

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050919\
 Data File : VX009435.D
 Acq On : 09 May 2019 18:08
 Operator : JC/SP
 Sample : K2786-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 10 07:08:33 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	187752	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	300566	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	266252	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	117437	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	122085	47.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.26%	
35) Dibromofluoromethane	5.50	113	92341	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
50) Toluene-d8	8.71	98	376411	49.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.68%	
62) 4-Bromofluorobenzene	11.13	95	126836	45.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.52%	

Target Compounds

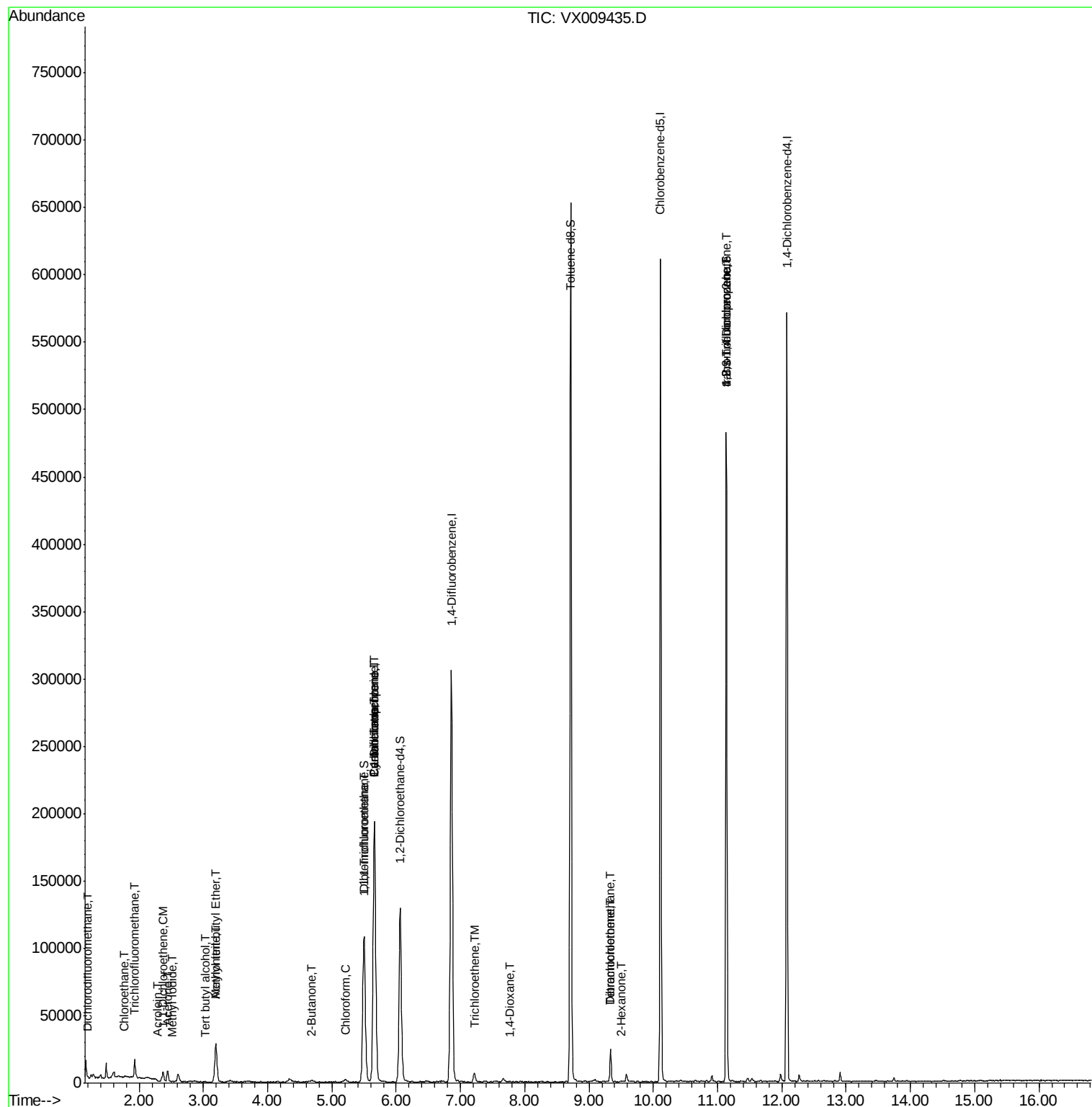
						Qvalue
2) Dichlorodifluoromethane	1.20	85	383	0.221	ug/l	76
6) Chloroethane	1.78	64	589	0.398	ug/l #	48
7) Trichlorofluoromethane	1.93	101	8543	3.051	ug/l	99
10) Methyl Iodide	2.51	142	129	4.651	ug/l #	42
11) Tert butyl alcohol	3.03	59	272	0.458	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	2027	1.151	ug/l	98
13) Acrolein	2.29	56	207	0.385	ug/l	97
15) Acrylonitrile	3.20	53	617	0.425	ug/l #	16
16) Acetone	2.44	43	8771	6.373	ug/l	96
19) Methyl tert-butyl Ether	3.20	73	30976	4.528	ug/l	95
25) 2-Butanone	4.68	43	953	0.446	ug/l	92
28) Bromochloromethane	5.00	49	22	Below Cal	#	20
30) Chloroform	5.21	83	2043	0.555	ug/l #	83
31) Cyclohexane	5.67	56	3957	1.044	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	1507	0.491	ug/l #	35
36) 1,1-Dichloropropene	5.66	75	13907	4.979	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17793	7.011	ug/l #	16
44) Trichloroethene	7.21	130	2529	1.210	ug/l	99
49) 1,4-Dioxane	7.76	88	19	0.303	ug/l #	1
59) 2-Hexanone	9.50	43	656	0.205	ug/l	66
60) Dibromochloromethane	9.34	129	4586	2.190	ug/l #	11
64) Tetrachloroethene	9.34	164	4983	2.728	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	63514	23.315	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63514	59.656	ug/l #	10

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

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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: VX009435.D

Acq: 09 May 2019 18:08

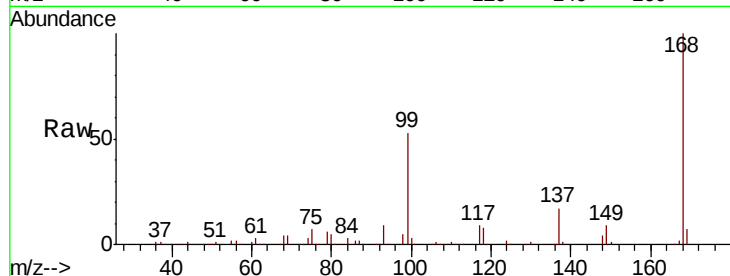
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 187752

Ion Ratio Lower Upper

168 100

99 53.3 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

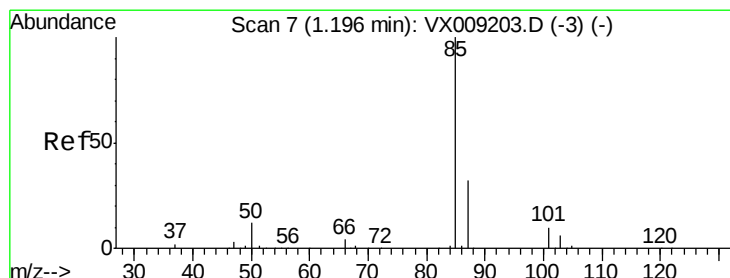
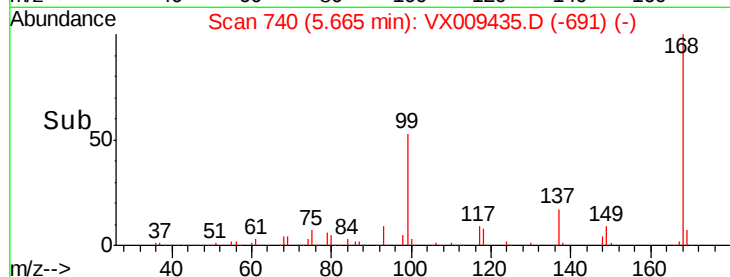
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.221 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX009435.D

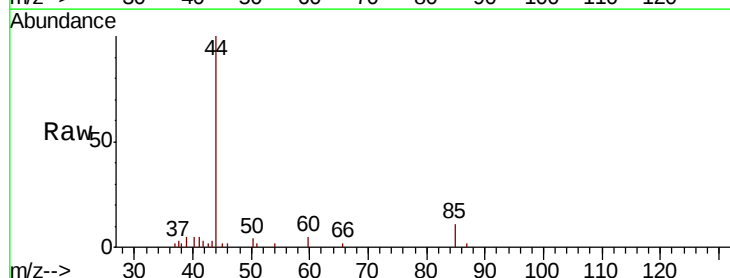
Acq: 09 May 2019 18:08

Tgt Ion: 85 Resp: 383

Ion Ratio Lower Upper

85 100

87 18.8 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

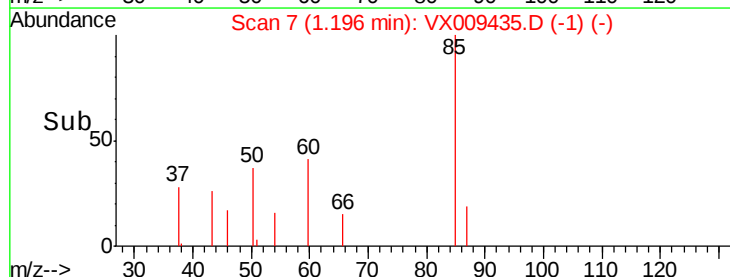
300

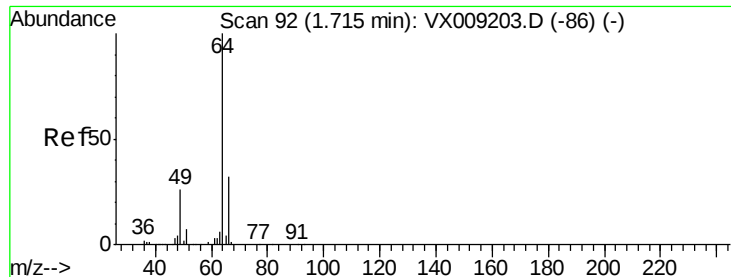
200

100

0

Time--> 1.16 1.18 1.20 1.22 1.24





#6

Chloroethane

Concen: 0.398 ug/l

RT: 1.78 min Scan# 102

Delta R.T. 0.06 min

Lab File: VX009435.D

Acq: 09 May 2019 18:08

Instrument :

MSVOA_X

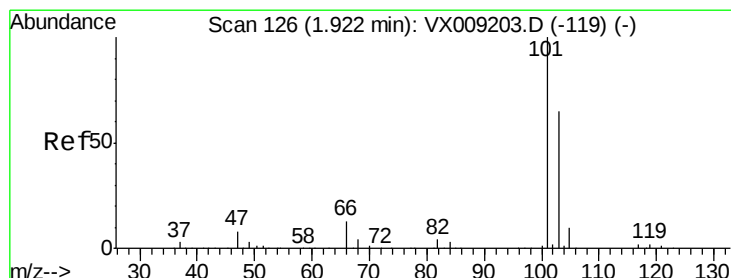
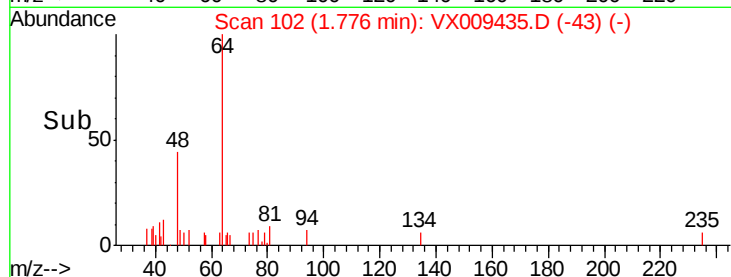
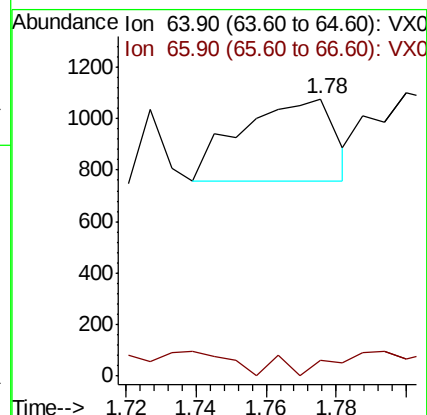
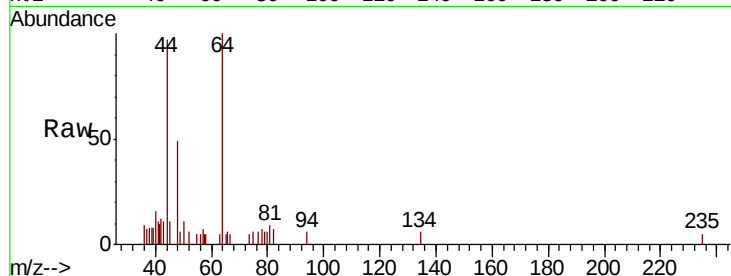
ClientSampleId :

Tot Ion: 64 Resp: 589

Ion Ratio Lower Upper

64 100

66 2.5 25.3 37.9#



#7

Trichlorofluoromethane

Concen: 3.051 ug/l

RT: 1.93 min Scan# 128

Delta R.T. 0.01 min

Lab File: VX009435.D

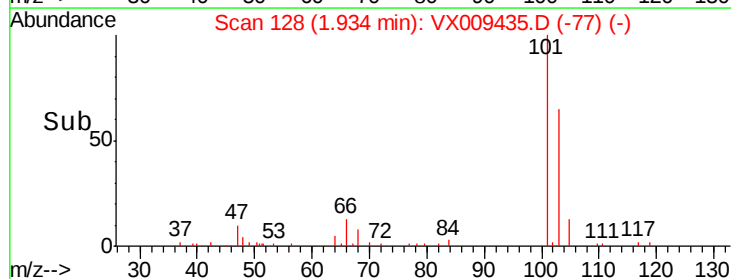
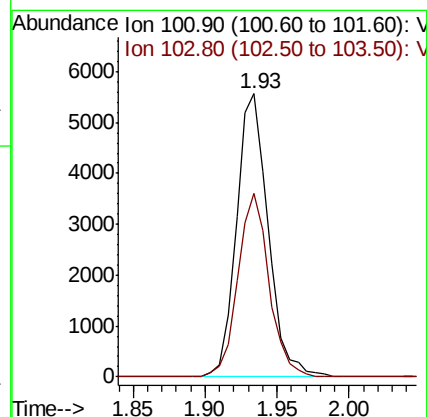
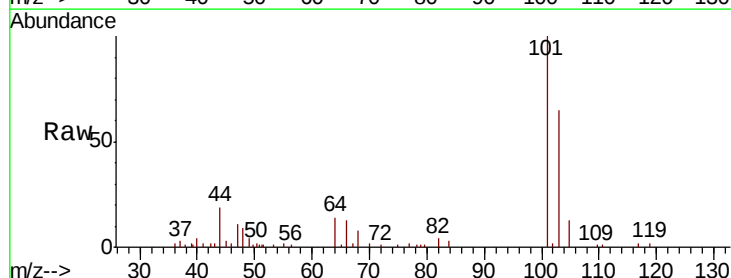
Acq: 09 May 2019 18:08

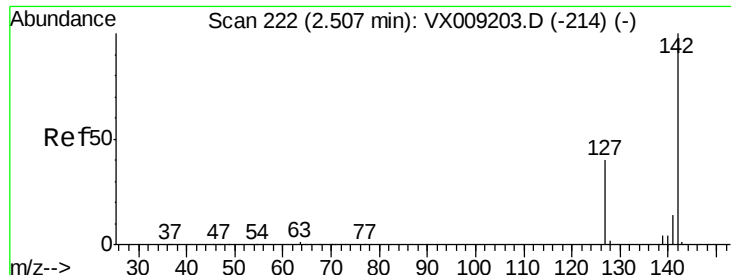
Tgt Ion: 101 Resp: 8543

Ion Ratio Lower Upper

101 100

103 64.8 52.4 78.6

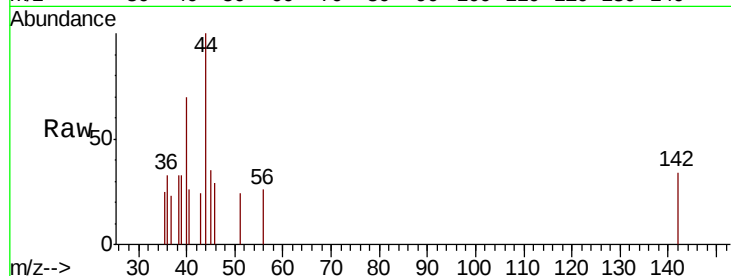




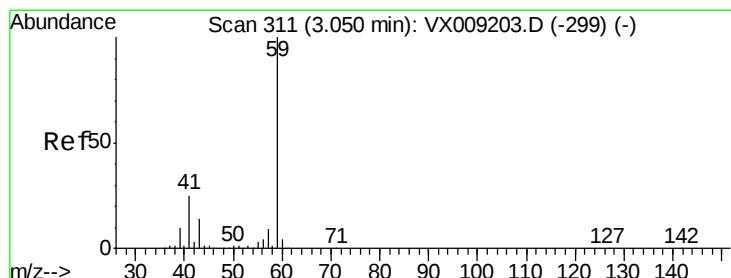
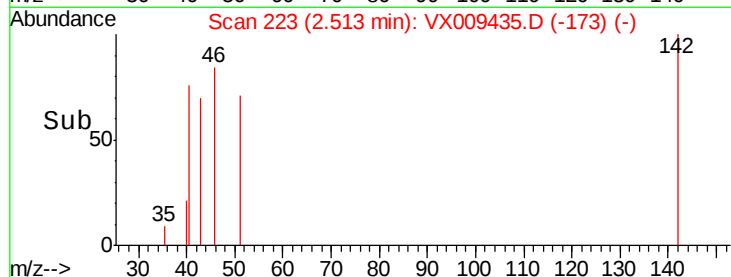
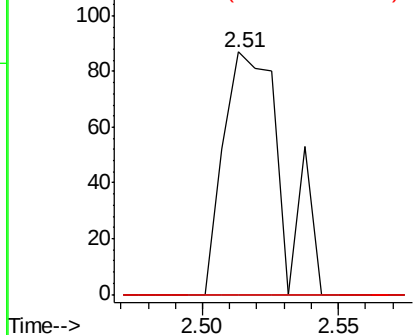
#10
Methvl Iodide
Concen: 4.651 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009435.D
Acq: 09 May 2019 18:08

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 129
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

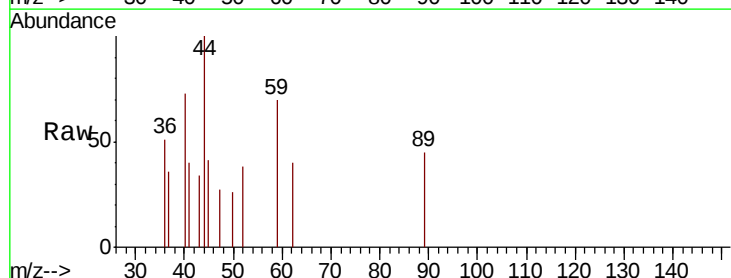


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

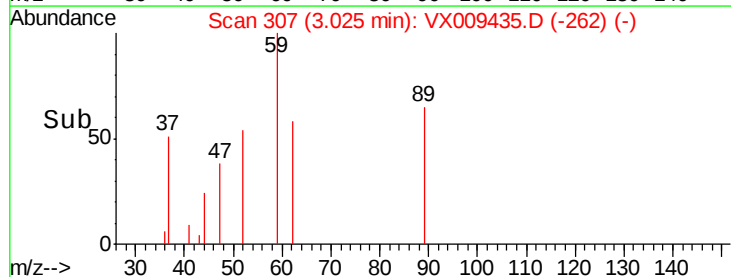
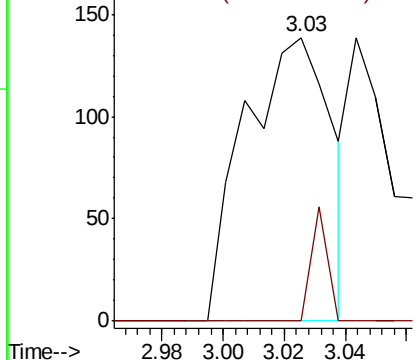


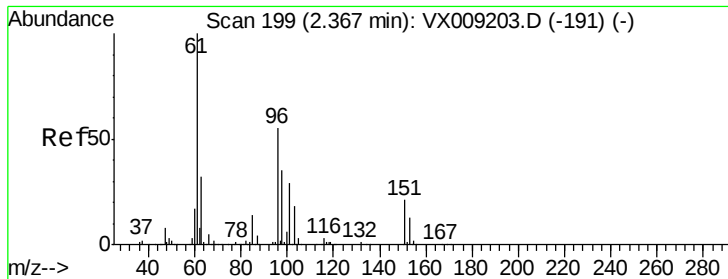
#11
Tert butyl alcohol
Concen: 0.458 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009435.D
Acq: 09 May 2019 18:08

Tgt Ion: 59 Resp: 272
Ion Ratio Lower Upper
59 100
57 0.0 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: 1.151 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX009435.D

Acq: 09 May 2019 18:08

Instrument :

MSVOA_X

ClientSampled :

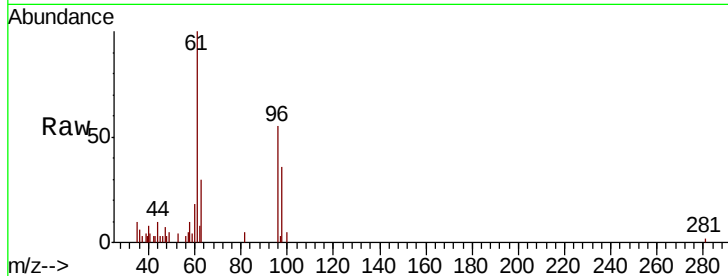
Tot Ion: 96 Resp: 2027

Ion Ratio Lower Upper

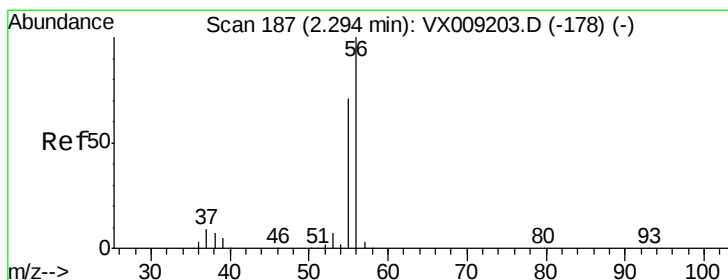
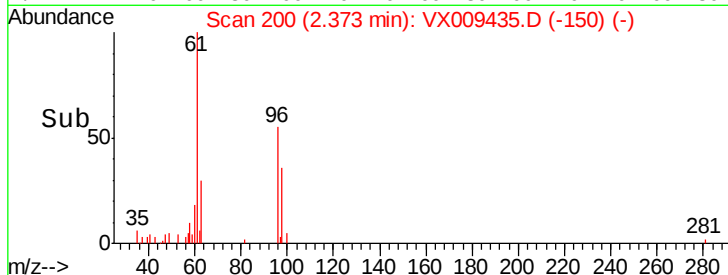
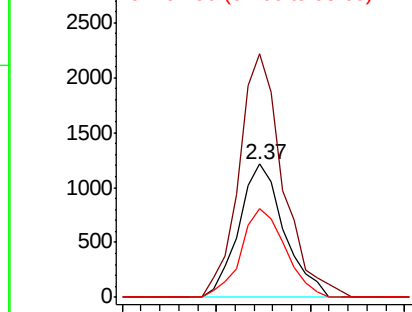
96 100

61 182.7 144.3 216.5

98 66.5 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: 0.385 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX009435.D

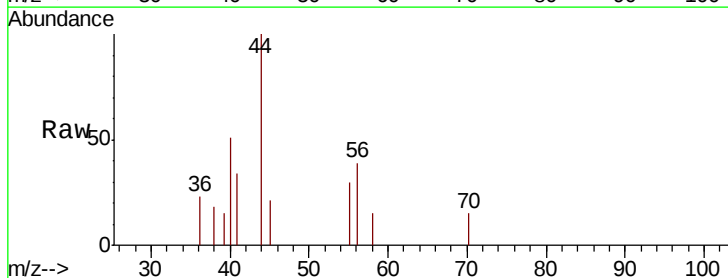
Acq: 09 May 2019 18:08

Tgt Ion: 56 Resp: 207

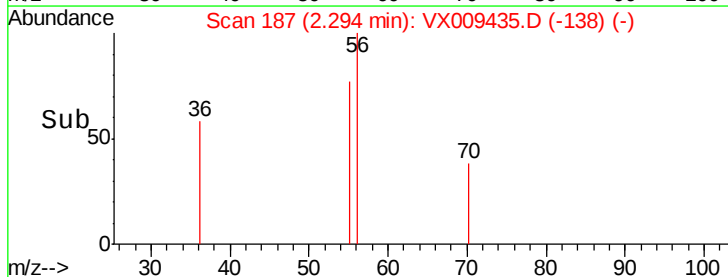
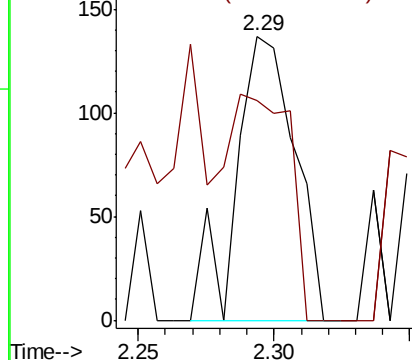
Ion Ratio Lower Upper

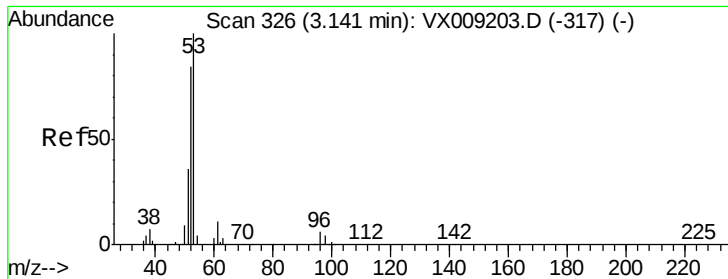
56 100

55 73.4 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.425 ug/l

RT: 3.20 min Scan# 335

Delta R.T. 0.05 min

Lab File: VX009435.D

Acq: 09 May 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

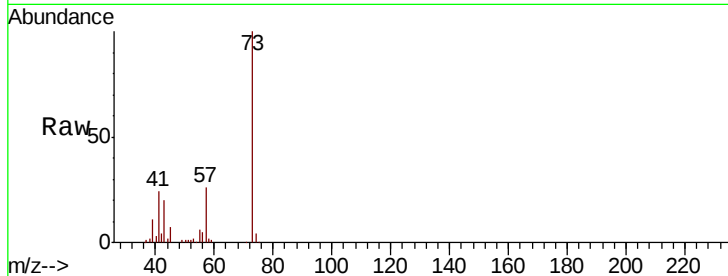
Tot Ion: 53 Resp: 617

Ion Ratio Lower Upper

53 100

52 7.9 66.9 100.3#

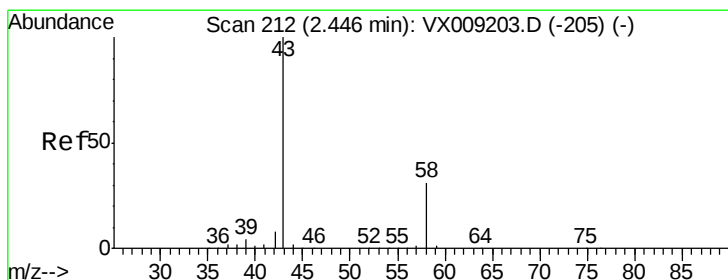
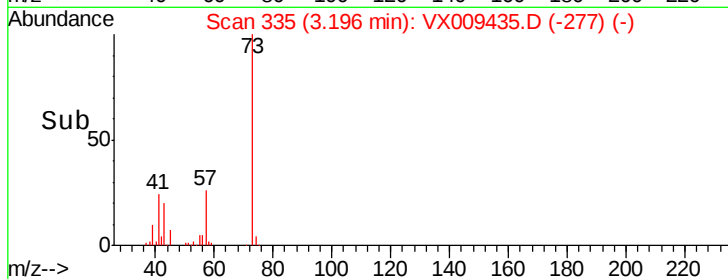
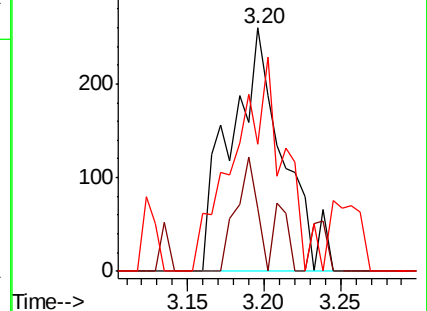
51 84.3 28.2 42.2#



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: 6.373 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009435.D

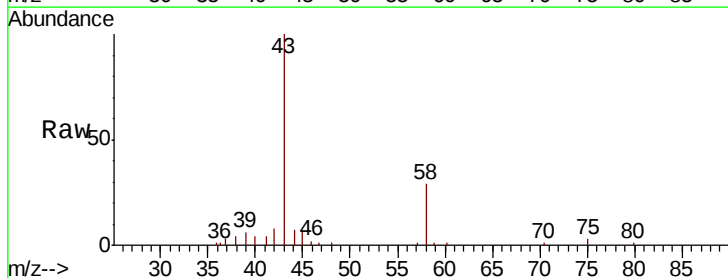
Acq: 09 May 2019 18:08

Tgt Ion: 43 Resp: 8771

Ion Ratio Lower Upper

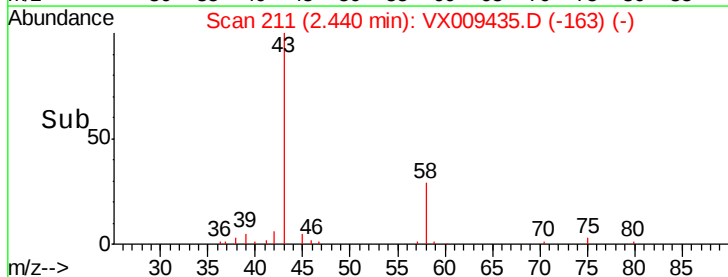
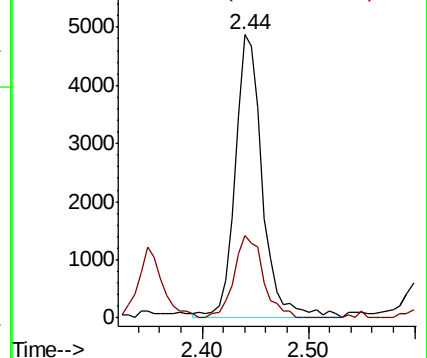
43 100

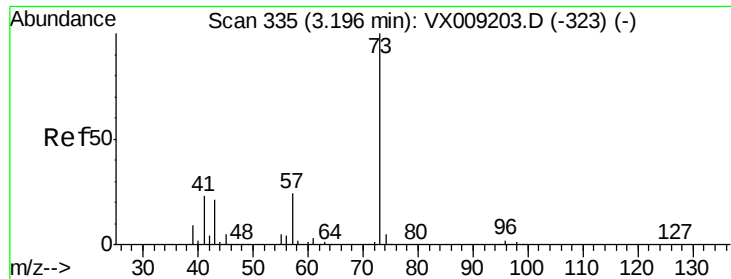
58 28.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

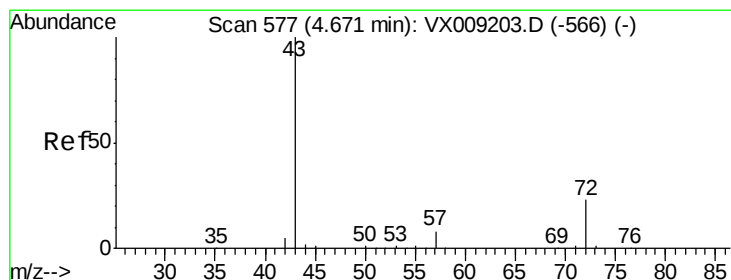
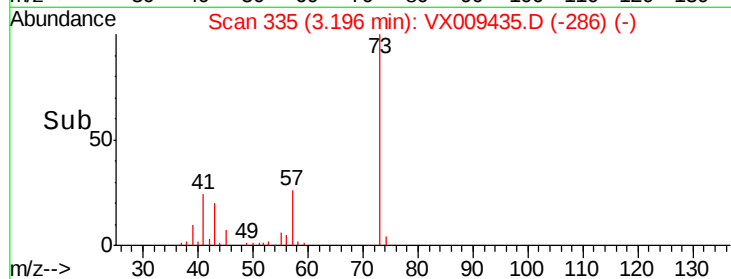
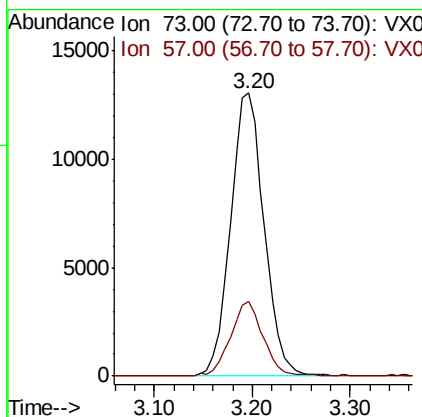
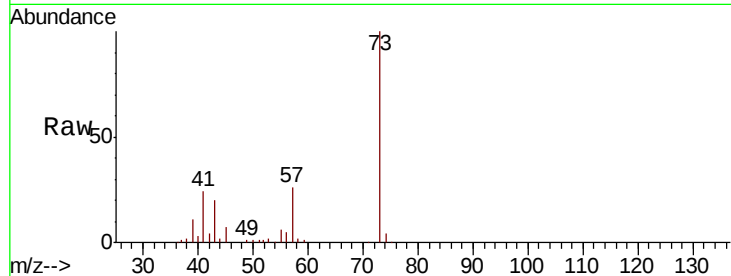




#19
Methvl tert-butvl Ether
Concen: 4.528 ug/l
RT: 3.20 min Scan# 335
Delta R.T. -0.00 min
Lab File: VX009435.D
Acq: 09 May 2019 18:08

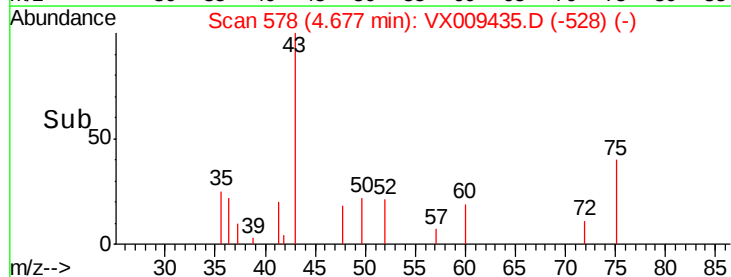
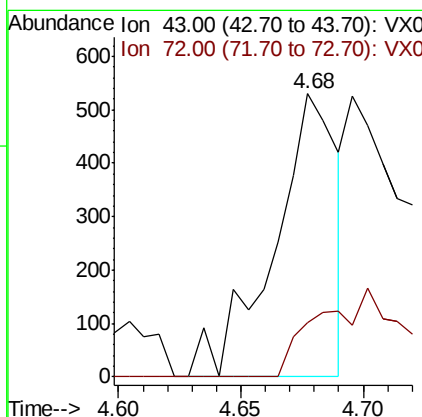
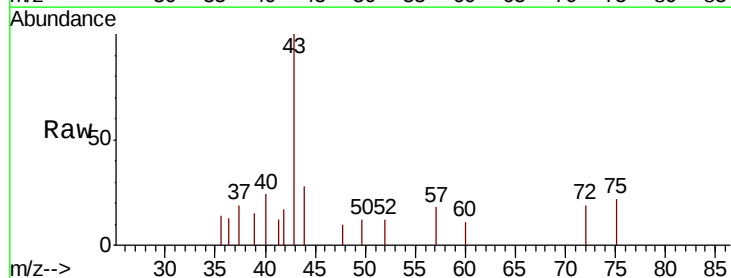
Instrument :
MSVOA_X
ClientSampleId :

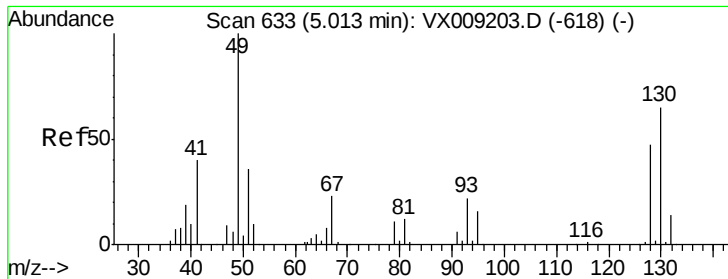
Tot Ion: 73 Resp: 30976
Ion Ratio Lower Upper
73 100
57 26.4 19.3 28.9



#25
2-Butanone
Concen: 0.446 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX009435.D
Acq: 09 May 2019 18:08

Tgt Ion: 43 Resp: 953
Ion Ratio Lower Upper
43 100
72 19.1 18.2 27.2





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

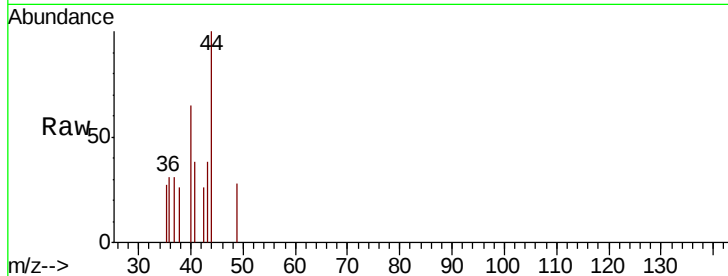
Delta R.T. -0.01 min

Lab File: VX009435.D

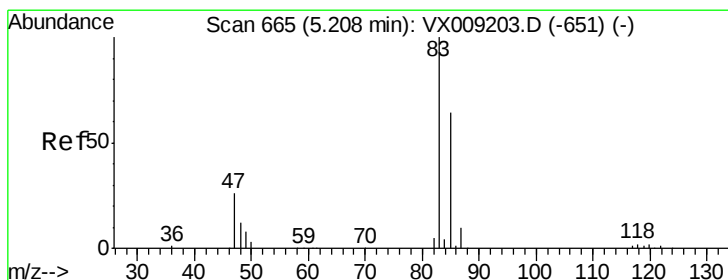
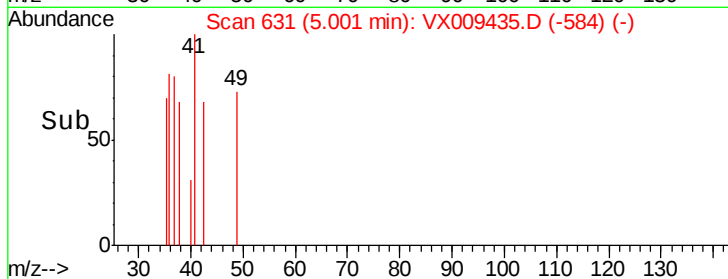
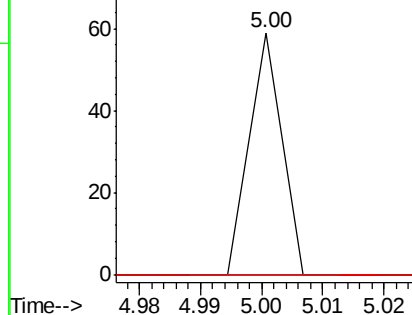
Acq: 09 May 2019 18:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 22
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: 0.555 ug/l

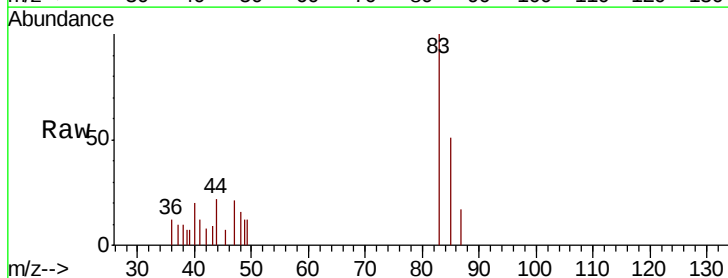
RT: 5.21 min Scan# 665

Delta R.T. -0.00 min

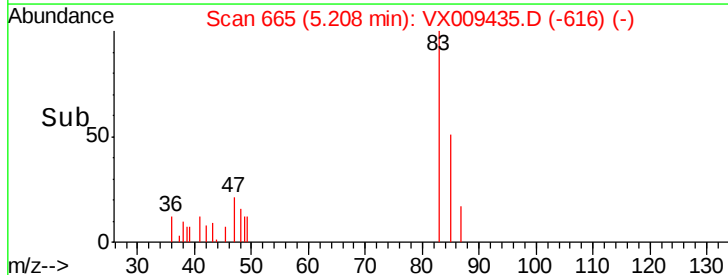
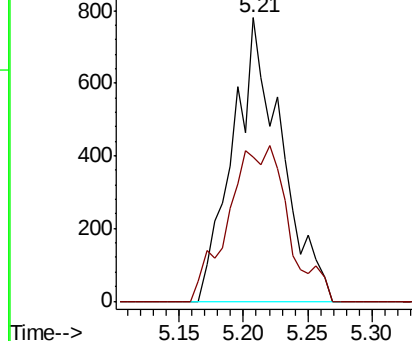
Lab File: VX009435.D

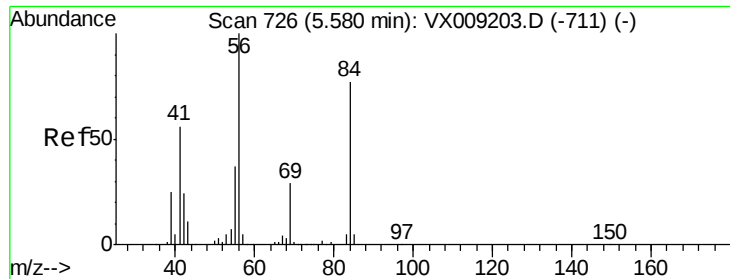
Acq: 09 May 2019 18:08

Tgt Ion: 83 Resp: 2043
Ion Ratio Lower Upper
83 100
85 51.0 51.5 77.3#



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

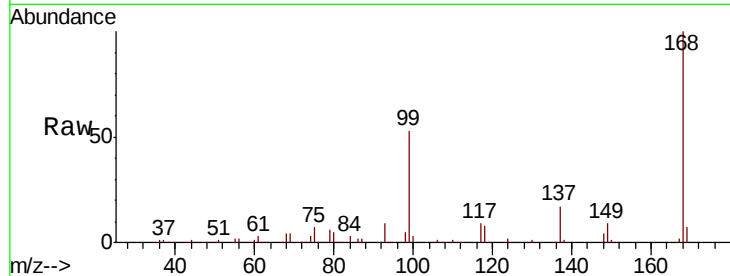




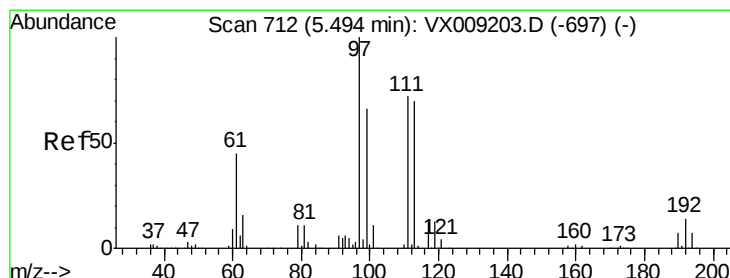
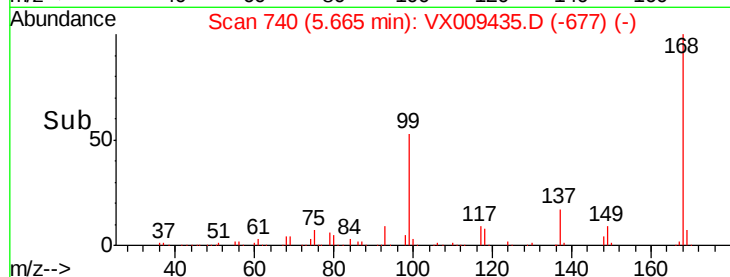
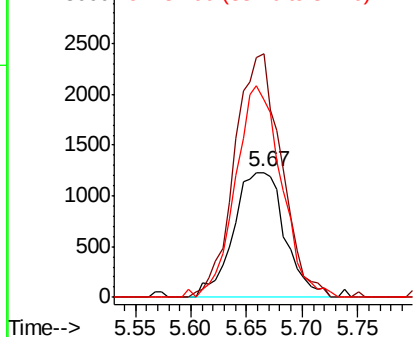
#31
Cyclohexane
Concen: 1.044 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX009435.D
Acq: 09 May 2019 18:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3957
Ion Ratio Lower Upper
56 100
69 195.2 23.4 35.0#
84 158.8 61.9 92.9#

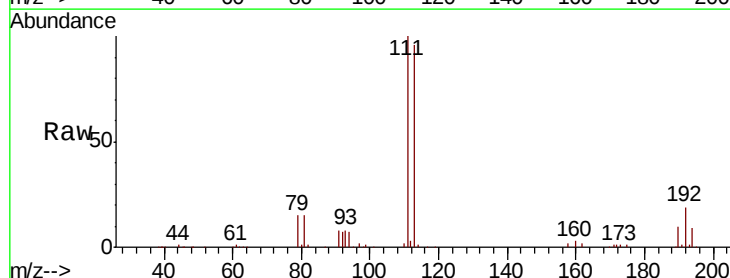


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

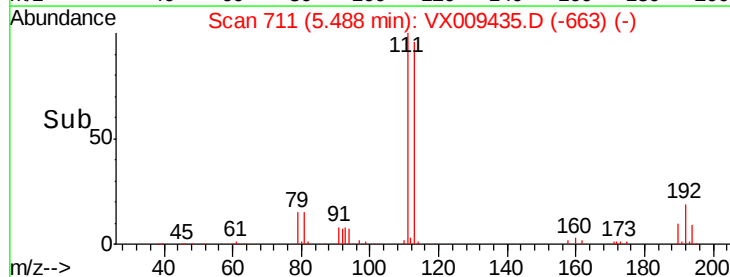
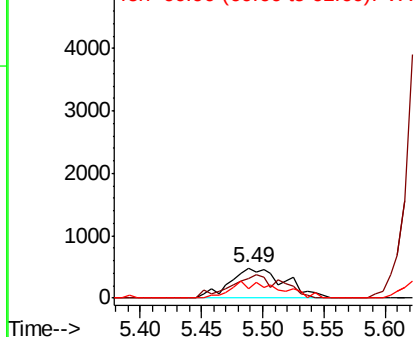


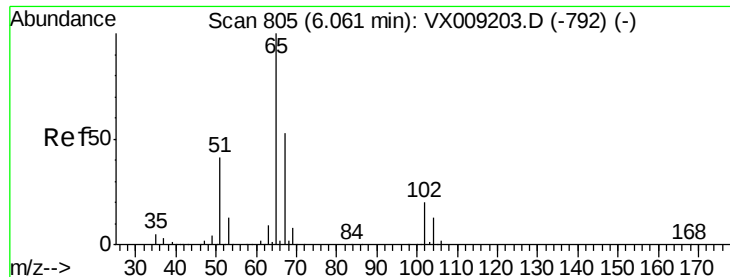
#32
1,1,1-Trichloroethane
Concen: 0.491 ug/l
RT: 5.49 min Scan# 711
Delta R.T. -0.01 min
Lab File: VX009435.D
Acq: 09 May 2019 18:08

Tgt Ion: 97 Resp: 1507
Ion Ratio Lower Upper
97 100
99 0.0 51.8 77.8#
61 19.9 37.8 56.8#



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0

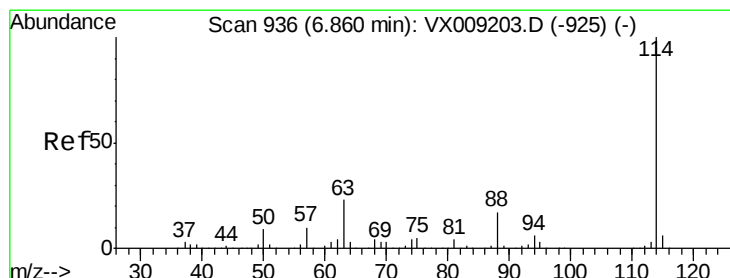
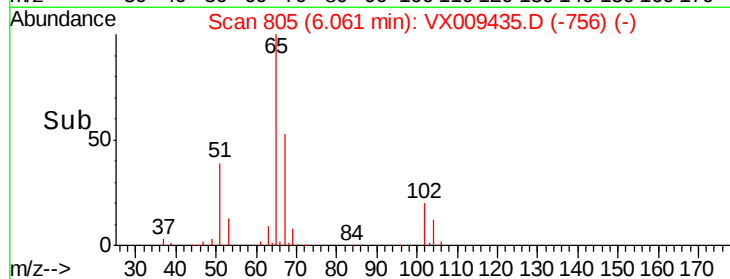
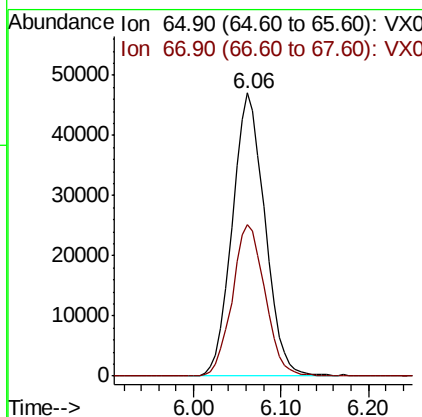
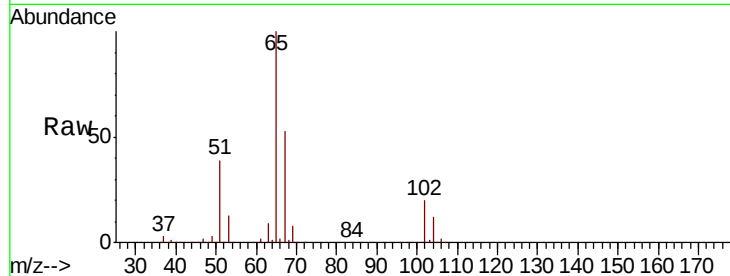




#33
 1,2-Dichloroethane-d4
 Concen: 47.633 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009435.D
 Acq: 09 May 2019 18:08

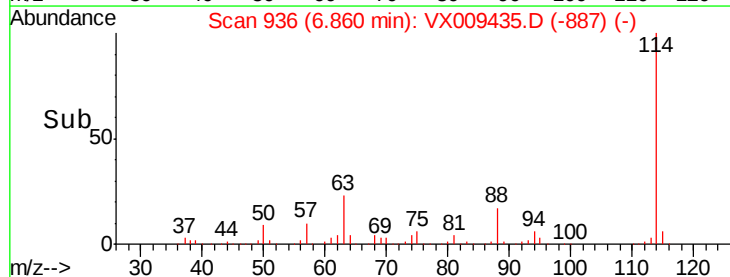
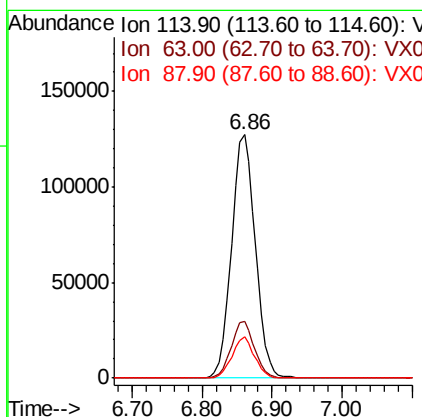
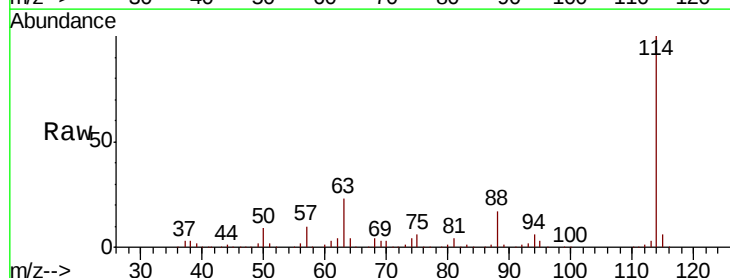
Instrument :
 MSVOA_X
 ClientSampleId :

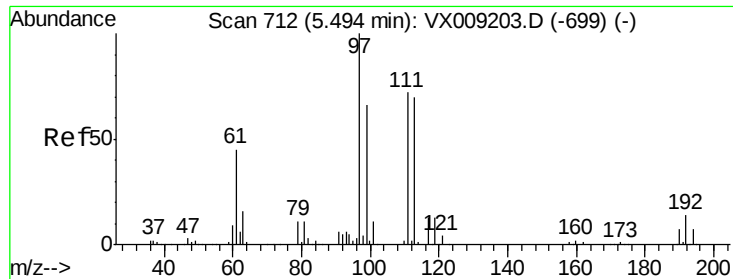
Tot Ion: 65 Resp: 122085
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009435.D
 Acq: 09 May 2019 18:08

Tgt Ion: 114 Resp: 300566
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 45.6
 88 17.0 0.0 33.2

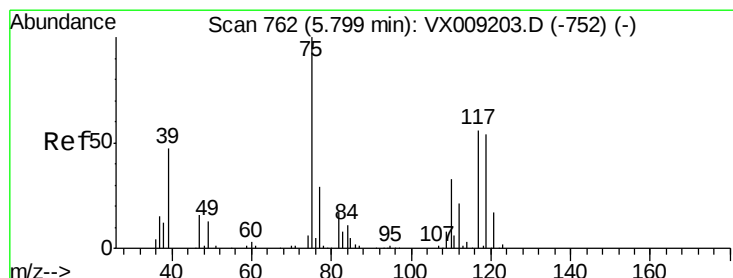
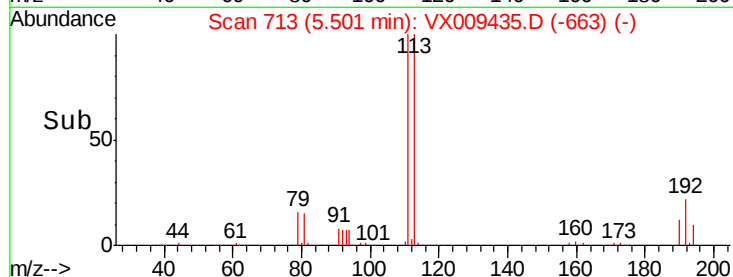
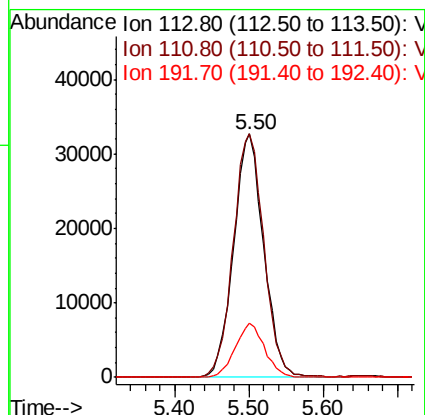
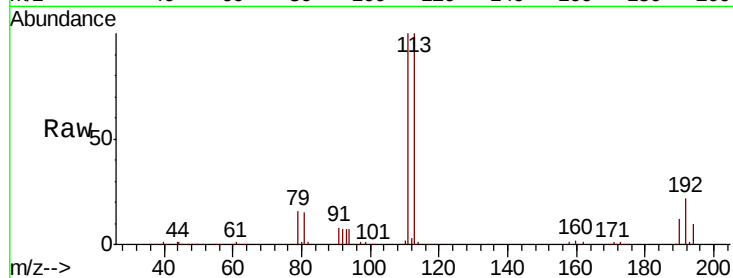




#35
 Dibromofluoromethane
 Concen: 48.871 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009435.D
 Acq: 09 May 2019 18:08

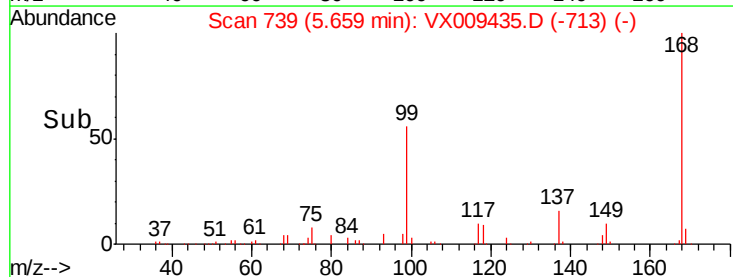
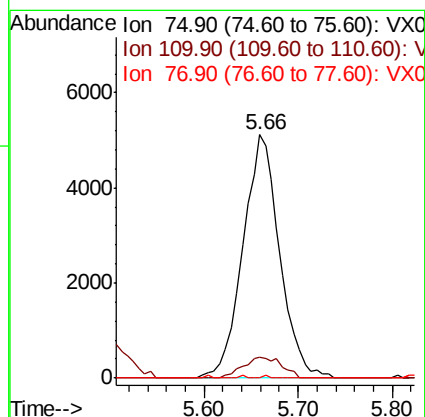
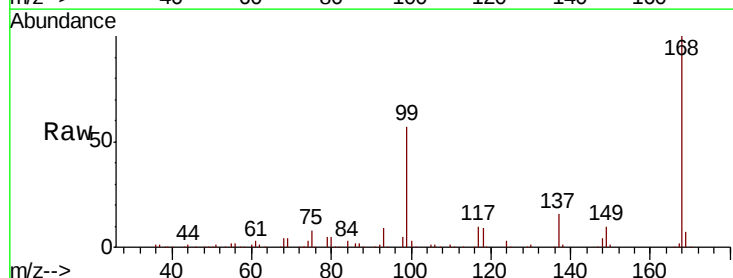
Instrument :
 MSVOA_X
 ClientSampleId :

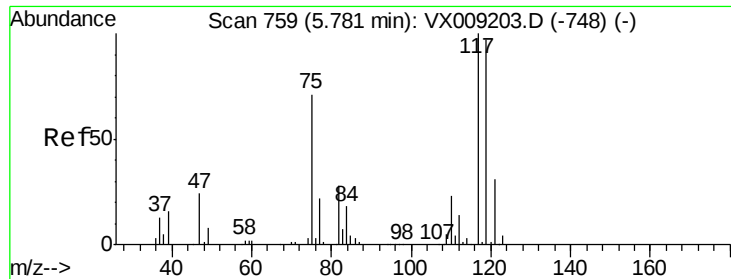
Tot Ion:113 Resp: 92341
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.8 124.2
 192 21.9 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 4.979 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009435.D
 Acq: 09 May 2019 18:08

Tgt Ion: 75 Resp: 13907
 Ion Ratio Lower Upper
 75 100
 110 9.1 16.9 50.6#
 77 0.1 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.011 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009435.D

Acq: 09 May 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

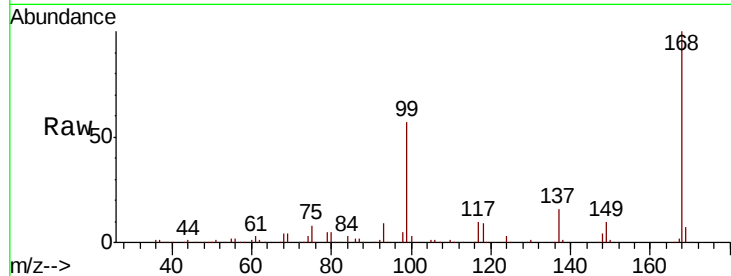
Tot Ion:117 Resp: 17793

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

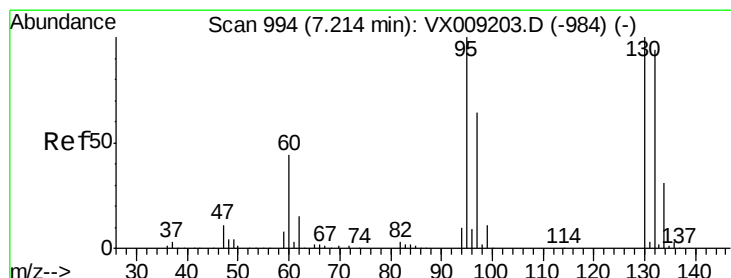
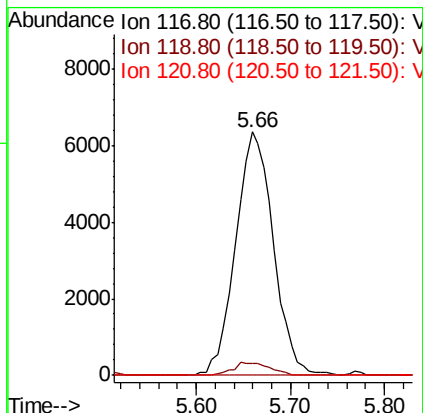
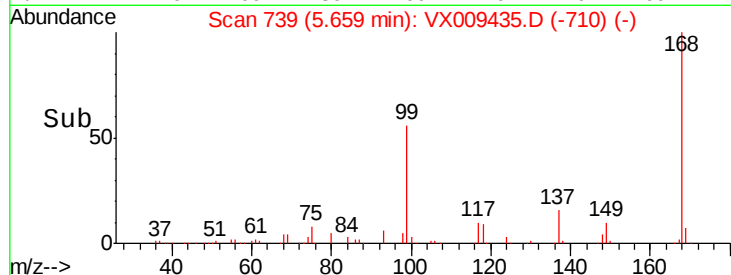
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 1.210 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009435.D

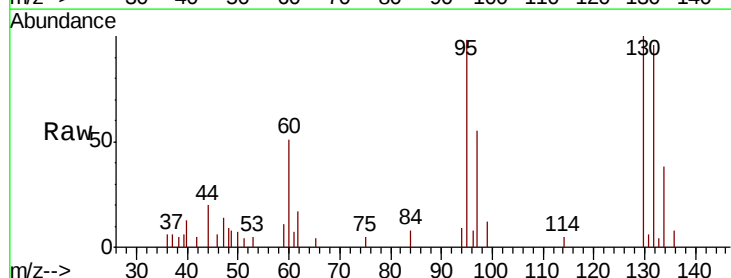
Acq: 09 May 2019 18:08

Tgt Ion:130 Resp: 2529

Ion Ratio Lower Upper

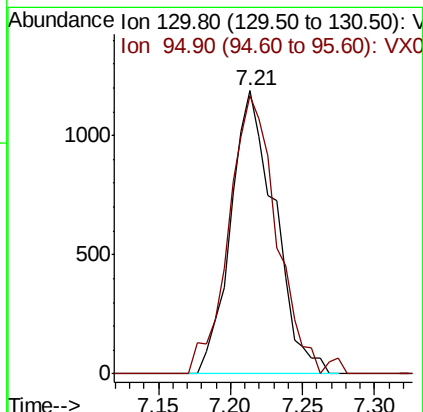
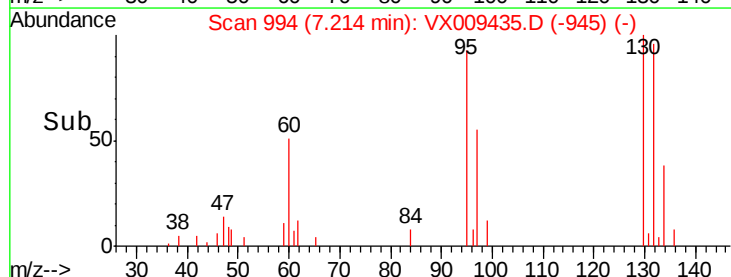
130 100

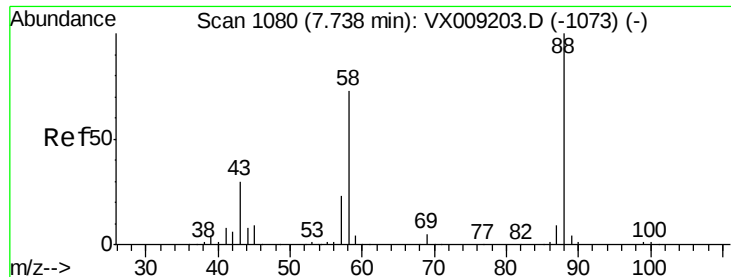
95 98.2 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

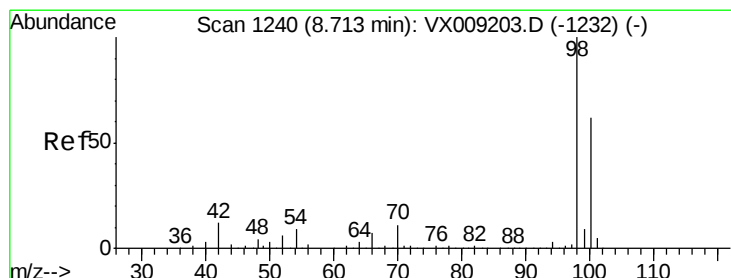
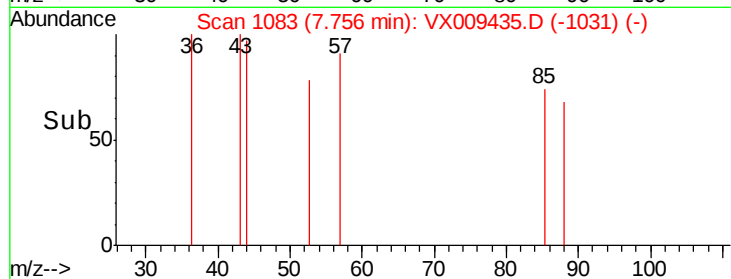
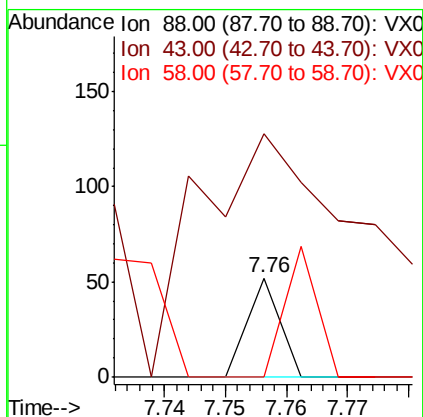
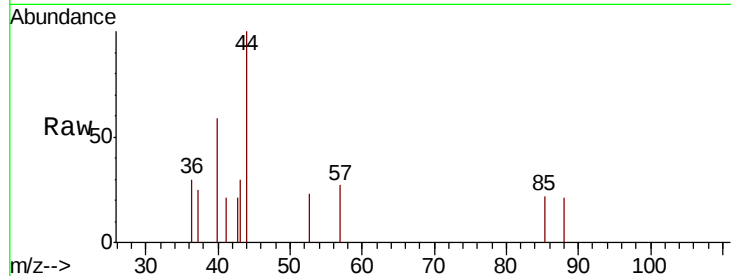




#49
 1,4-Dioxane
 Concen: 0.303 ug/l
 RT: 7.76 min Scan# 1083
 Delta R.T. 0.02 min
 Lab File: VX009435.D
 Acq: 09 May 2019 18:08

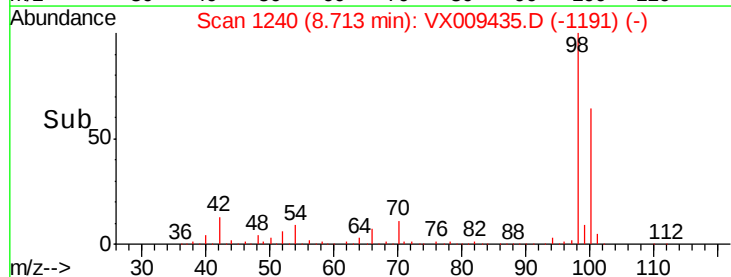
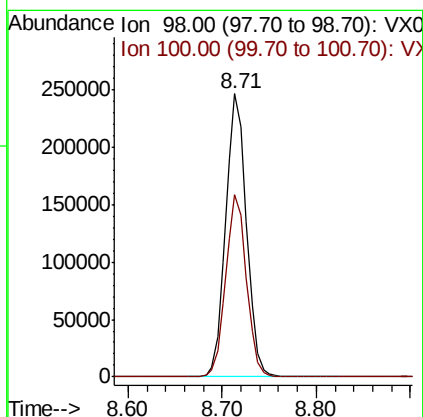
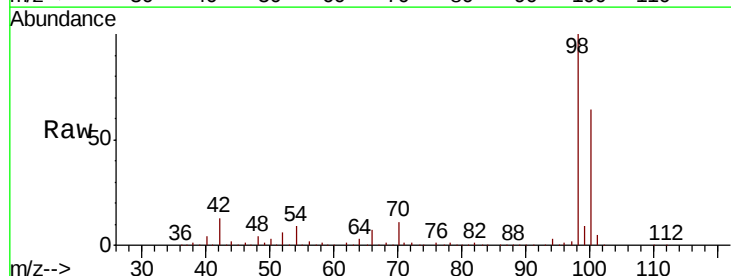
Instrument :
 MSVOA_X
 ClientSampled :

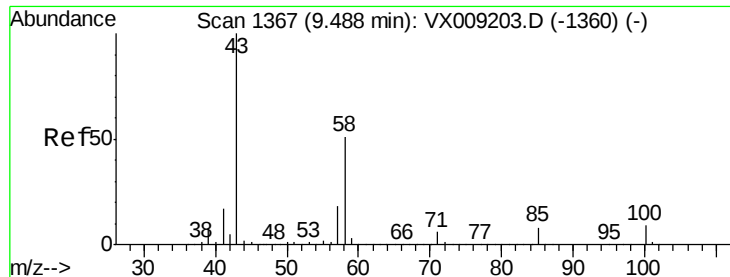
Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 1347.4 28.6 42.8#
 58 0.0 61.7 92.5#



#50
 Toluene-d8
 Concen: 49.344 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX009435.D
 Acq: 09 May 2019 18:08

Tgt Ion: 98 Resp: 376411
 Ion Ratio Lower Upper
 98 100
 100 64.2 51.2 76.8

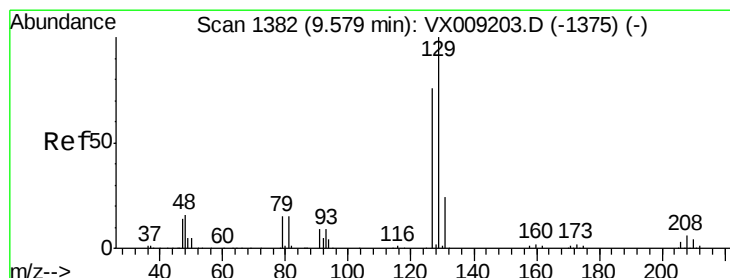
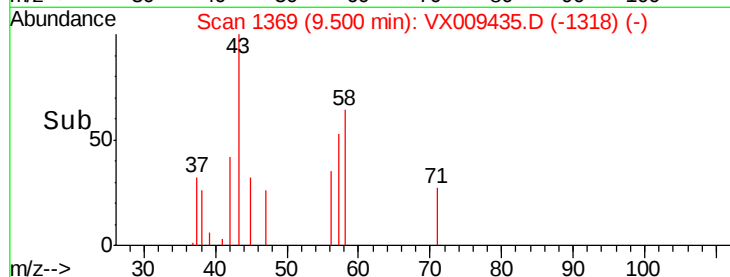
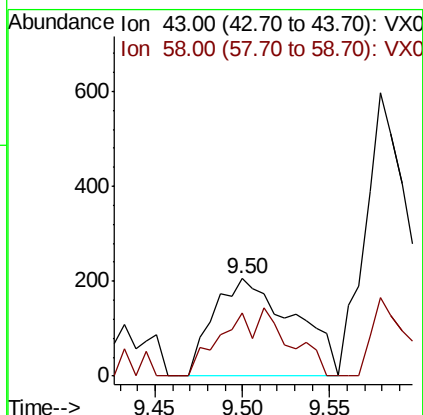
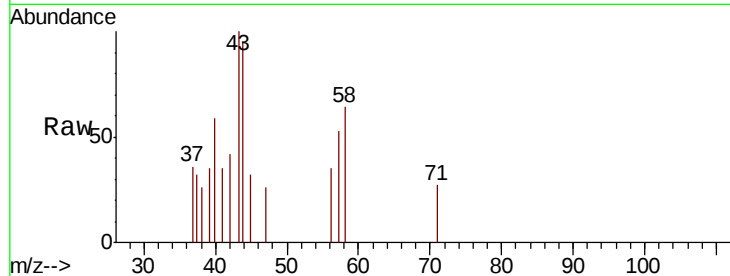




#59
2-Hexanone
Concen: 0.205 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VX009435.D
Acq: 09 May 2019 18:08

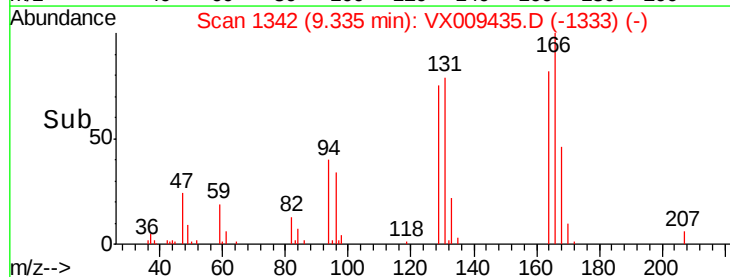
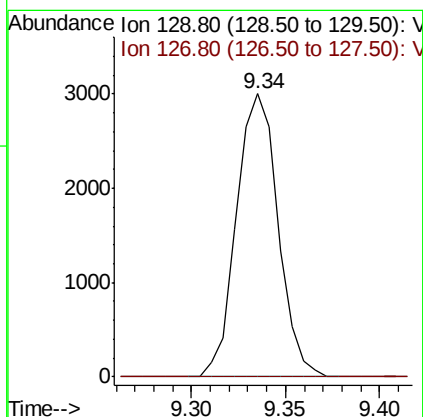
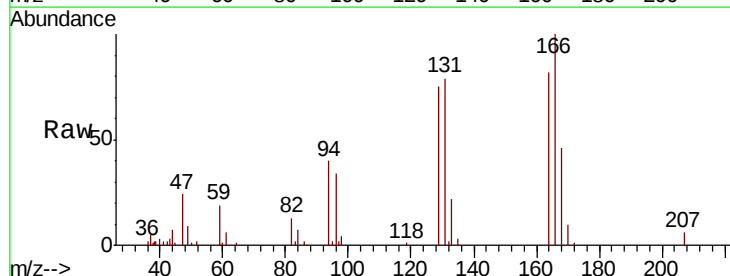
Instrument :
MSVOA_X
ClientSampleId :

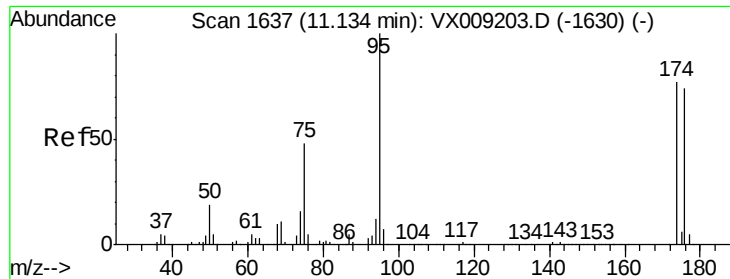
Tot Ion: 43 Resp: 656
Ion Ratio Lower Upper
43 100
58 28.2 25.9 77.7



#60
Dibromochloromethane
Concen: 2.190 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX009435.D
Acq: 09 May 2019 18:08

Tgt Ion:129 Resp: 4586
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.1#





#62

4-Bromofluorobenzene

Concen: 45.759 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009435.D

Acq: 09 May 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

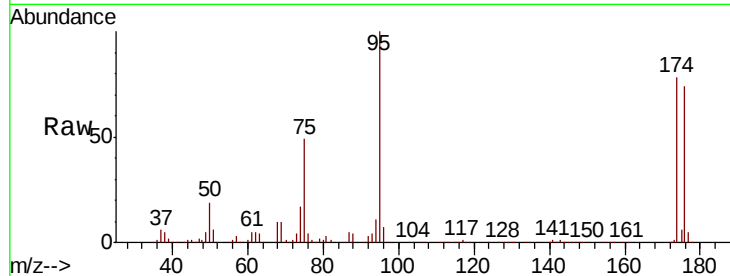
Tot Ion: 95 Resp: 126836

Ion Ratio Lower Upper

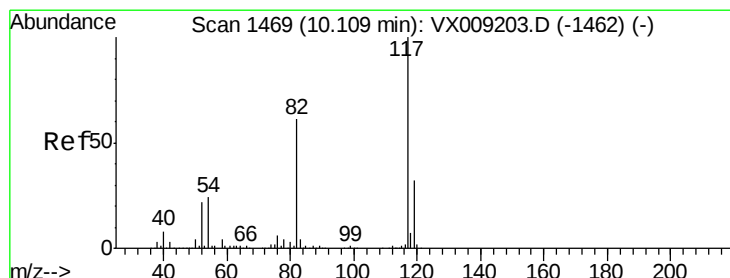
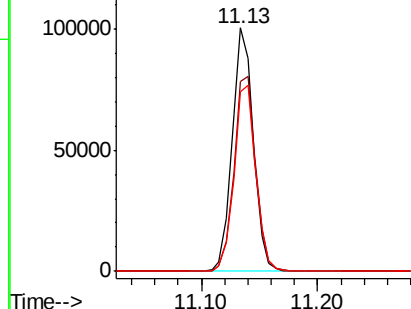
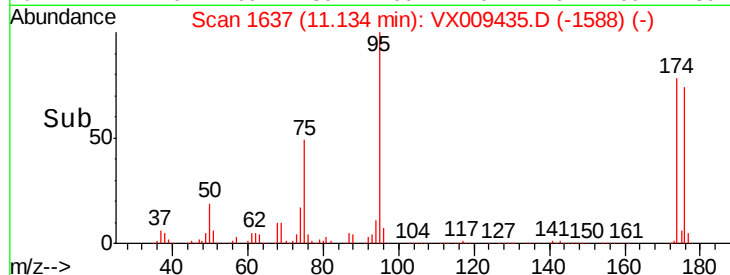
95 100

174 82.7 0.0 161.6

176 78.9 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009435.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009435.D

Acq: 09 May 2019 18:08

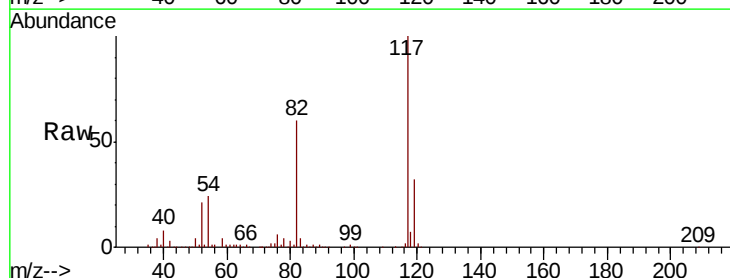
Tgt Ion: 117 Resp: 266252

Ion Ratio Lower Upper

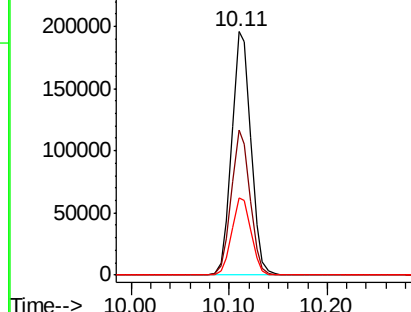
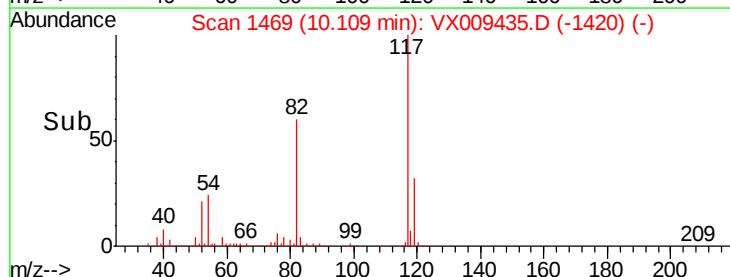
117 100

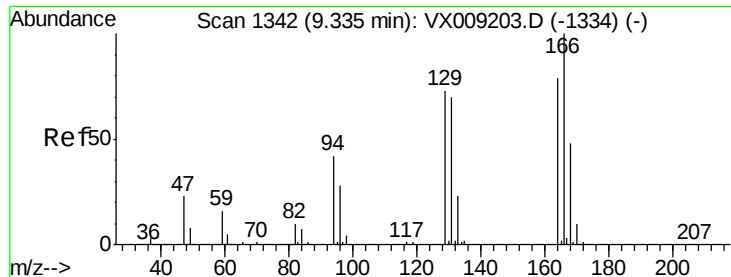
82 59.5 48.8 73.2

119 31.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX009435.D (-1420) (-)





#64

Tetrachloroethene

Concen: 2.728 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009435.D

Acq: 09 May 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:164 Resp: 4983

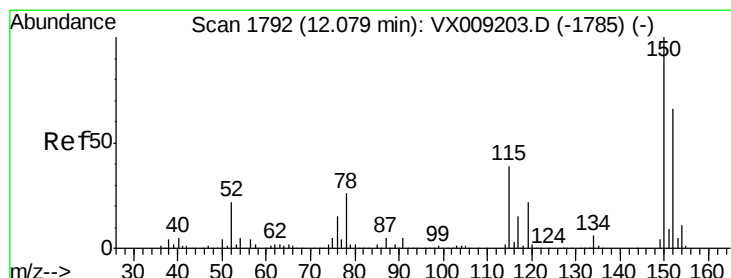
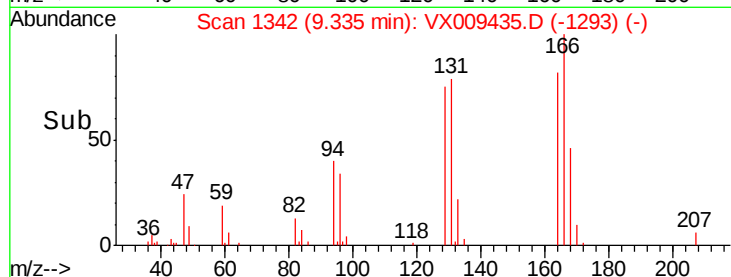
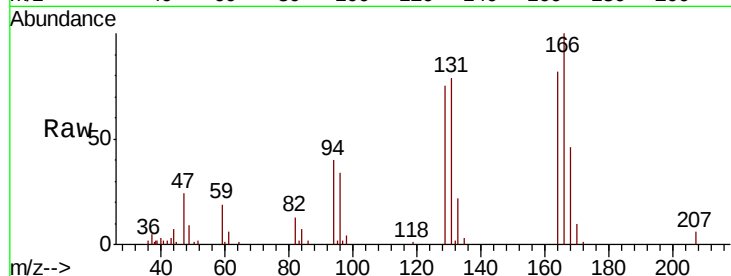
Ion Ratio Lower Upper

164 100

166 122.0 101.2 151.8

129 91.3 74.3 111.5

131 96.8 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: VX009435.D

Acq: 09 May 2019 18:08

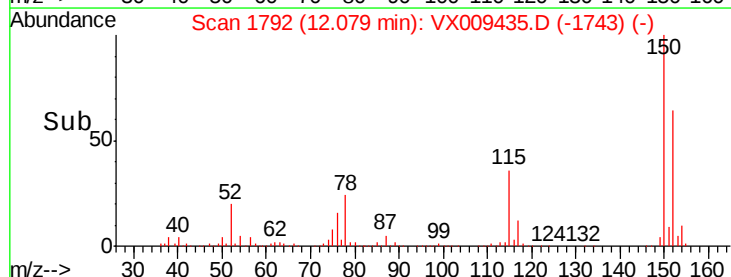
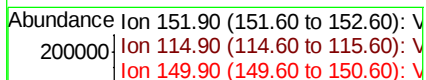
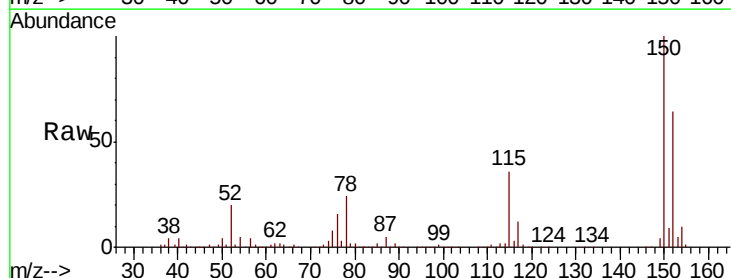
Tgt Ion:152 Resp: 117437

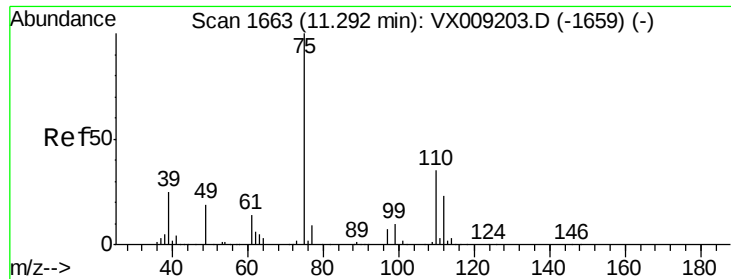
Ion Ratio Lower Upper

152 100

115 57.8 41.2 123.6

150 156.1 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 23.315 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009435.D

Acq: 09 May 2019 18:08

Instrument :

MSVOA_X

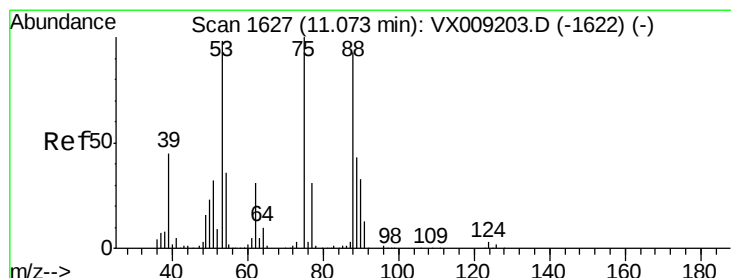
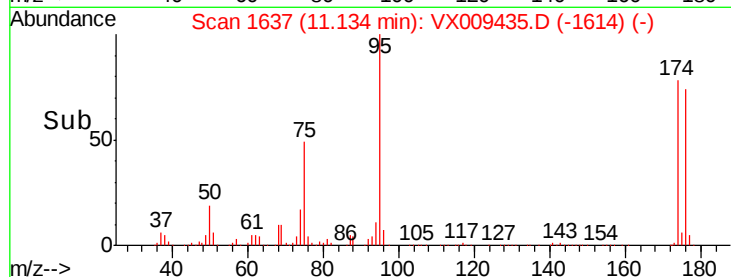
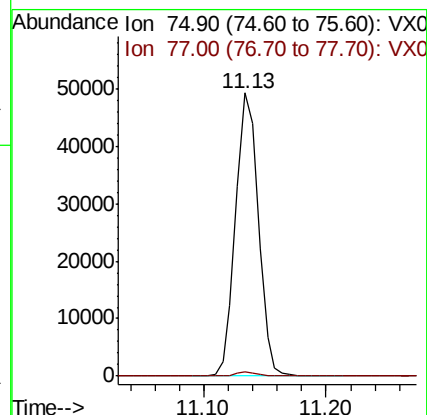
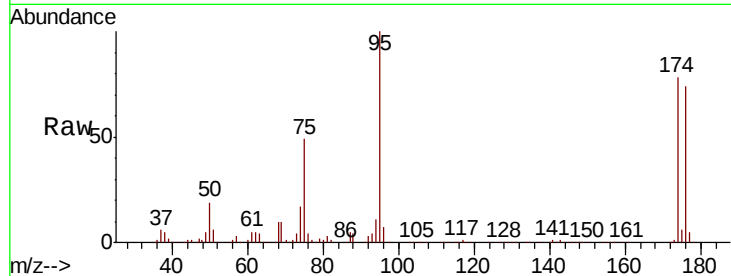
ClientSampleId :

Tot Ion: 75 Resp: 63514

Ion Ratio Lower Upper

75 100

77 1.5 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.656 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009435.D

Acq: 09 May 2019 18:08

Tgt Ion: 75 Resp: 63514

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

89 0.0 34.7 52.1#

