

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050919\
 Data File : VX009439.D
 Acq On : 09 May 2019 19:41
 Operator : JC/SP
 Sample : K2786-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 10 07:09:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	180674	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	291768	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	254692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109235	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	118990	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
35) Dibromofluoromethane	5.49	113	89175	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
50) Toluene-d8	8.71	98	360865	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
62) 4-Bromofluorobenzene	11.13	95	120038	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	

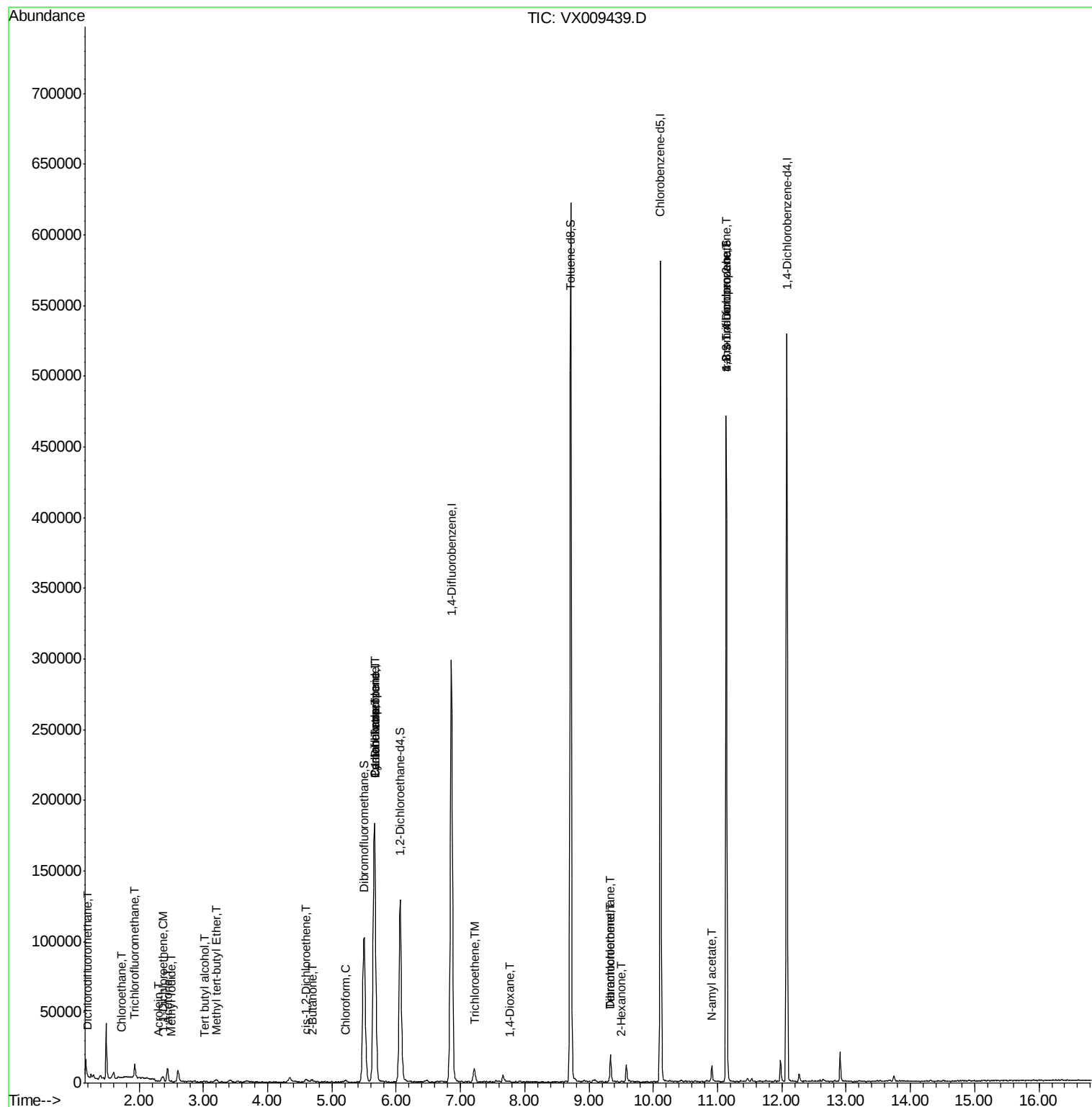
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	342	0.205	ug/l	99
6) Chloroethane	1.73	64	4453	3.129	ug/l #	46
7) Trichlorofluoromethane	1.93	101	5765	2.140	ug/l	89
10) Methyl Iodide	2.51	142	55	4.619	ug/l #	42
11) Tert butyl alcohol	3.02	59	465	0.814	ug/l #	92
12) 1,1-Dichloroethene	2.37	96	941	0.555	ug/l #	74
13) Acrolein	2.29	56	379	0.733	ug/l #	52
16) Acetone	2.44	43	10864	8.203	ug/l	93
19) Methyl tert-butyl Ether	3.20	73	1748	0.266	ug/l #	78
25) 2-Butanone	4.69	43	2063	1.002	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	1089	0.496	ug/l	91
28) Bromochloromethane	4.99	49	71	Below Cal	#	20
30) Chloroform	5.21	83	1053	0.297	ug/l	91
31) Cyclohexane	5.66	56	4030	1.105	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13600	5.016	ug/l #	50
38) Carbon Tetrachloride	5.67	117	17145	6.960	ug/l #	16
44) Trichloroethene	7.21	130	3782	1.864	ug/l	93
49) 1,4-Dioxane	7.76	88	19	0.313	ug/l #	20
59) 2-Hexanone	9.51	43	844	0.272	ug/l	84
60) Dibromochloromethane	9.33	129	3839	1.889	ug/l #	11
64) Tetrachloroethene	9.34	164	4067	2.328	ug/l	96
74) N-amyl acetate	10.91	43	1810	0.391	ug/l #	6
76) 1,2,3-Trichloropropane	11.13	75	61203	24.154	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61203	61.802	ug/l #	10

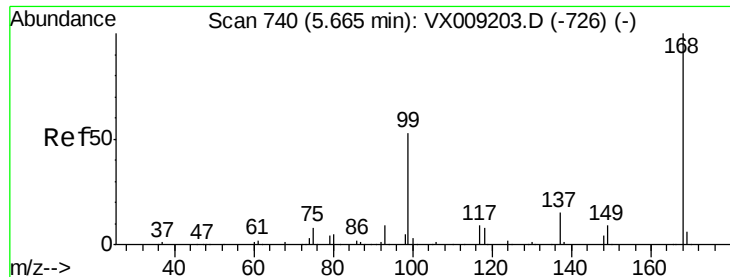
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

Quant Time: May 10 07:09:27 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

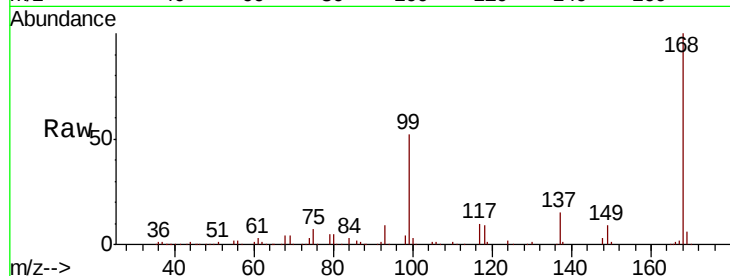
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 180674

Ion Ratio Lower Upper

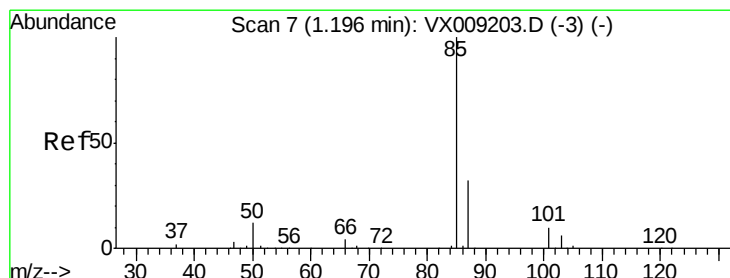
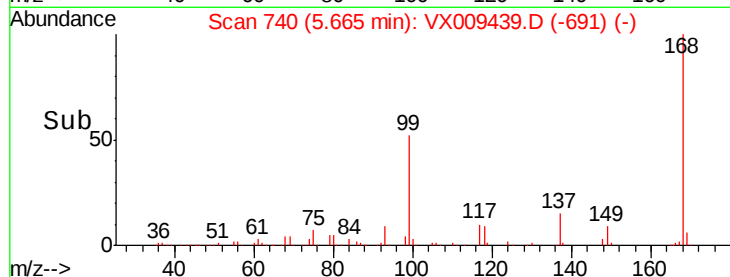
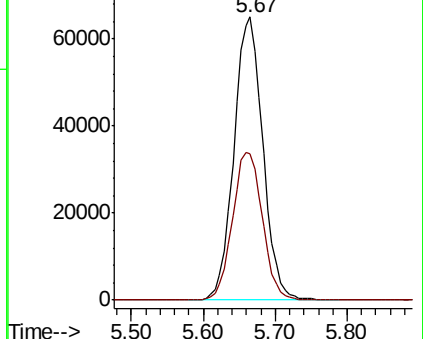
168 100

99 51.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.205 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX009439.D

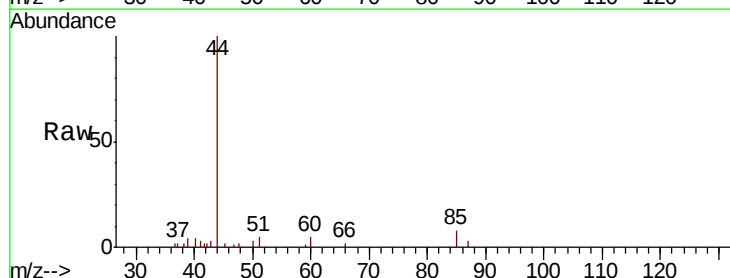
Acq: 09 May 2019 19:41

Tgt Ion: 85 Resp: 342

Ion Ratio Lower Upper

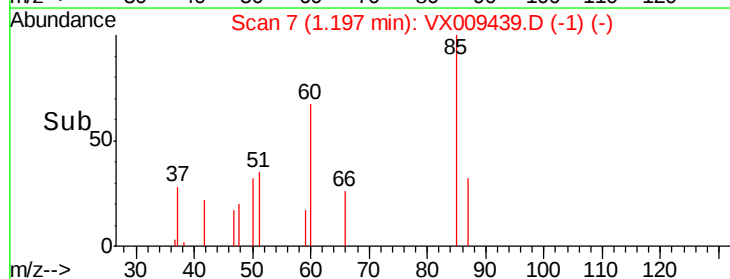
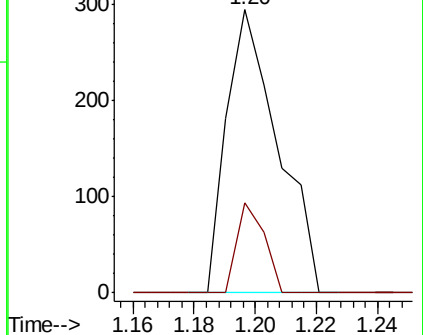
85 100

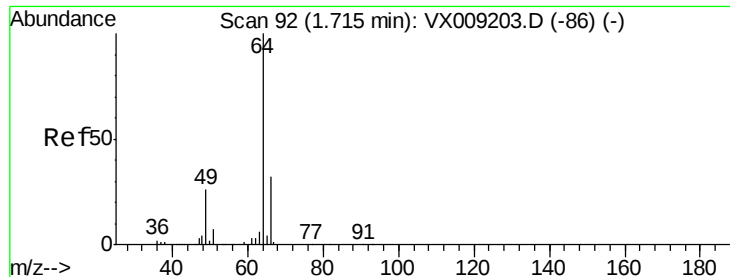
87 31.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#6

Chloroethane

Concen: 3.129 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

Instrument :

MSVOA_X

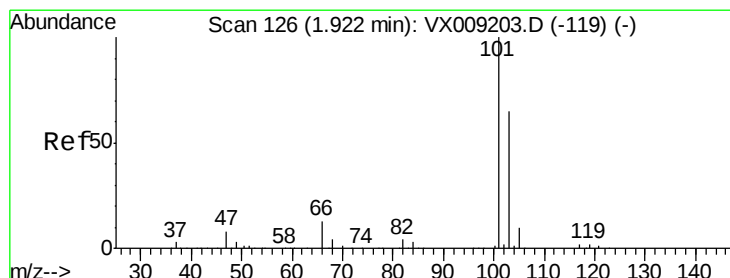
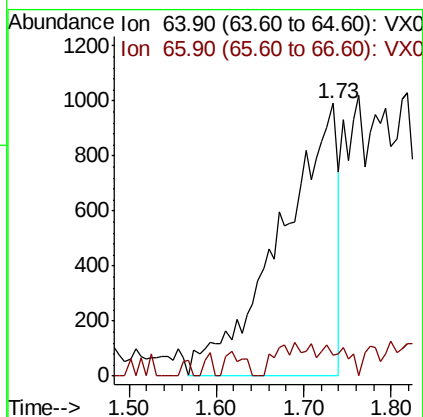
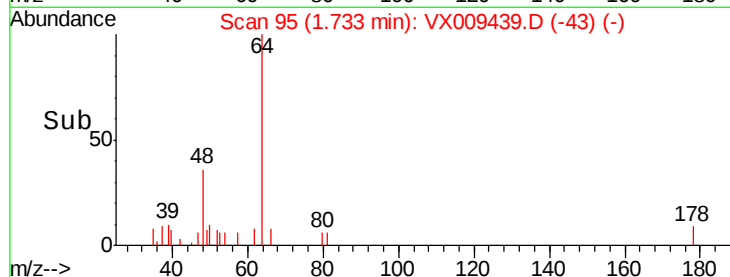
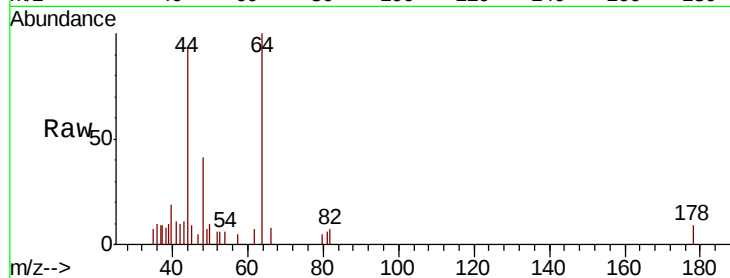
ClientSampleId :

Tot Ion: 64 Resp: 4453

Ion Ratio Lower Upper

64 100

66 1.9 25.3 37.9#



#7

Trichlorofluoromethane

Concen: 2.140 ug/l

RT: 1.93 min Scan# 128

Delta R.T. 0.01 min

Lab File: VX009439.D

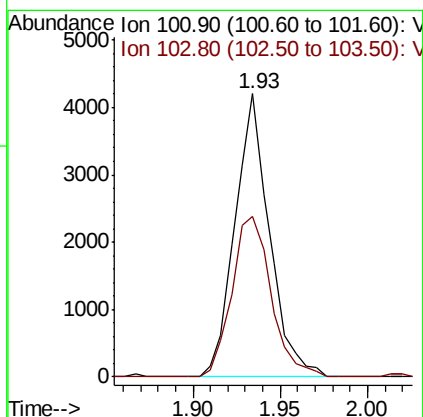
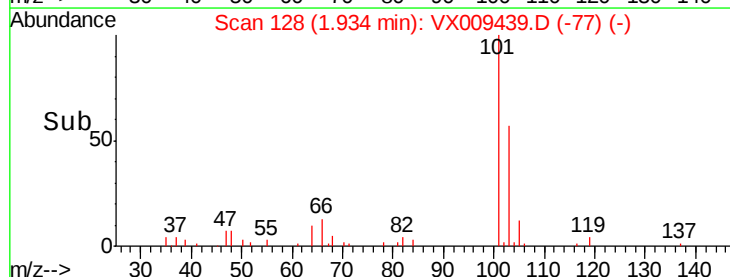
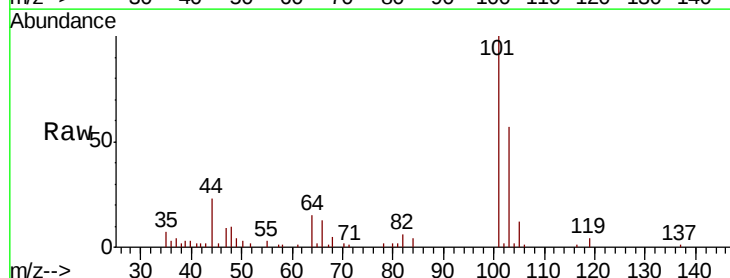
Acq: 09 May 2019 19:41

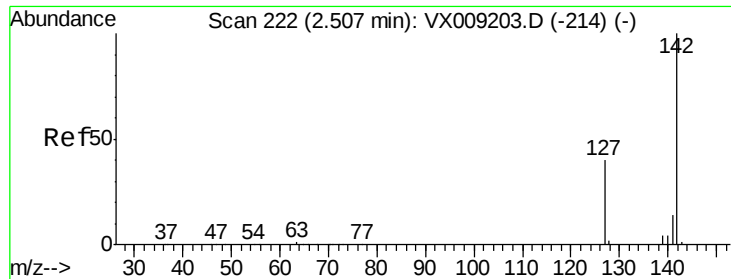
Tgt Ion: 101 Resp: 5765

Ion Ratio Lower Upper

101 100

103 56.8 52.4 78.6

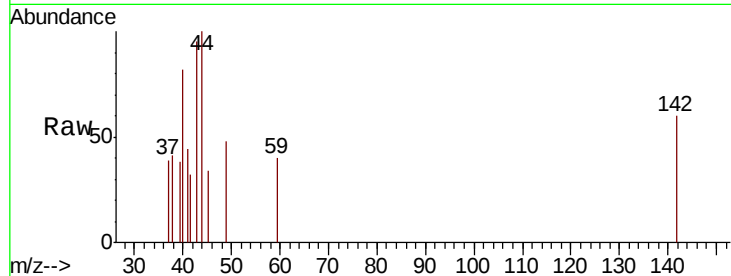




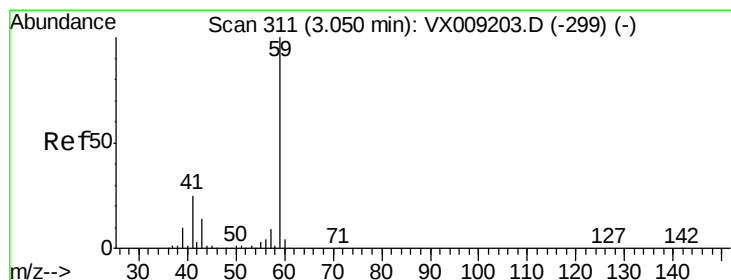
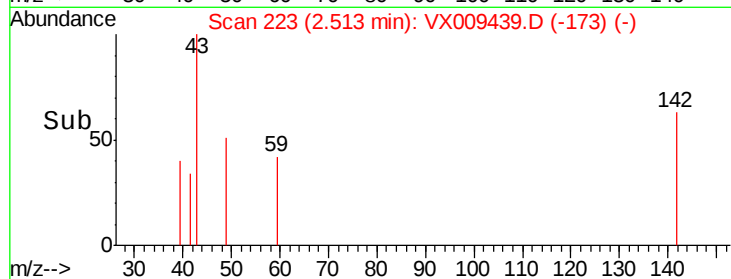
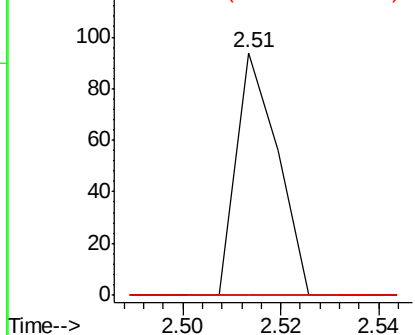
#10
Methvl Iodide
Concen: 4.619 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009439.D
Acq: 09 May 2019 19:41

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 55
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

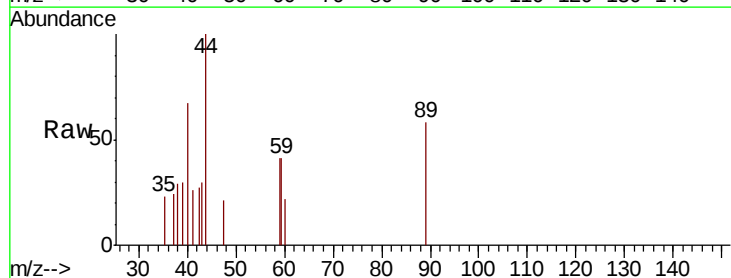


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

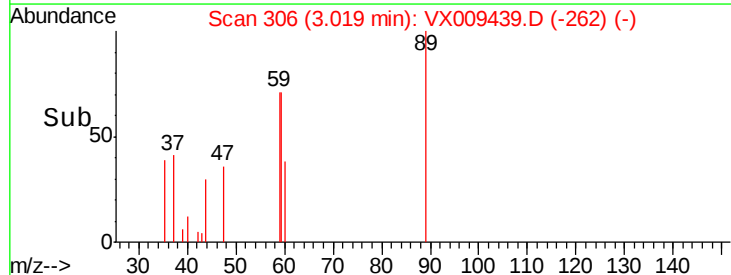
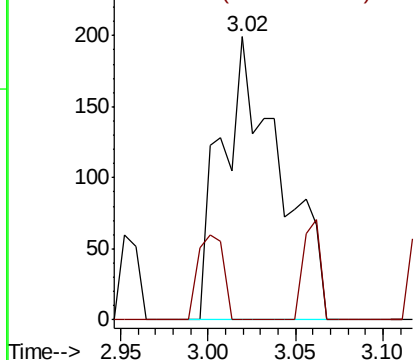


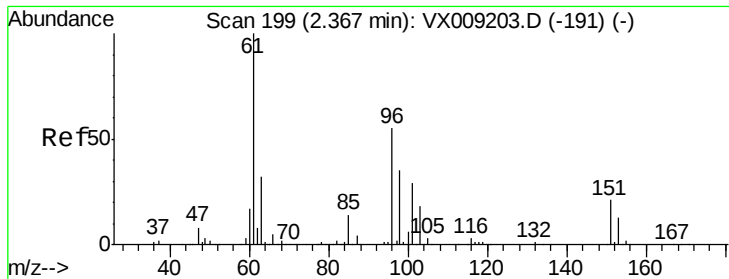
#11
Tert butyl alcohol
Concen: 0.814 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009439.D
Acq: 09 May 2019 19:41

Tgt Ion: 59 Resp: 465
Ion Ratio Lower Upper
59 100
57 13.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.555 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

Instrument :

MSVOA_X

ClientSampled :

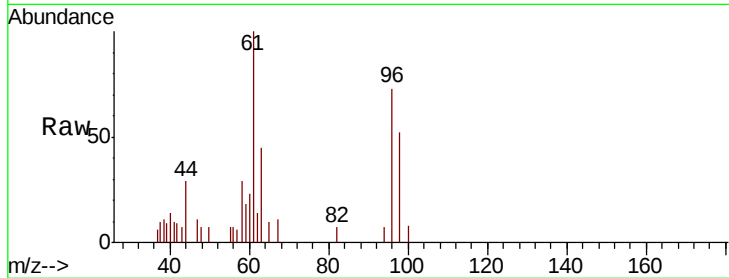
Tot Ion: 96 Resp: 941

Ion Ratio Lower Upper

96 100

61 136.9 144.3 216.5#

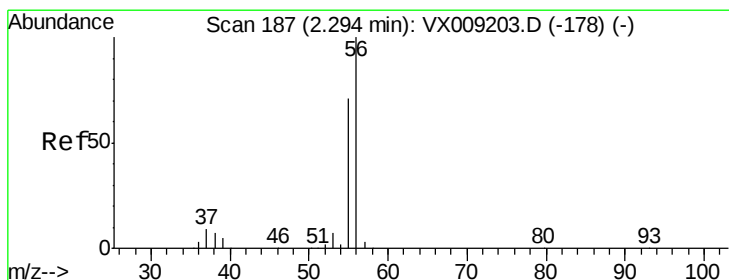
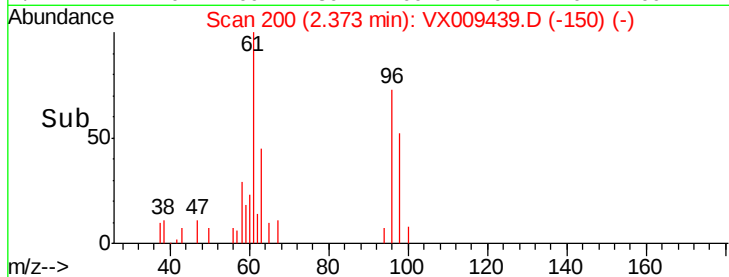
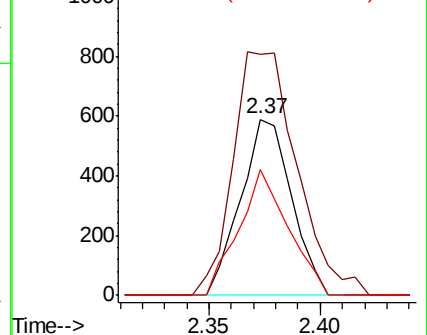
98 71.5 50.3 75.5



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



#13

Acrolein

Concen: 0.733 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009439.D

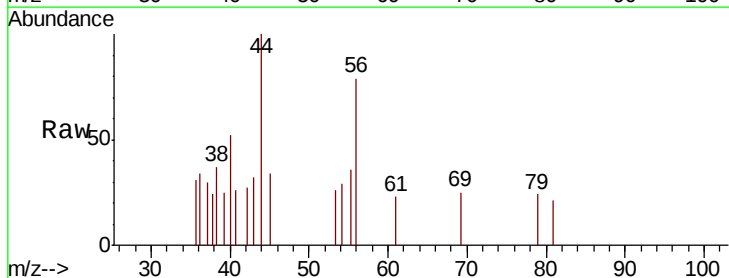
Acq: 09 May 2019 19:41

Tgt Ion: 56 Resp: 379

Ion Ratio Lower Upper

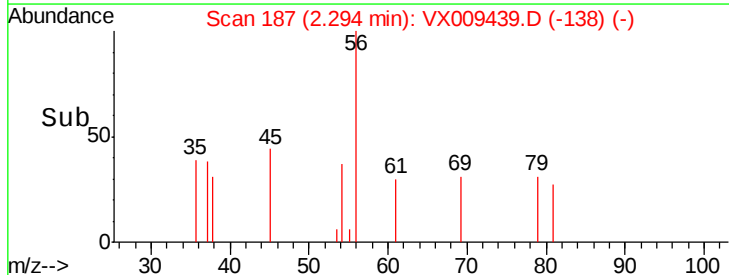
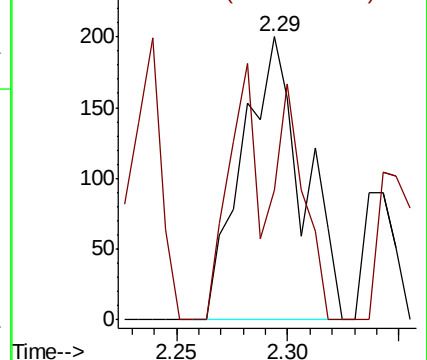
56 100

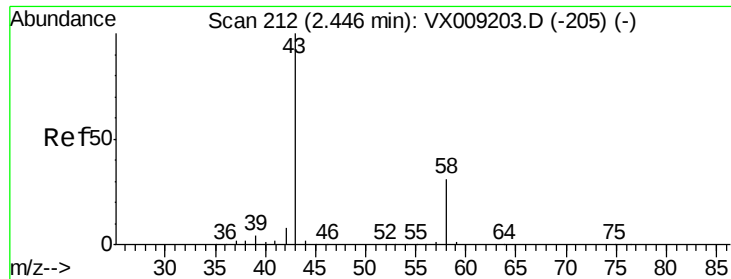
55 31.1 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

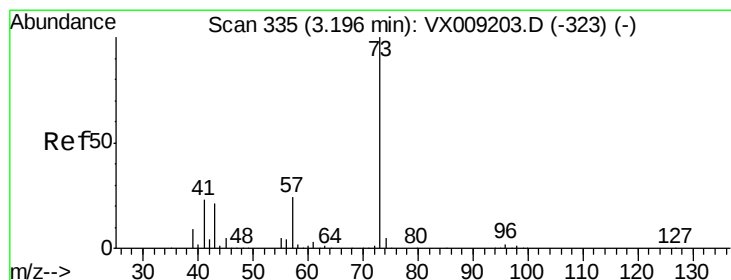
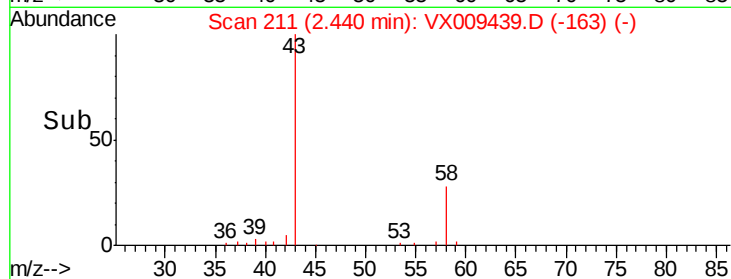
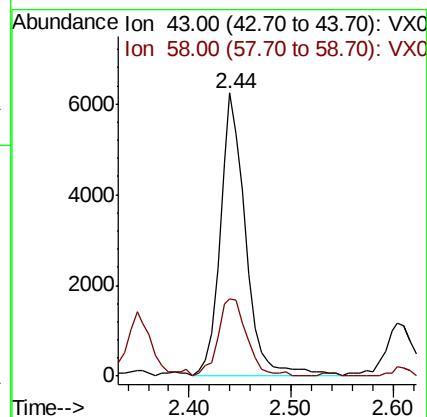
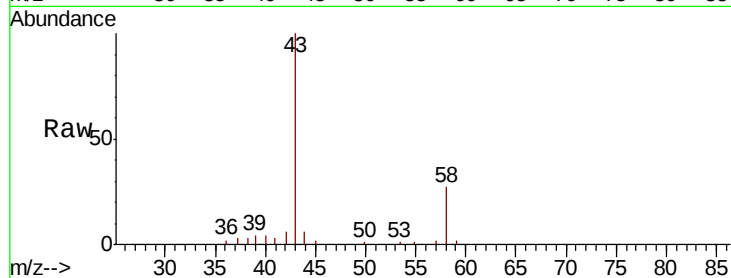




#16
Acetone
Concen: 8.203 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX009439.D
Acq: 09 May 2019 19:41

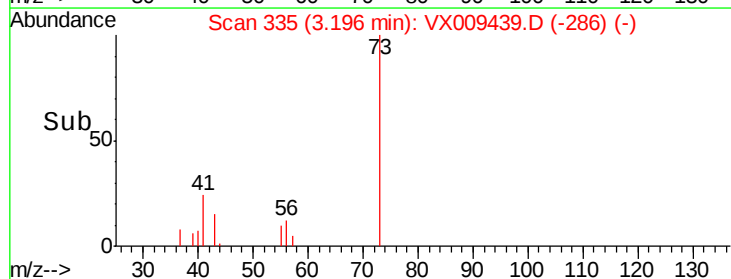
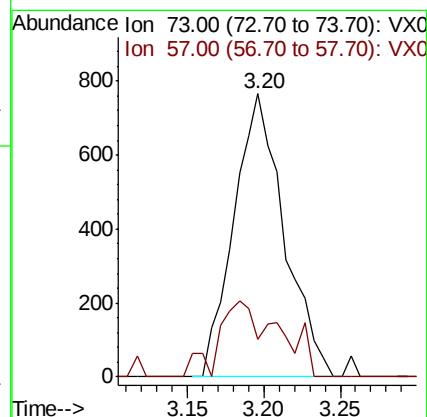
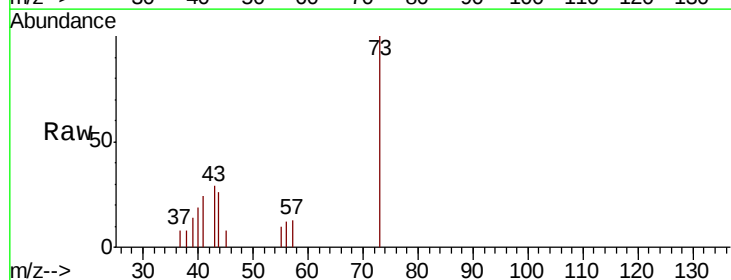
Instrument :
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ClientSampleId :

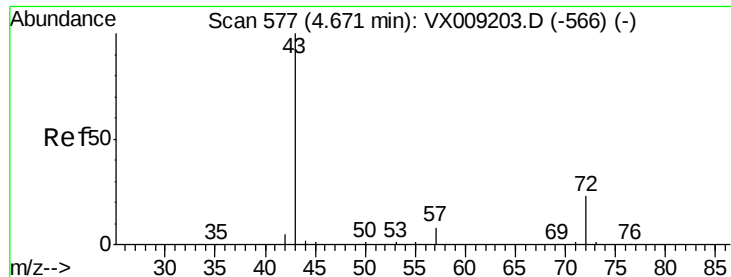
Tot Ion: 43 Resp: 10864
Ion Ratio Lower Upper
43 100
58 27.2 24.9 37.3



#19
Methyl tert-butyl Ether
Concen: 0.266 ug/l
RT: 3.20 min Scan# 335
Delta R.T. 0.00 min
Lab File: VX009439.D
Acq: 09 May 2019 19:41

Tgt Ion: 73 Resp: 1748
Ion Ratio Lower Upper
73 100
57 13.2 19.3 28.9#





#25

2-Butanone

Concen: 1.002 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

Instrument :

MSVOA_X

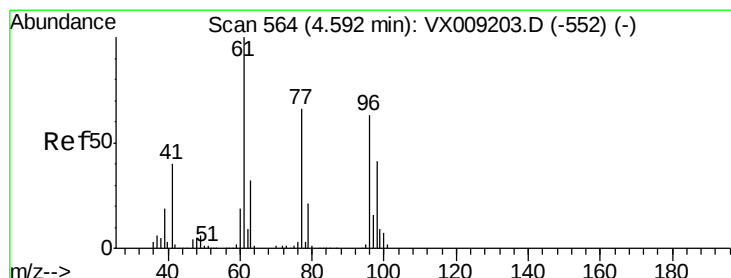
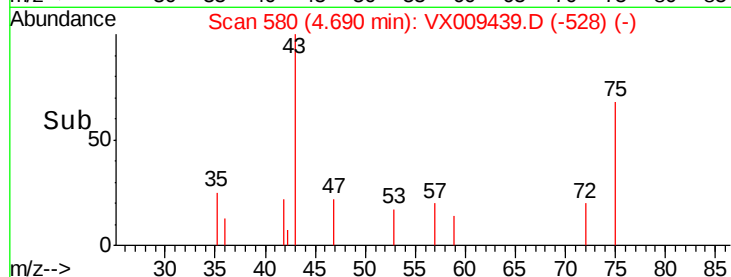
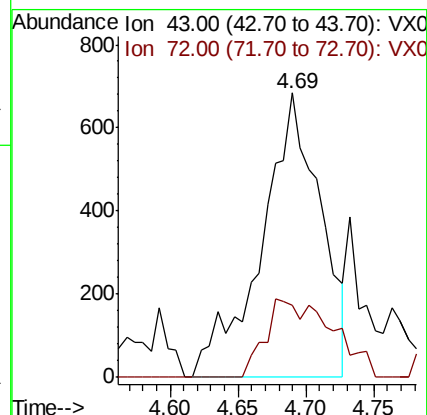
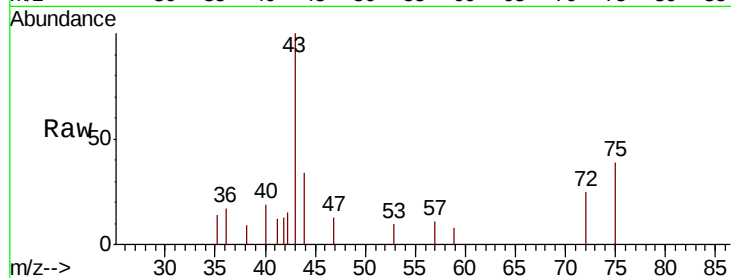
ClientSampleId :

Tot Ion: 43 Resp: 2063

Ion Ratio Lower Upper

43 100

72 25.3 18.2 27.2



#27

cis-1,2-Dichloroethene

Concen: 0.496 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

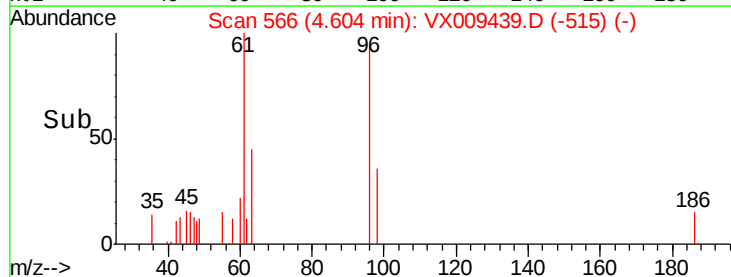
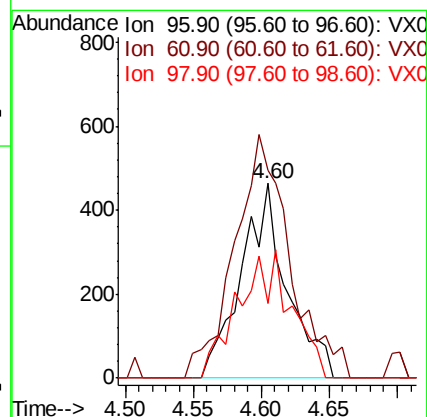
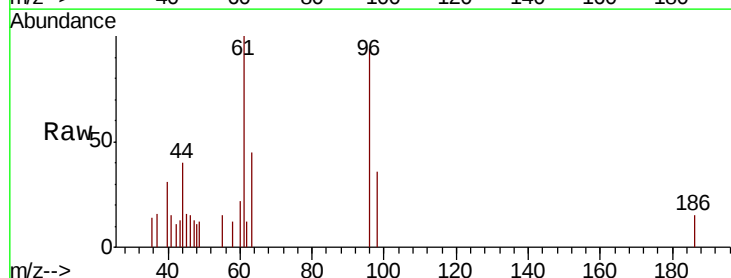
Tgt Ion: 96 Resp: 1089

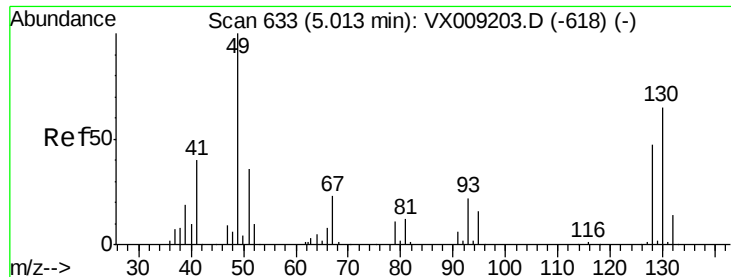
Ion Ratio Lower Upper

96 100

61 151.5 0.0 324.0

98 75.6 0.0 130.4





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 629

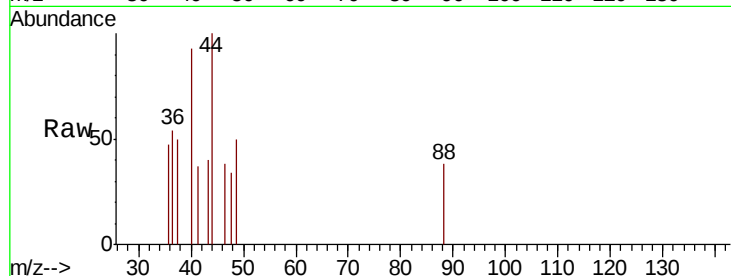
Delta R.T. -0.02 min

Lab File: VX009439.D

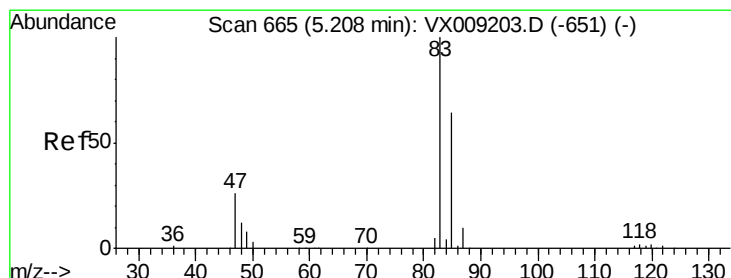
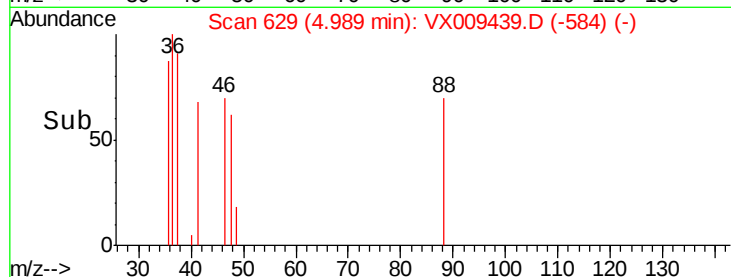
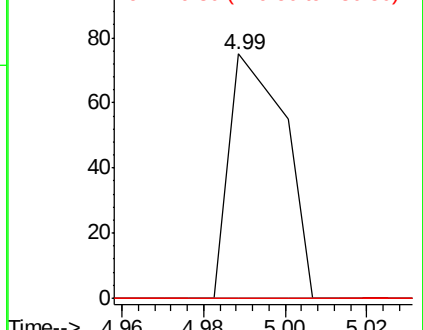
Acq: 09 May 2019 19:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 71
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



#30

Chloroform

Concen: 0.297 ug/l

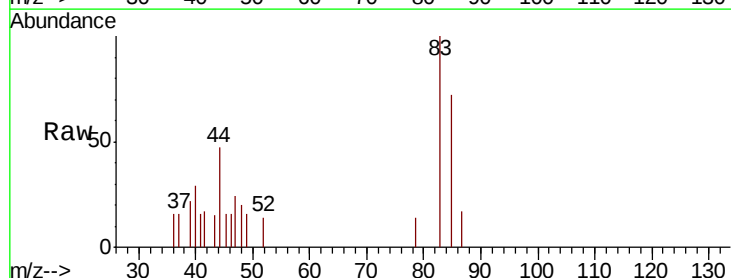
RT: 5.21 min Scan# 665

Delta R.T. 0.00 min

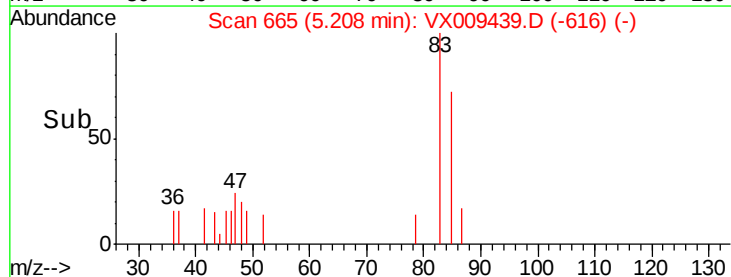
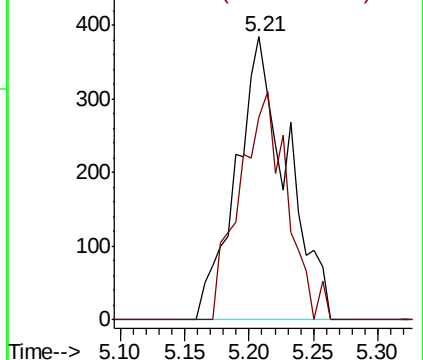
Lab File: VX009439.D

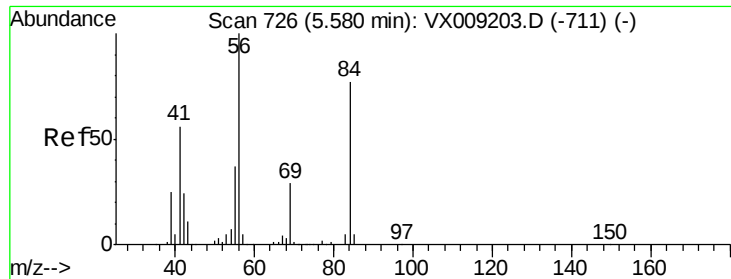
Acq: 09 May 2019 19:41

Tgt Ion: 83 Resp: 1053
Ion Ratio Lower Upper
83 100
85 71.6 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

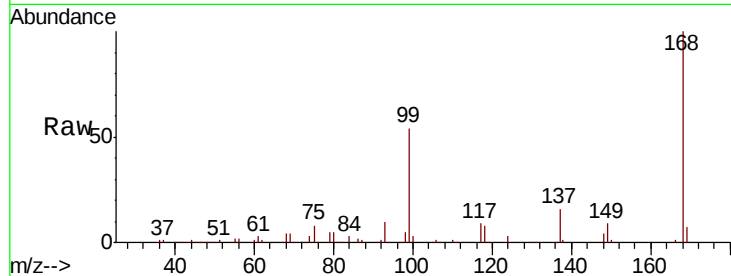




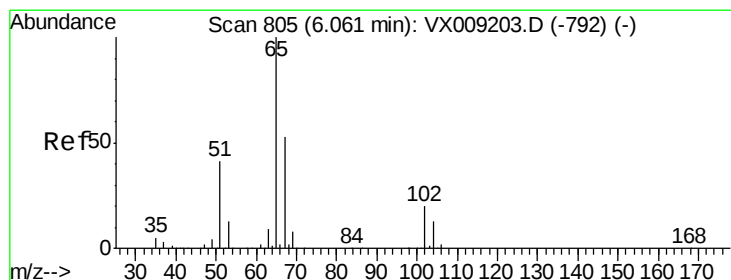
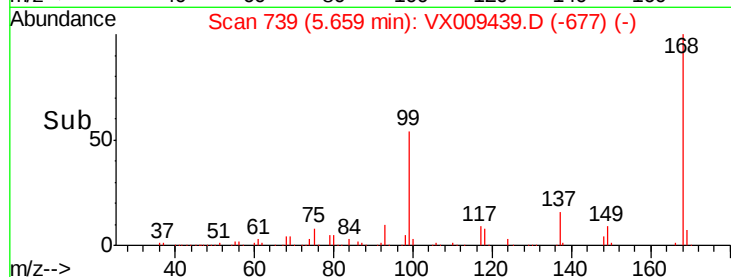
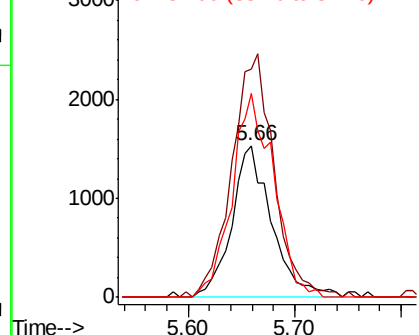
#31
Cyclohexane
Concen: 1.105 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009439.D
Acq: 09 May 2019 19:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4030
Ion Ratio Lower Upper
56 100
69 150.9 23.4 35.0#
84 134.3 61.9 92.9#

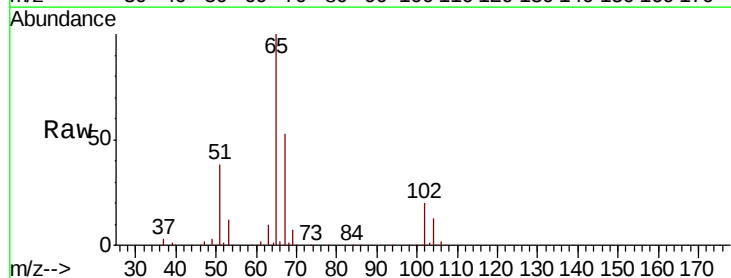


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

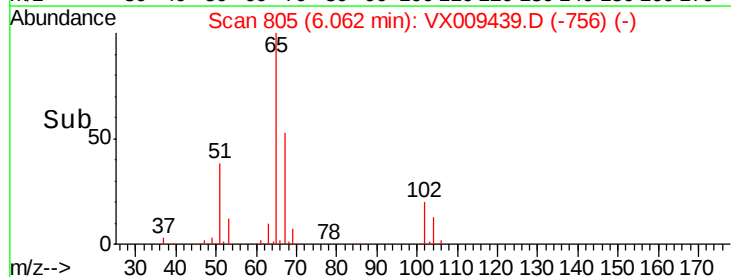
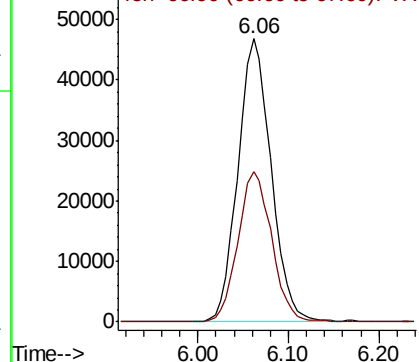


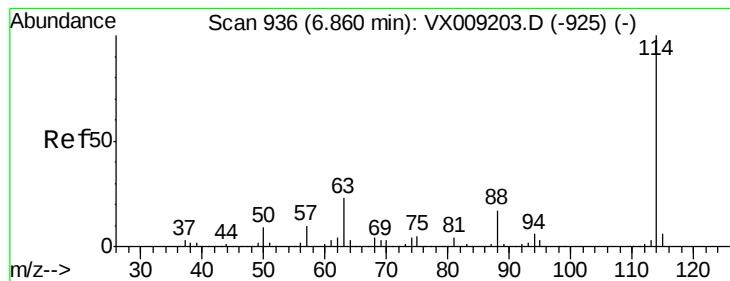
#33
1,2-Dichloroethane-d4
Concen: 48.244 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX009439.D
Acq: 09 May 2019 19:41

Tgt Ion: 65 Resp: 118990
Ion Ratio Lower Upper
65 100
67 54.0 0.0 106.6



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: VX009439.D

Acq: 09 May 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

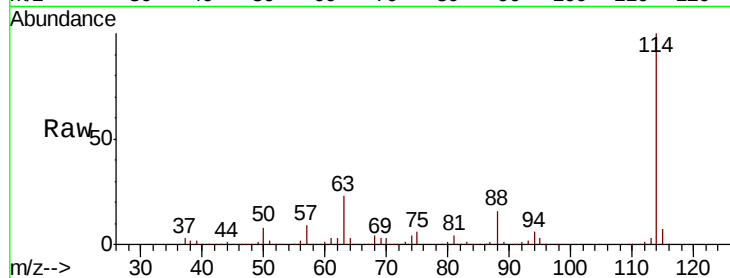
Tot Ion:114 Resp: 291768

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.6

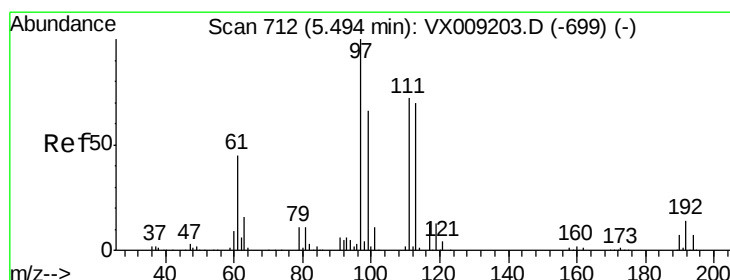
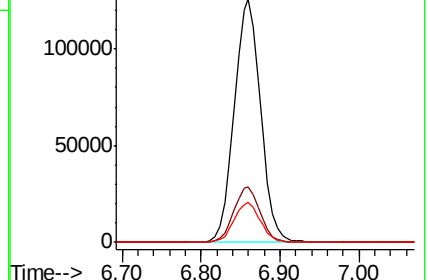
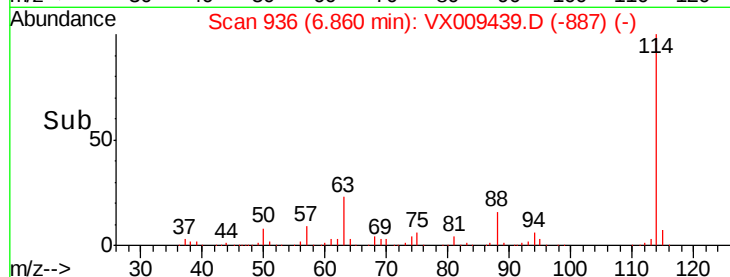
88 16.3 0.0 33.2



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: 48.619 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

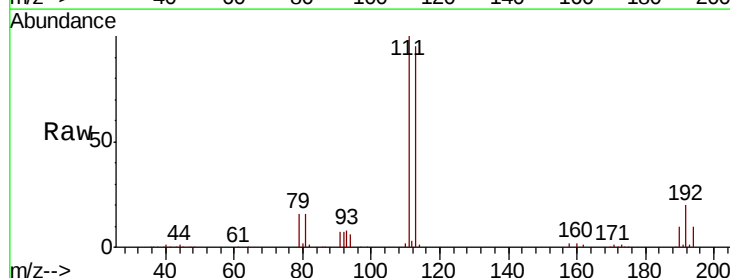
Tgt Ion:113 Resp: 89175

Ion Ratio Lower Upper

113 100

111 103.1 82.8 124.2

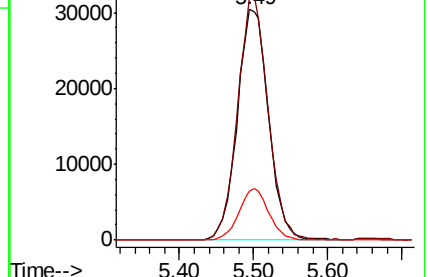
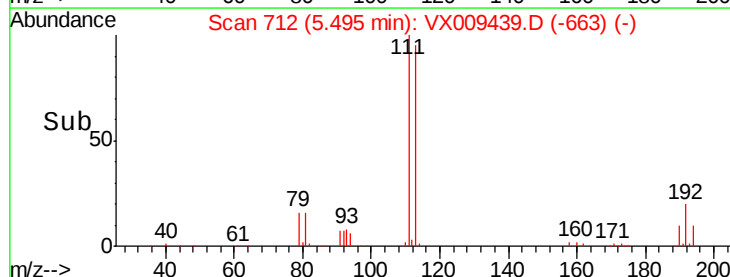
192 21.6 17.0 25.6

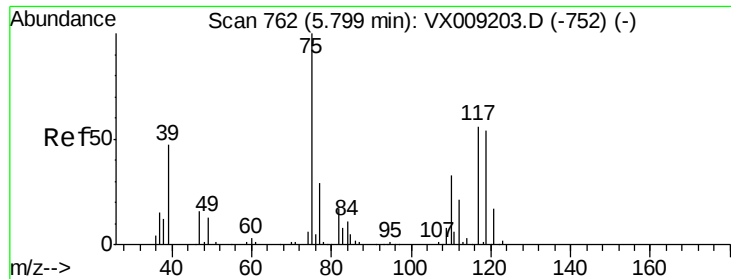


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.016 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

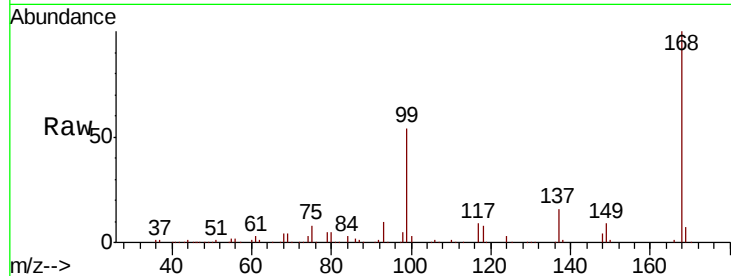
Tot Ion: 75 Resp: 13600

Ion Ratio Lower Upper

75 100

110 8.6 16.9 50.6#

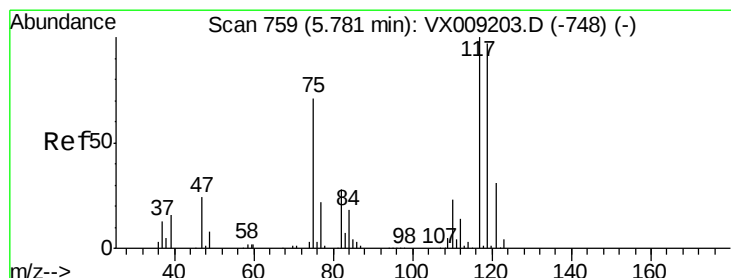
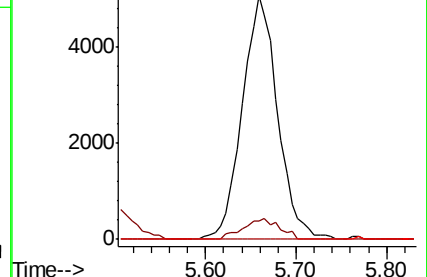
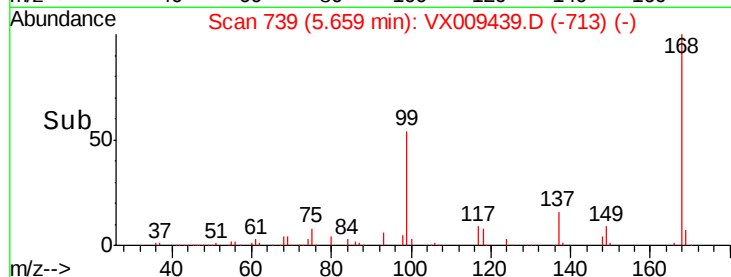
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX009439.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX009439.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX009439.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.960 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

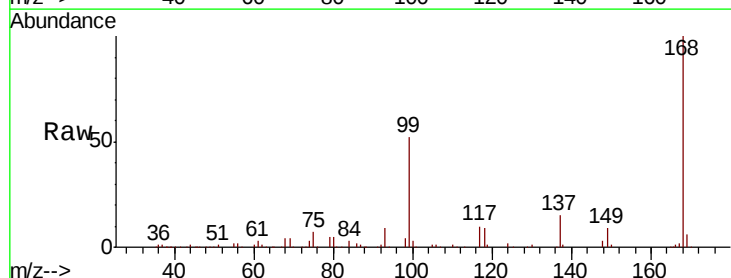
Tgt Ion: 117 Resp: 17145

Ion Ratio Lower Upper

117 100

119 5.7 77.5 116.3#

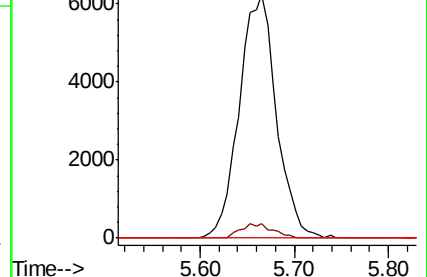
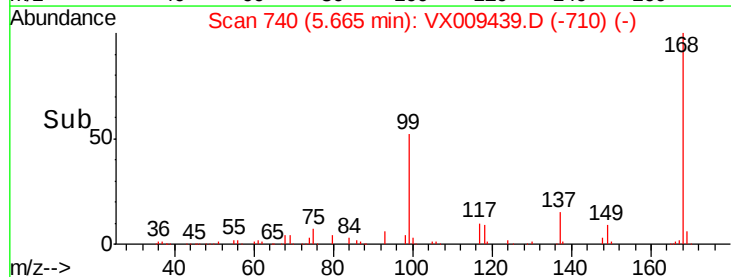
121 0.0 24.7 37.1#

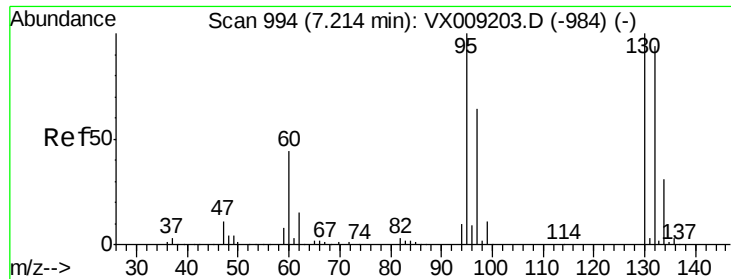


Abundance Ion 116.80 (116.50 to 117.50): VX009439.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX009439.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX009439.D (-710) (-)





#44

Trichloroethene

Concen: 1.864 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

Instrument :

MSVOA_X

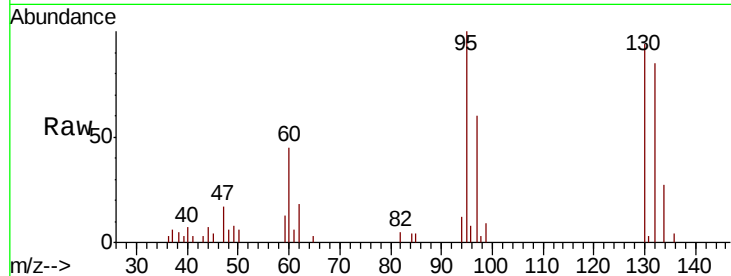
ClientSampled :

Tot Ion:130 Resp: 3782

Ion Ratio Lower Upper

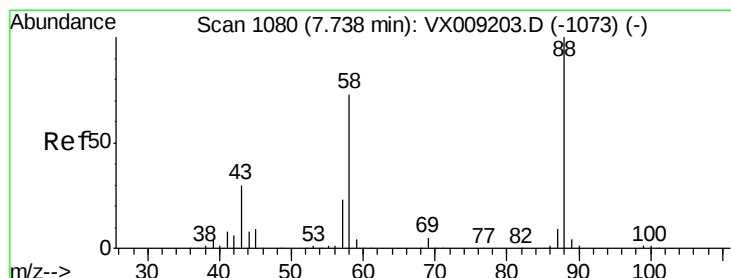
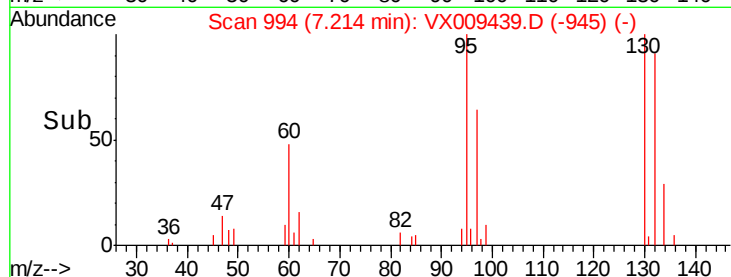
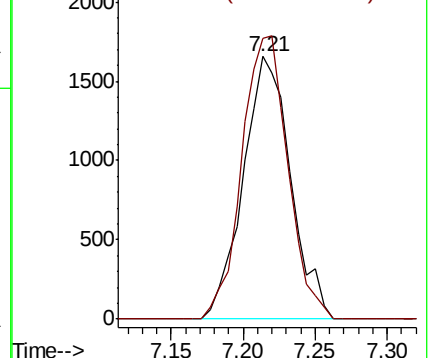
130 100

95 106.6 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: 0.313 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

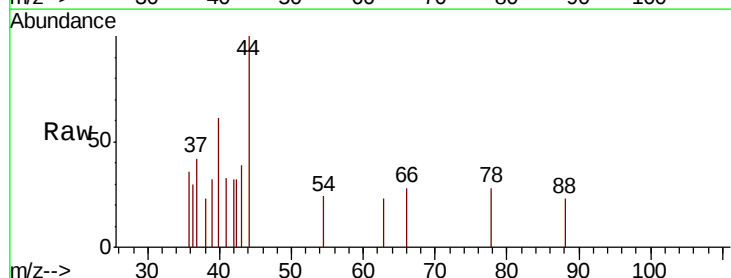
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

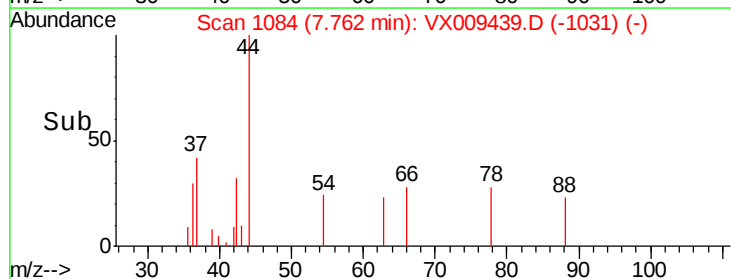
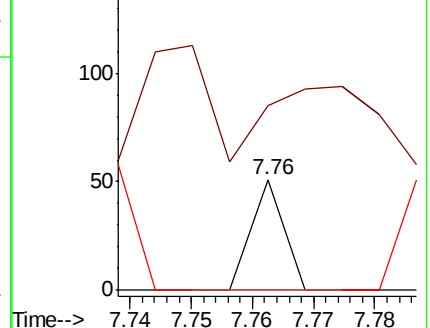
58 0.0 61.7 92.5#

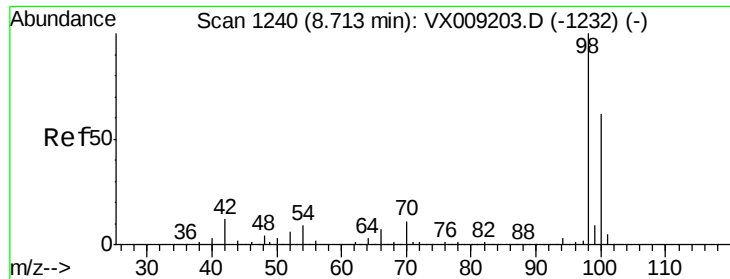


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.733 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

Instrument :

MSVOA_X

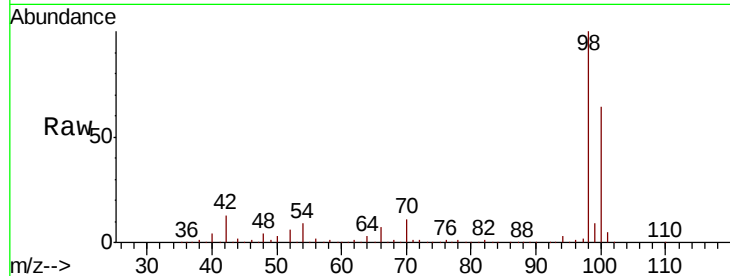
ClientSampleId :

Tot Ion: 98 Resp: 360865

Ion Ratio Lower Upper

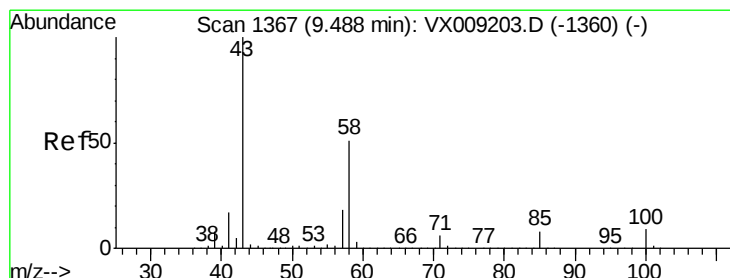
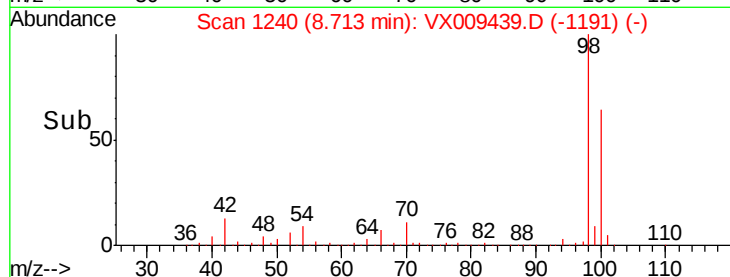
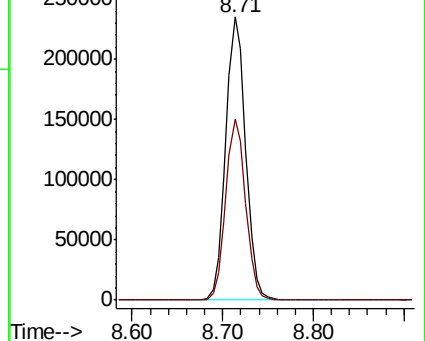
98 100

100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#59

2-Hexanone

Concen: 0.272 ug/l

RT: 9.51 min Scan# 1370

Delta R.T. 0.02 min

Lab File: VX009439.D

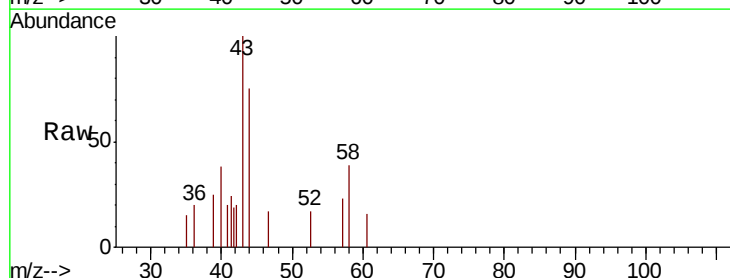
Acq: 09 May 2019 19:41

Tgt Ion: 43 Resp: 844

Ion Ratio Lower Upper

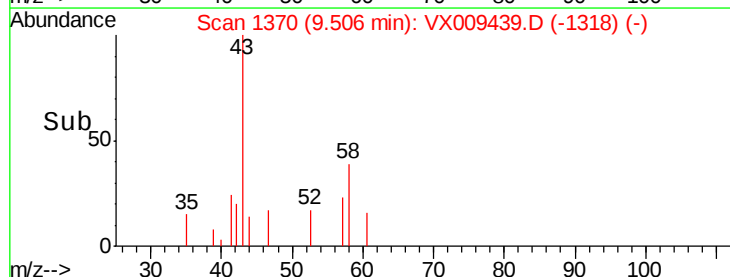
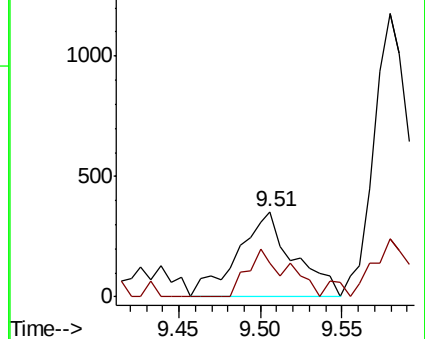
43 100

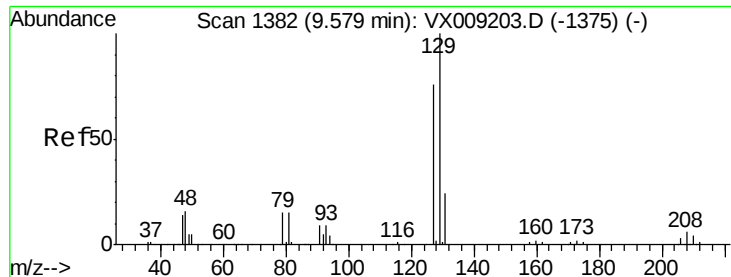
58 40.3 25.9 77.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

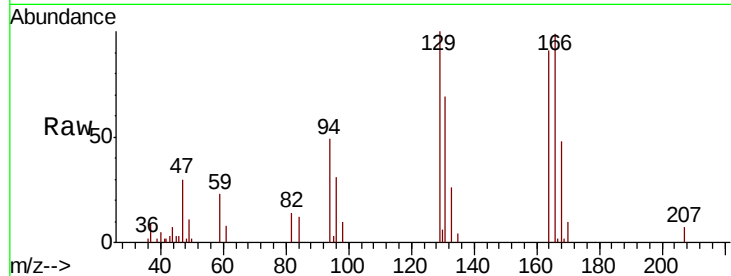




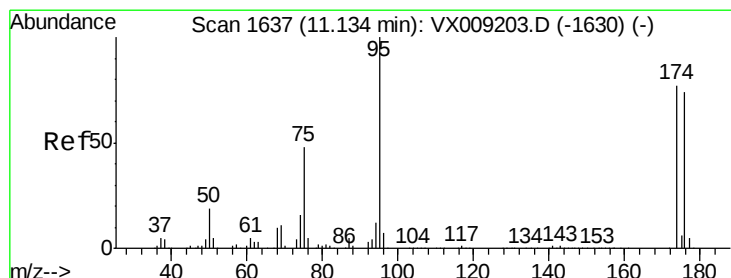
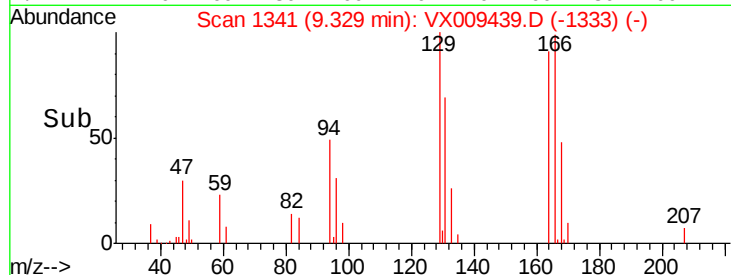
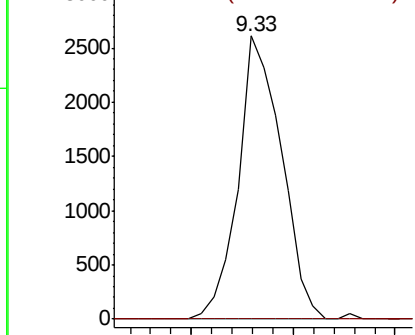
#60
 Dibromochloromethane
 Concen: 1.889 ug/l
 RT: 9.33 min Scan# 1341
 Delta R.T. -0.25 min
 Lab File: VX009439.D
 Acq: 09 May 2019 19:41

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:129 Resp: 3839
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.4 115.1#

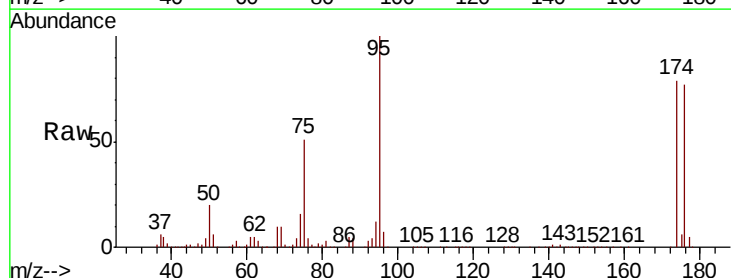


Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V

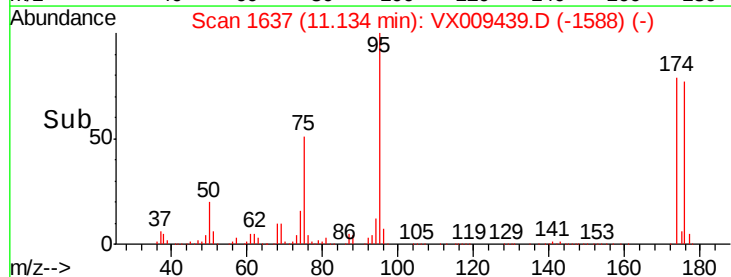
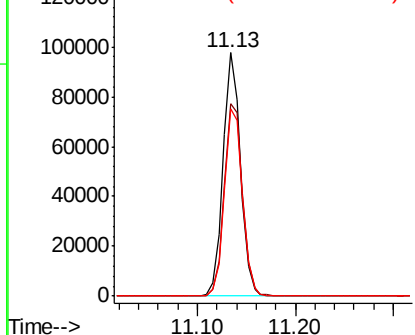


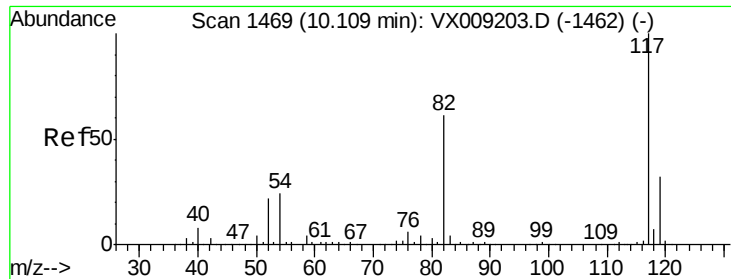
#62
 4-Bromofluorobenzene
 Concen: 44.612 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009439.D
 Acq: 09 May 2019 19:41

Tgt Ion: 95 Resp: 120038
 Ion Ratio Lower Upper
 95 100
 174 83.2 0.0 161.6
 176 80.2 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

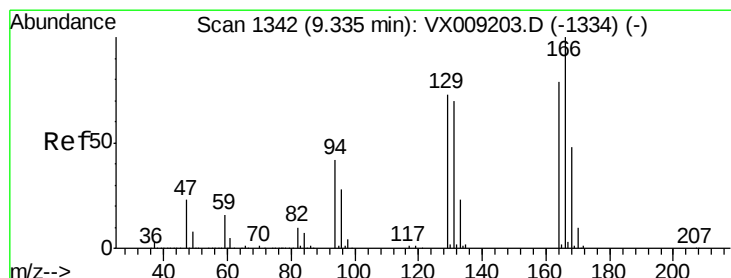
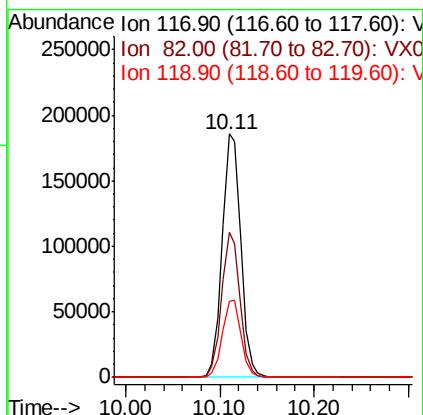
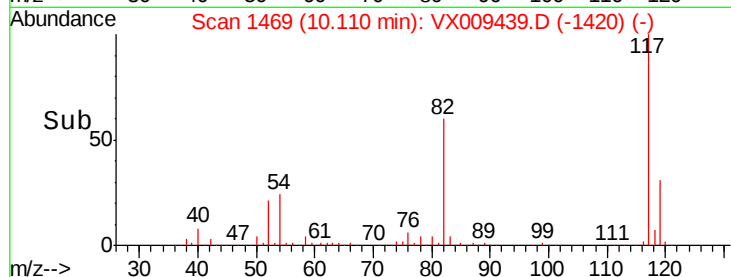
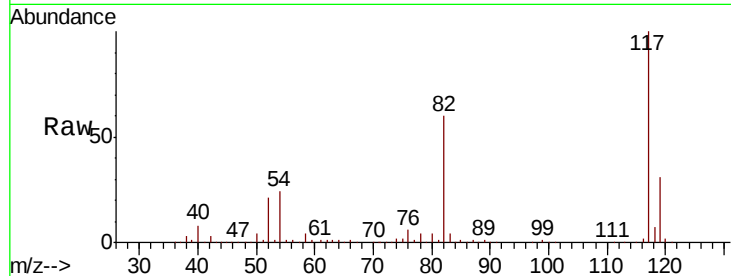




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009439.D
Acq: 09 May 2019 19:41

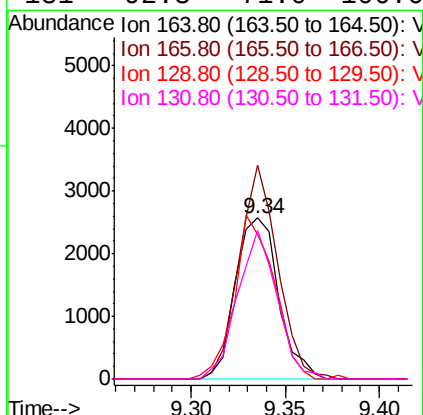
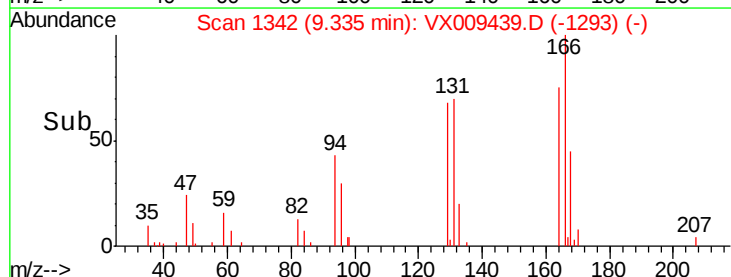
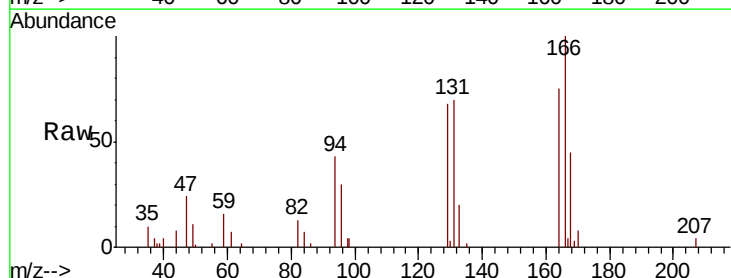
Instrument :
MSVOA_X
ClientSampleId :

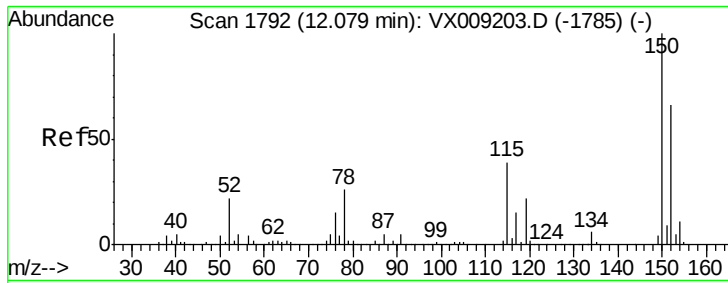
Tot Ion:117 Resp: 254692
Ion Ratio Lower Upper
117 100
82 59.7 48.8 73.2
119 31.5 25.8 38.6



#64
Tetrachloroethene
Concen: 2.328 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009439.D
Acq: 09 May 2019 19:41

Tgt Ion:164 Resp: 4067
Ion Ratio Lower Upper
164 100
166 132.7 101.2 151.8
129 90.3 74.3 111.5
131 92.3 71.0 106.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

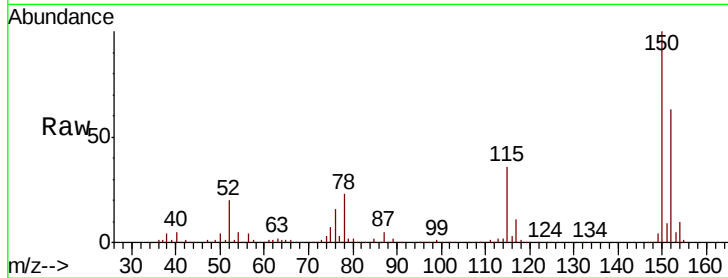
Tot Ion:152 Resp: 109235

Ion Ratio Lower Upper

152 100

115 58.3 41.2 123.6

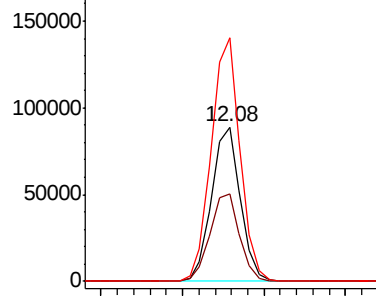
150 157.7 0.0 346.4



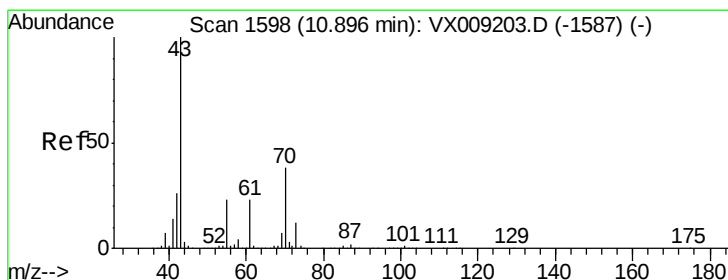
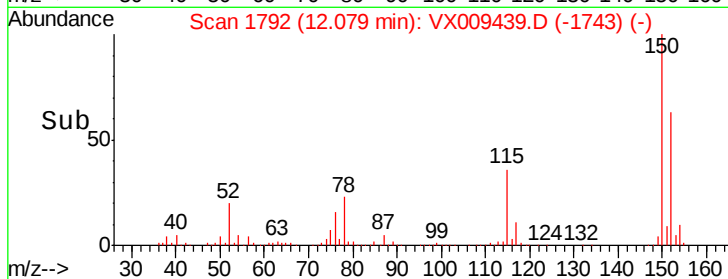
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->



#74

N-ethyl acetate

Concen: 0.391 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

Tgt Ion: 43 Resp: 1810

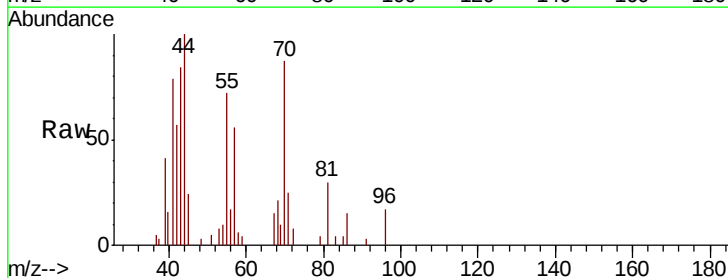
Ion Ratio Lower Upper

43 100

70 98.7 30.0 45.0#

55 83.2 17.9 26.9#

61 0.0 18.4 27.6#

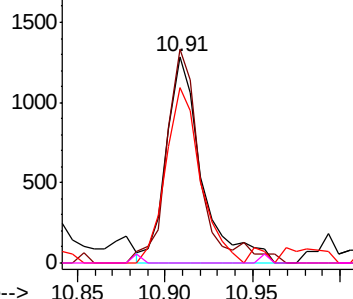


Abundance Ion 43.00 (42.70 to 43.70): VX0

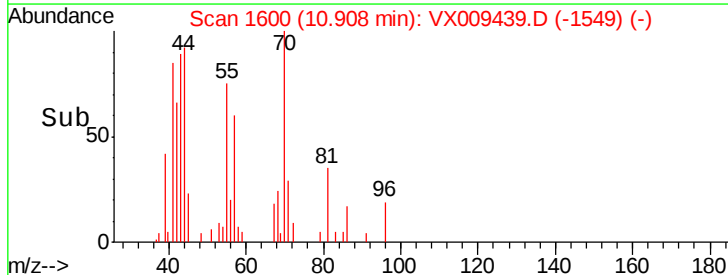
Ion 70.00 (69.70 to 70.70): VX0

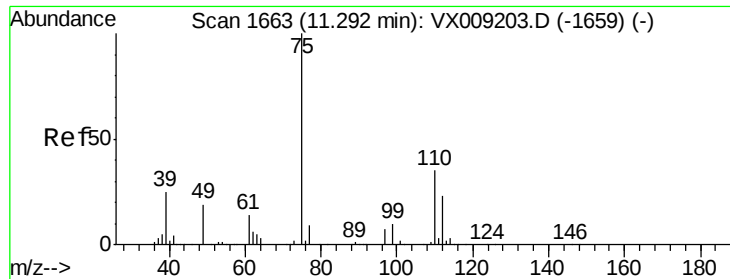
Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



Time-->





#76

1,2,3-Trichloropropane

Concen: 24.154 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

Instrument :

MSVOA_X

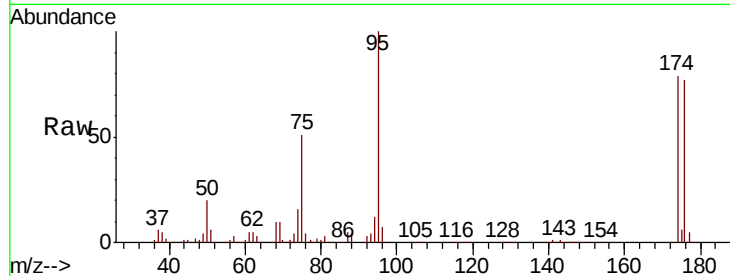
ClientSampleId :

Tot Ion: 75 Resp: 61203

Ion Ratio Lower Upper

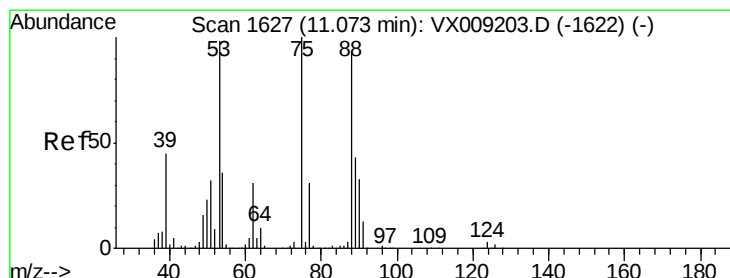
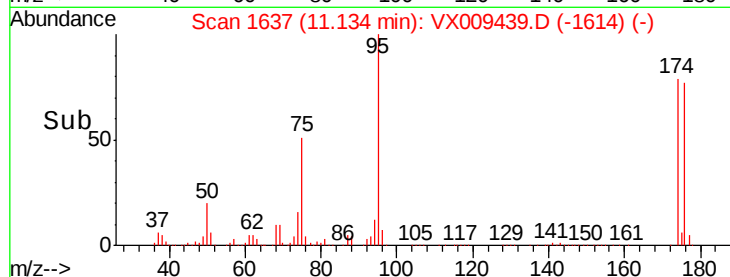
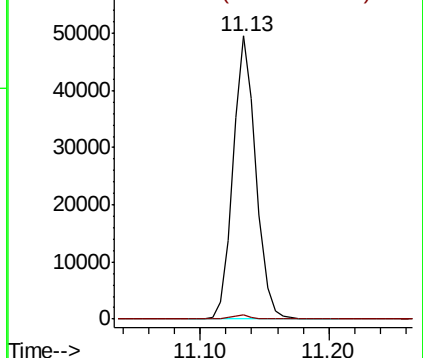
75 100

77 1.4 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: 61.802 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009439.D

Acq: 09 May 2019 19:41

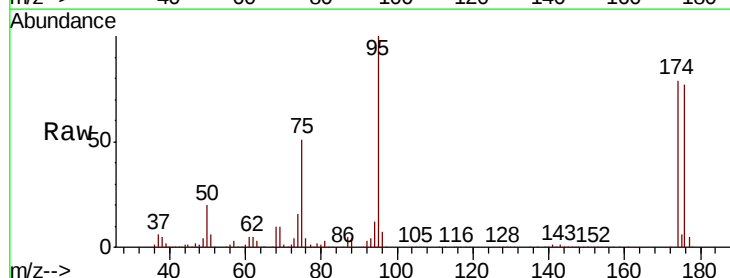
Tgt Ion: 75 Resp: 61203

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

