratio Lower Upper
95 100
174 90.8 0.0 180.6
176 90.8 0.0 173.8

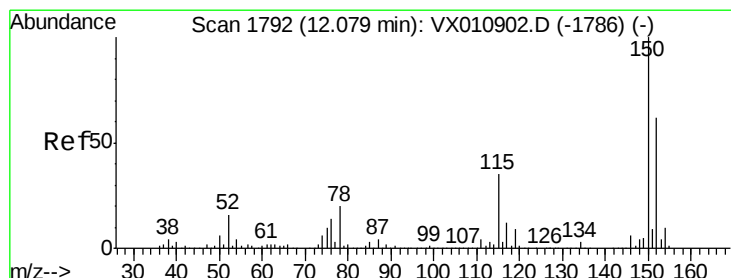
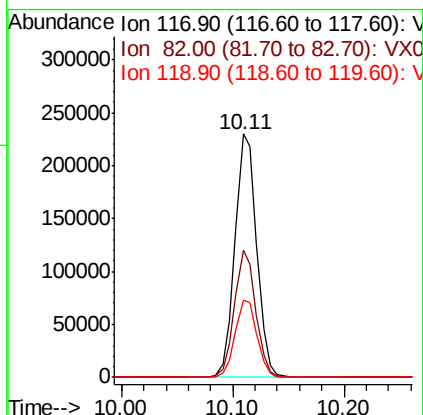
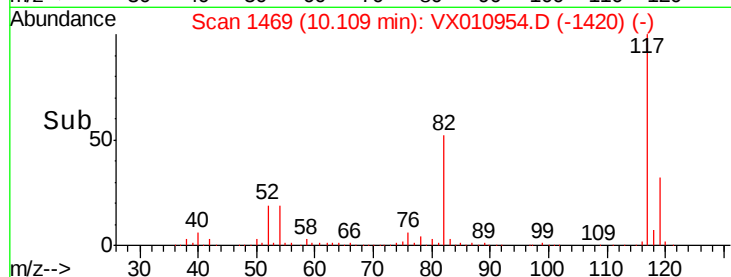
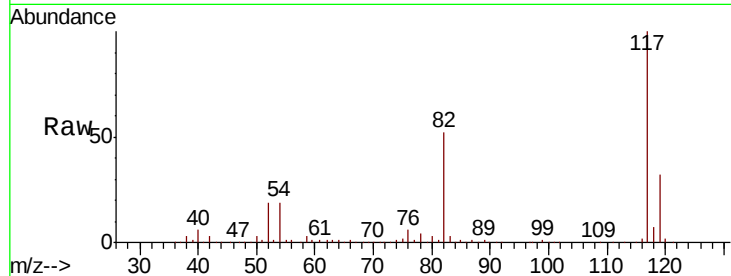




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

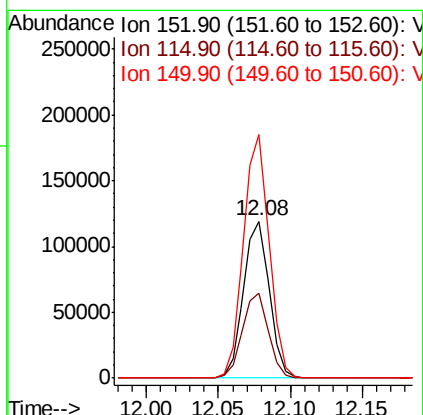
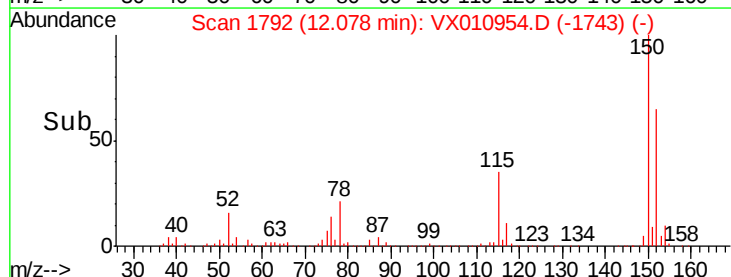
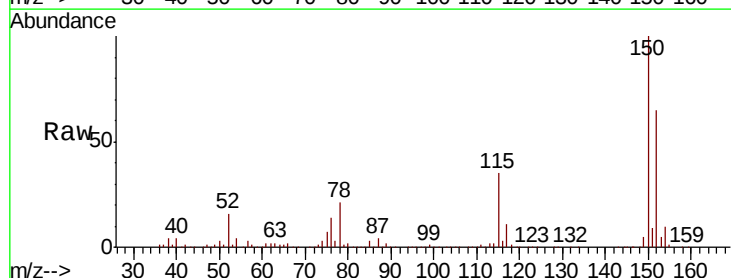
Instrument :
MSVOA_X
ClientSampled :
TW-8

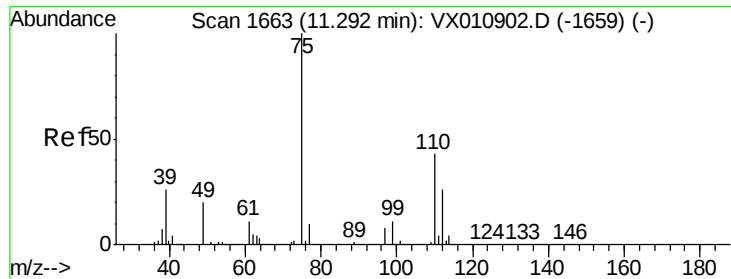
Tot Ion:117 Resp: 310915
Ion Ratio Lower Upper
117 100
82 52.4 42.6 63.8
119 31.6 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010954.D
Acq: 18 Jul 2019 13:26

Tgt Ion:152 Resp: 148058
Ion Ratio Lower Upper
152 100
115 54.6 39.7 119.1
150 154.6 0.0 345.6

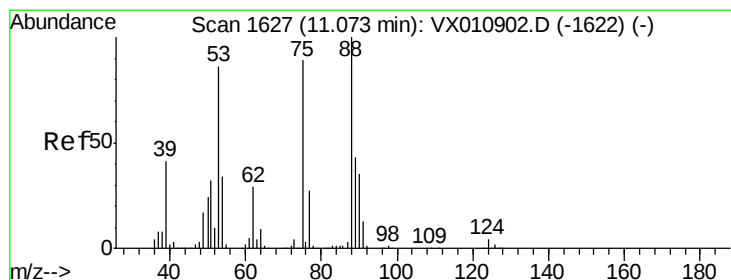
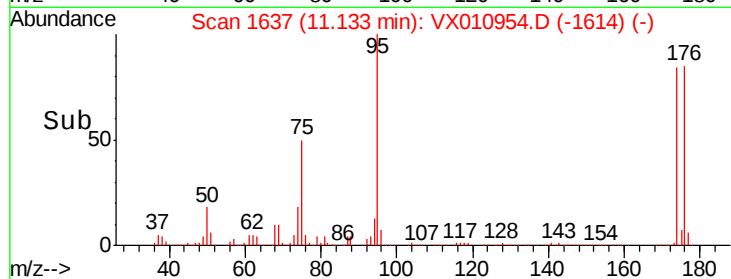
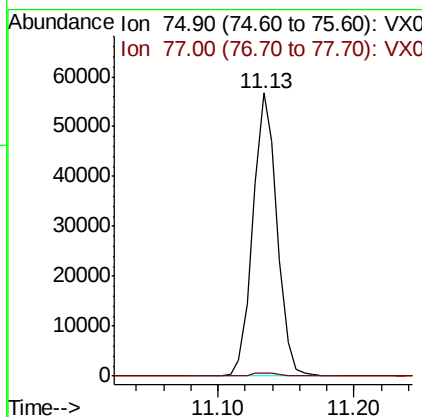
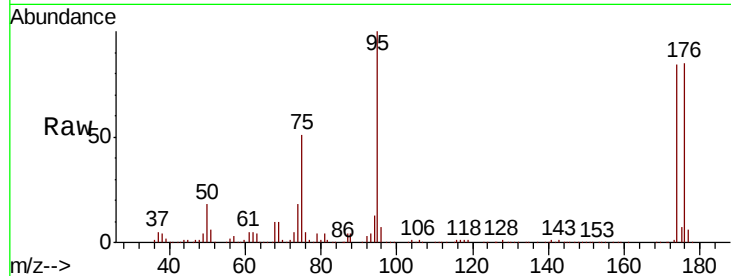




#76
 1,2,3-Trichloropropane
 Concen: 26.435 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010954.D
 Acq: 18 Jul 2019 13:26

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-8

Tot Ion: 75 Resp: 70629
 Ion Ratio Lower Upper
 75 100
 77 1.7 21.3 64.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.624 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010954.D
 Acq: 18 Jul 2019 13:26

Tgt Ion: 75 Resp: 70629
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.7 115.1#
 89 0.0 38.5 57.7#

