

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010320\
 Data File : VX014407.D
 Acq On : 03 Jan 2020 17:47
 Operator : JC/SP
 Sample : PB125870TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

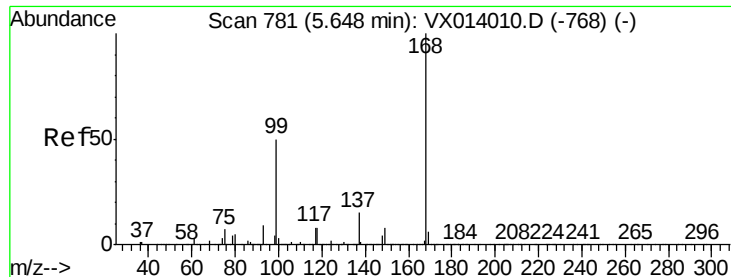
Quant Time: Jan 06 02:34:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	565665	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	864433	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	779542	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	358686	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	304602	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
35) Dibromofluoromethane	5.49	113	254330	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
50) Toluene-d8	8.71	98	1032032	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
62) 4-Bromofluorobenzene	11.13	95	353000	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1259	0.248	ug/l	93
6) Chloroethane	1.68	64	1173	0.265	ug/l #	45
8) Diethyl Ether	2.18	74	970	0.233	ug/l	80
10) Methyl Iodide	2.51	142	858	2.736	ug/l #	69
11) Tert butyl alcohol	3.01	59	9527	6.877	ug/l #	85
13) Acrolein	2.30	56	258	0.325	ug/l #	1
16) Acetone	2.43	43	26304	6.320	ug/l	92
17) Carbon Disulfide	2.56	76	734	0.798	ug/l #	92
18) Methyl Acetate	2.77	43	5722	0.694	ug/l	99
20) Methylene Chloride	2.85	84	15516	2.367	ug/l	99
25) 2-Butanone	4.67	43	18971	3.697	ug/l	96
28) Bromochloromethane	5.00	49	206	0.503	ug/l #	60
29) Tetrahydrofuran	5.11	42	764	0.266	ug/l #	58
36) 1,1-Dichloropropene	5.65	75	38897	4.904	ug/l #	51
38) Carbon Tetrachloride	5.65	117	48645	6.732	ug/l #	16
43) Isopropyl Acetate	6.44	43	145912	10.066	ug/l	99
48) Methyl methacrylate	7.87	41	236427	33.309	ug/l #	42
49) 1,4-Dioxane	7.73	88	206	1.426	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	139297	15.302	ug/l #	49
52) Toluene	8.78	92	7338	0.476	ug/l #	75
54) cis-1,3-Dichloropropene	8.61	75	65576	6.892	ug/l #	58
59) 2-Hexanone	9.54	43	157616	21.508	ug/l #	51
74) N-amyl acetate	10.82	43	9071	0.766	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	170306	21.871	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.50	105	8987	0.423	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	171006	61.984	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014407.D

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Instrument :

MSVOA_X

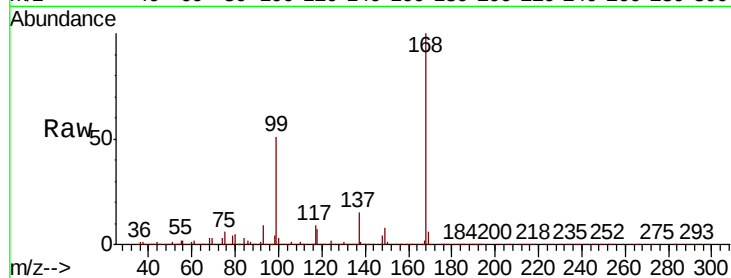
ClientSampled :

Tot Ion:168 Resp: 565665

Ion Ratio Lower Upper

168 100

99 50.7 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

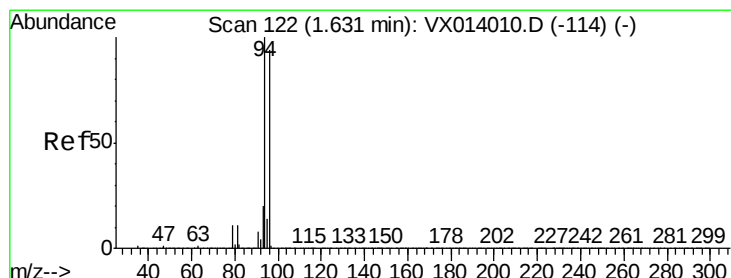
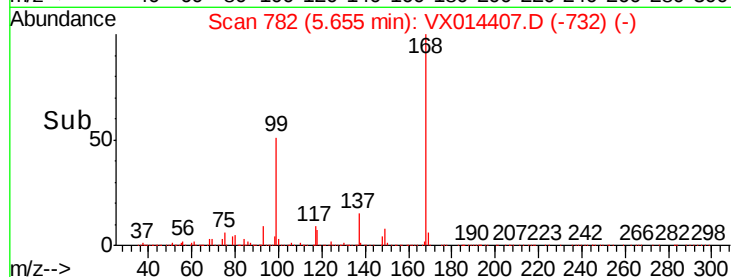
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.248 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014407.D

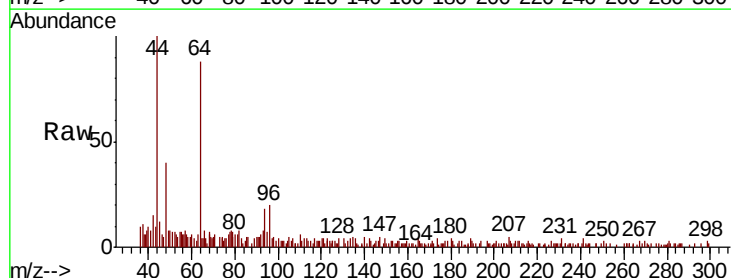
Acq: 03 Jan 2020 17:47

Tgt Ion: 94 Resp: 1259

Ion Ratio Lower Upper

94 100

96 101.0 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

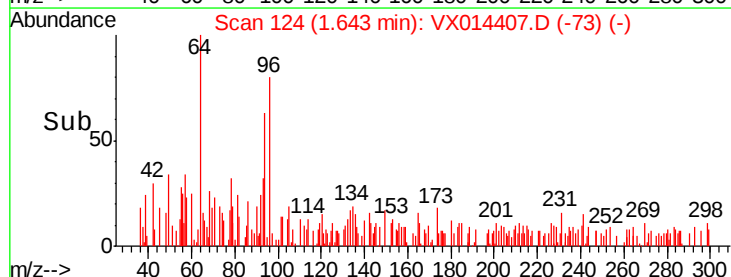
400

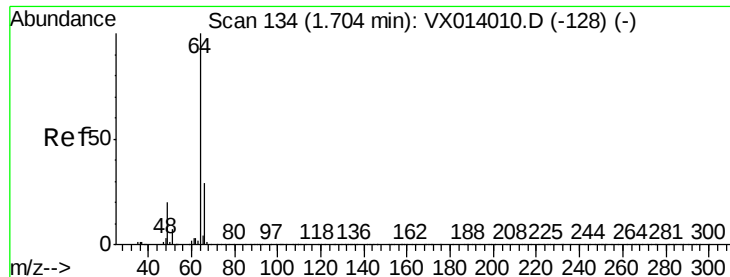
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.265 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.02 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :

MSVOA_X

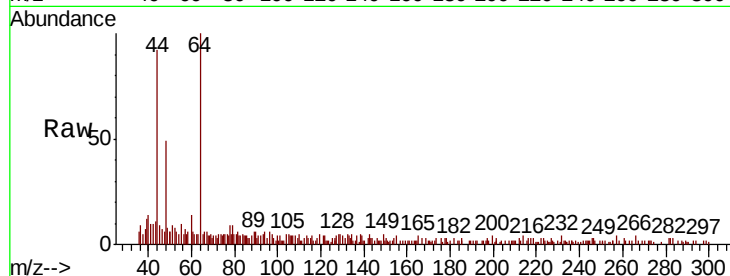
ClientSampleId :

Tot Ion: 64 Resp: 1173

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.68

4000

3000

2000

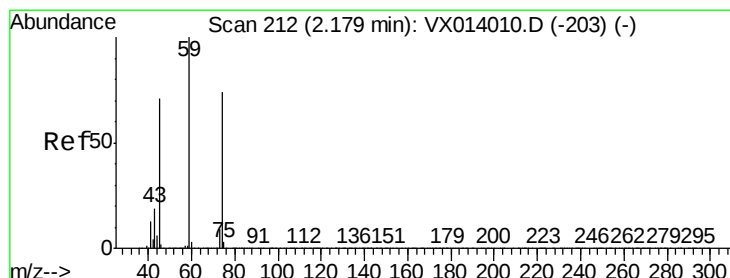
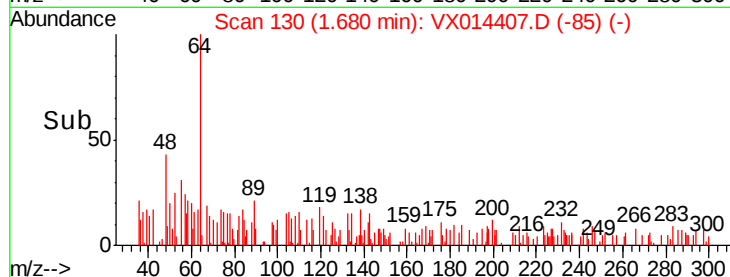
1000

0

1.65

1.70

Time-->



#8

Diethyl Ether

Concen: 0.233 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX014407.D

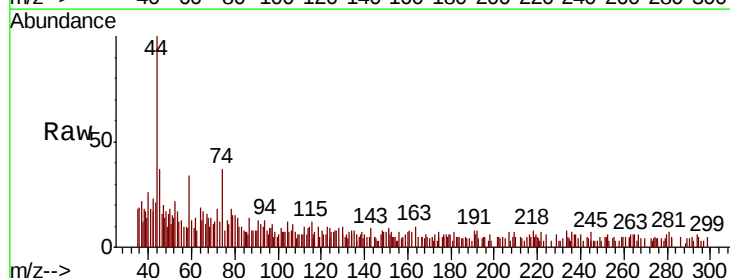
Acq: 03 Jan 2020 17:47

Tgt Ion: 74 Resp: 970

Ion Ratio Lower Upper

74 100

45 76.8 48.1 144.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

1000

800

600

400

200

0

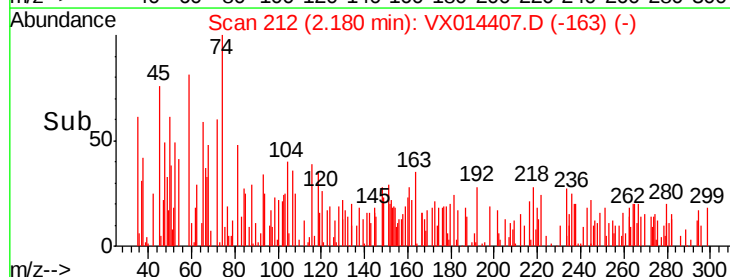
2.14

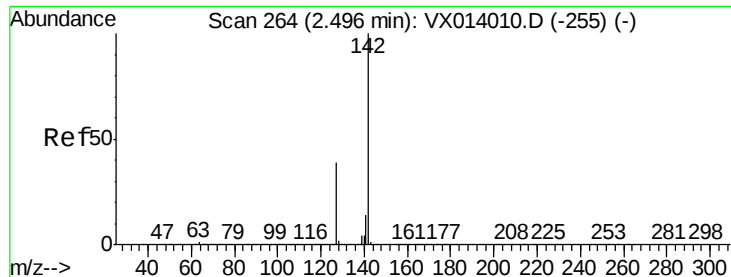
2.16

2.18

2.20

Time-->

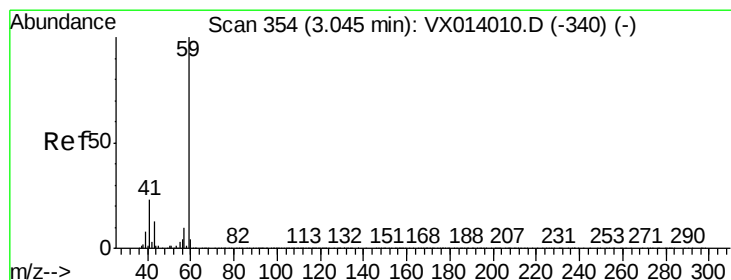
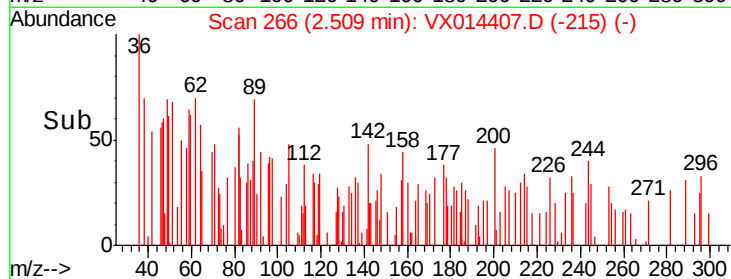
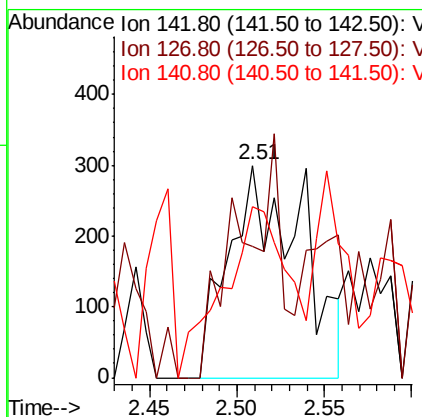
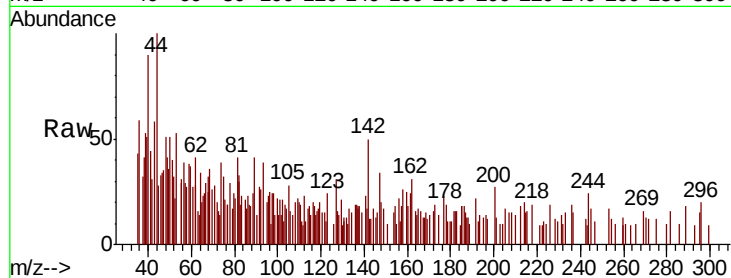




#10
Methvl Iodide
Concen: 2.736 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

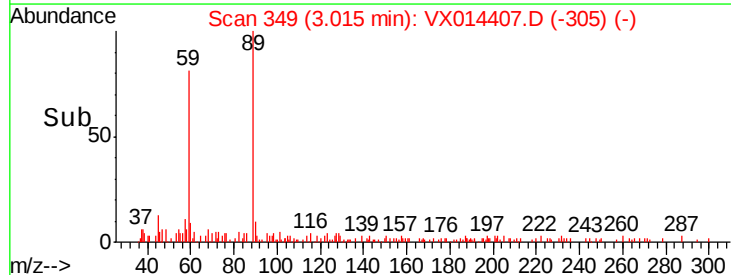
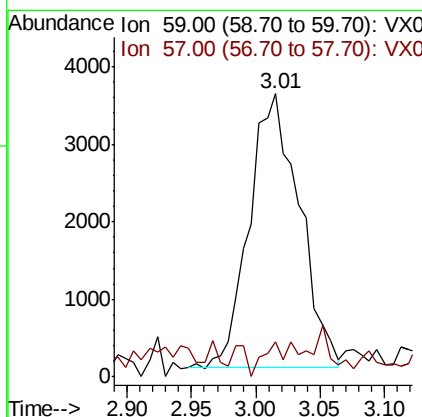
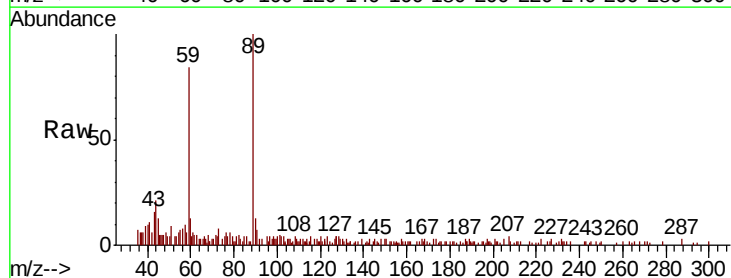
Instrument :
MSVOA_X
ClientSampled :

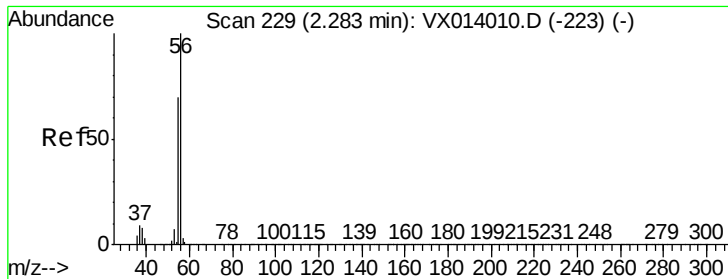
Tot Ion:142 Resp: 858
Ion Ratio Lower Upper
142 100
127 37.5 31.6 47.4
141 58.7 11.6 17.4#



#11
Tert butyl alcohol
Concen: 6.877 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.03 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

Tgt Ion: 59 Resp: 9527
Ion Ratio Lower Upper
59 100
57 4.7 8.4 12.6#

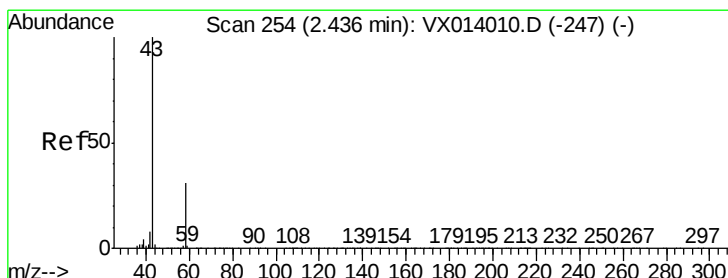
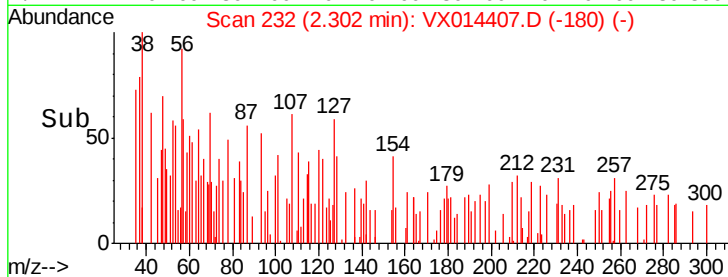
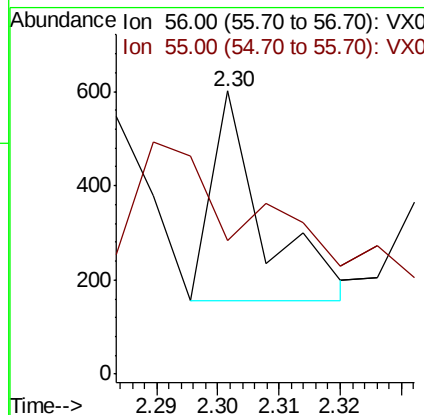
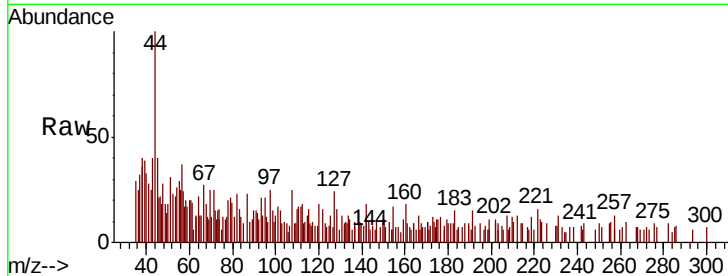




#13
Acrolein
Concen: 0.325 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

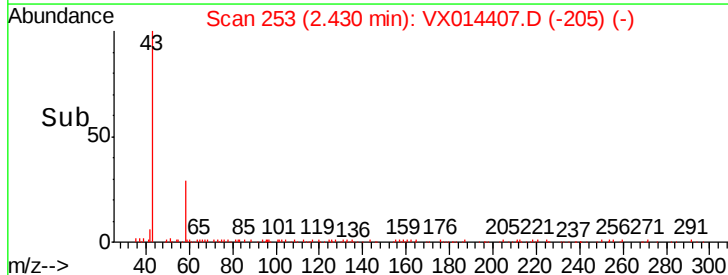
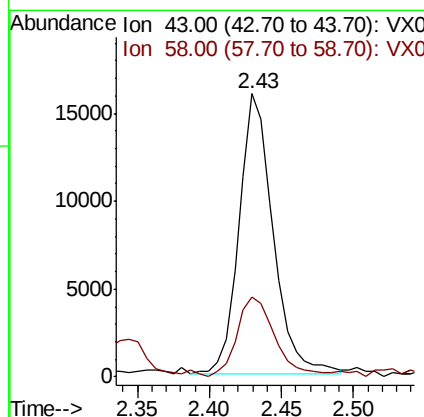
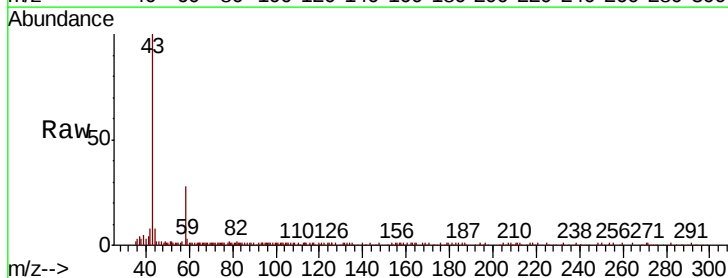
Instrument :
MSVOA_X
ClientSampleId :

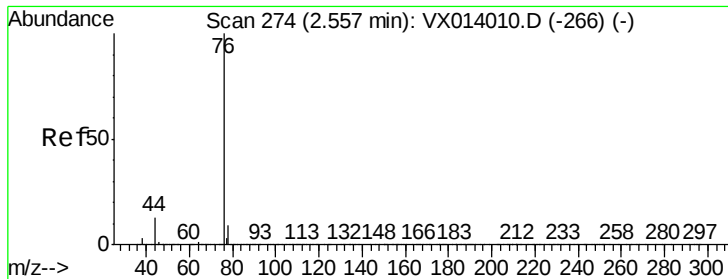
Tot Ion: 56 Resp: 258
Ion Ratio Lower Upper
56 100
55 170.5 56.9 85.3#



#16
Acetone
Concen: 6.320 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

Tgt Ion: 43 Resp: 26304
Ion Ratio Lower Upper
43 100
58 26.6 24.9 37.3





#17

Carbon Disulfide

Concen: 0.798 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :

MSVOA_X

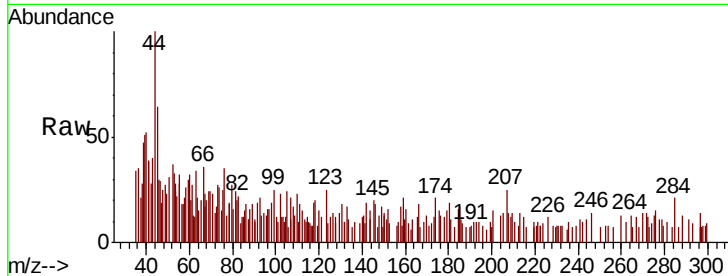
ClientSampled :

Tot Ion: 76 Resp: 734

Ion Ratio Lower Upper

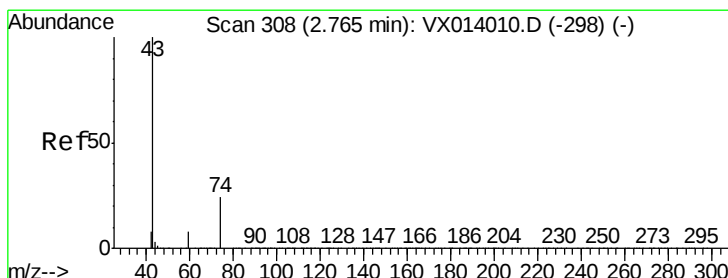
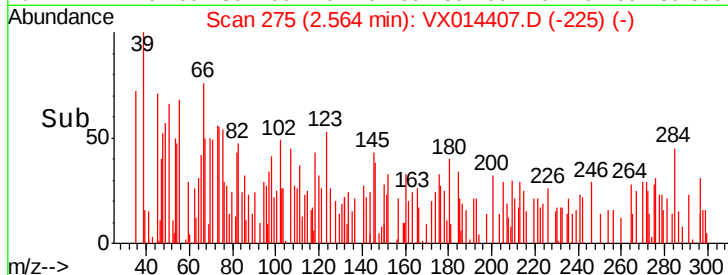
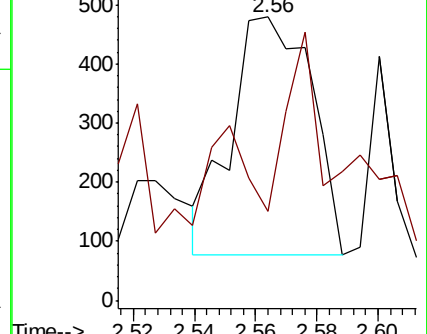
76 100

78 6.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.694 ug/l

RT: 2.77 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014407.D

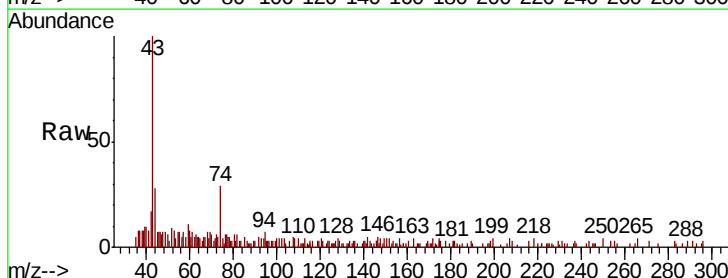
Acq: 03 Jan 2020 17:47

Tgt Ion: 43 Resp: 5722

Ion Ratio Lower Upper

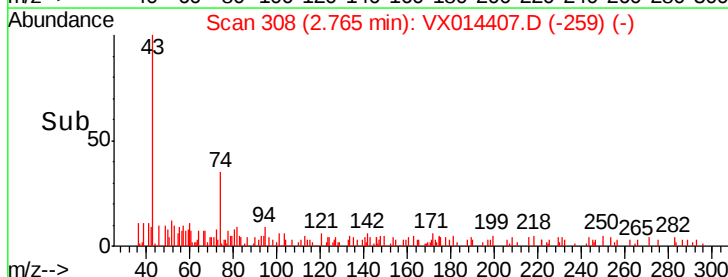
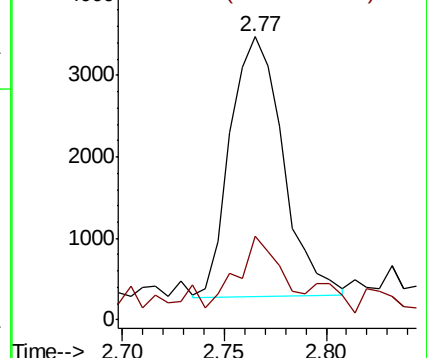
43 100

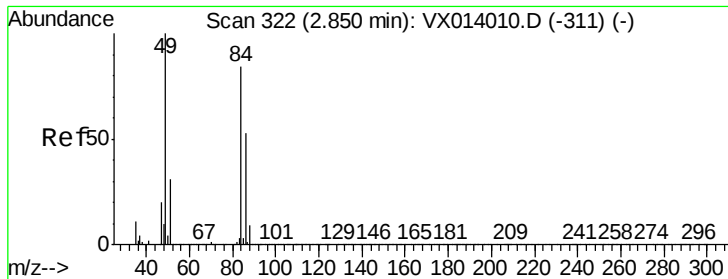
74 23.7 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

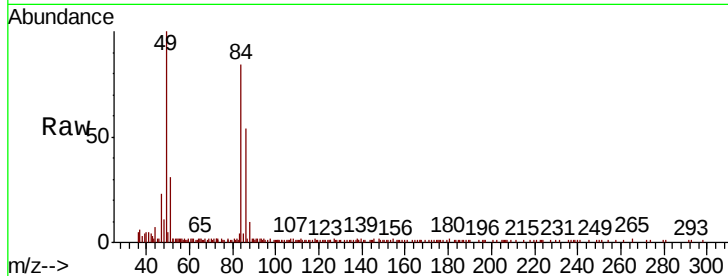




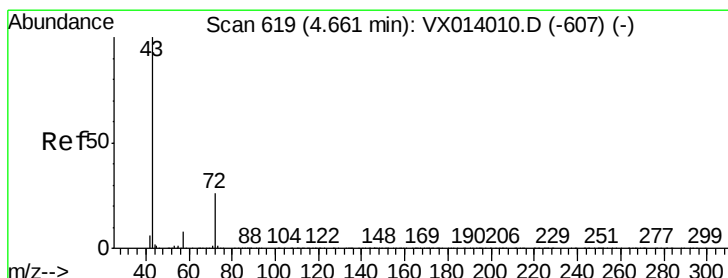
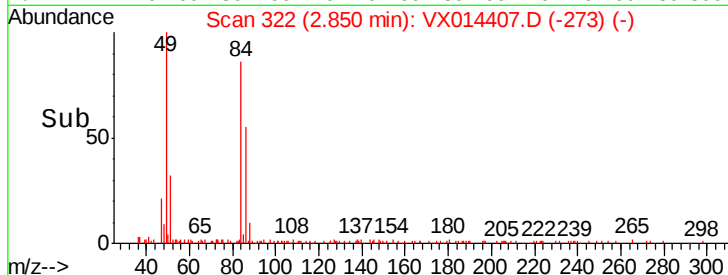
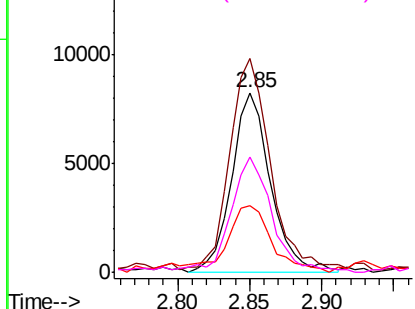
#20
Methvlene Chloride
Concen: 2.367 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	84	Resp:	15516
Ion	Ratio	Lower	Upper
84	100		
49	118.5	95.8	143.6
51	35.6	29.8	44.8
86	63.6	50.8	76.2

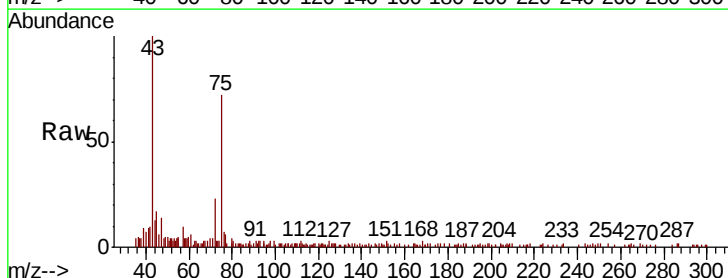


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

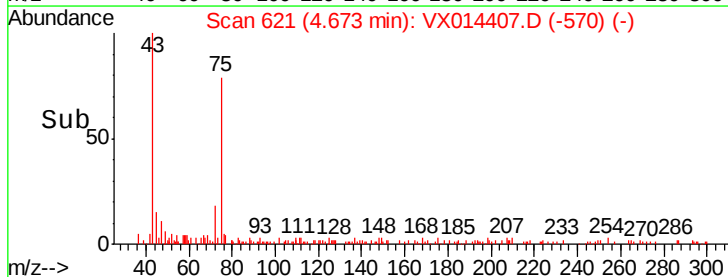
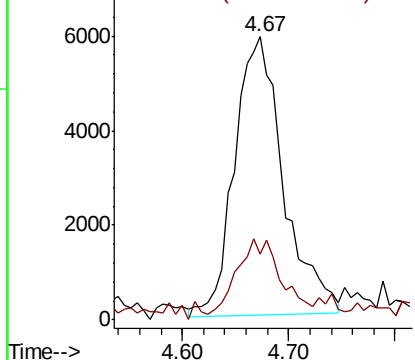


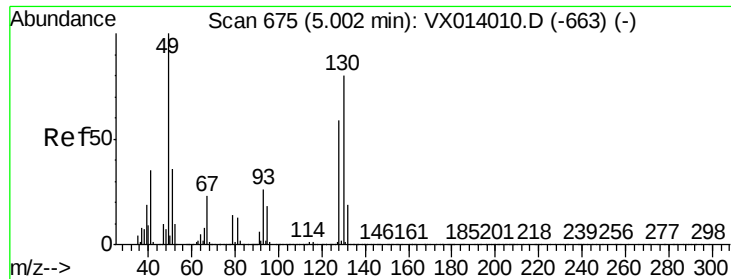
#25
2-Butanone
Concen: 3.697 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

Tgt Ion:	43	Resp:	18971
Ion	Ratio	Lower	Upper
43	100		
72	24.1	21.0	31.4



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: 0.503 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :
MSVOA_X
ClientSampled :

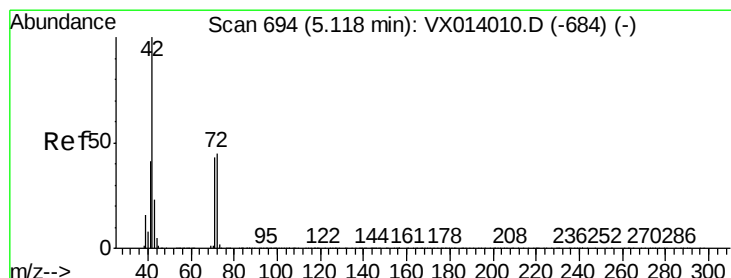
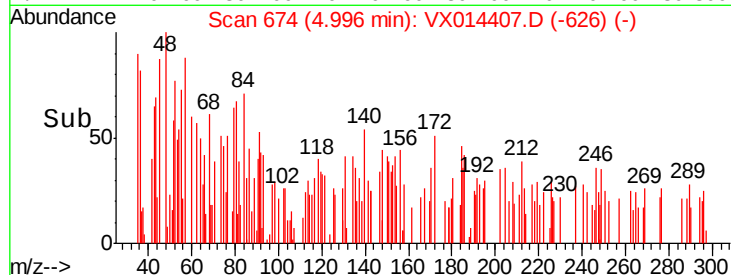
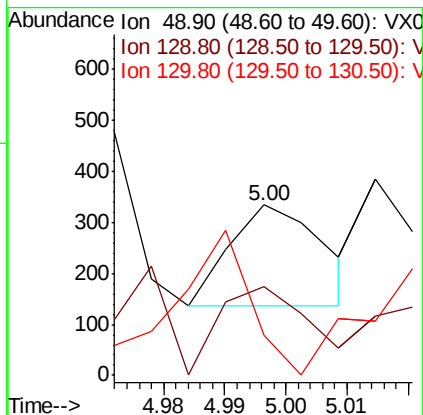
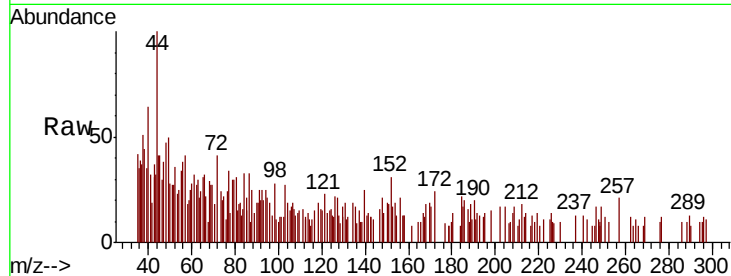
Tot Ion: 49 Resp: 206

Ion Ratio Lower Upper

49 100

129 87.4 0.0 5.0#

130 110.2 64.6 97.0#



#29

Tetrahydrofuran

Concen: 0.266 ug/l

RT: 5.11 min Scan# 692

Delta R.T. -0.01 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

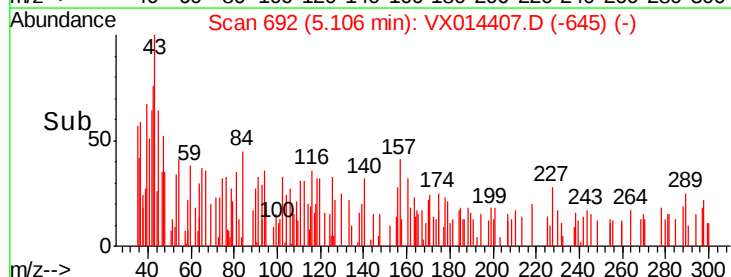
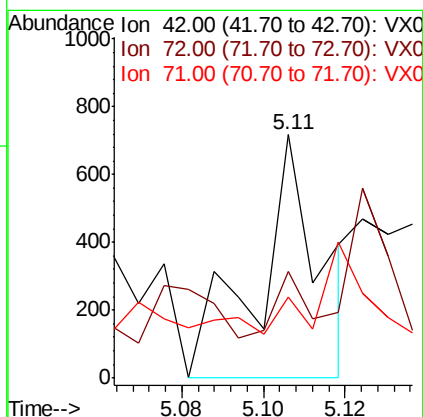
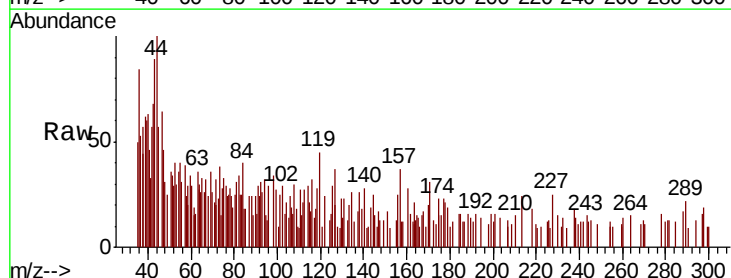
Tgt Ion: 42 Resp: 764

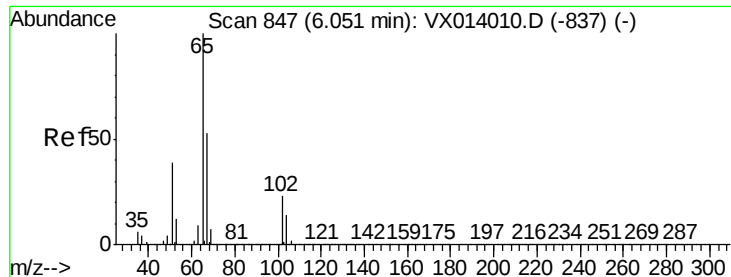
Ion Ratio Lower Upper

42 100

72 89.9 35.8 53.8#

71 50.7 33.6 50.4#





#33

1,2-Dichloroethane-d4

Concen: 47.512 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :

MSVOA_X

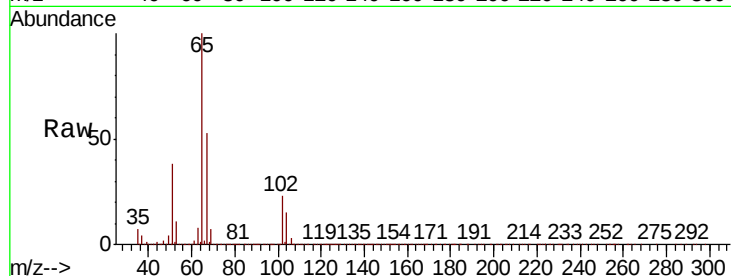
ClientSampled :

Tot Ion: 65 Resp: 304602

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

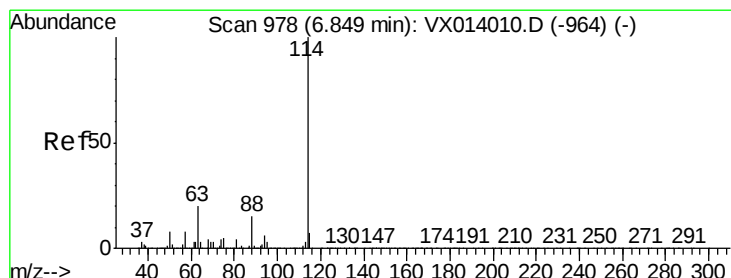
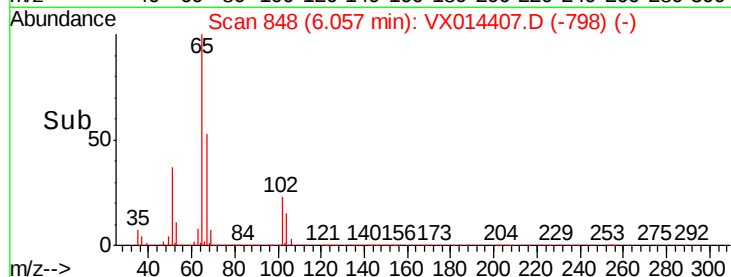
6.06

100000

50000

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: VX014407.D

Acq: 03 Jan 2020 17:47

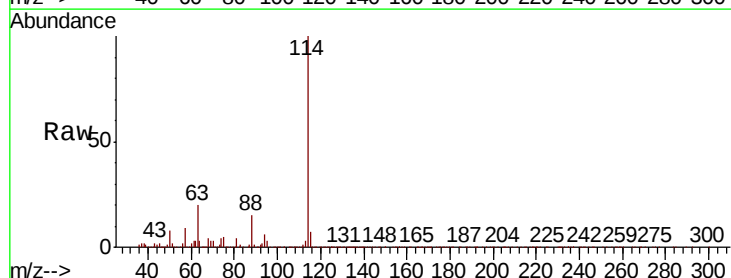
Tgt Ion: 114 Resp: 864433

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

88 14.8 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

500000

400000

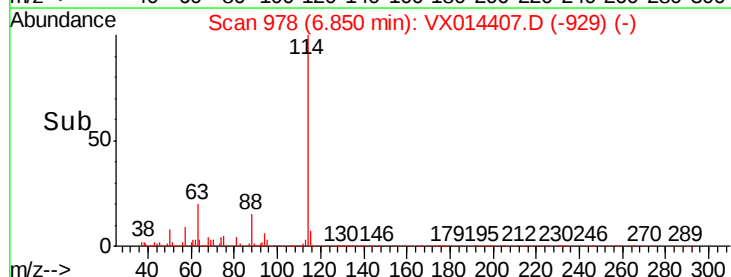
300000

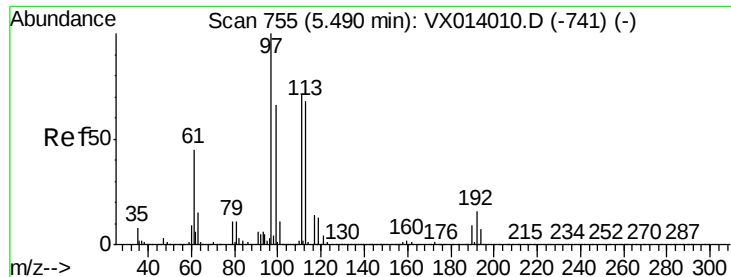
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.400 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :
MSVOA_X
ClientSampleId :

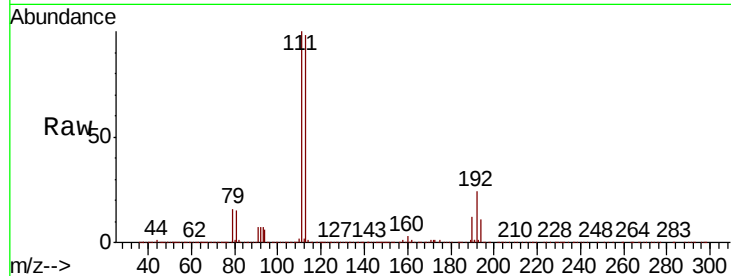
Tot Ion:113 Resp: 254330

Ion Ratio Lower Upper

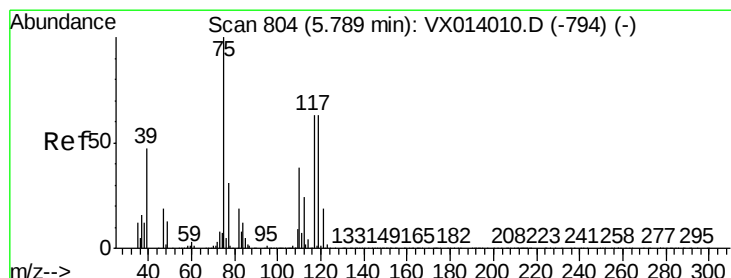
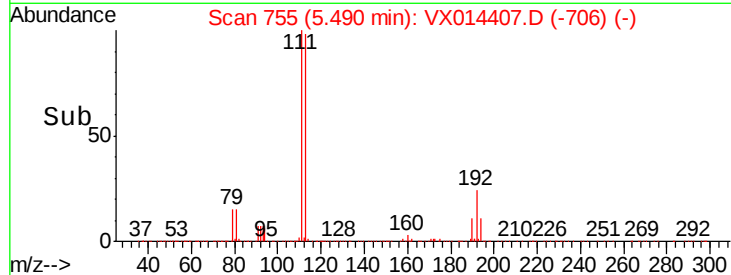
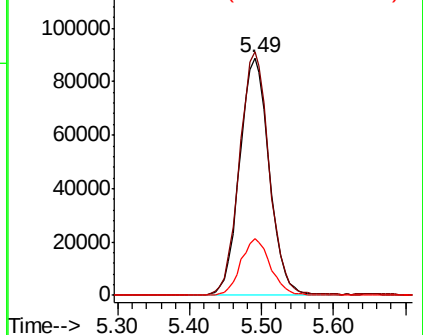
113 100

111 101.9 82.0 123.0

192 23.9 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: 4.904 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

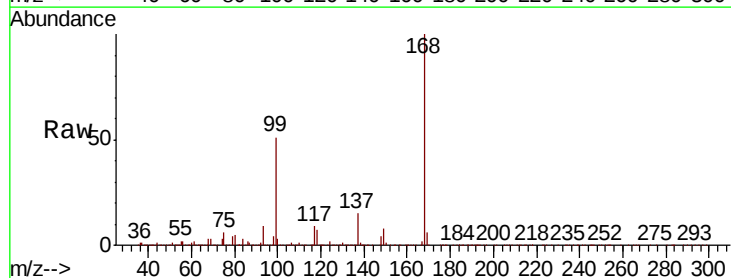
Tgt Ion: 75 Resp: 38897

Ion Ratio Lower Upper

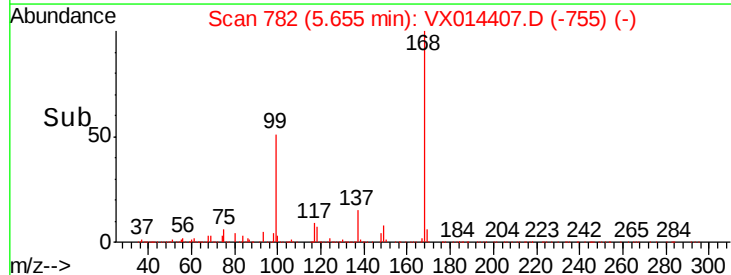
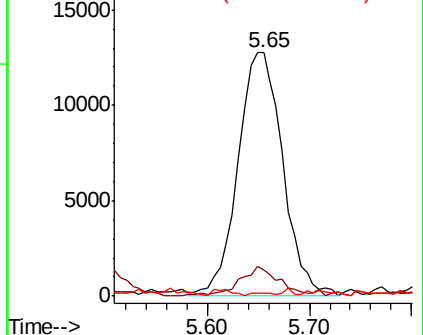
75 100

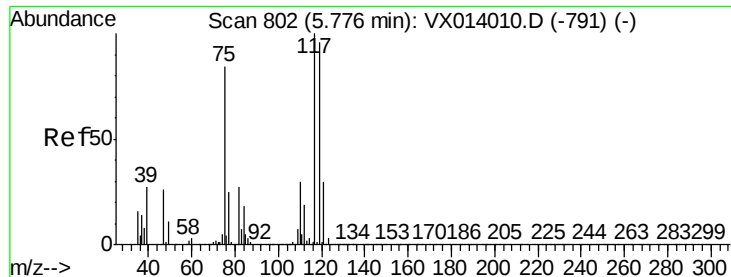
110 10.6 18.3 54.9#

77 0.5 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: 6.732 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :
MSVOA_X
ClientSampled :

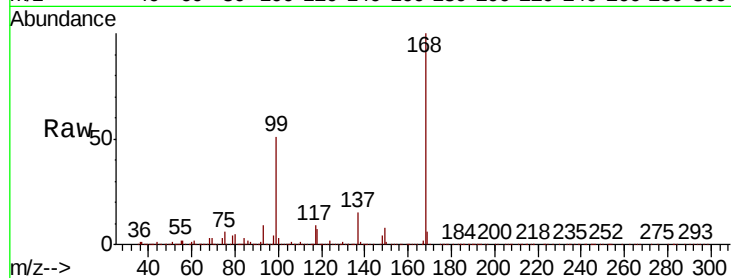
Tot Ion:117 Resp: 48645

Ion Ratio Lower Upper

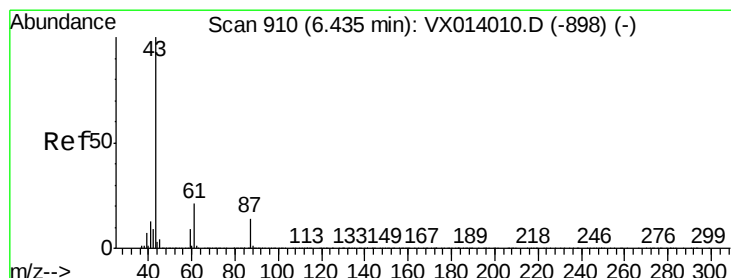
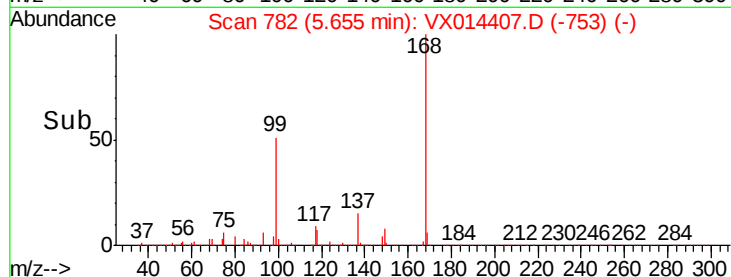
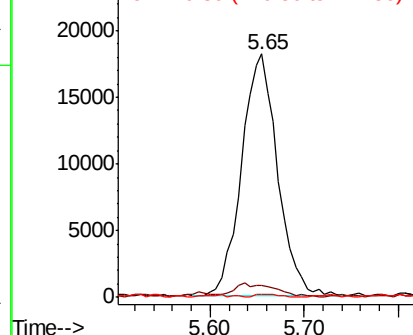
117 100

119 3.8 76.2 114.4#

121 0.9 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: 10.066 ug/l

RT: 6.44 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

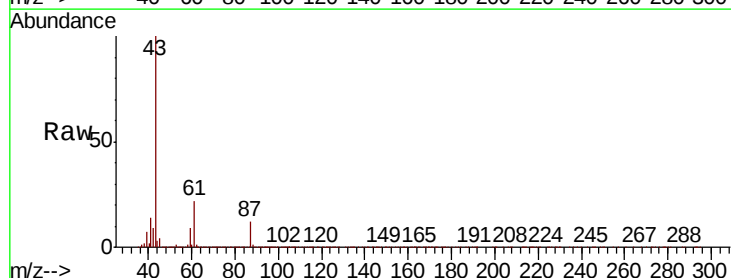
Tgt Ion: 43 Resp: 145912

Ion Ratio Lower Upper

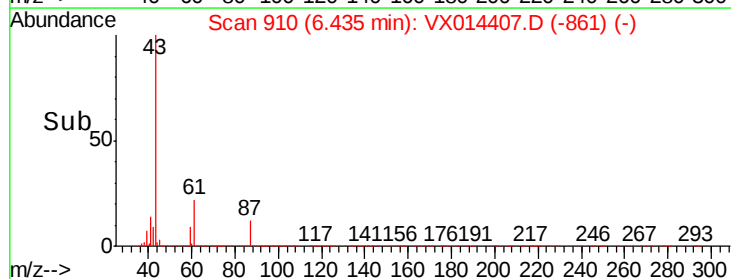
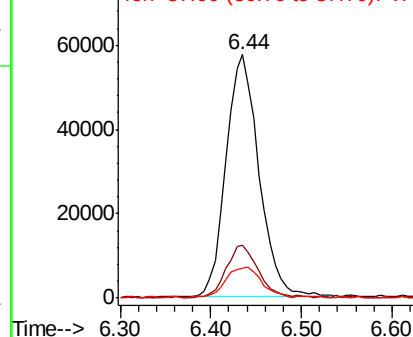
43 100

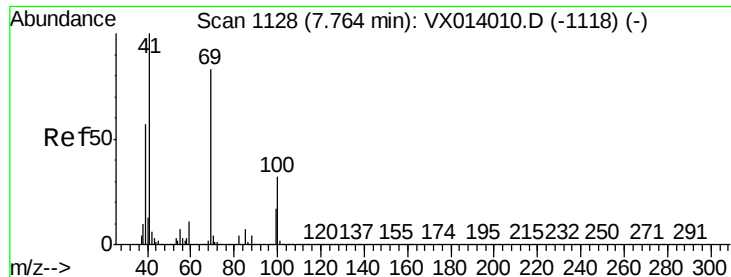
61 20.7 16.4 24.6

87 14.0 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: 33.309 ug/l

RT: 7.87 min Scan# 1145

Delta R.T. 0.10 min

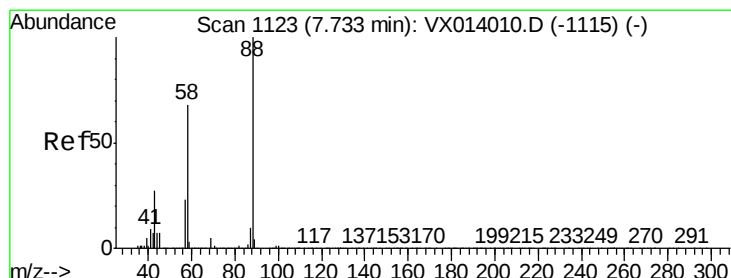
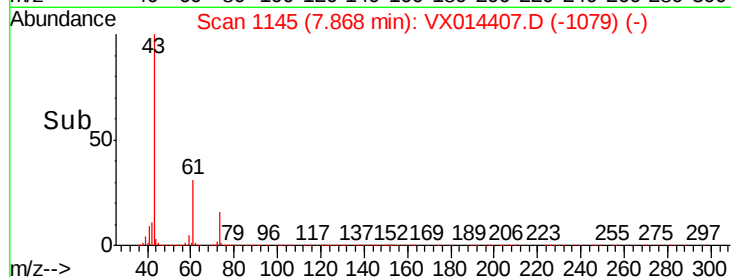
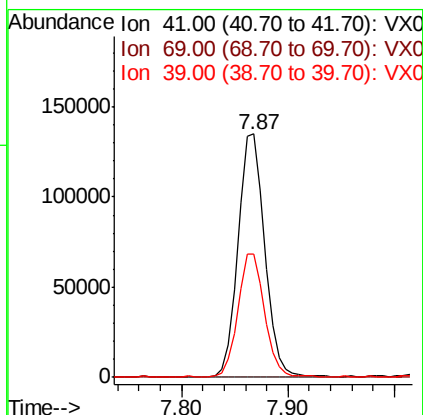
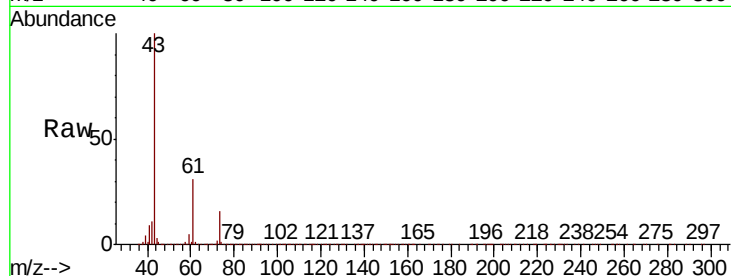
Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 41 Resp: 236427

Ion	Ratio	Lower	Upper
41	100		
69	0.1	65.8	98.6#
39	50.3	44.6	67.0



#49

1,4-Dioxane

Concen: 1.426 ug/l

RT: 7.73 min Scan# 1122

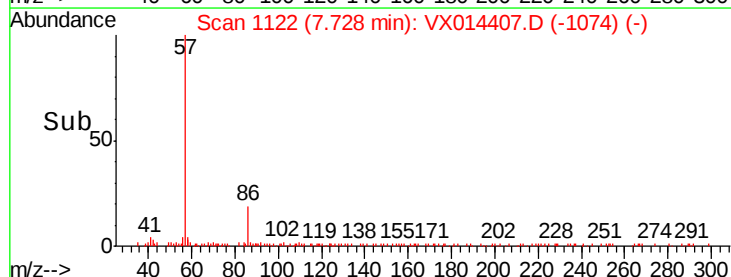
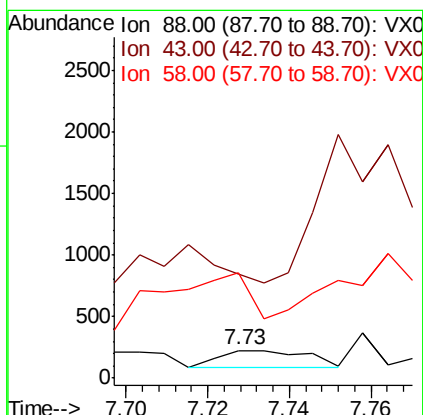
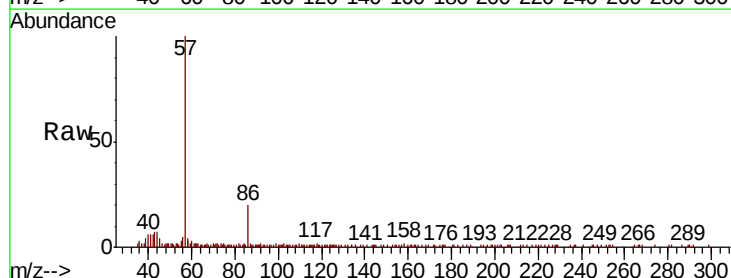
Delta R.T. -0.01 min

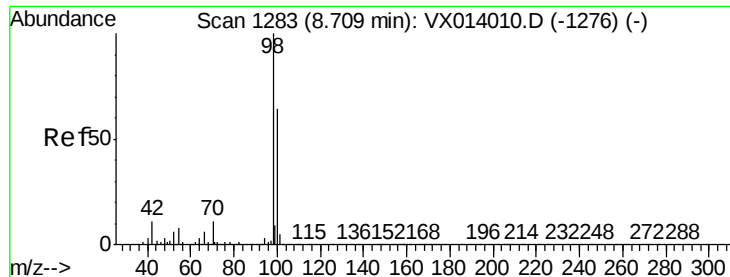
Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Tgt Ion: 88 Resp: 206

Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.5	39.7#
58	489.3	56.8	85.2#





#50

Toluene-d8

Concen: 50.446 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :

MSVOA_X

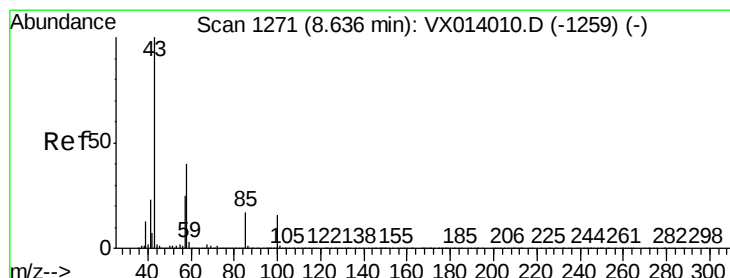
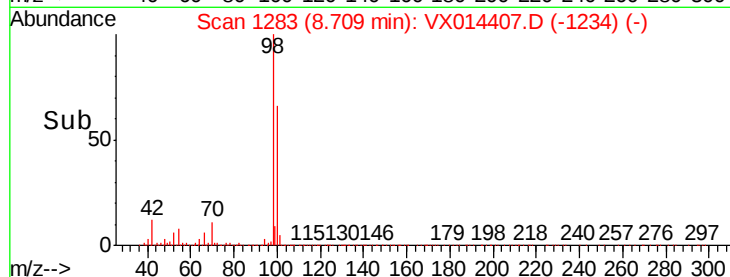
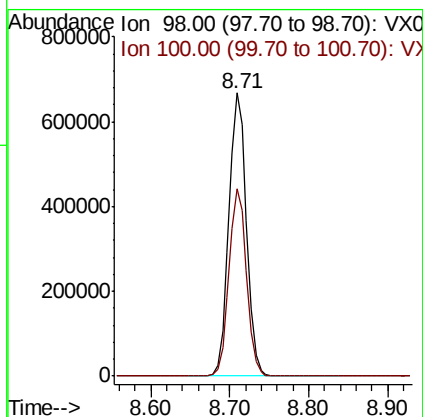
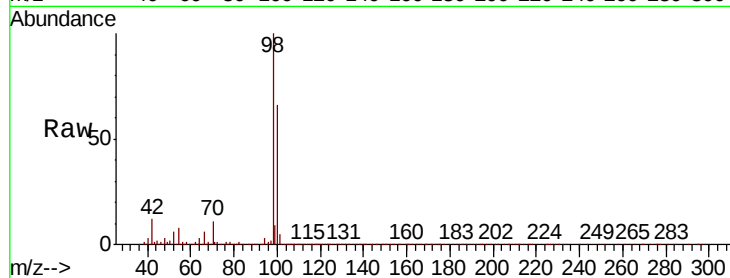
ClientSampleId :

Tot Ion: 98 Resp: 1032032

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 15.302 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014407.D

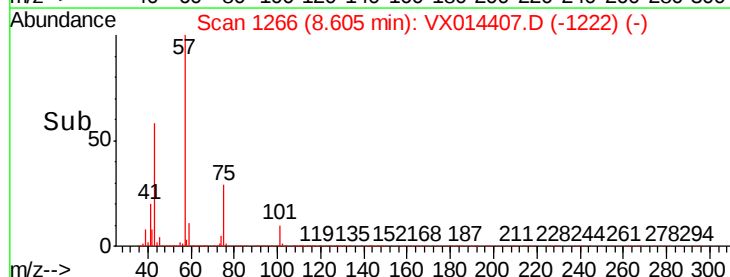
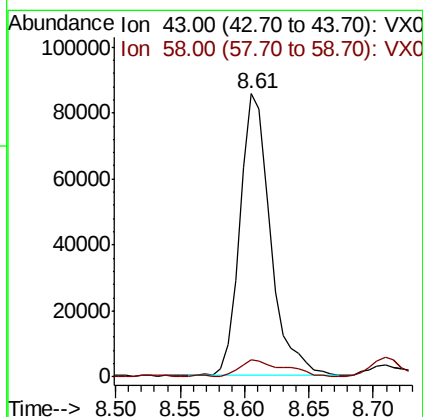
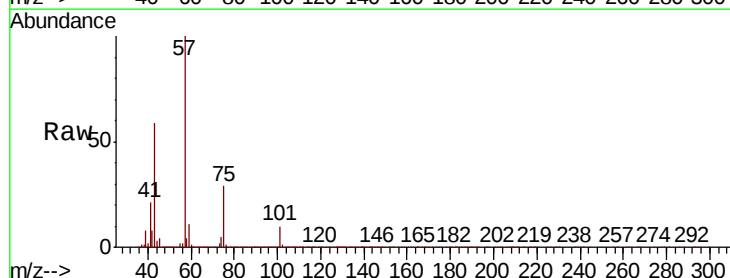
Acq: 03 Jan 2020 17:47

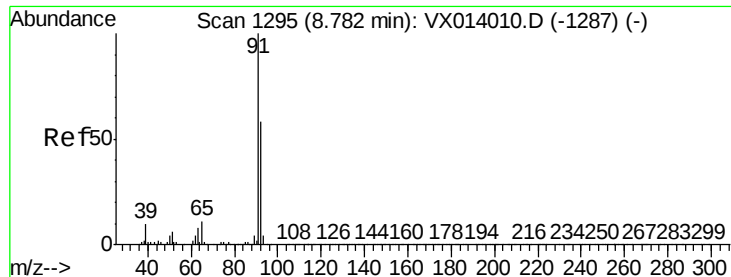
Tgt Ion: 43 Resp: 139297

Ion Ratio Lower Upper

43 100

58 8.8 32.2 48.2#





#52

Toluene

Concen: 0.476 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :

MSVOA_X

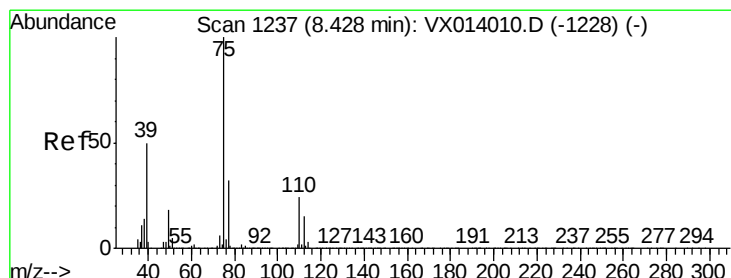
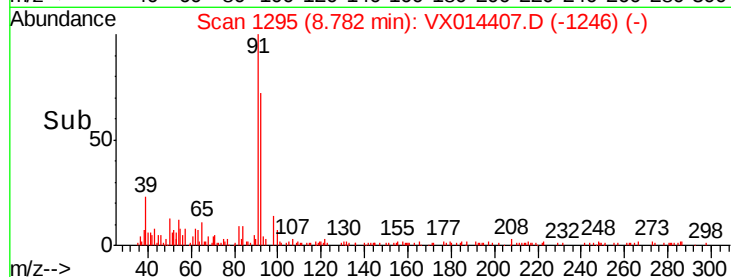
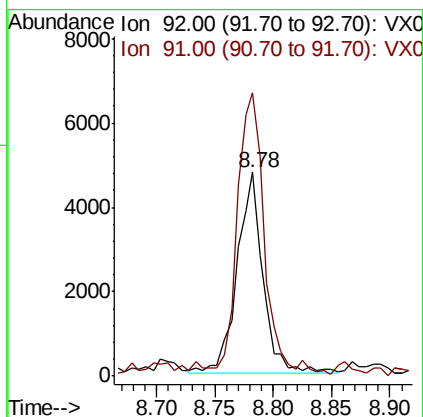
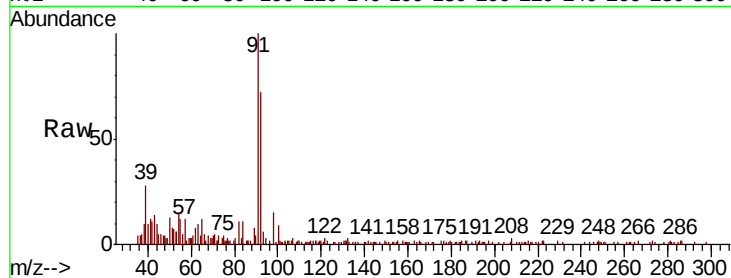
ClientSampleId :

Tot Ion: 92 Resp: 7338

Ion Ratio Lower Upper

92 100

91 135.8 136.2 204.4#



#54

cis-1,3-Dichloropropene

Concen: 6.892 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

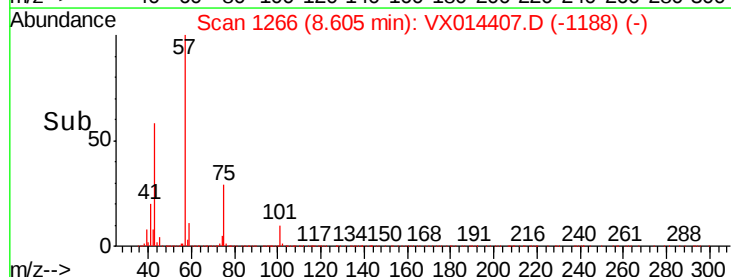
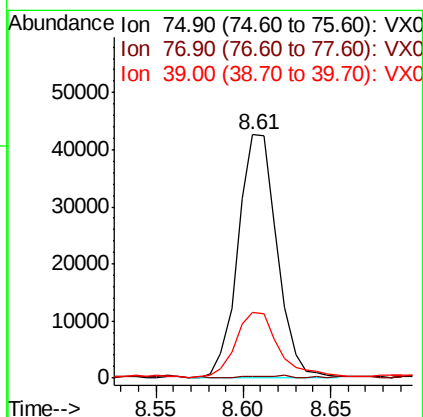
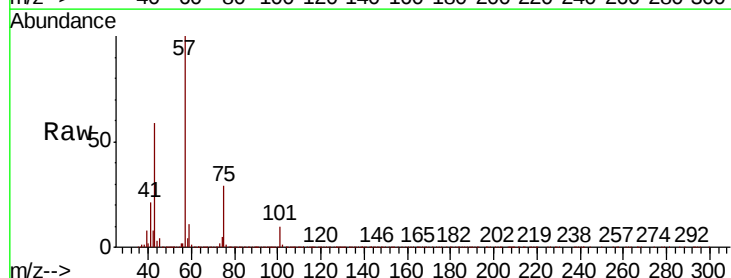
Tgt Ion: 75 Resp: 65576

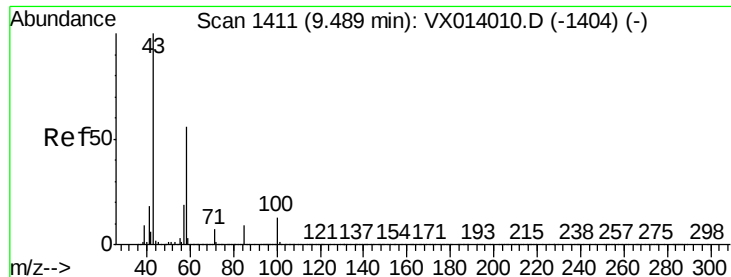
Ion Ratio Lower Upper

75 100

77 0.6 25.3 37.9#

39 27.2 39.9 59.9#

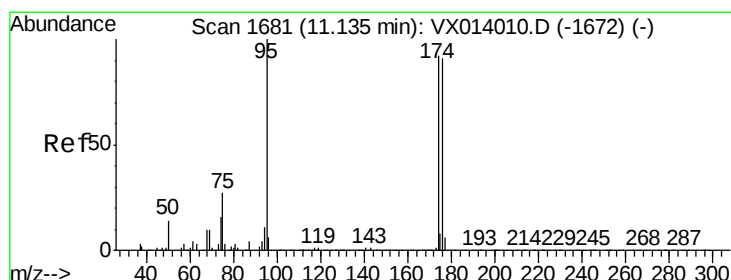
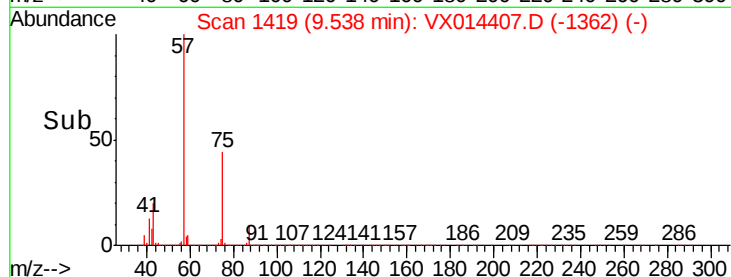
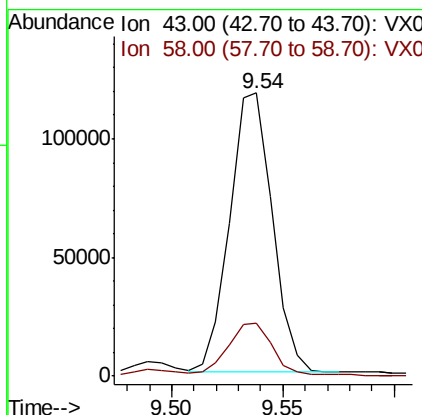
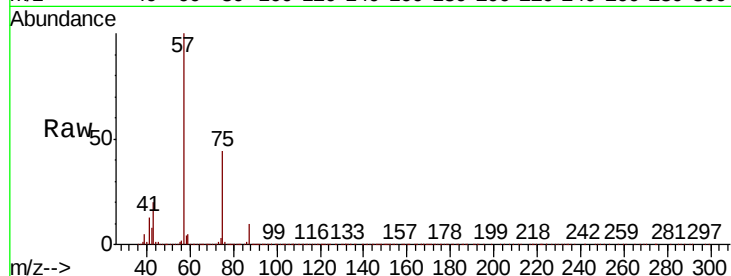




#59
2-Hexanone
Concen: 21.508 ug/l
RT: 9.54 min Scan# 1419
Delta R.T. 0.05 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

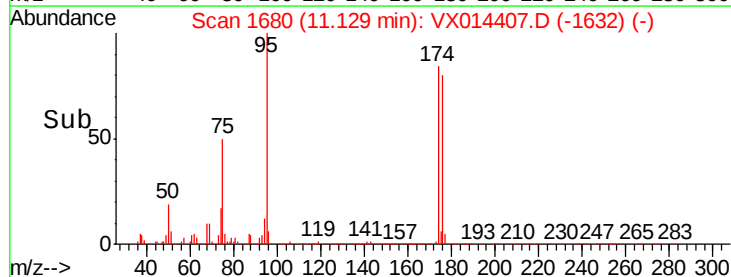
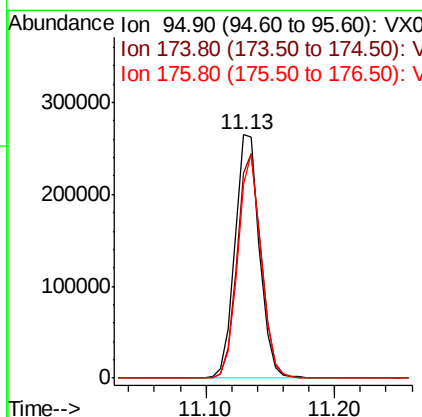
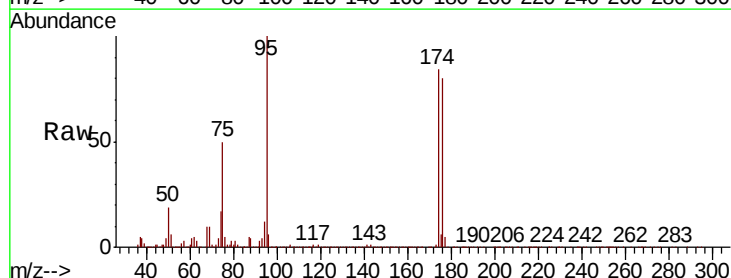
Instrument :
MSVOA_X
ClientSampled :

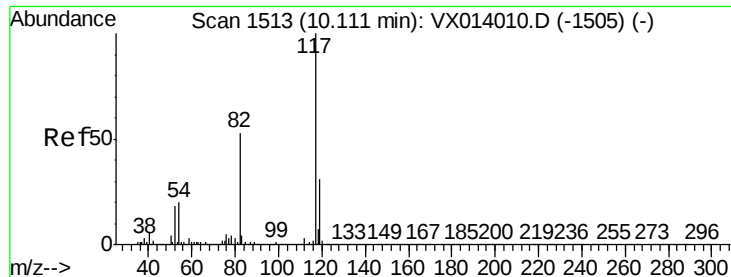
Tot Ion: 43 Resp: 157616
Ion Ratio Lower Upper
43 100
58 20.0 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 47.203 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

Tgt Ion: 95 Resp: 353000
Ion Ratio Lower Upper
95 100
174 90.1 0.0 175.8
176 87.1 0.0 173.0

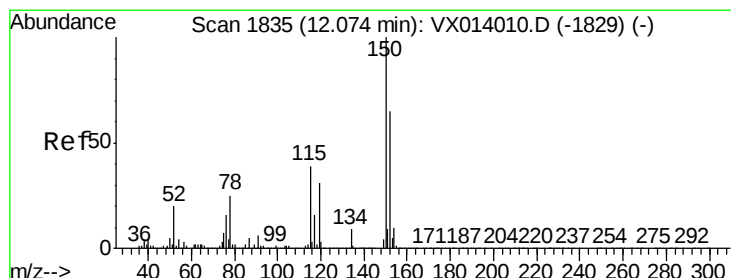
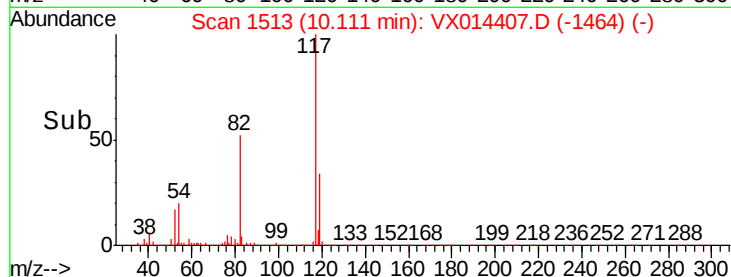
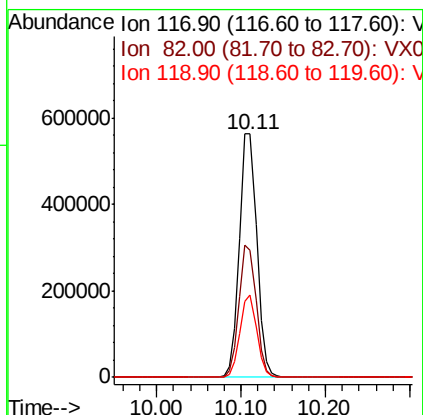
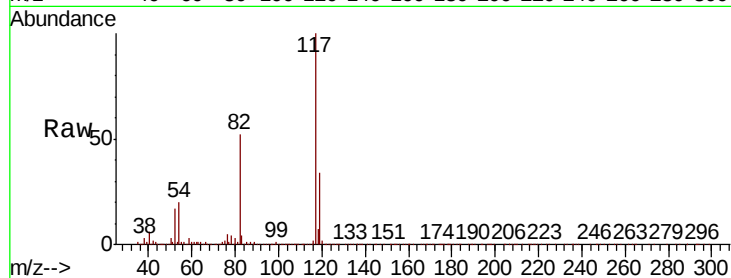




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

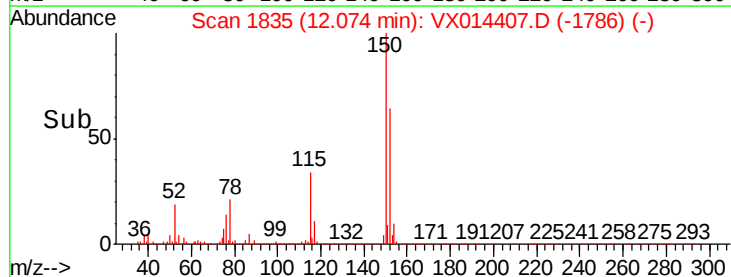
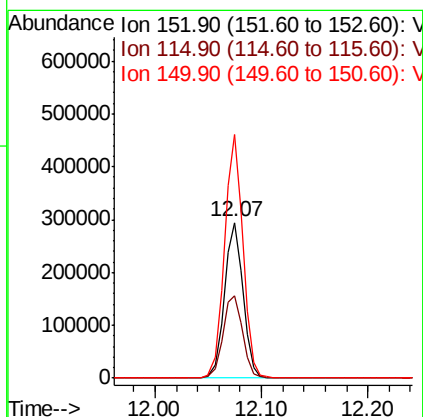
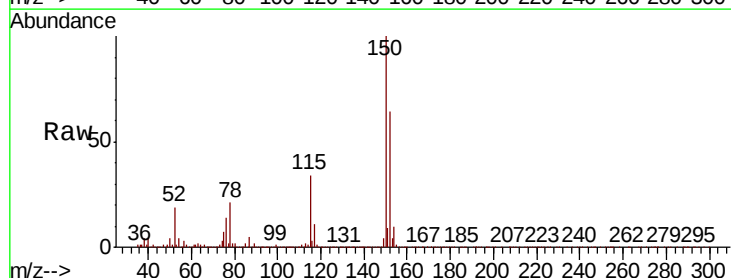
Instrument :
MSVOA_X
ClientSampleId :

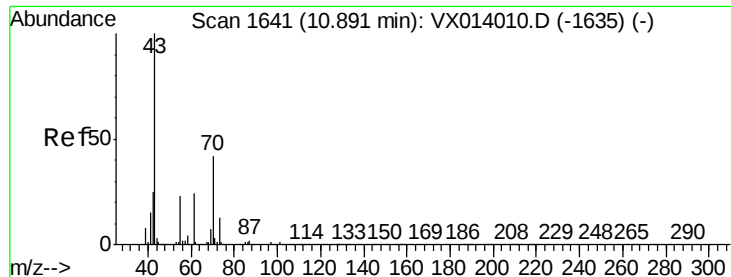
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.2	63.4
119	33.7	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014407.D
Acq: 03 Jan 2020 17:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	38.3	114.9
150	154.9	0.0	345.4





#74

N-amvl acetate

Concen: 0.766 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014407.D

Acq: 03 Jan 2020 17:47

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 9071

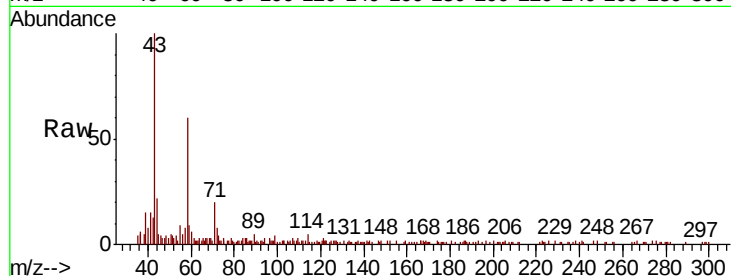
Ion Ratio Lower Upper

43 100

70 0.0 34.4 51.6#

55 9.6 19.1 28.7#

61 0.0 19.7 29.5#

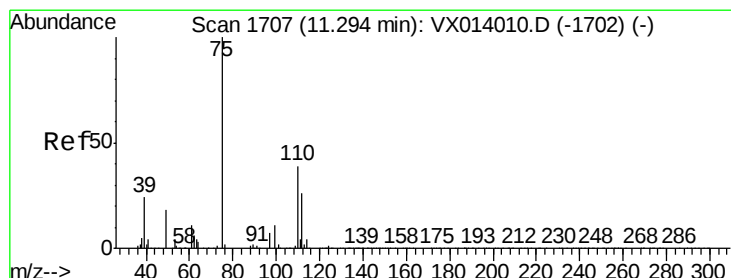
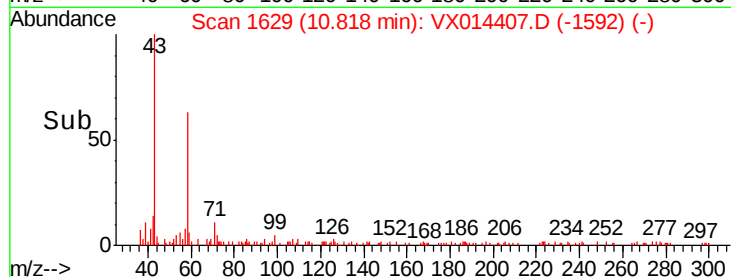
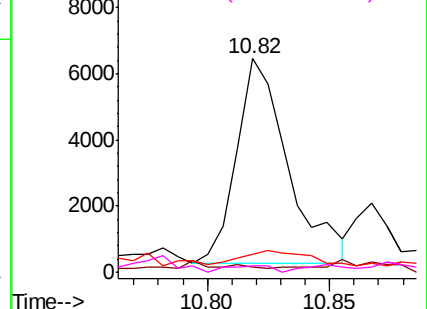


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.871 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014407.D

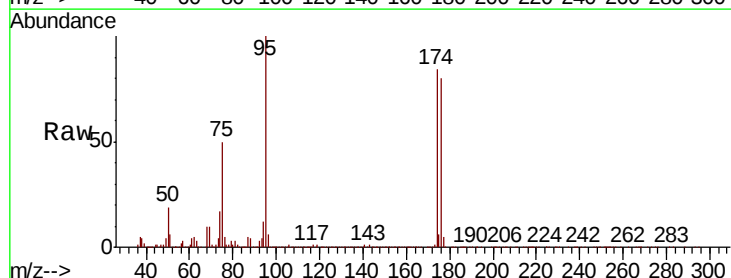
Acq: 03 Jan 2020 17:47

Tgt Ion: 75 Resp: 170306

Ion Ratio Lower Upper

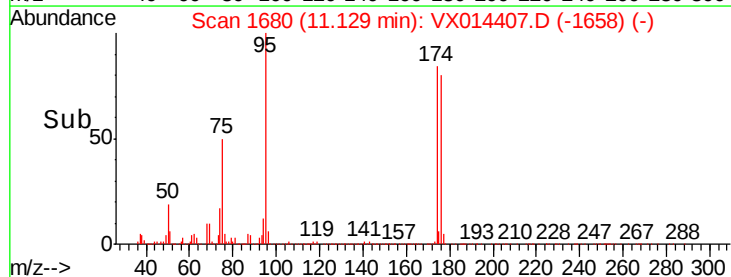
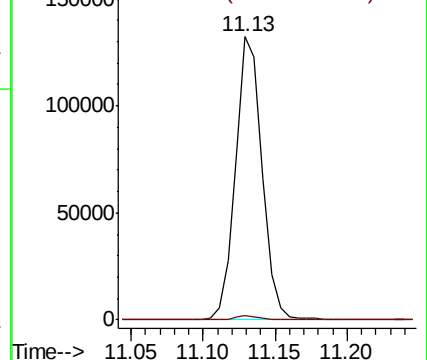
75 100

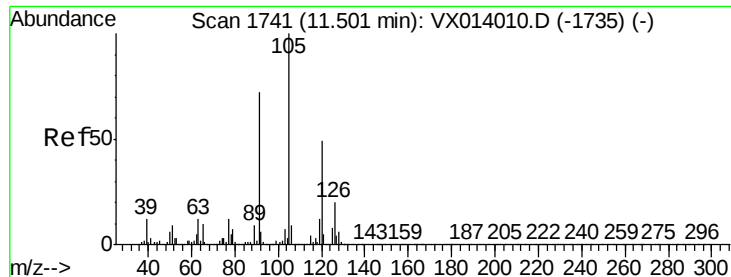
77 1.6 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

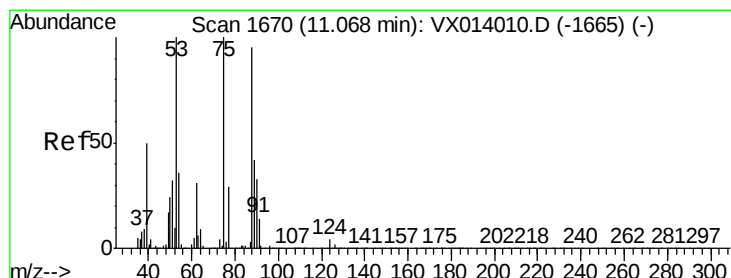
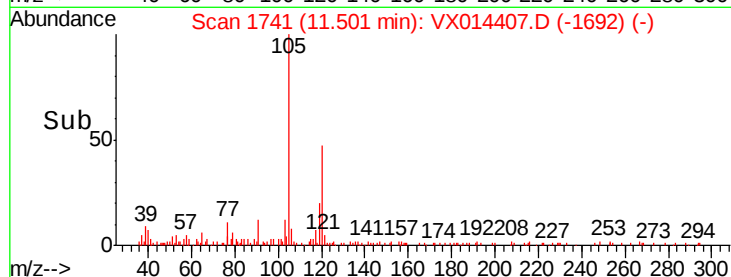
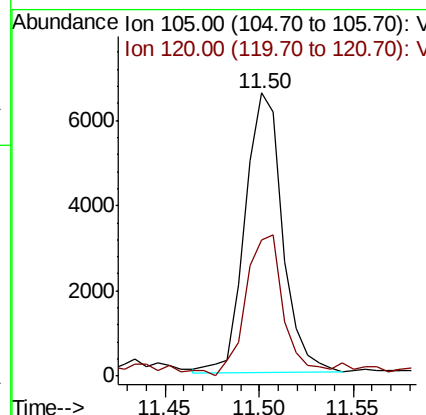
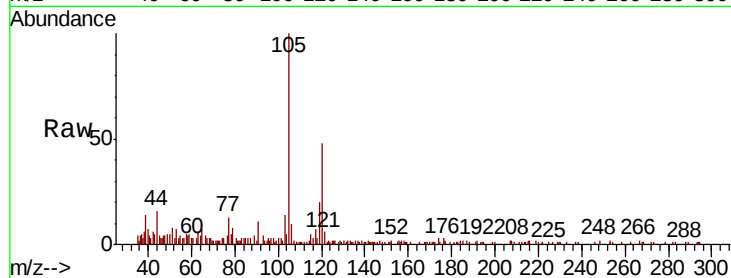




#80
 1,3,5-Trimethylbenzene
 Concen: 0.423 ug/l
 RT: 11.50 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VX014407.D
 Acq: 03 Jan 2020 17:47

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 8987
 Ion Ratio Lower Upper
 105 100
 120 51.8 25.3 75.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.984 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX014407.D
 Acq: 03 Jan 2020 17:47

Tgt Ion: 75 Resp: 171006
 Ion Ratio Lower Upper
 75 100
 53 0.4 76.7 115.1#
 89 0.1 34.6 51.8#

