

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014338.D
 Acq On : 28 Dec 2019 03:46
 Operator : JC/SP
 Sample : K6441-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 K321-WC-01

Quant Time: Dec 30 05:45:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	516465	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	801182	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	729914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	321715	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	285921	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
35) Dibromofluoromethane	5.49	113	240966	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
50) Toluene-d8	8.71	98	972135	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
62) 4-Bromofluorobenzene	11.13	95	326054	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	

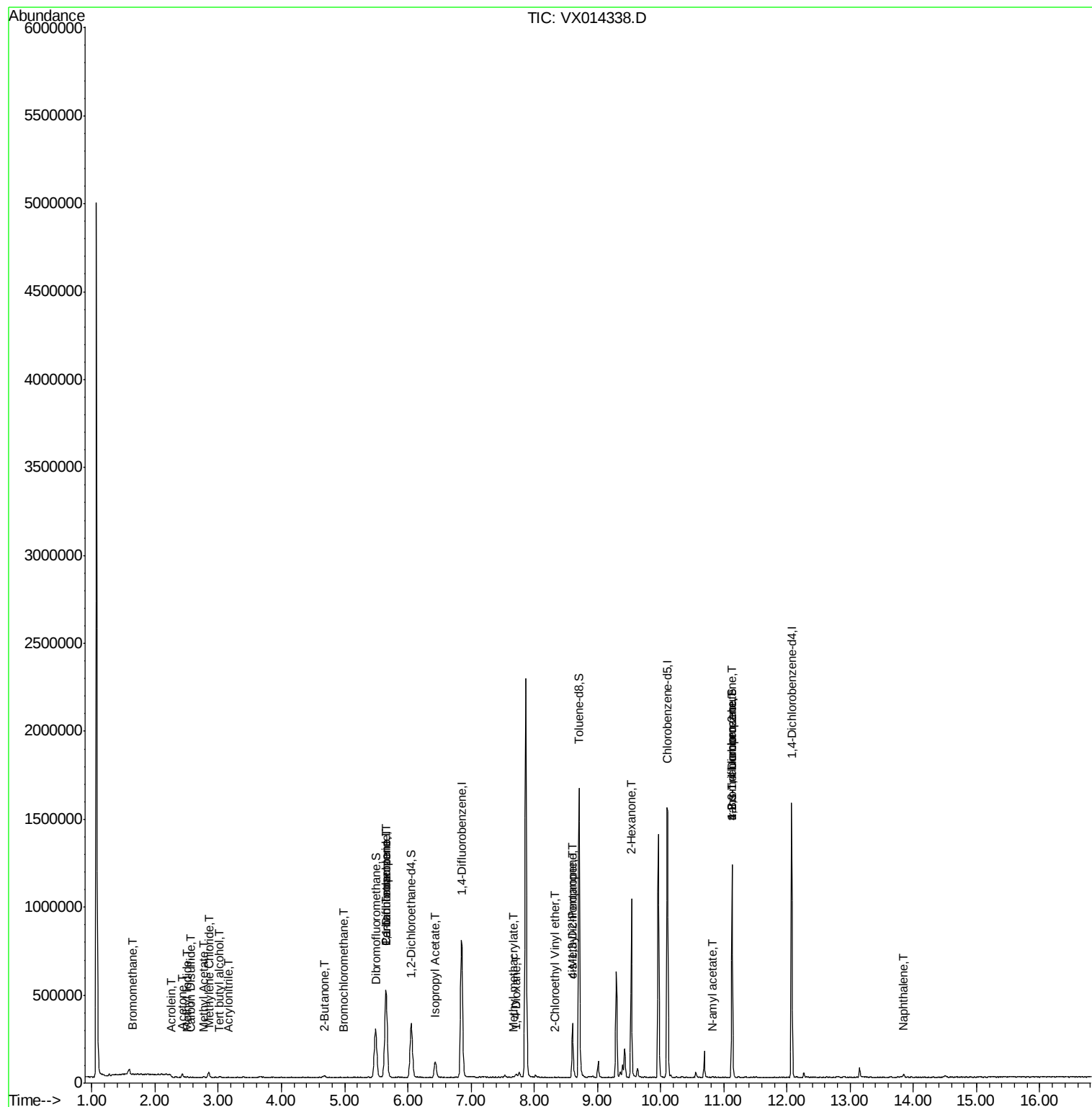
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1235	0.266	ug/l	84
10) Methyl Iodide	2.50	142	380	2.677	ug/l #	1
11) Tert butyl alcohol	3.02	59	2024	1.600	ug/l #	80
13) Acrolein	2.27	56	438	0.605	ug/l #	53
15) Acrylonitrile	3.17	53	840	0.285	ug/l #	35
16) Acetone	2.43	43	22555	5.935	ug/l	95
17) Carbon Disulfide	2.56	76	1793	0.878	ug/l #	55
18) Methyl Acetate	2.76	43	5197	0.690	ug/l	91
20) Methylene Chloride	2.85	84	14821	2.477	ug/l	93
25) 2-Butanone	4.68	43	5352	1.142	ug/l	90
28) Bromochloromethane	5.00	49	493	0.583	ug/l #	41
36) 1,1-Dichloropropene	5.65	75	36188	4.923	ug/l #	51
38) Carbon Tetrachloride	5.65	117	46565	6.953	ug/l #	16
43) Isopropyl Acetate	6.43	43	123734	9.210	ug/l	99
48) Methyl methacrylate	7.67	41	6309	0.959	ug/l #	20
49) 1,4-Dioxane	7.72	88	330	2.465	ug/l #	10
51) 4-Methyl-2-Pentanone	8.61	43	109868	13.022	ug/l #	52
54) cis-1,3-Dichloropropene	8.61	75	49511	5.614	ug/l #	60
58) 2-Chloroethyl Vinyl ether	8.32	63	1035	0.304	ug/l #	61
59) 2-Hexanone	9.54	43	120631	17.761	ug/l #	48
74) N-amyl acetate	10.82	43	3715	0.350	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	157440	22.542	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	157440	63.625	ug/l #	12
95) Naphthalene	13.84	128	4727	0.225	ug/l #	91

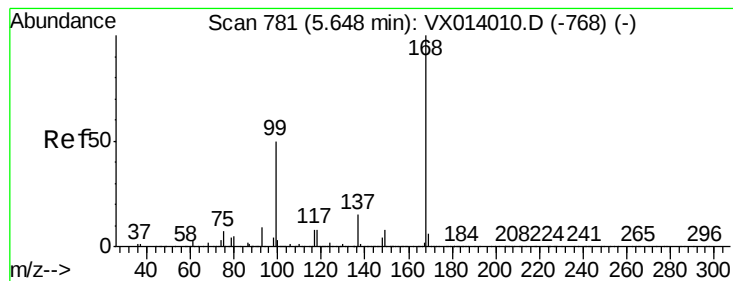
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampleId :

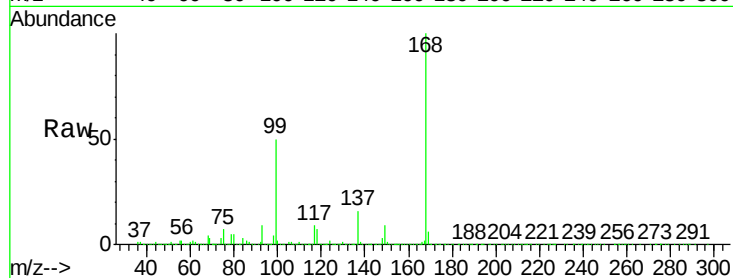
K321-WC-01

Tgt Ion: 168 Resp: 516465

Ion Ratio Lower Upper

168 100

99 49.7 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

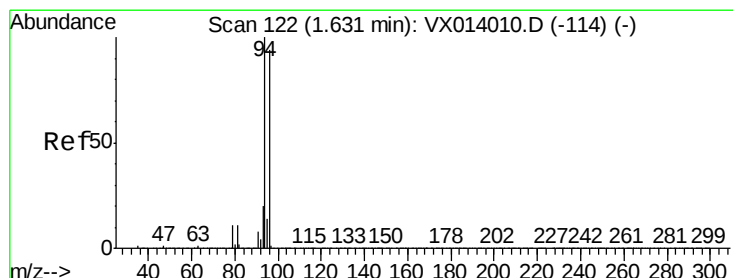
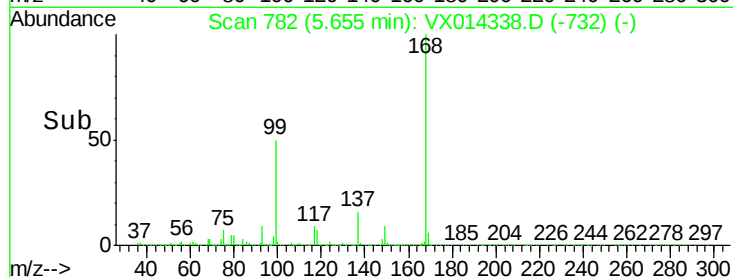
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.266 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014338.D

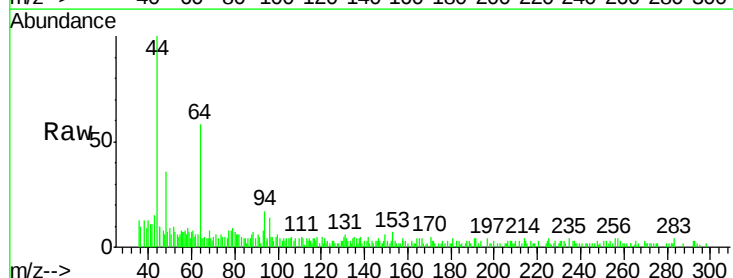
Acq: 28 Dec 2019 03:46

Tgt Ion: 94 Resp: 1235

Ion Ratio Lower Upper

94 100

96 109.9 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

600

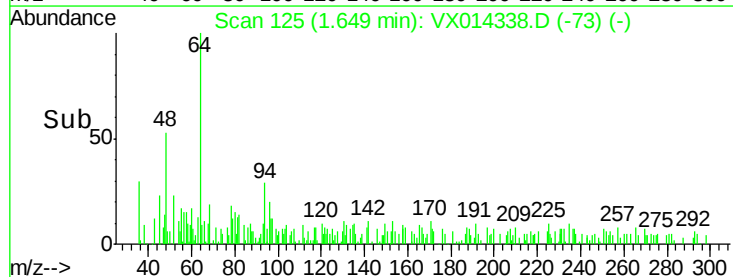
400

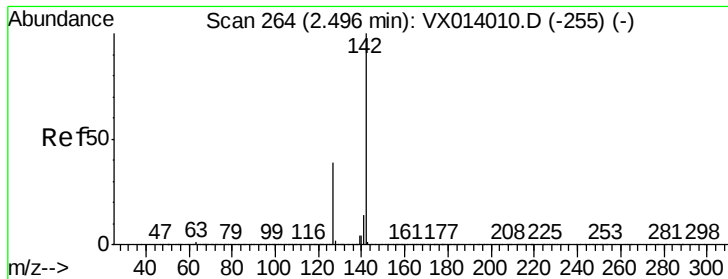
200

0

1.60 1.65 1.70

Time-->





#10

Methyl Iodide

Concen: 2.677 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampleId :

K321-WC-01

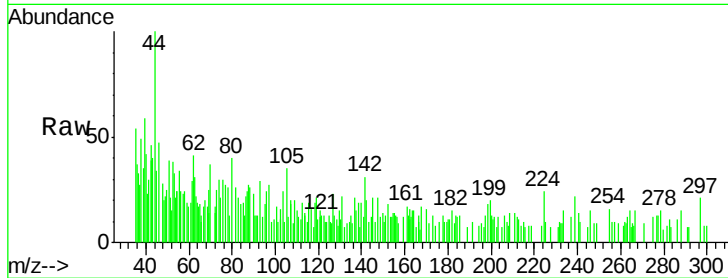
Tgt Ion: 142 Resp: 380

Ion Ratio Lower Upper

142 100

127 178.4 31.6 47.4#

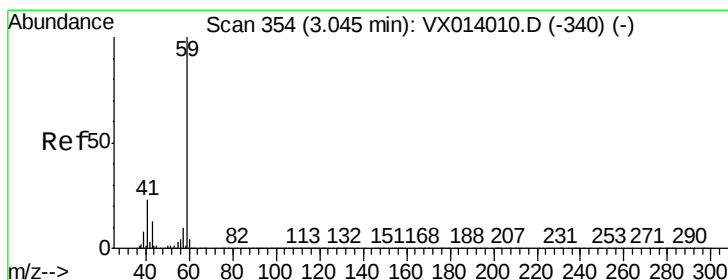
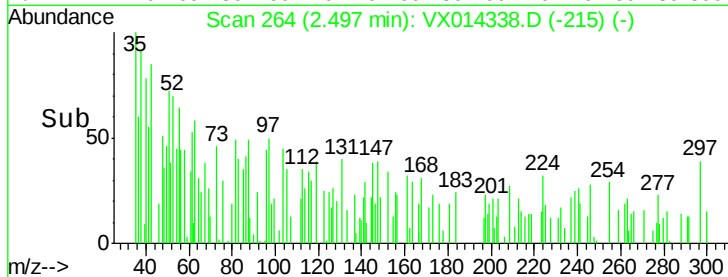
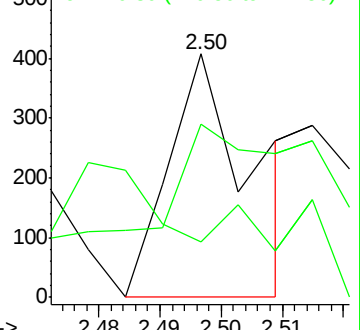
141 0.0 11.6 17.4#



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: 1.600 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX014338.D

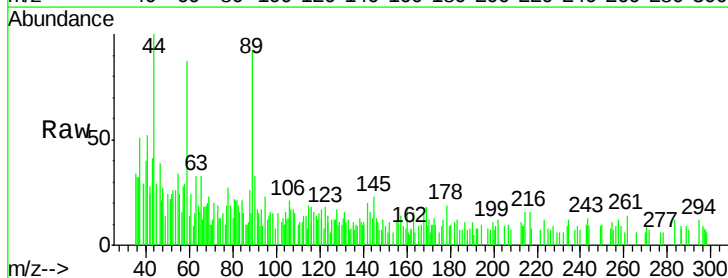
Acq: 28 Dec 2019 03:46

Tgt Ion: 59 Resp: 2024

Ion Ratio Lower Upper

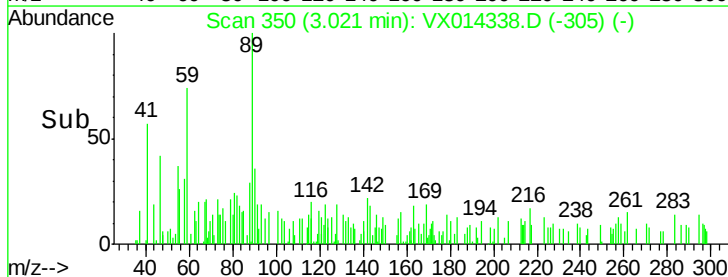
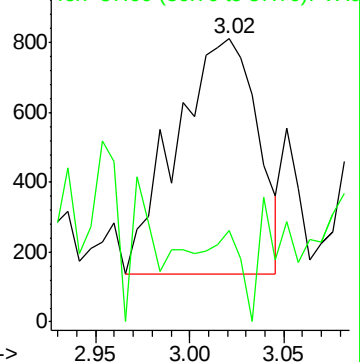
59 100

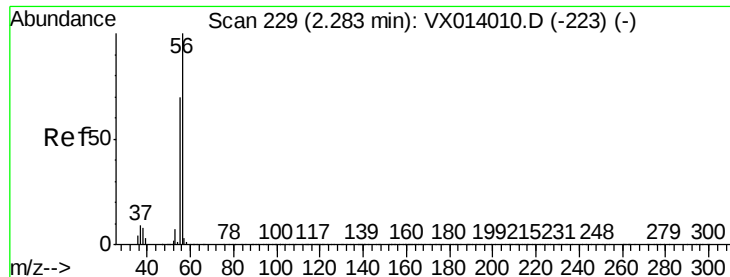
57 18.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.605 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampled :

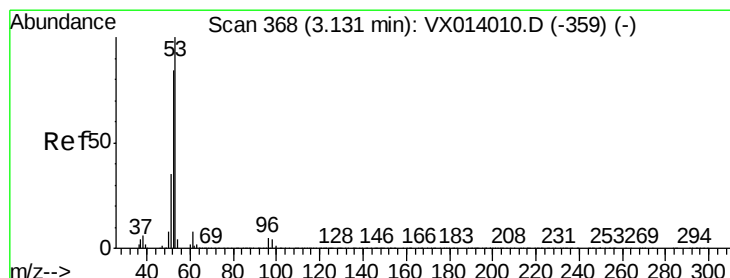
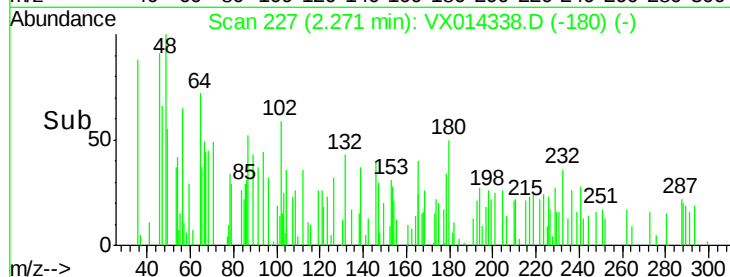
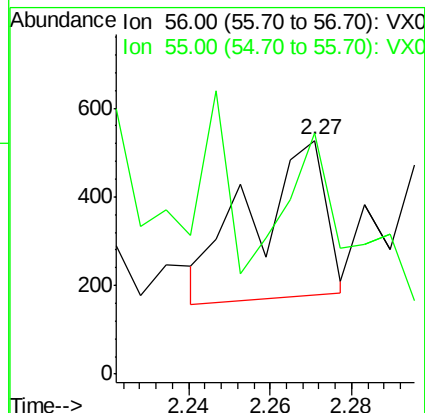
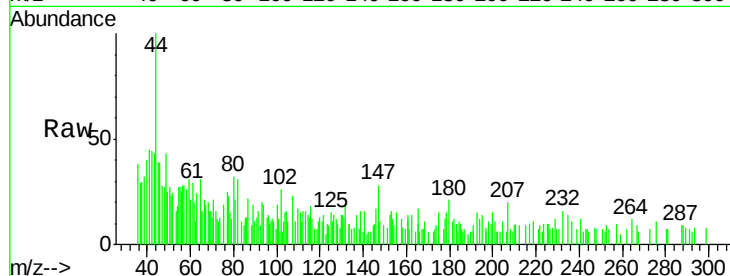
K321-WC-01

Tgt Ion: 56 Resp: 438

Ion Ratio Lower Upper

56 100

55 32.2 56.9 85.3#



#15

Acrylonitrile

Concen: 0.285 ug/l

RT: 3.17 min Scan# 375

Delta R.T. 0.04 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

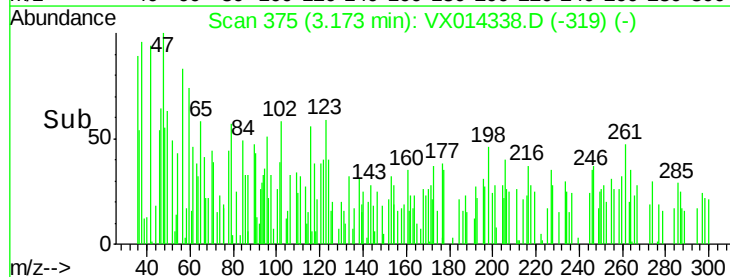
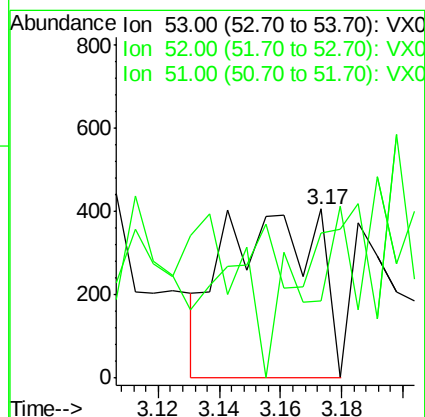
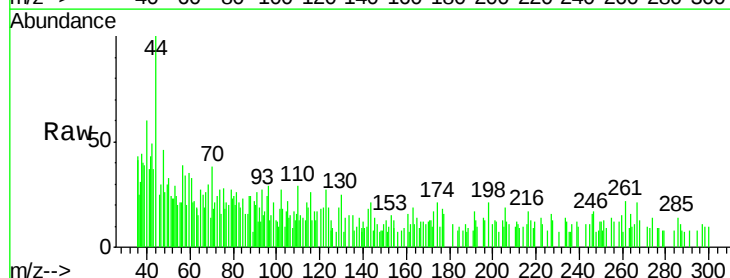
Tgt Ion: 53 Resp: 840

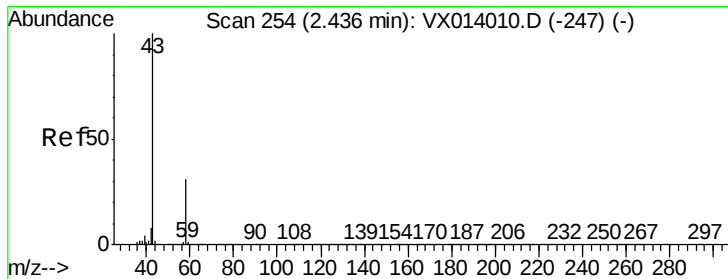
Ion Ratio Lower Upper

53 100

52 22.9 66.5 99.7#

51 0.0 28.1 42.1#

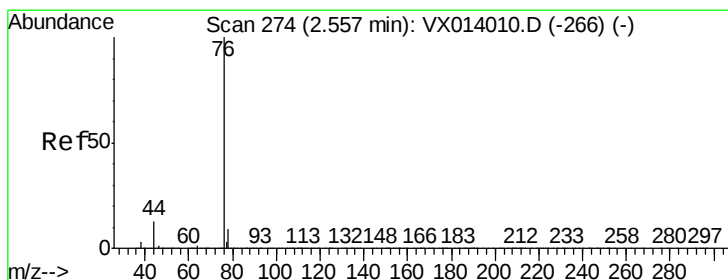
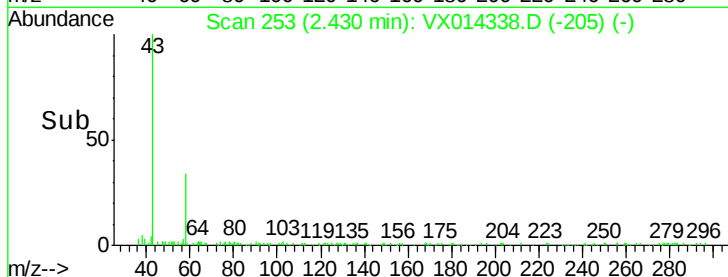
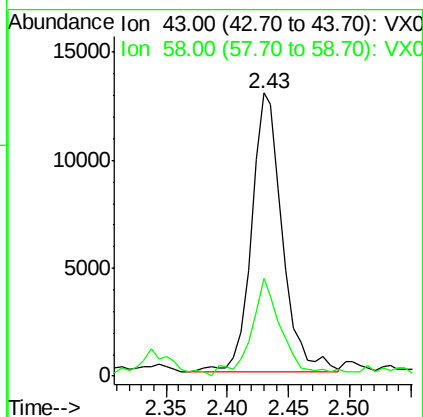
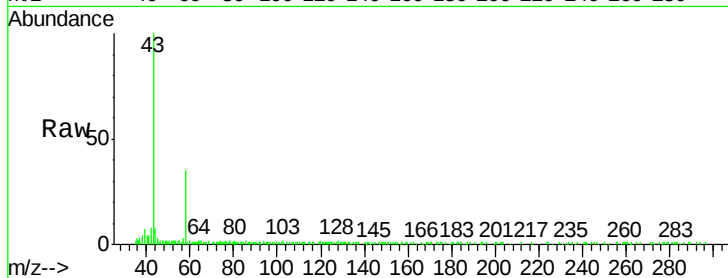




#16
Acetone
Concen: 5.935 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

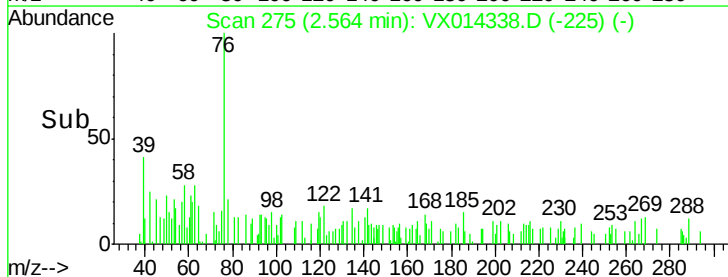
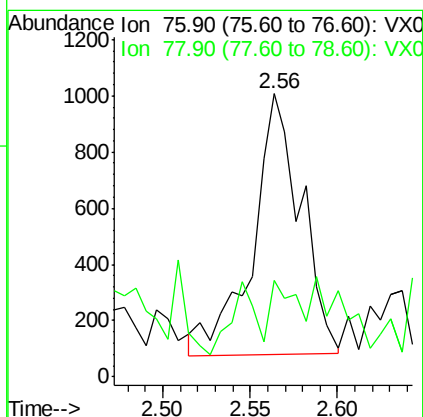
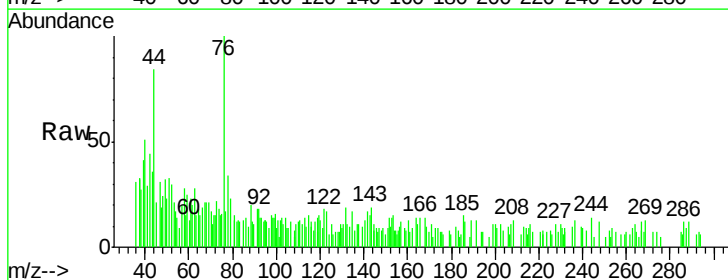
Instrument :
MSVOA_X
ClientSampled :
K321-WC-01

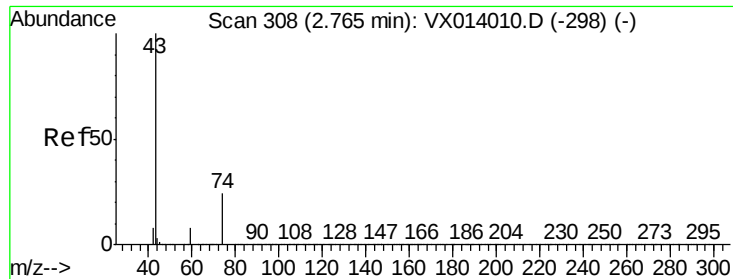
Tgt Ion: 43 Resp: 22555
Ion Ratio Lower Upper
43 100
58 33.6 24.9 37.3



#17
Carbon Disulfide
Concen: 0.878 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

Tgt Ion: 76 Resp: 1793
Ion Ratio Lower Upper
76 100
78 25.3 7.2 10.8#

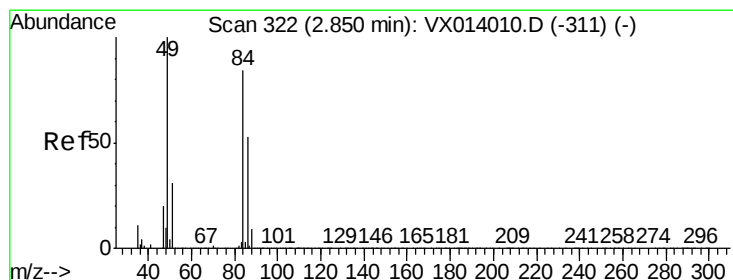
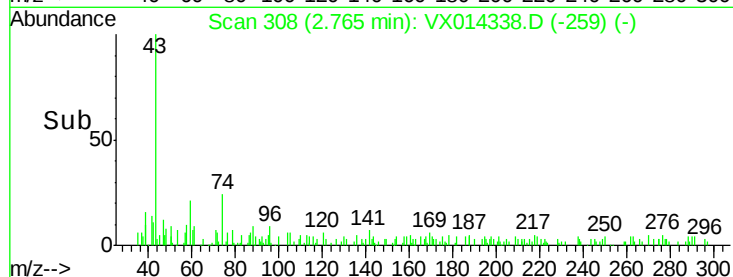
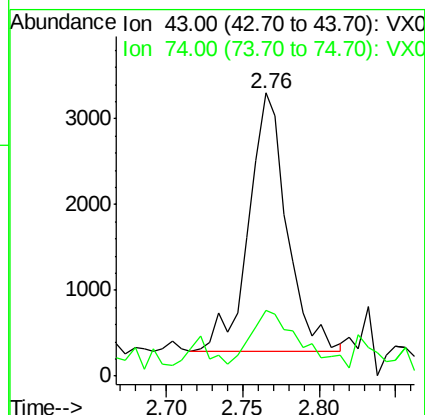
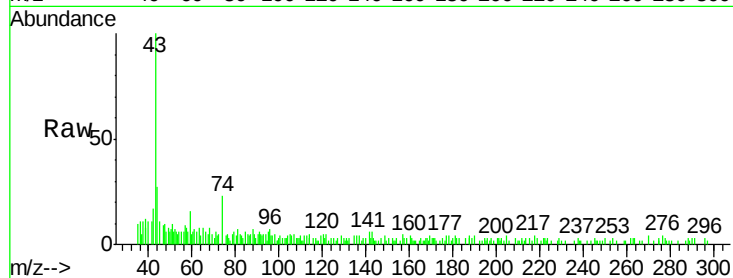




#18
Methyl Acetate
Concen: 0.690 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

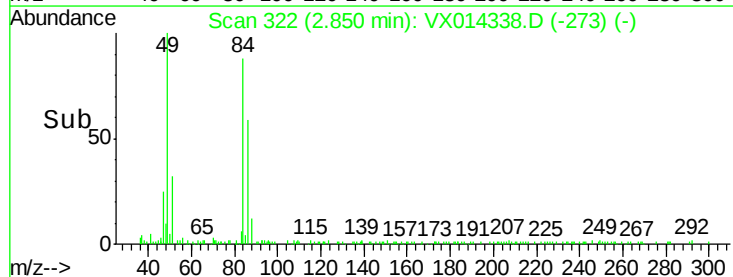
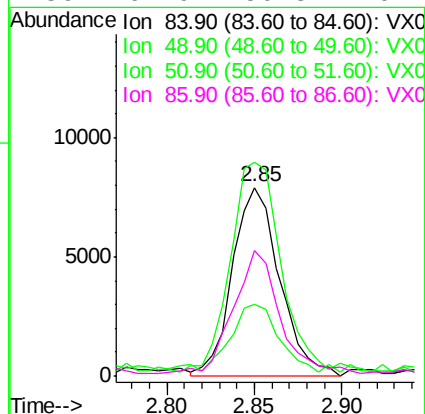
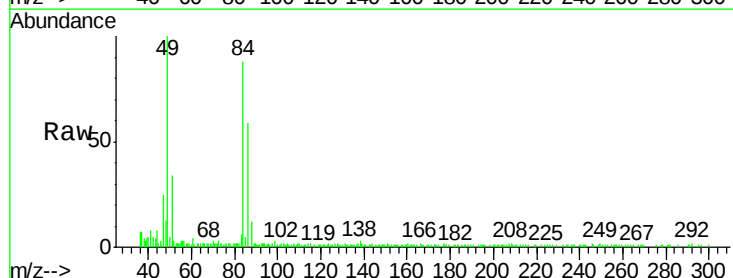
Instrument :
MSVOA_X
ClientSampleId :
K321-WC-01

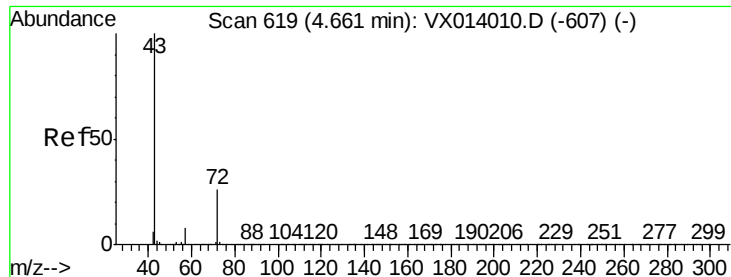
Tgt Ion: 43 Resp: 5197
Ion Ratio Lower Upper
43 100
74 28.7 19.5 29.3



#20
Methylene Chloride
Concen: 2.477 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

Tgt Ion: 84 Resp: 14821
Ion Ratio Lower Upper
84 100
49 108.1 95.8 143.6
51 33.3 29.8 44.8
86 62.9 50.8 76.2





#25

2-Butanone

Concen: 1.142 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampleId :

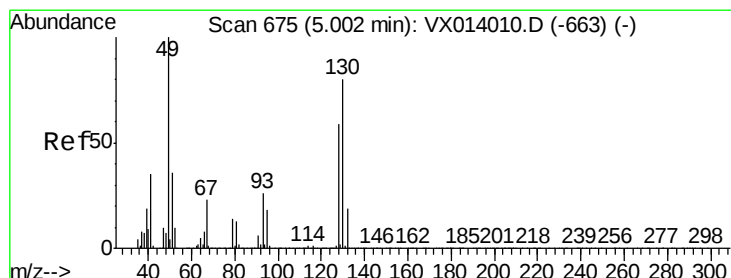
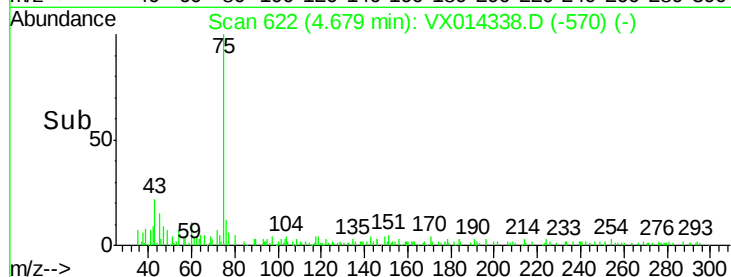
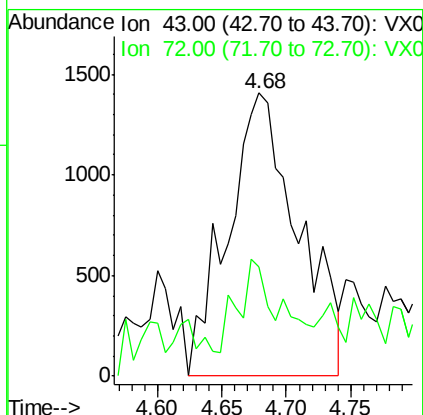
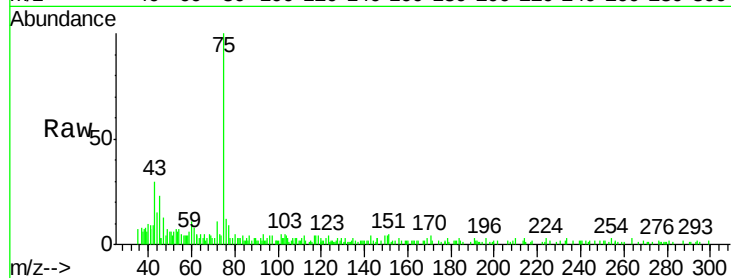
K321-WC-01

Tgt Ion: 43 Resp: 5352

Ion Ratio Lower Upper

43 100

72 21.2 21.0 31.4



#28

Bromochloromethane

Concen: 0.583 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

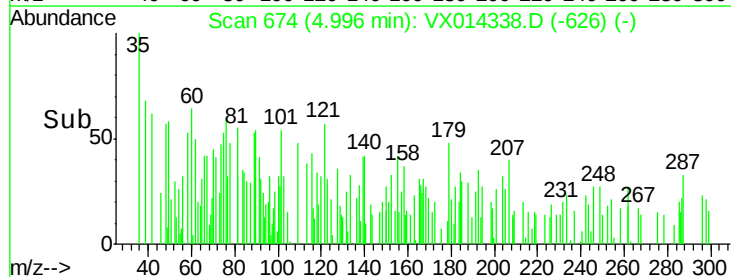
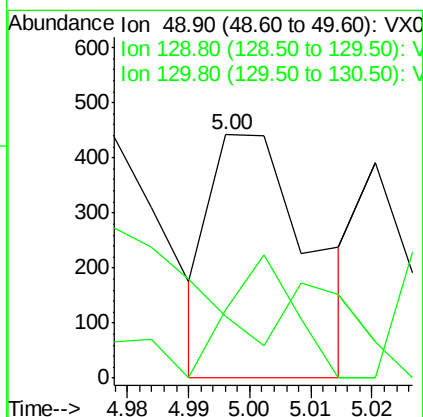
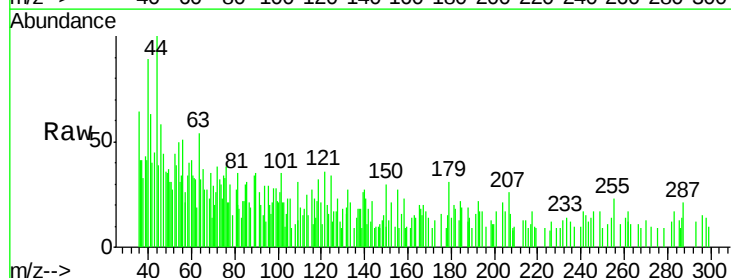
Tgt Ion: 49 Resp: 493

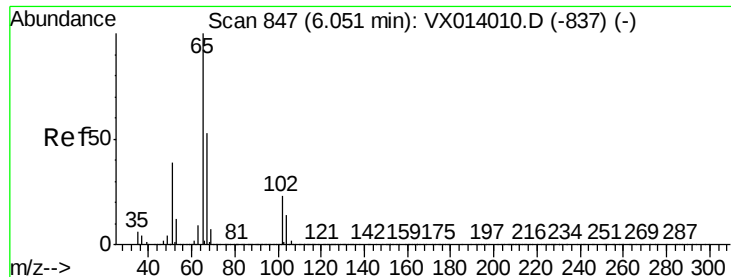
Ion Ratio Lower Upper

49 100

129 33.9 0.0 5.0#

130 29.0 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 48.847 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampleId :

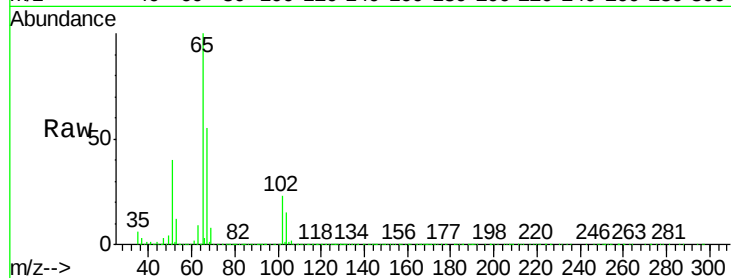
K321-WC-01

Tgt Ion: 65 Resp: 285921

Ion Ratio Lower Upper

65 100

67 54.9 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

120000

100000

80000

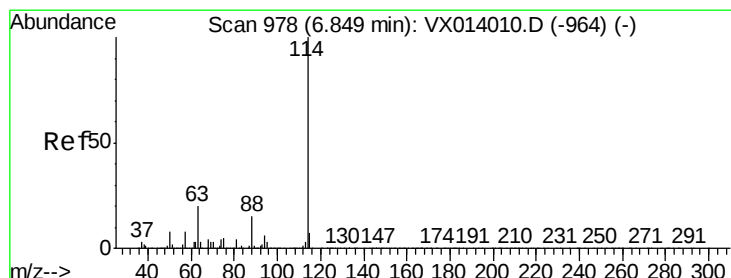
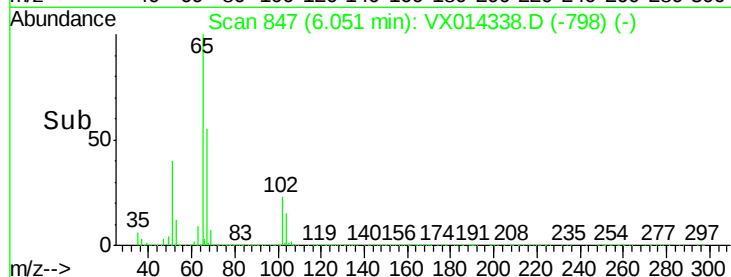
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

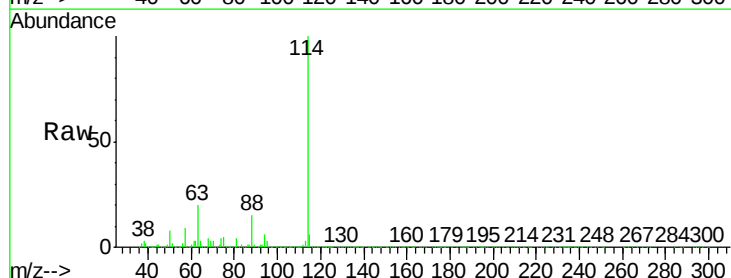
Tgt Ion: 114 Resp: 801182

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

88 15.1 0.0 30.4



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

6.85

400000

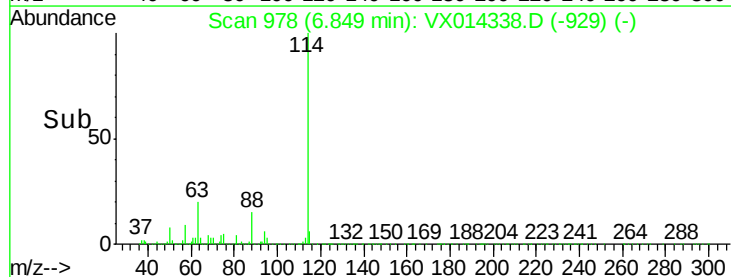
300000

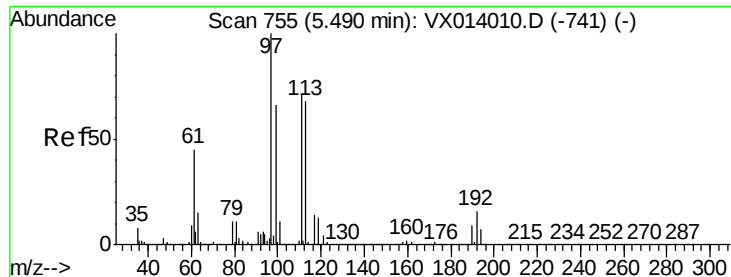
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 49.477 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampled :

K321-WC-01

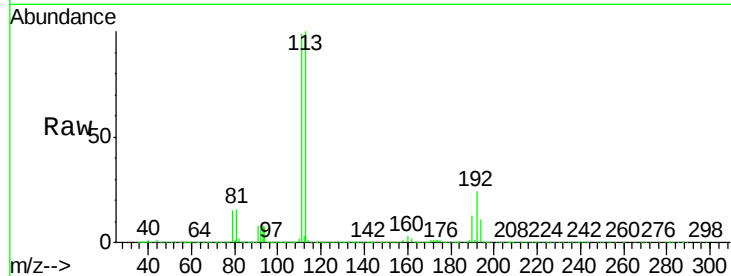
Tgt Ion:113 Resp: 240966

Ion Ratio Lower Upper

113 100

111 101.6 82.0 123.0

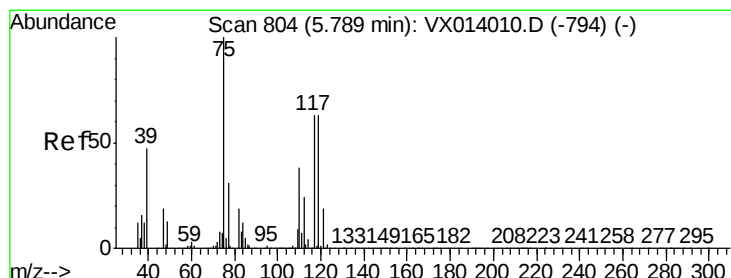
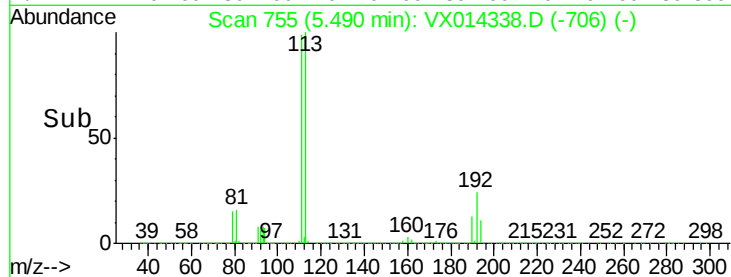
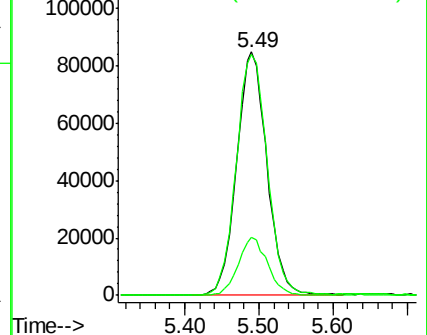
192 23.4 19.3 28.9



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: 4.923 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

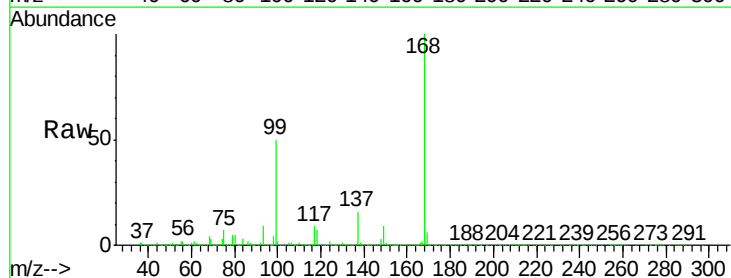
Tgt Ion: 75 Resp: 36188

Ion Ratio Lower Upper

75 100

110 10.4 18.3 54.9#

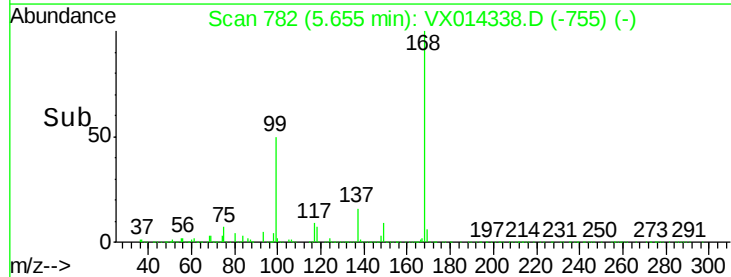
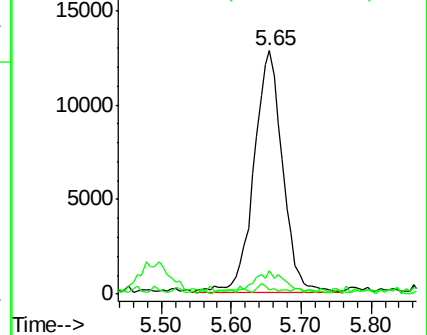
77 1.4 24.8 37.2#

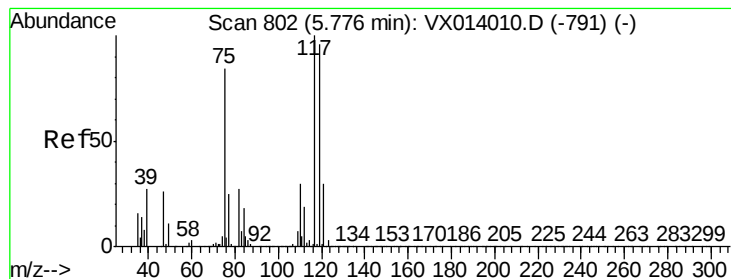


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.953 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampled :

K321-WC-01

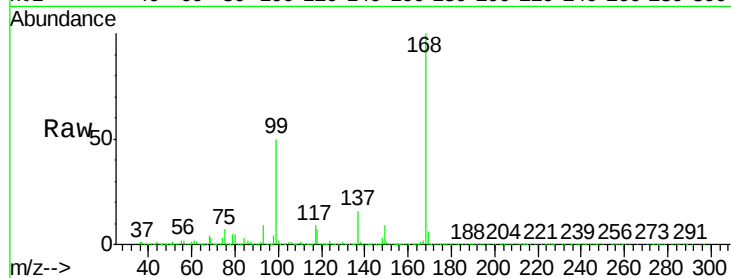
Tgt Ion: 117 Resp: 46565

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.4#

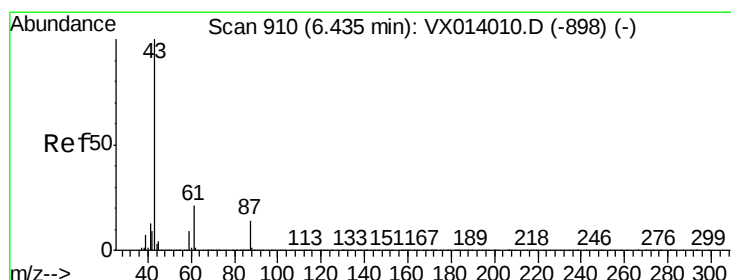
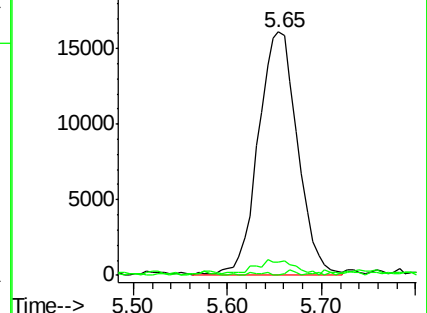
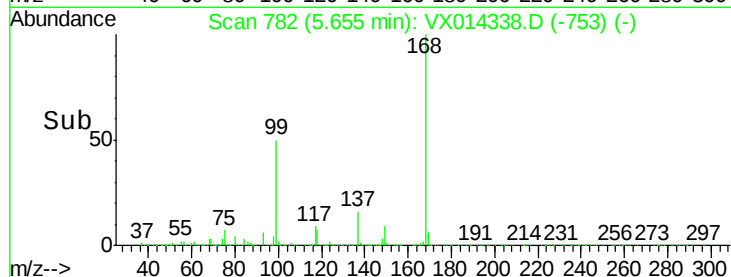
121 0.1 23.6 35.4#



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



#43

Isopropyl Acetate

Concen: 9.210 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

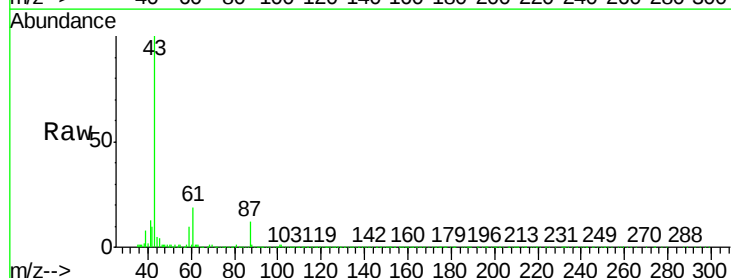
Tgt Ion: 43 Resp: 123734

Ion Ratio Lower Upper

43 100

61 20.7 16.4 24.6

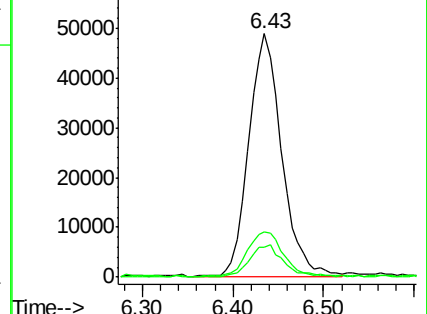
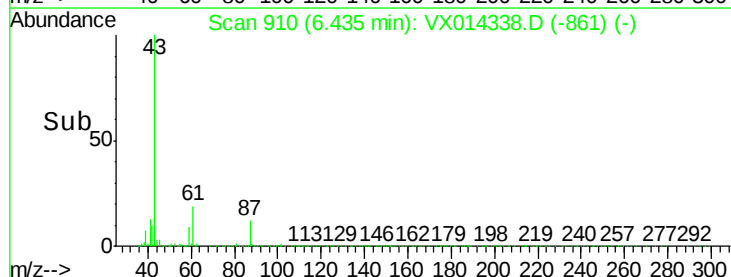
87 13.0 10.7 16.1

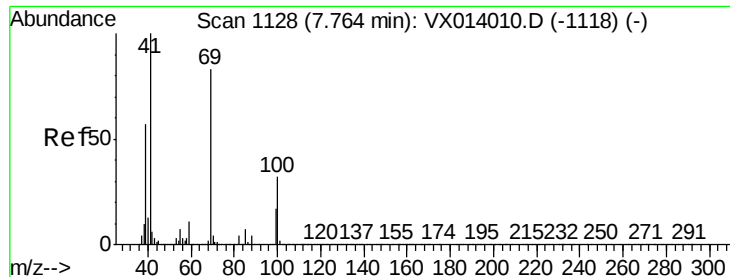


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

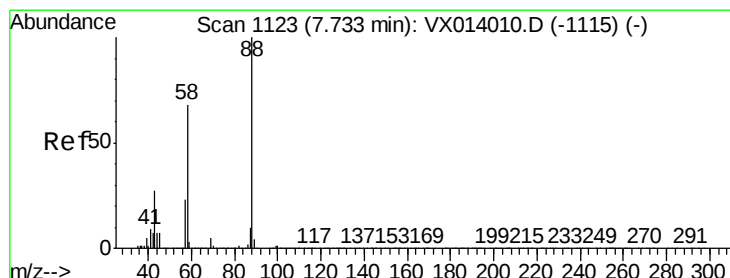
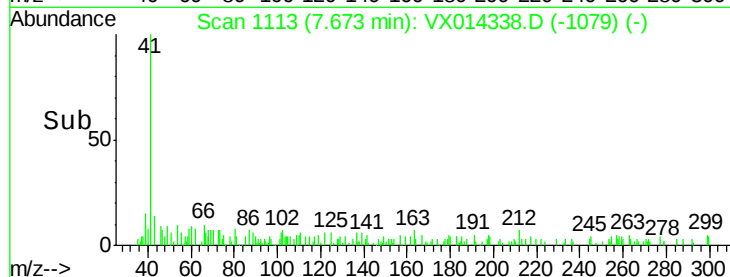
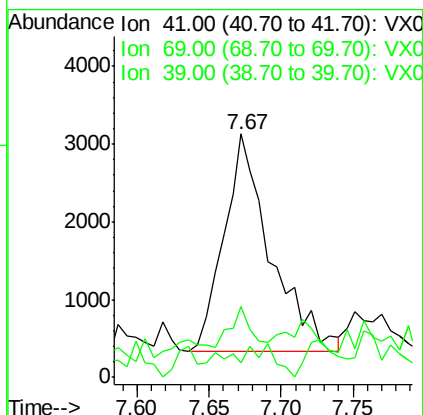
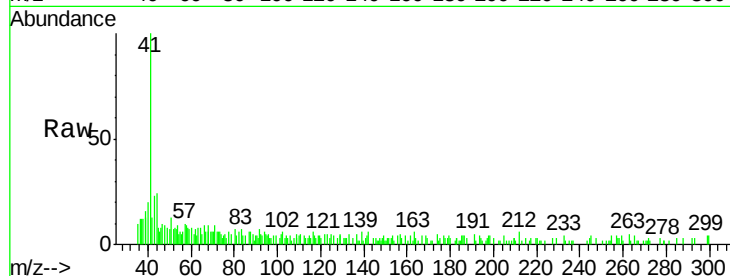




#48
Methyl methacrylate
Concen: 0.959 ug/l
RT: 7.67 min Scan# 1113
Delta R.T. -0.09 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

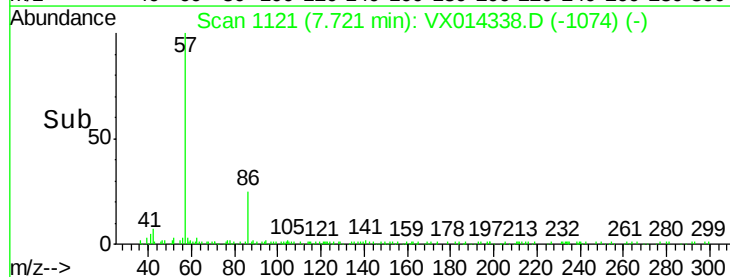
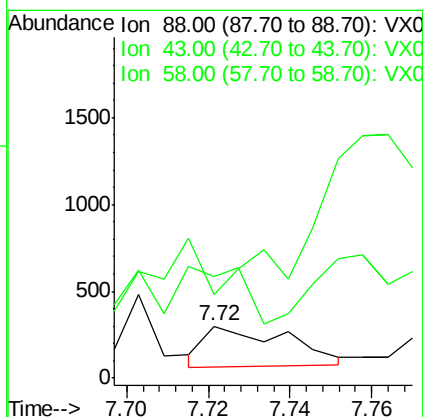
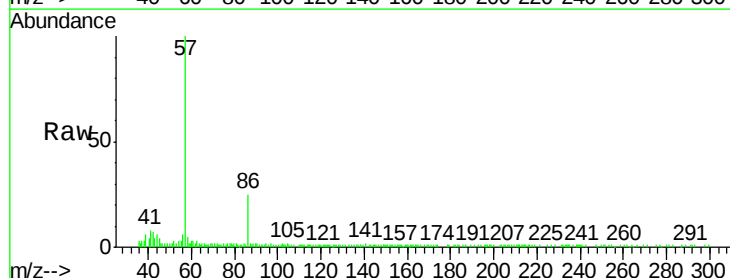
Instrument :
MSVOA_X
ClientSampleId :
K321-WC-01

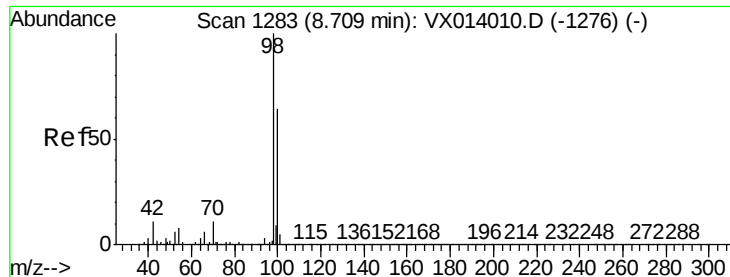
Tgt Ion: 41 Resp: 6309
Ion Ratio Lower Upper
41 100
69 8.1 65.8 98.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.465 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

Tgt Ion: 88 Resp: 330
Ion Ratio Lower Upper
88 100
43 0.0 26.5 39.7#
58 157.3 56.8 85.2#





#50

Toluene-d8

Concen: 51.269 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampleId :

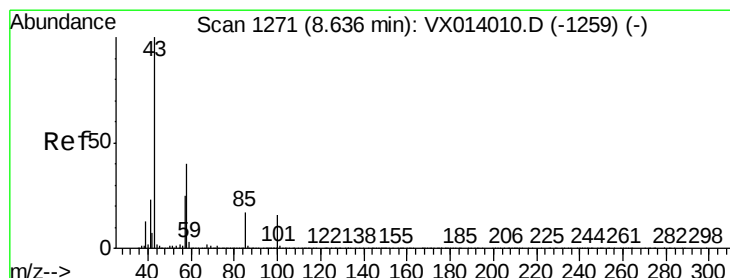
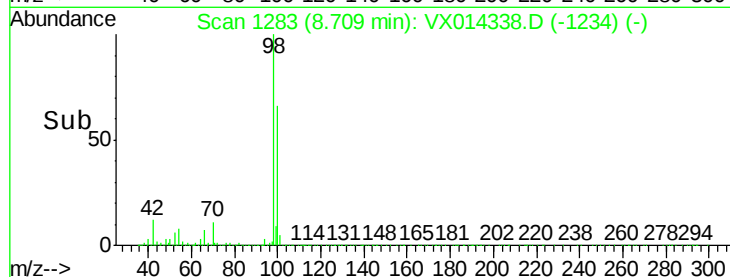
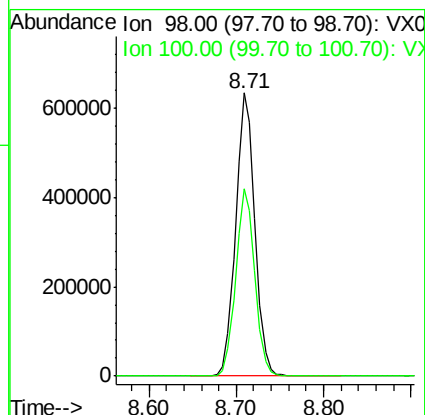
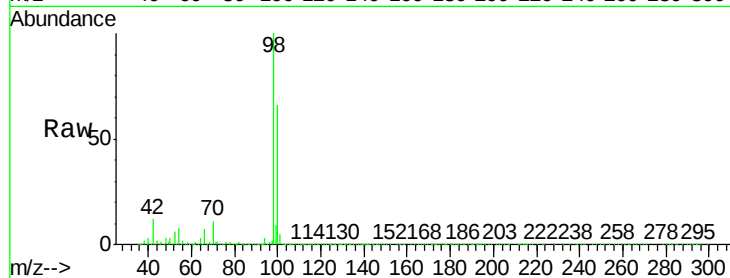
K321-WC-01

Tgt Ion: 98 Resp: 972135

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 13.022 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014338.D

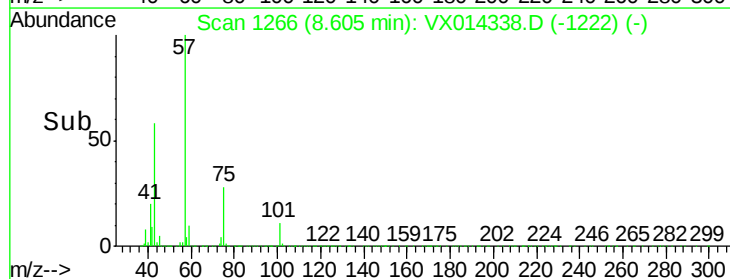
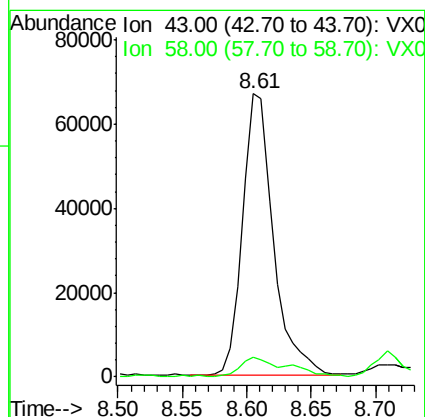
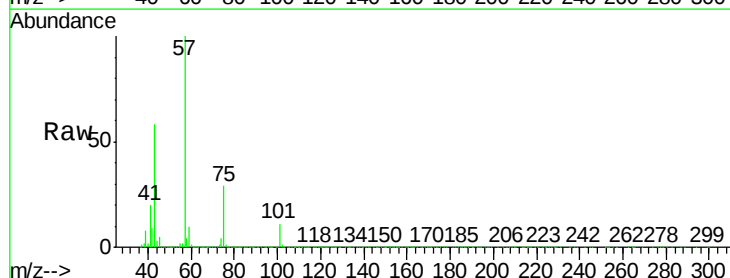
Acq: 28 Dec 2019 03:46

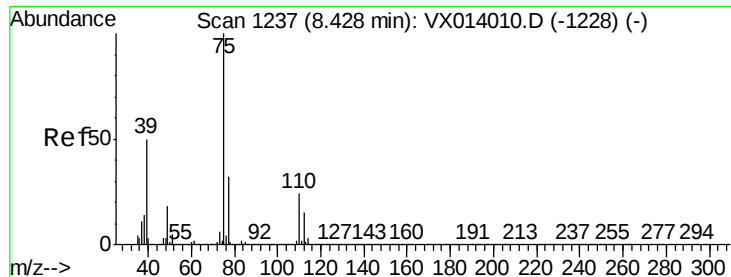
Tgt Ion: 43 Resp: 109868

Ion Ratio Lower Upper

43 100

58 10.4 32.2 48.2#



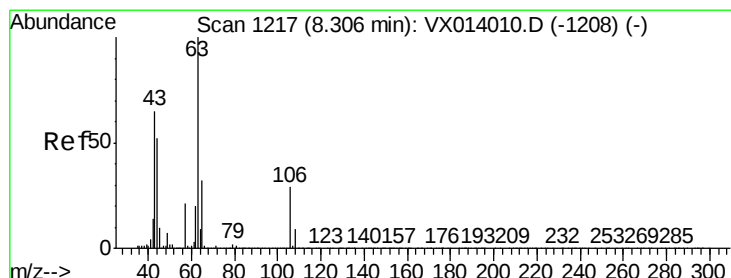
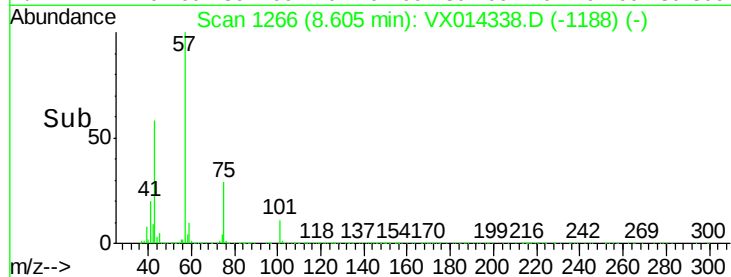
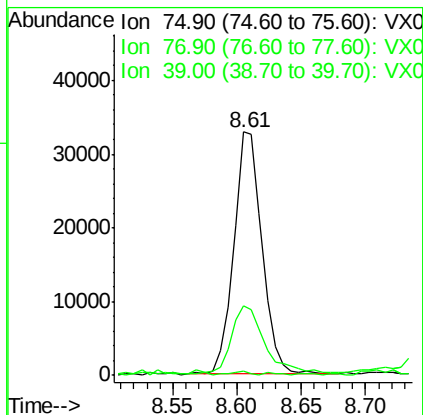
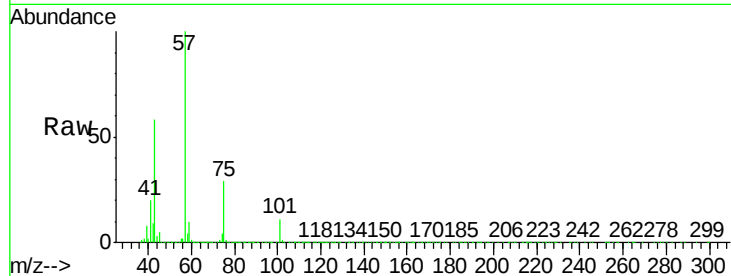


#54

cis-1,3-Dichloropropene
Concen: 5.614 ug/l
RT: 8.61 min Scan# 1266
Delta R.T. 0.18 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

Instrument :
MSVOA_X
ClientSampleId :
K321-WC-01

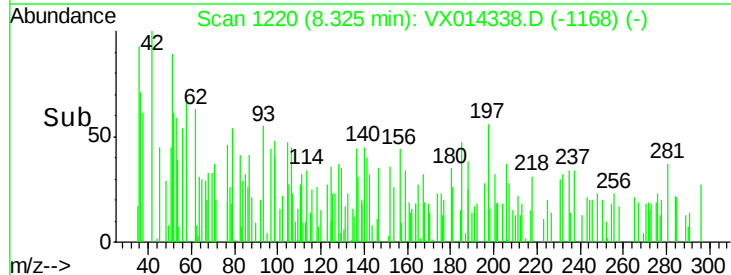
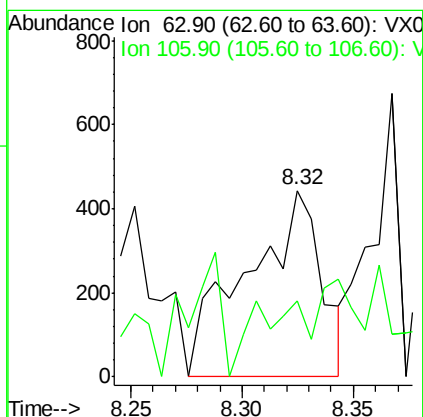
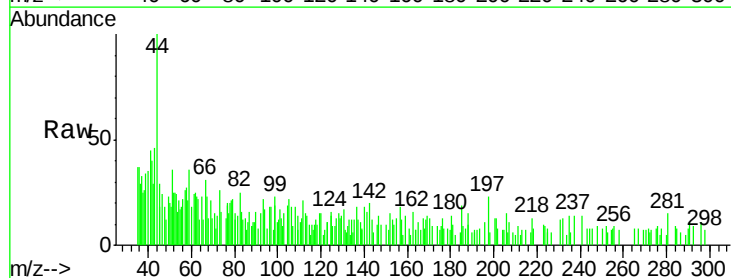
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	25.3	37.9#
39	28.3	39.9	59.9#

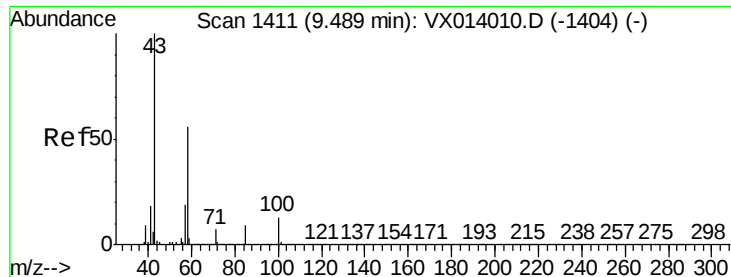


#58

2-Chloroethyl Vinyl ether
Concen: 0.304 ug/l
RT: 8.32 min Scan# 1220
Delta R.T. 0.02 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

Tgt Ion	Ratio	Lower	Upper
63	100		
106	8.2	23.0	34.6#

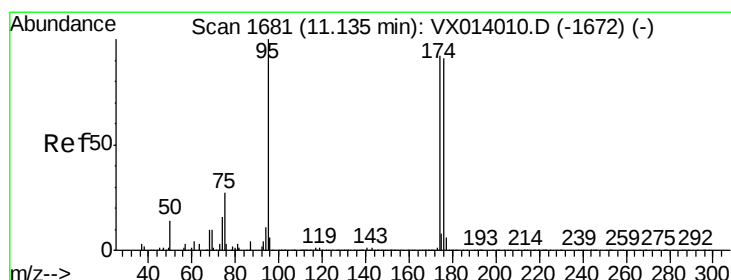
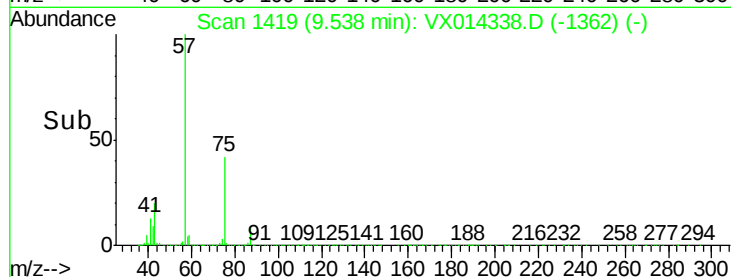
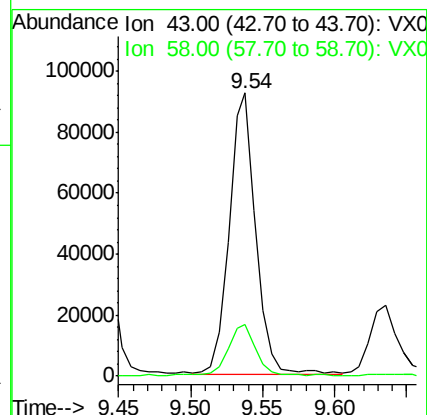
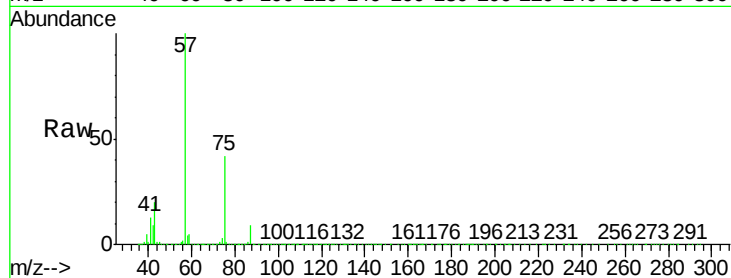




#59
2-Hexanone
Concen: 17.761 ug/l
RT: 9.54 min Scan# 1419
Delta R.T. 0.05 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

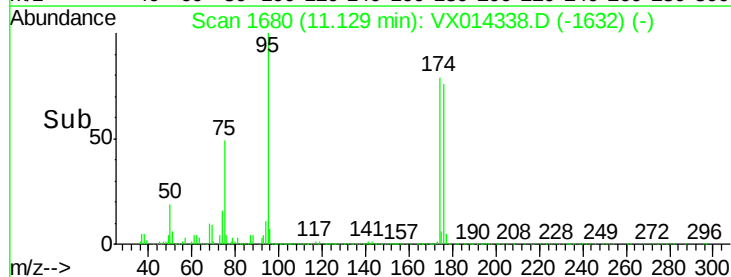
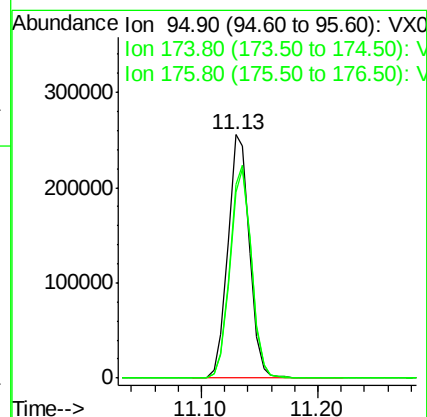
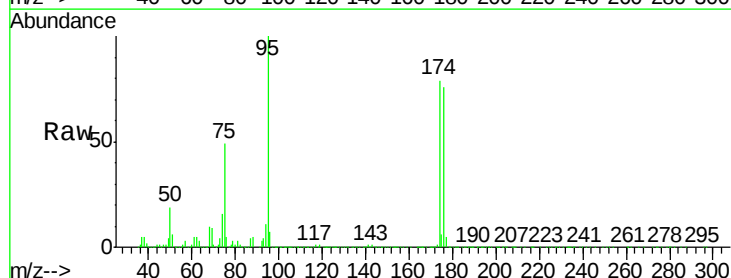
Instrument :
MSVOA_X
ClientSampled :
K321-WC-01

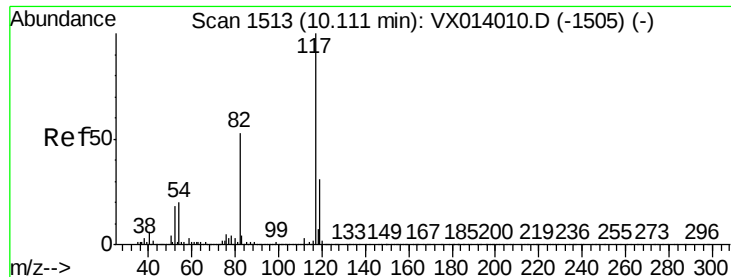
Tgt Ion: 43 Resp: 120631
Ion Ratio Lower Upper
43 100
58 18.0 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 47.042 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

Tgt Ion: 95 Resp: 326054
Ion Ratio Lower Upper
95 100
174 87.4 0.0 175.8
176 85.5 0.0 173.0

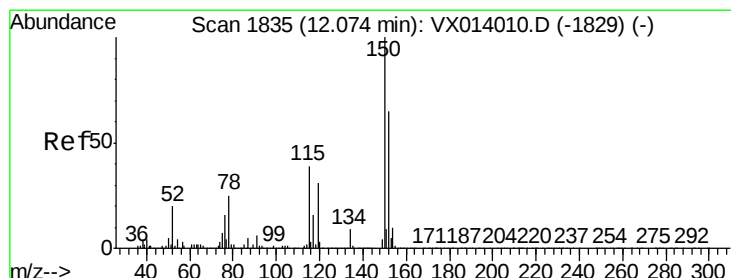
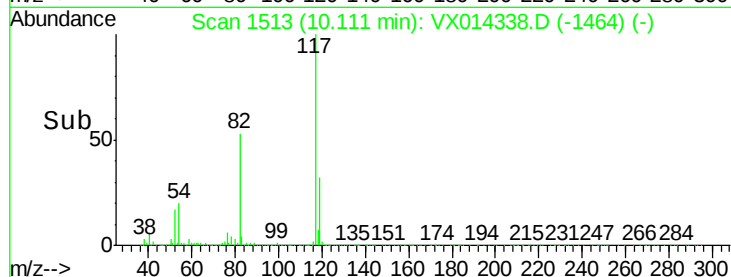
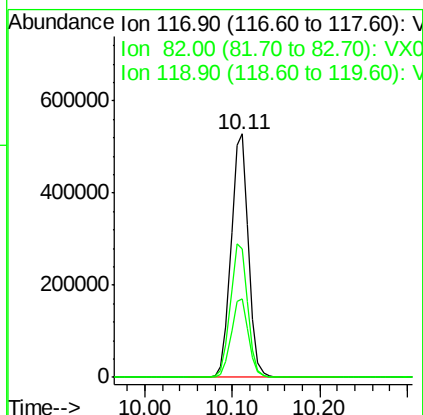
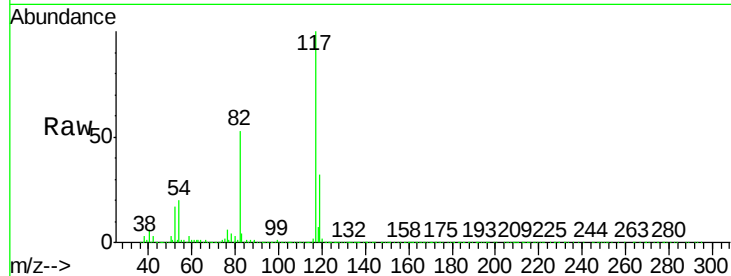




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

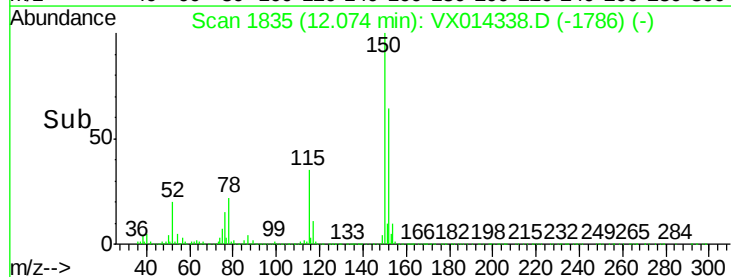
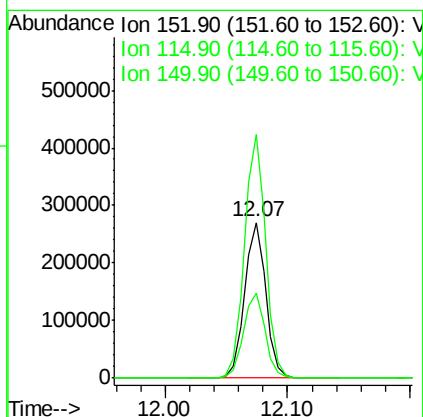
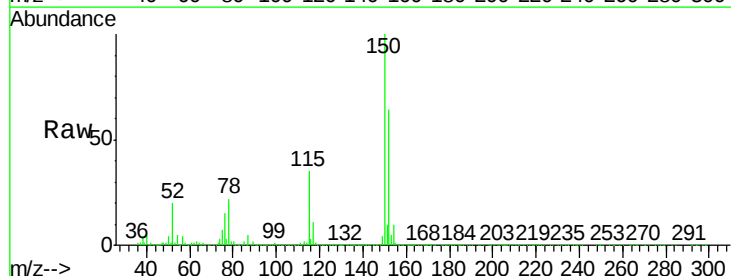
Instrument :
MSVOA_X
ClientSampleId :
K321-WC-01

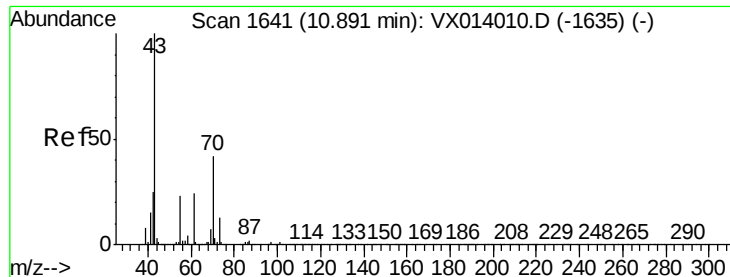
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.2	63.4
119	32.3	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014338.D
Acq: 28 Dec 2019 03:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	38.3	114.9
150	156.2	0.0	345.4





#74

N-ethyl acetate

Concen: 0.350 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampled :

K321-WC-01

Tgt Ion: 43 Resp: 3715

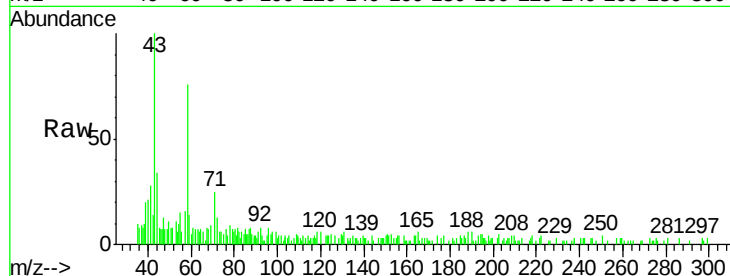
Ion Ratio Lower Upper

43 100

70 5.3 34.4 51.6#

55 10.6 19.1 28.7#

61 0.0 19.7 29.5#

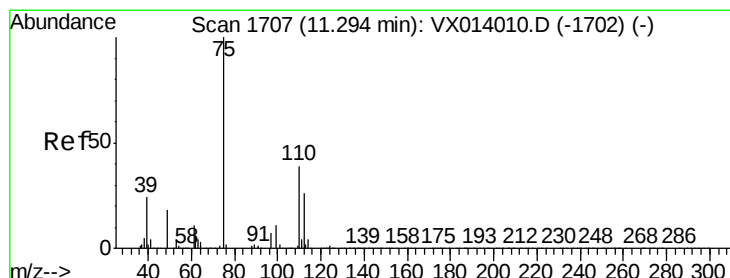
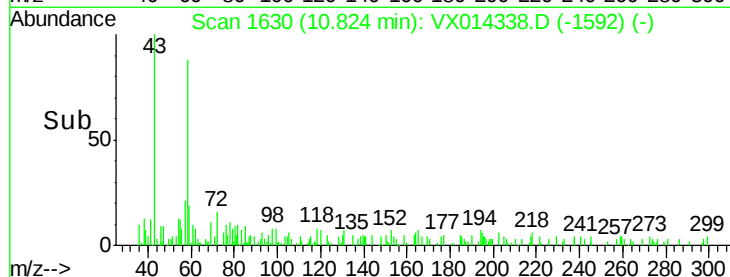
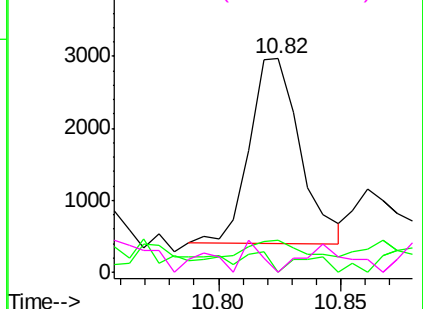


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#76

1,2,3-Trichloropropane

Concen: 22.542 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014338.D

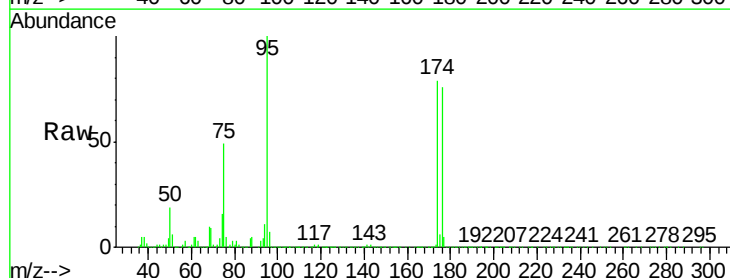
Acq: 28 Dec 2019 03:46

Tgt Ion: 75 Resp: 157440

Ion Ratio Lower Upper

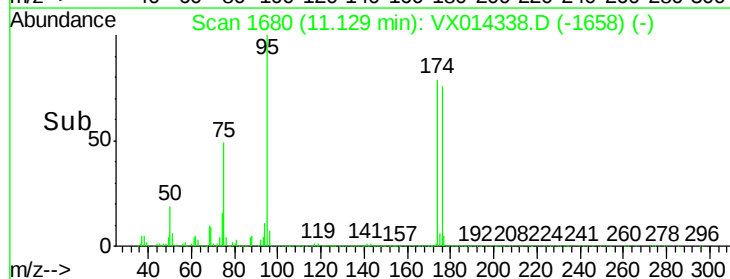
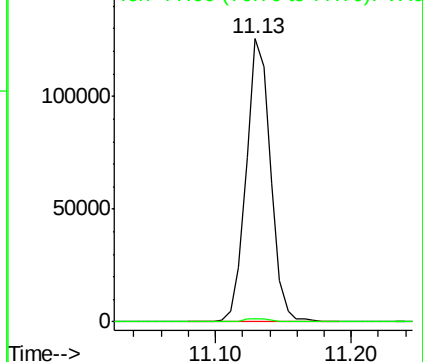
75 100

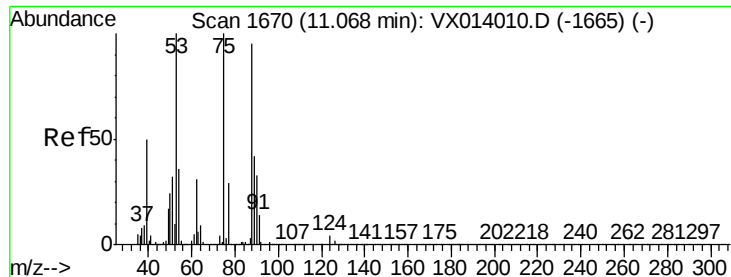
77 1.3 19.3 57.8#



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: 63.625 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Instrument :

MSVOA_X

ClientSampleId :

K321-WC-01

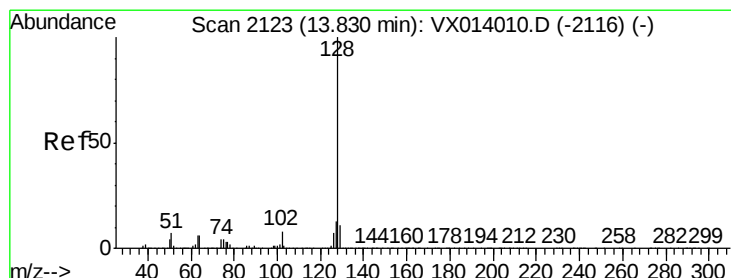
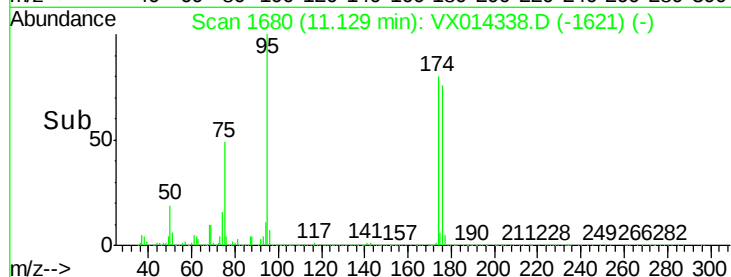
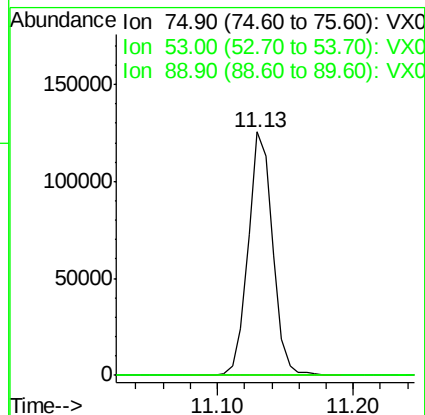
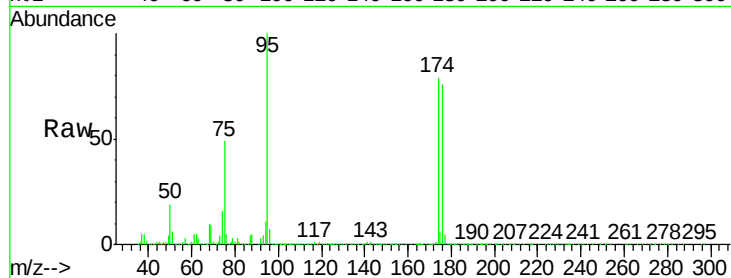
Tgt Ion: 75 Resp: 157440

Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.1 34.6 51.8#



#95

Naphthalene

Concen: 0.225 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX014338.D

Acq: 28 Dec 2019 03:46

Tgt Ion: 128 Resp: 4727

Ion Ratio Lower Upper

128 100

127 15.9 10.2 15.4#

129 14.8 8.7 13.1#

