

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010820\
 Data File : VX014483.D
 Acq On : 08 Jan 2020 19:50
 Operator : JC/SP
 Sample : PB125936ZHE#07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 06:13:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	532872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	830112	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	759372	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	352580	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	296604	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
35) Dibromofluoromethane	5.49	113	245153	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
50) Toluene-d8	8.71	98	1000477	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
62) 4-Bromofluorobenzene	11.13	95	342818	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	

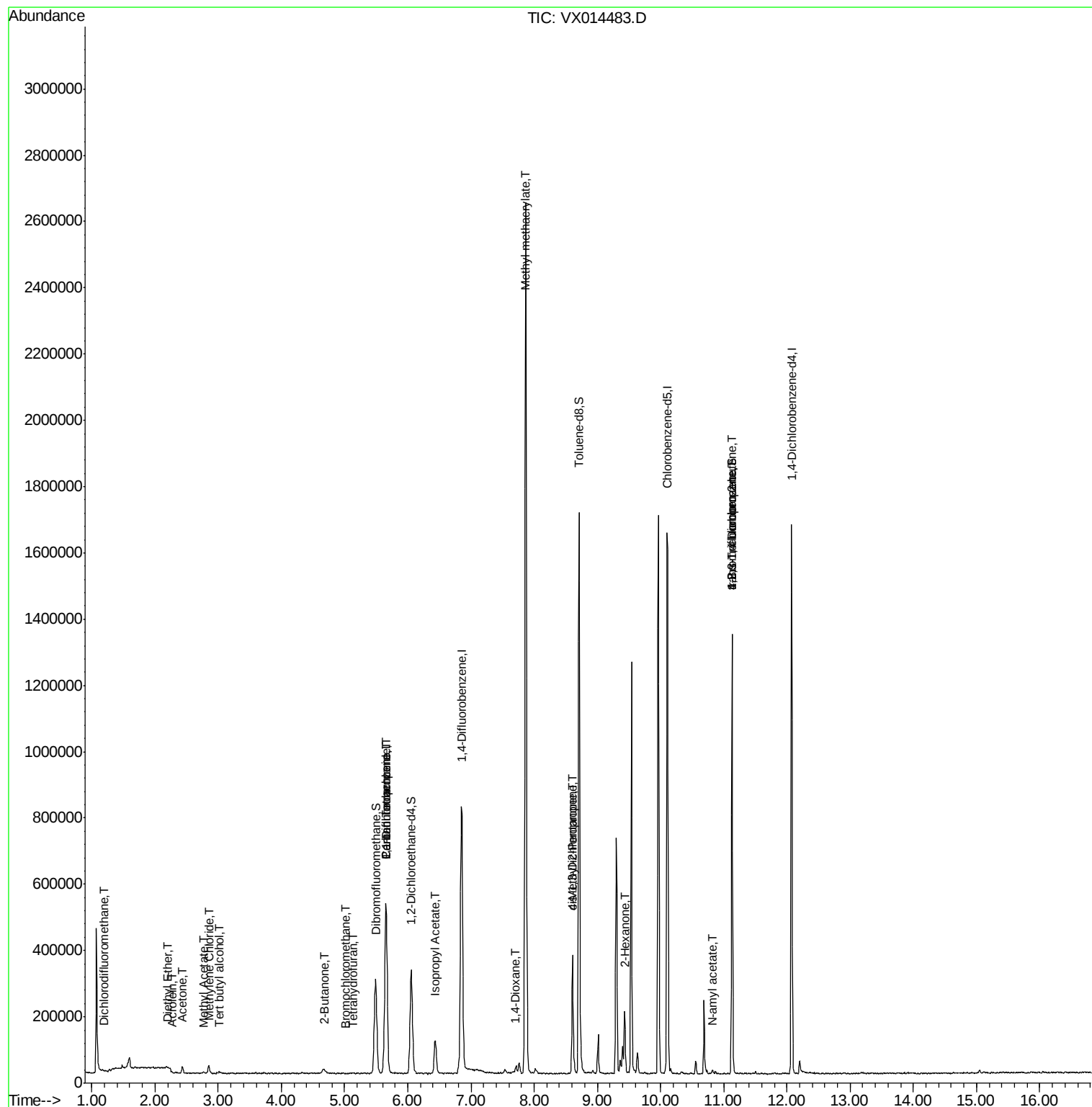
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	307	0.299	ug/l #	36
6) Chloroethane	1.77	64	1010	Below Cal	#	43
8) Diethyl Ether	2.19	74	1824	0.466	ug/l	76
11) Tert butyl alcohol	3.01	59	4770	3.840	ug/l #	90
13) Acrolein	2.28	56	291	0.292	ug/l	91
16) Acetone	2.43	43	22324	3.362	ug/l	100
18) Methyl Acetate	2.76	43	5757	0.673	ug/l	98
20) Methylene Chloride	2.85	84	12150	2.030	ug/l	97
25) 2-Butanone	4.67	43	9231	2.077	ug/l #	81
28) Bromochloromethane	5.03	49	863	0.211	ug/l #	40
29) Tetrahydrofuran	5.13	42	1280	0.487	ug/l #	72
36) 1,1-Dichloropropene	5.65	75	36012	4.613	ug/l #	41
38) Carbon Tetrachloride	5.65	117	47863	6.663	ug/l #	18
43) Isopropyl Acetate	6.43	43	136027	9.931	ug/l	99
48) Methyl methacrylate	7.87	41	221864	33.818	ug/l #	42
49) 1,4-Dioxane	7.70	88	140	1.007	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	127312	15.252	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	59439	6.300	ug/l #	56
59) 2-Hexanone	9.43	43	151012	22.865	ug/l #	23
74) N-amyl acetate	10.82	43	6475	0.593	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	166345	22.803	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	166345	60.286	ug/l #	12
88) 1,4-Dichlorobenzene	12.08	146	599	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.63	180	651	Below Cal	#	83
96) 1,2,3-Trichlorobenzene	14.01	180	527	Below Cal	#	44

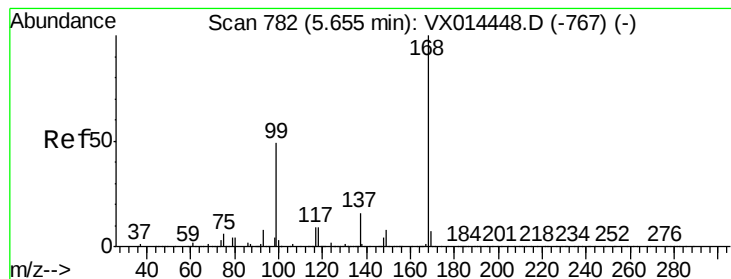
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 09 06:13:05 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

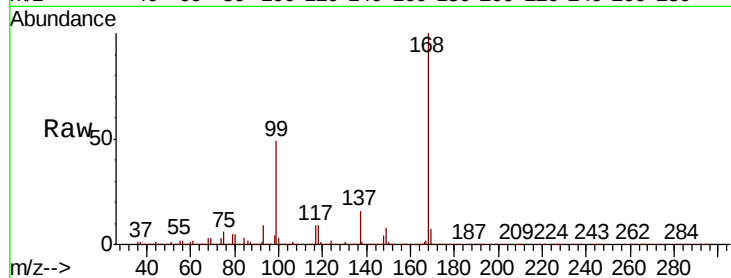
ClientSampled :

Tot Ion:168 Resp: 532872

Ion Ratio Lower Upper

168 100

99 49.3 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

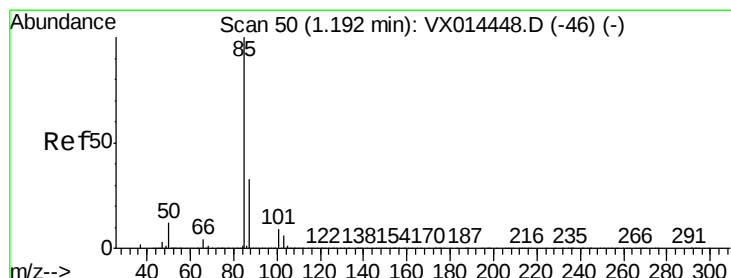
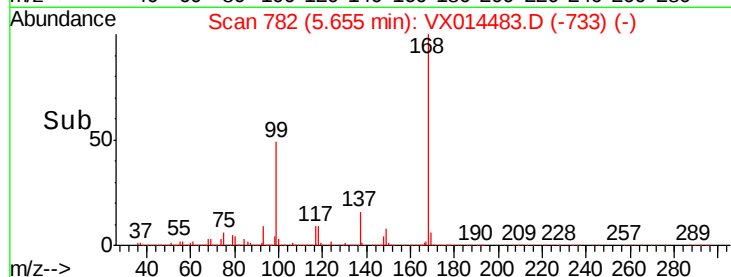
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.299 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX014483.D

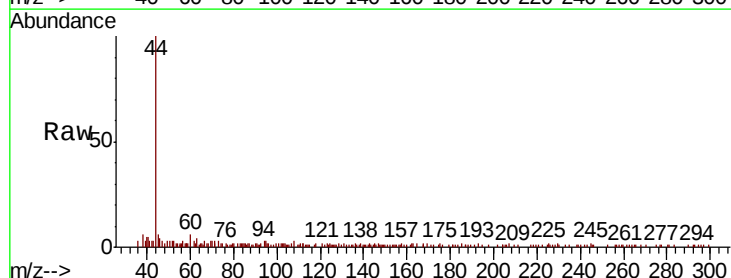
Acq: 08 Jan 2020 19:50

Tgt Ion: 85 Resp: 307

Ion Ratio Lower Upper

85 100

87 69.2 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

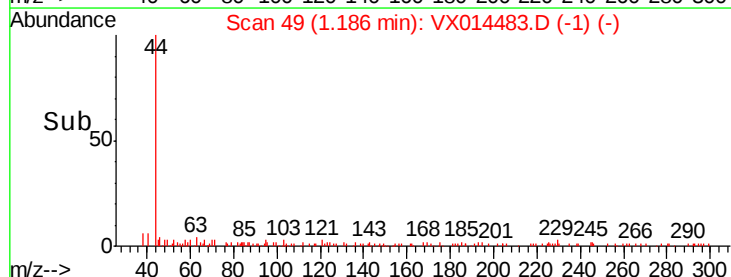
300

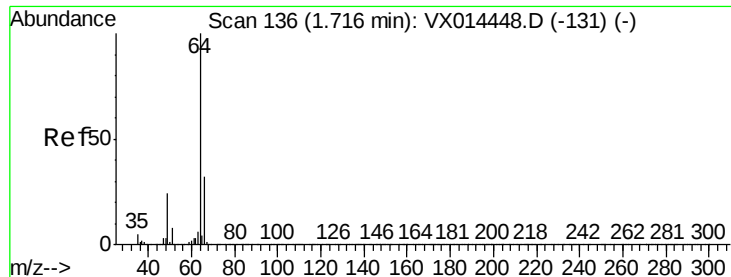
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.77 min Scan# 144

Delta R.T. 0.05 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

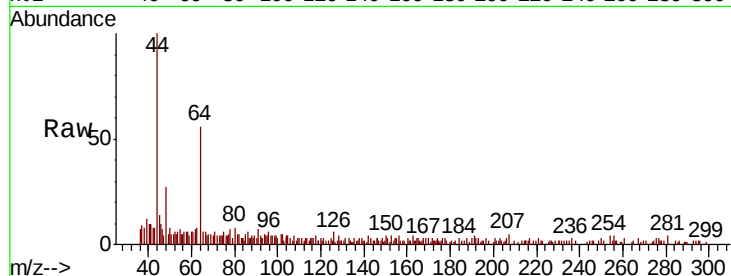
ClientSampled :

Tot Ion: 64 Resp: 1010

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

2500

2000

1500

1000

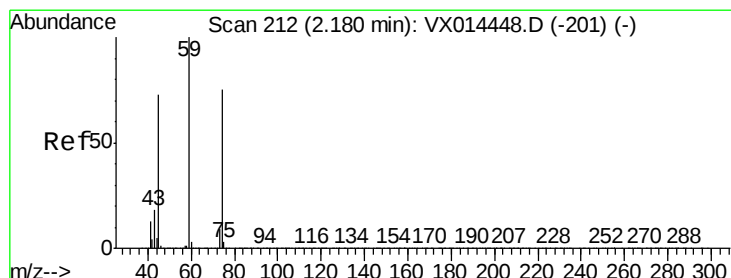
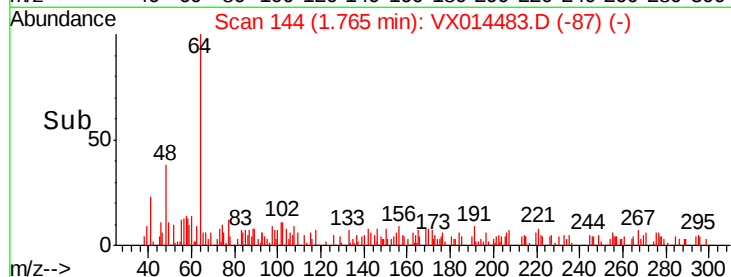
500

0

Time-->

1.74 1.76 1.78 1.80

1.77



#8

Diethyl Ether

Concen: 0.466 ug/l

RT: 2.19 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX014483.D

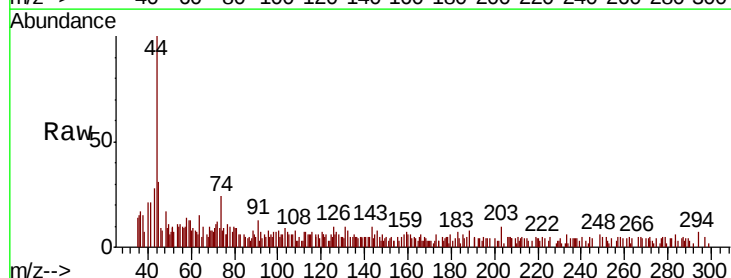
Acq: 08 Jan 2020 19:50

Tgt Ion: 74 Resp: 1824

Ion Ratio Lower Upper

74 100

45 74.2 48.7 146.1



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1200

1000

800

600

400

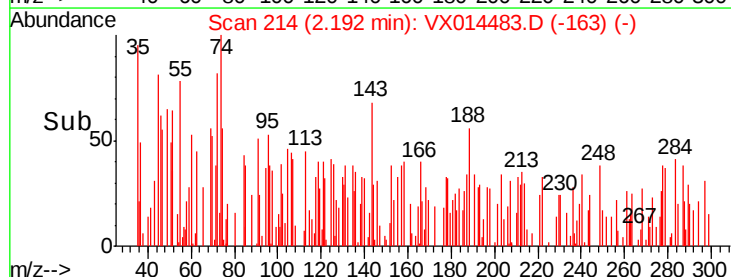
200

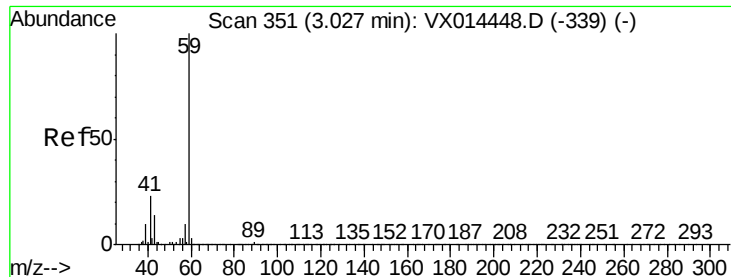
0

Time-->

2.15 2.20

2.19



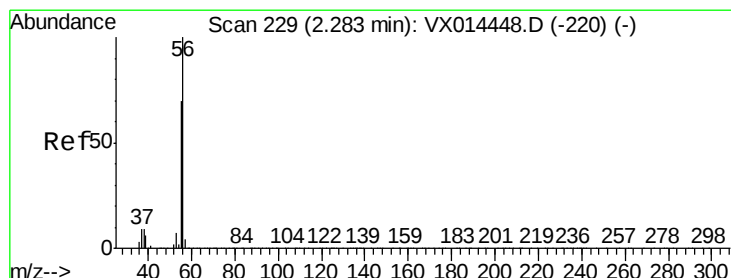
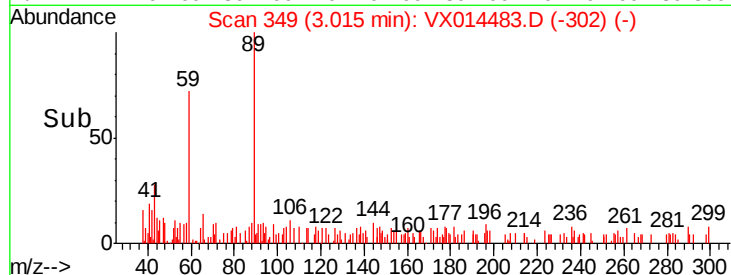
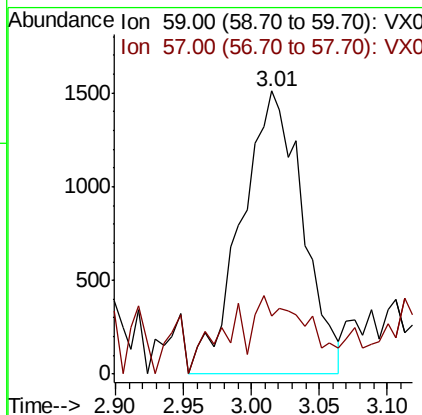
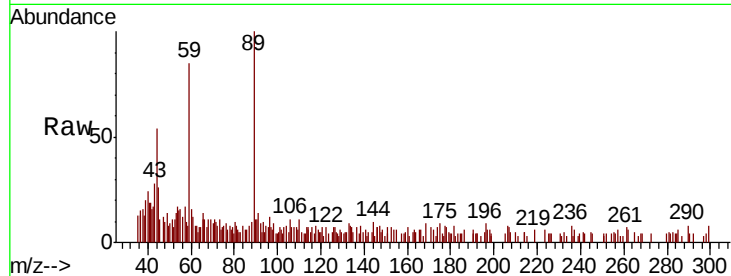


#11

Tert butyl alcohol
 Concen: 3.840 ug/l
 RT: 3.01 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VX014483.D
 Acq: 08 Jan 2020 19:50

Instrument :
 MSVOA_X
 ClientSampleId :

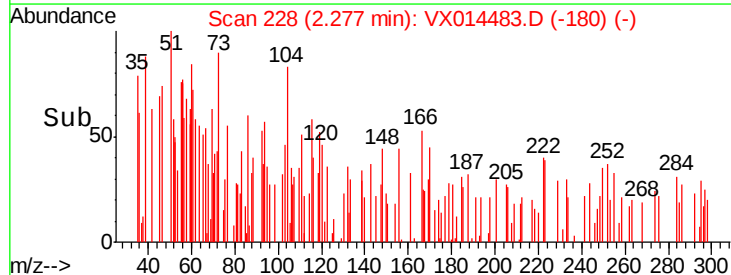
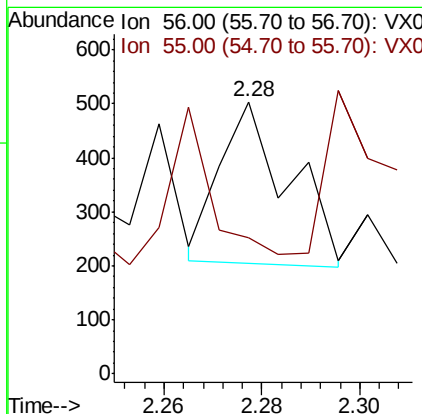
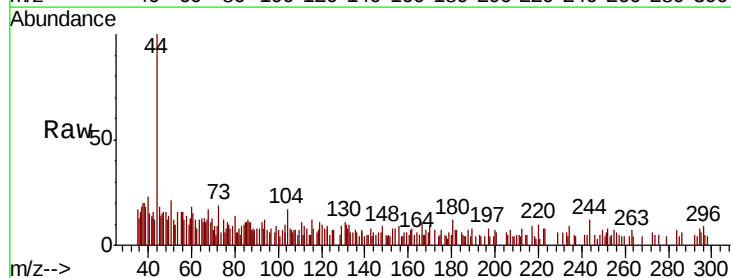
Tot Ion: 59 Resp: 4770
 Ion Ratio Lower Upper
 59 100
 57 14.5 8.5 12.7#

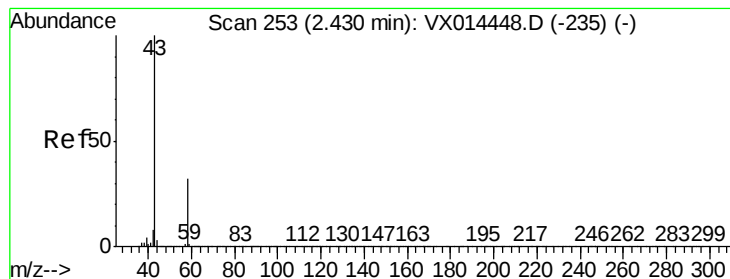


#13

Acrolein
 Concen: 0.292 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VX014483.D
 Acq: 08 Jan 2020 19:50

Tgt Ion: 56 Resp: 291
 Ion Ratio Lower Upper
 56 100
 55 61.9 55.0 82.6





#16

Acetone

Concen: 3.362 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

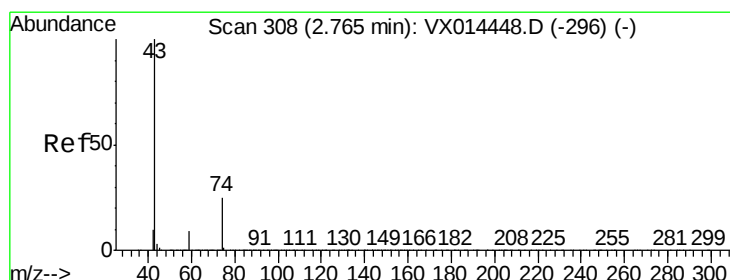
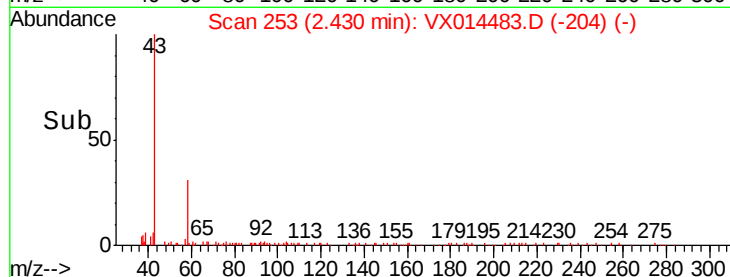
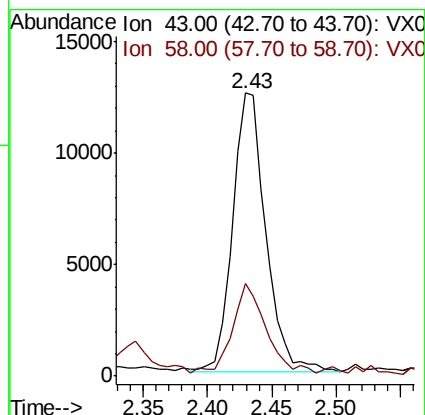
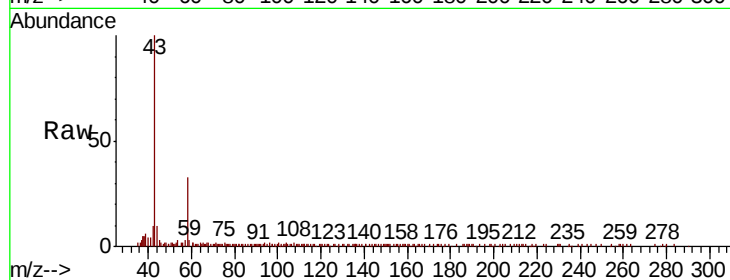
ClientSampled :

Tot Ion: 43 Resp: 22324

Ion Ratio Lower Upper

43 100

58 31.9 25.4 38.0



#18

Methyl Acetate

Concen: 0.673 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014483.D

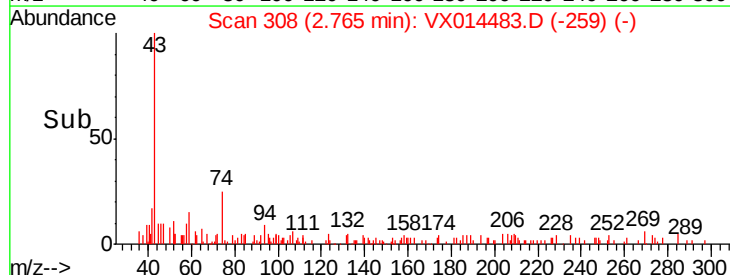
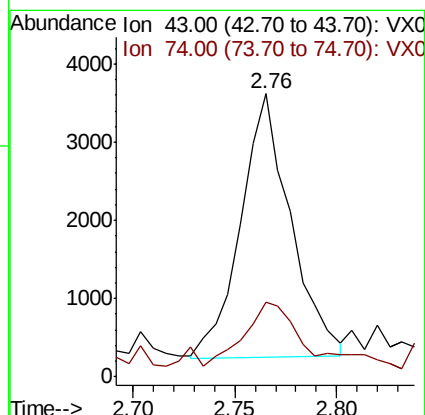
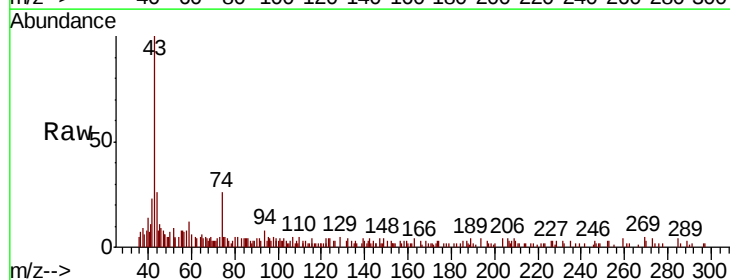
Acq: 08 Jan 2020 19:50

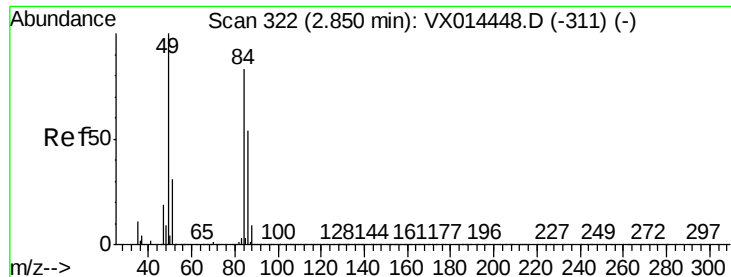
Tgt Ion: 43 Resp: 5757

Ion Ratio Lower Upper

43 100

74 25.4 19.4 29.2

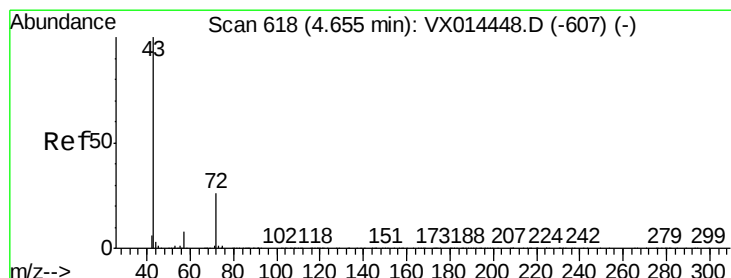
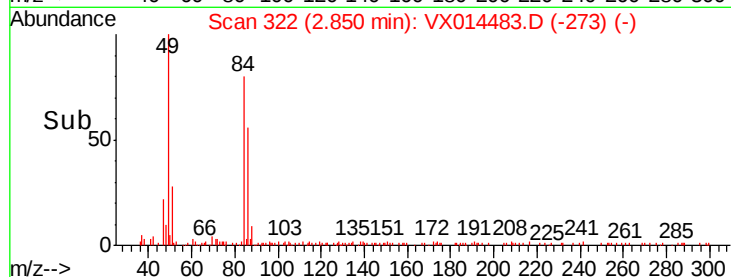
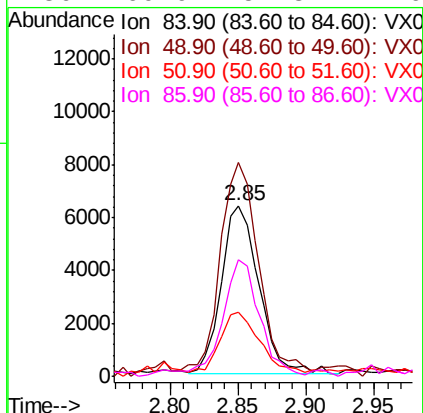
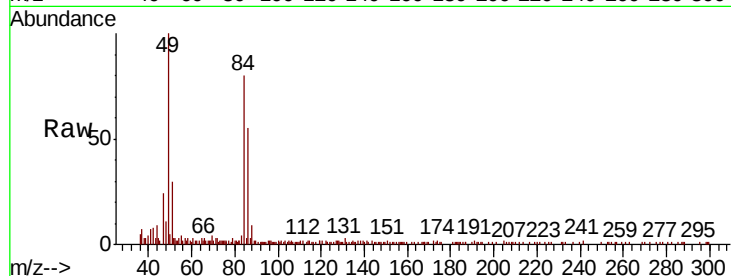




#20
Methvlene Chloride
Concen: 2.030 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014483.D
Acq: 08 Jan 2020 19:50

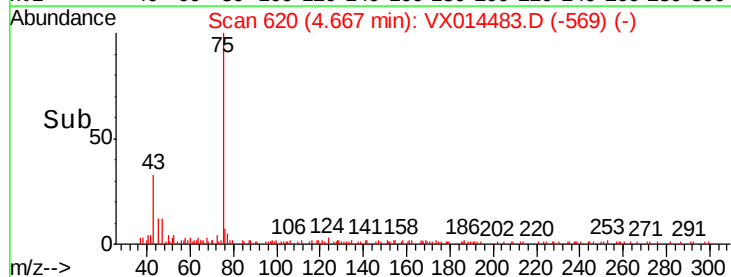
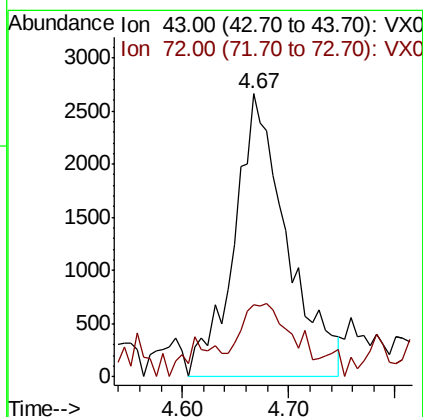
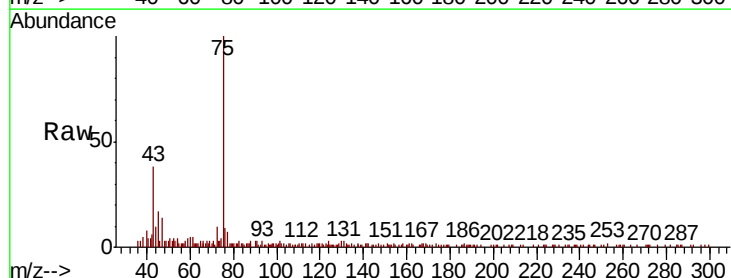
Instrument :
MSVOA_X
ClientSampleId :

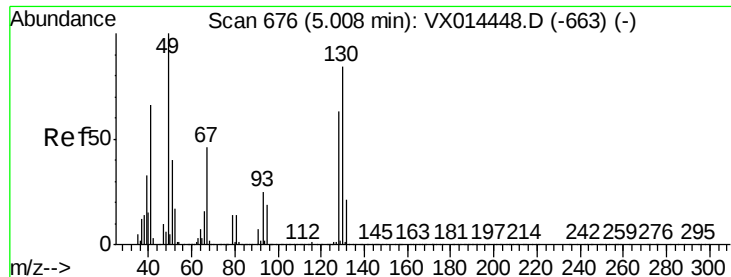
Tot Ion:	84	Resp:	12150
Ion	Ratio	Lower	Upper
84	100		
49	121.8	95.8	143.8
51	35.8	30.2	45.4
86	69.9	51.8	77.6



#25
2-Butanone
Concen: 2.077 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014483.D
Acq: 08 Jan 2020 19:50

Tgt Ion:	43	Resp:	9231
Ion	Ratio	Lower	Upper
43	100		
72	16.0	20.6	31.0#

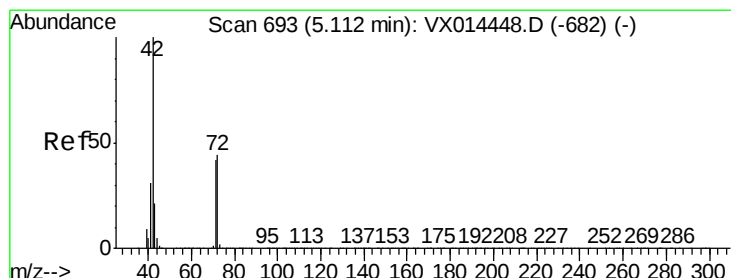
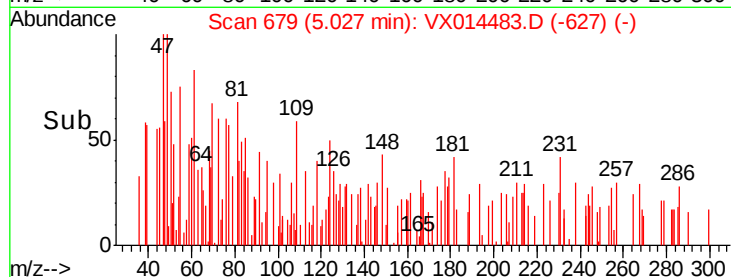
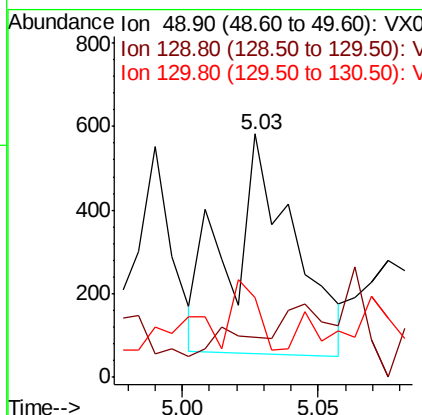
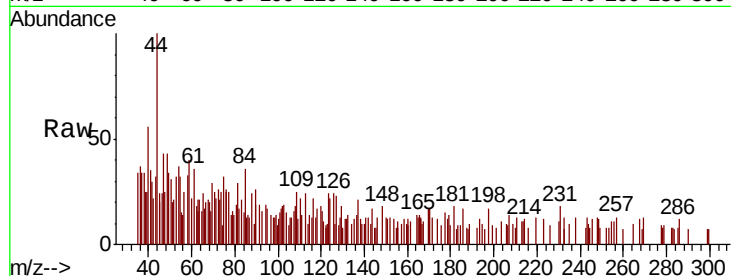




#28
Bromochloromethane
Concen: 0.211 ug/l
RT: 5.03 min Scan# 679
Delta R.T. 0.02 min
Lab File: VX014483.D
Acq: 08 Jan 2020 19:50

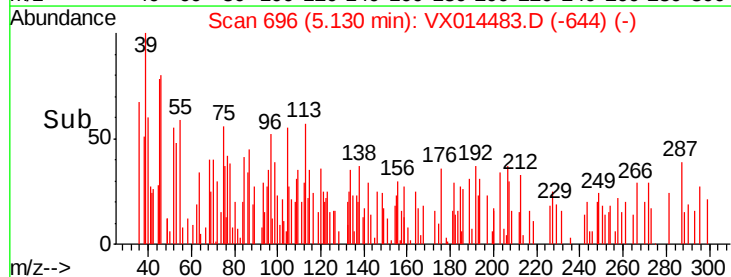
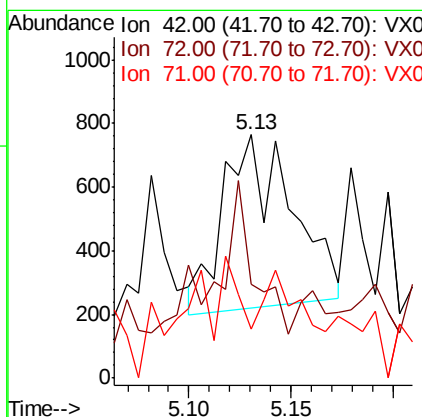
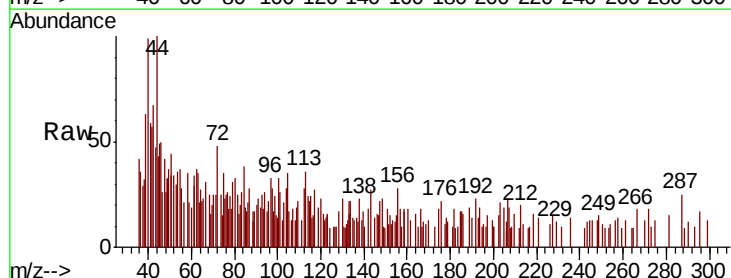
Instrument :
MSVOA_X
ClientSampled :

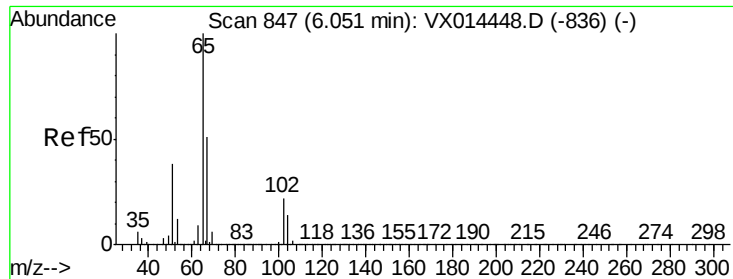
Tot Ion: 49 Resp: 863
Ion Ratio Lower Upper
49 100
129 11.8 0.0 4.4#
130 29.0 67.0 100.4#



#29
Tetrahydrofuran
Concen: 0.487 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.02 min
Lab File: VX014483.D
Acq: 08 Jan 2020 19:50

Tgt Ion: 42 Resp: 1280
Ion Ratio Lower Upper
42 100
72 38.4 36.2 54.4
71 12.8 34.1 51.1#





#33

1,2-Dichloroethane-d4

Concen: 49.861 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

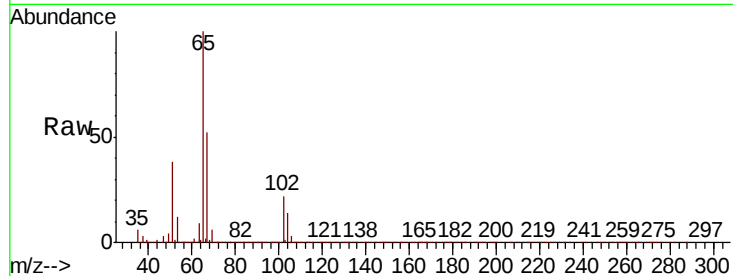
ClientSampleId :

Tot Ion: 65 Resp: 296604

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

120000

100000

80000

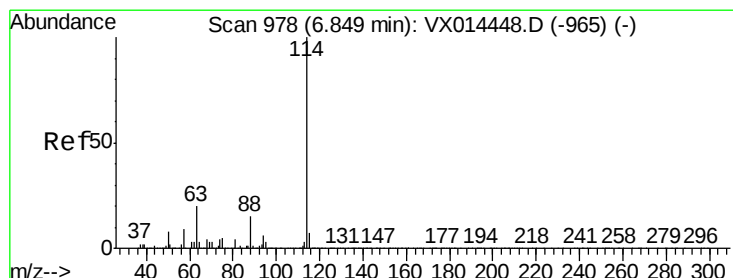
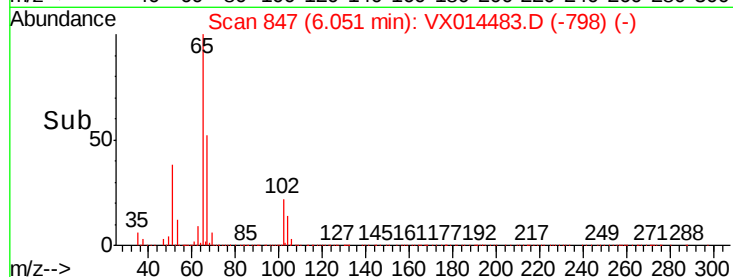
60000

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: VX014483.D

Acq: 08 Jan 2020 19:50

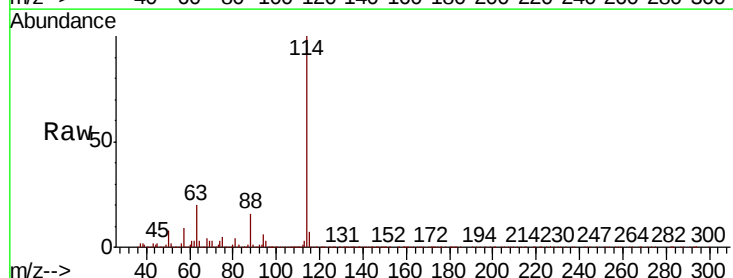
Tgt Ion: 114 Resp: 830112

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 15.8 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

400000

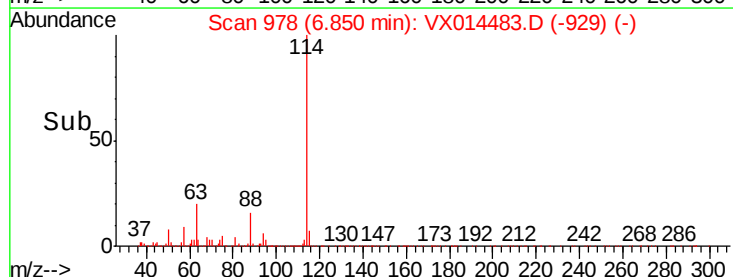
300000

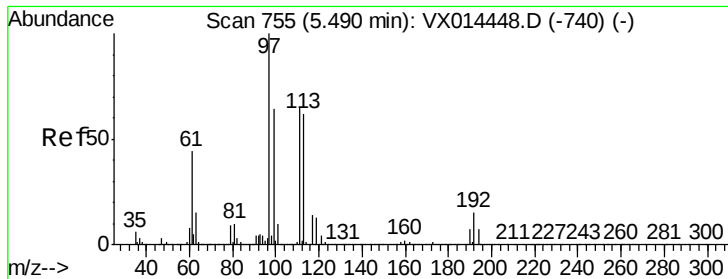
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.786 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

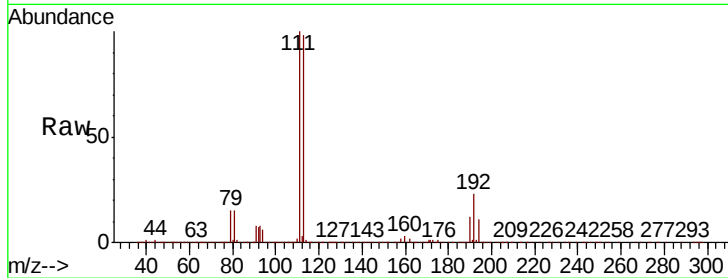
Tot Ion:113 Resp: 245153

Ion Ratio Lower Upper

113 100

111 103.1 81.5 122.3

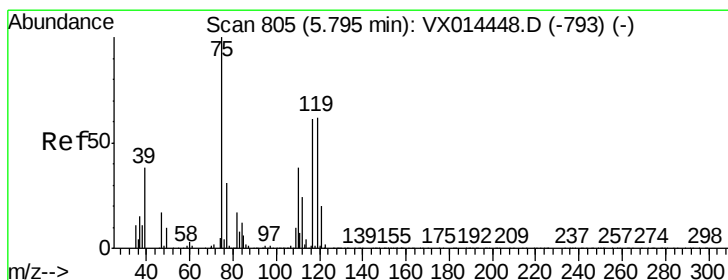
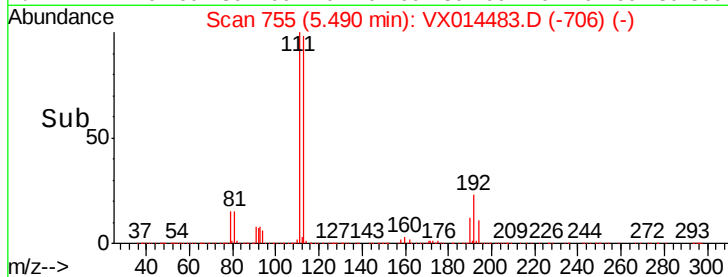
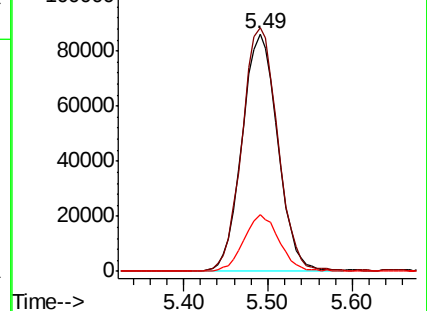
192 23.8 19.2 28.8



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: 4.613 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

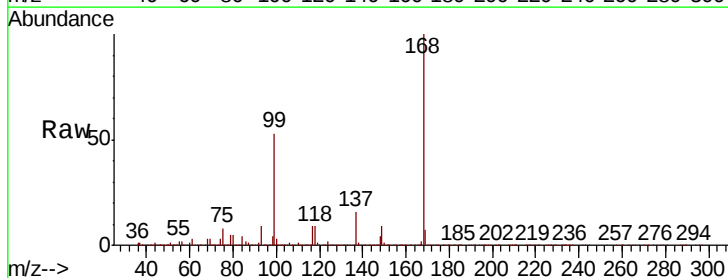
Tgt Ion: 75 Resp: 36012

Ion Ratio Lower Upper

75 100

110 0.0 18.6 55.8#

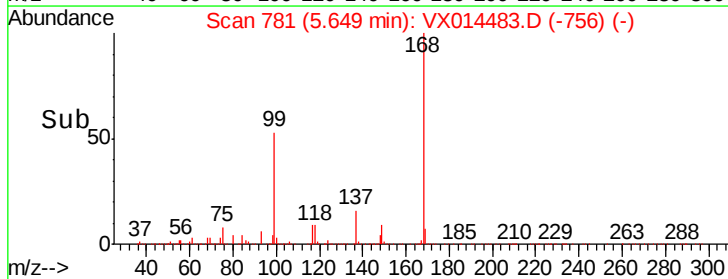
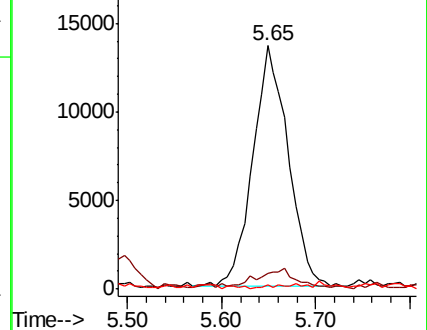
77 0.6 24.5 36.7#

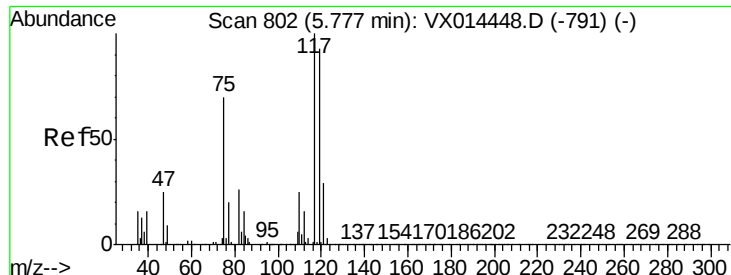


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.663 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

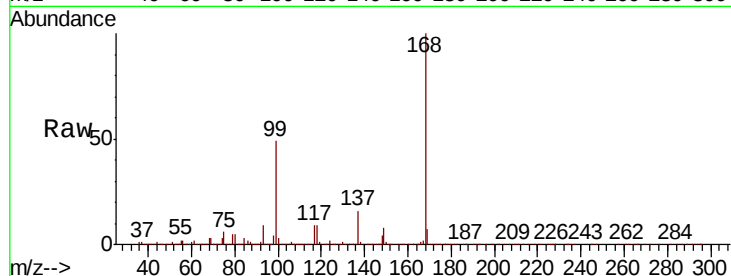
Tot Ion:117 Resp: 47863

Ion Ratio Lower Upper

117 100

119 5.9 73.8 110.8#

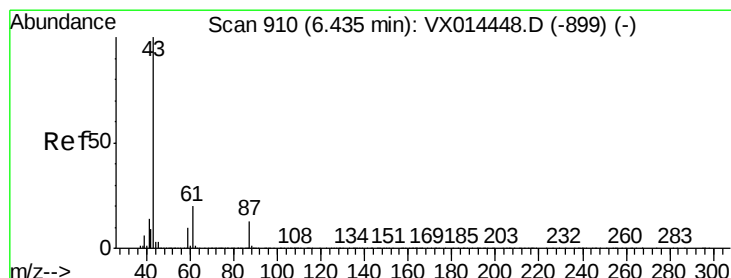
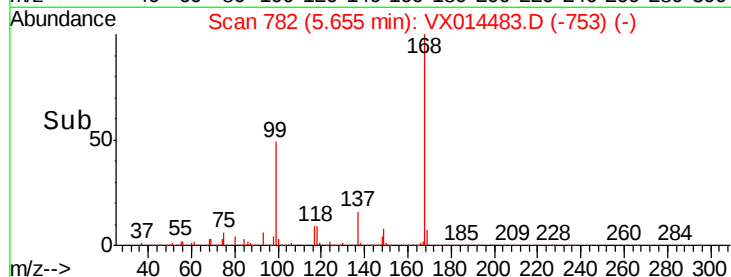
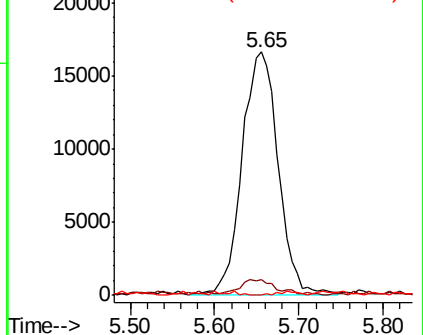
121 0.0 23.4 35.0#



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: 9.931 ug/l

RT: 6.43 min Scan# 909

Delta R.T. -0.01 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

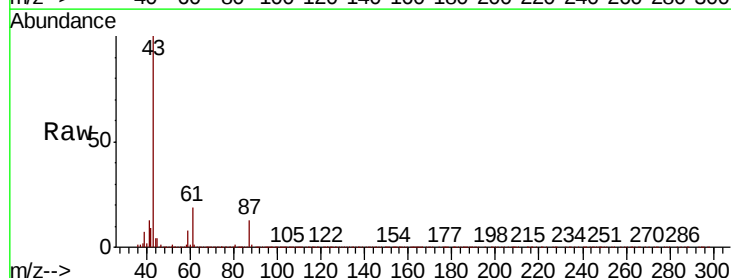
Tgt Ion: 43 Resp: 136027

Ion Ratio Lower Upper

43 100

61 21.1 16.6 24.8

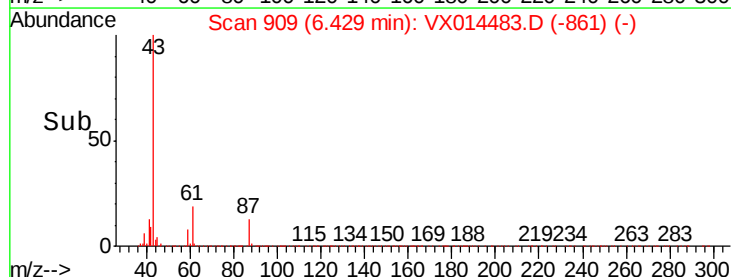
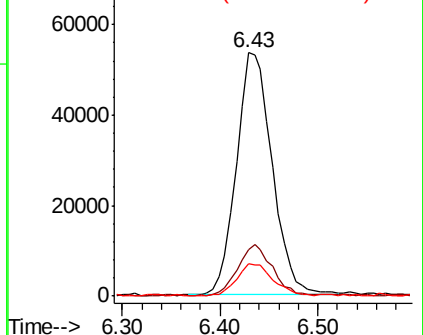
87 13.2 10.8 16.2

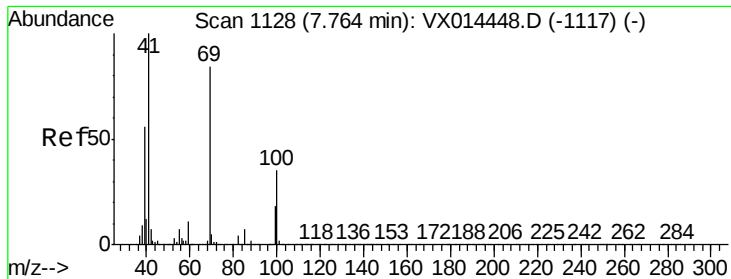


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

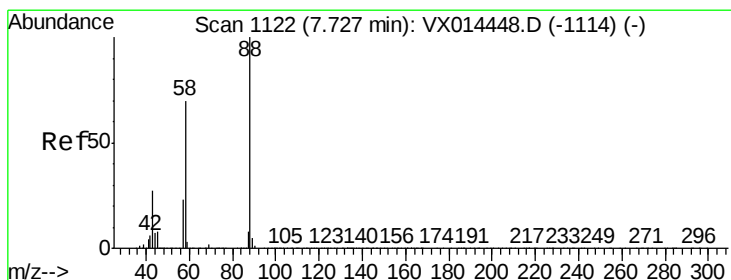
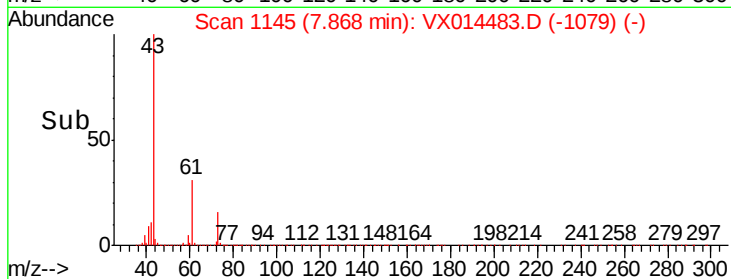
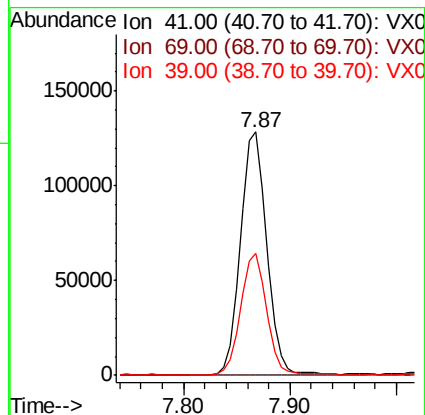
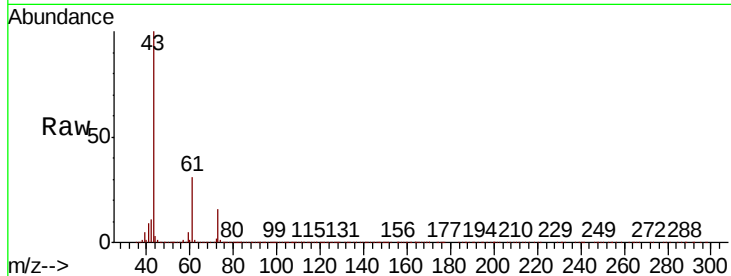




#48
Methvl methacrylate
Concen: 33.818 ug/l
RT: 7.87 min Scan# 1145
Delta R.T. 0.10 min
Lab File: VX014483.D
Acq: 08 Jan 2020 19:50

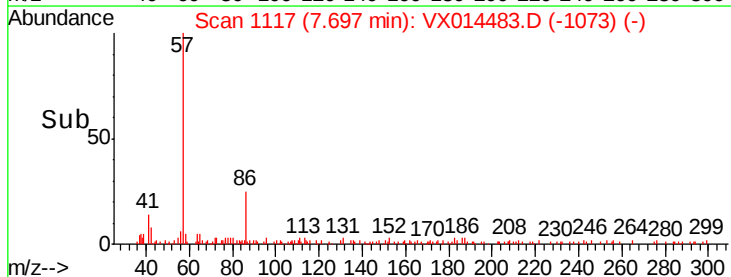
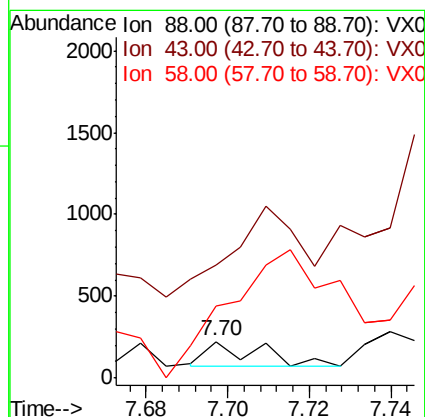
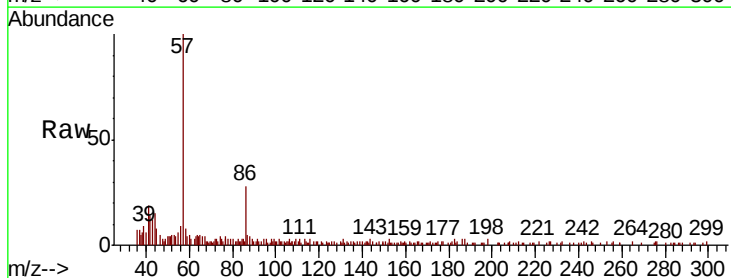
Instrument :
MSVOA_X
ClientSampleId :

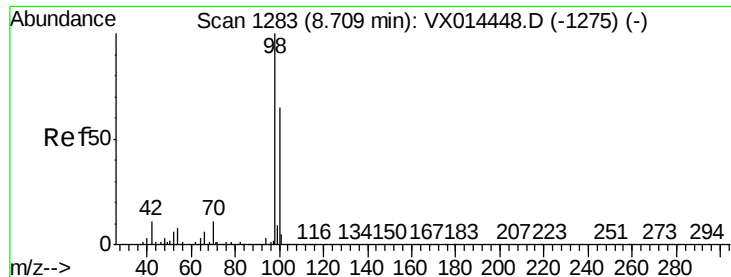
Tot Ion: 41 Resp: 221864
Ion Ratio Lower Upper
41 100
69 0.3 65.5 98.3#
39 49.4 43.9 65.9



#49
1,4-Dioxane
Concen: 1.007 ug/l
RT: 7.70 min Scan# 1117
Delta R.T. -0.03 min
Lab File: VX014483.D
Acq: 08 Jan 2020 19:50

Tgt Ion: 88 Resp: 140
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 1063.6 57.1 85.7#





#50

Toluene-d8

Concen: 51.305 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

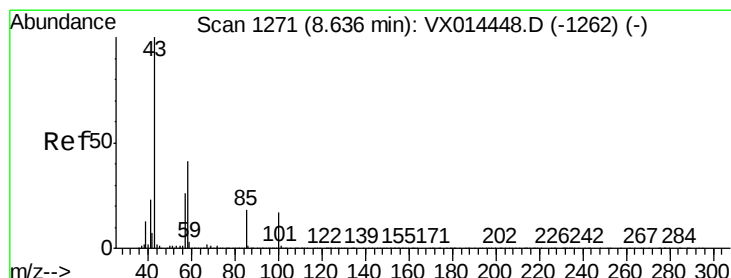
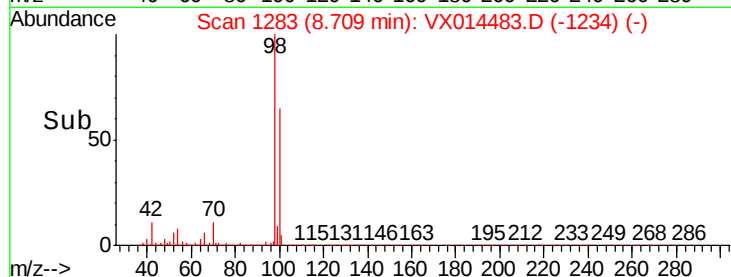
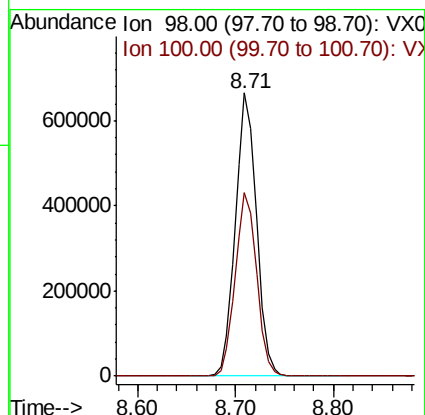
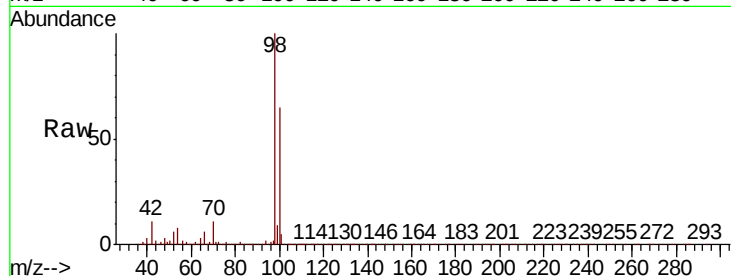
ClientSampleId :

Tot Ion: 98 Resp: 1000477

Ion Ratio Lower Upper

98 100

100 65.7 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 15.252 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014483.D

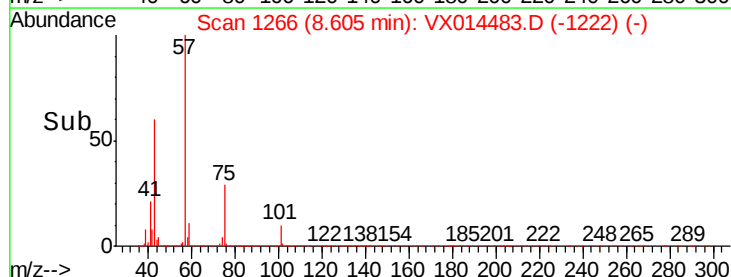
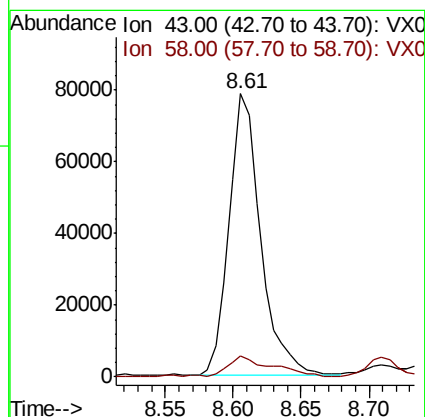
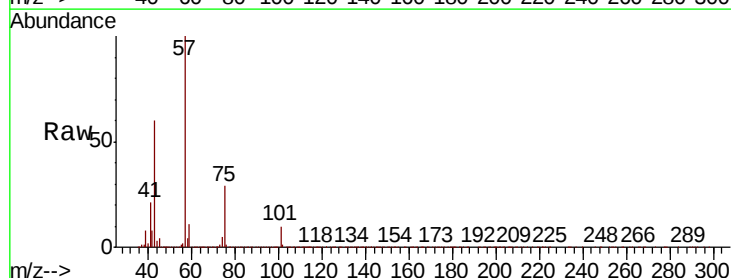
Acq: 08 Jan 2020 19:50

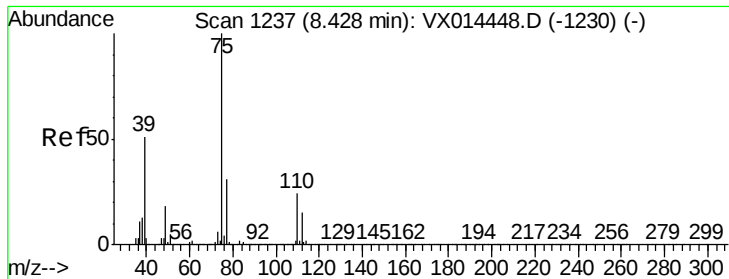
Tgt Ion: 43 Resp: 127312

Ion Ratio Lower Upper

43 100

58 9.9 32.4 48.6#



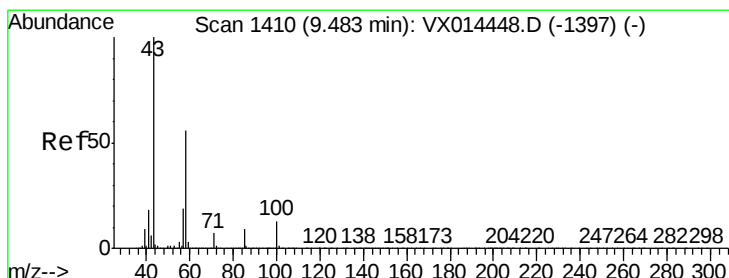
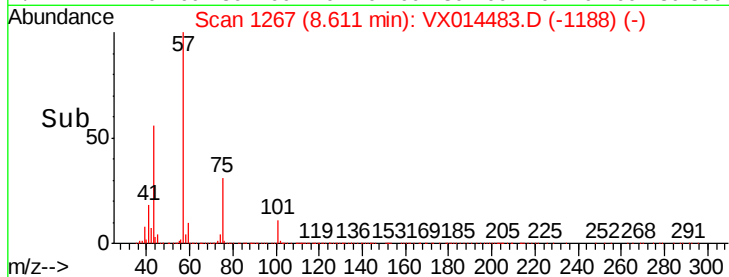
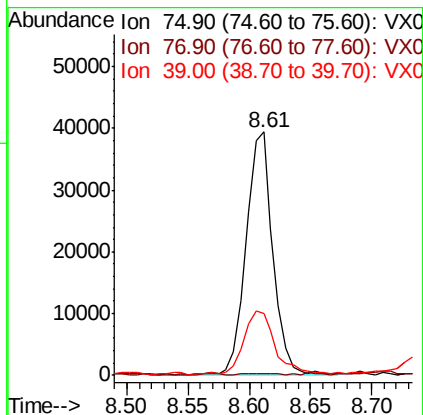
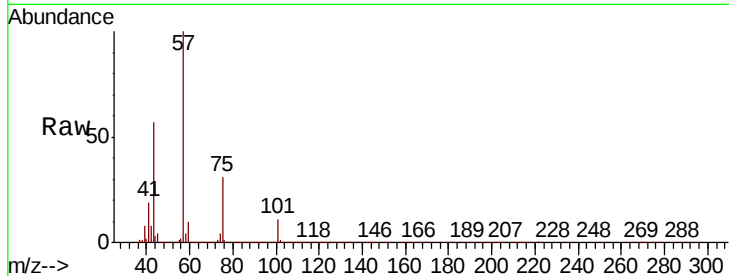


#54

cis-1,3-Dichloropropene
 Concen: 6.300 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX014483.D
 Acq: 08 Jan 2020 19:50

Instrument :
 MSVOA_X
 ClientSampled :

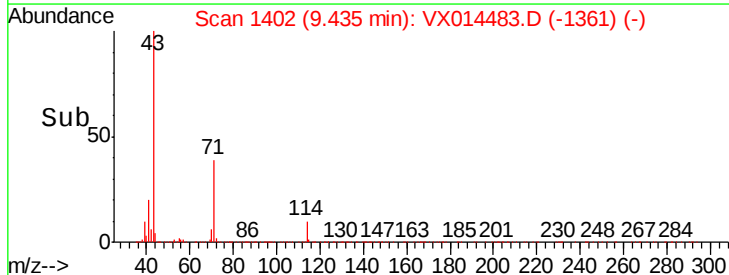
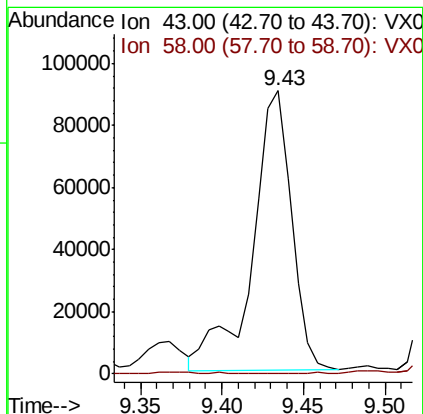
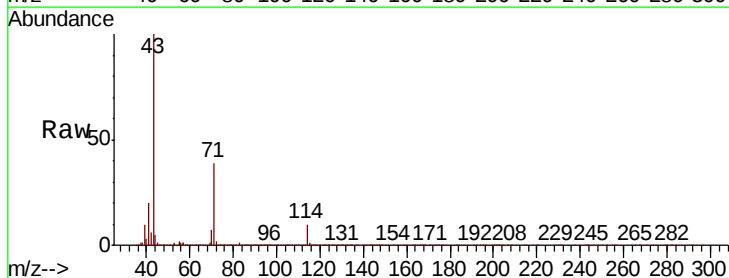
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.7	25.0	37.4#
39	25.7	40.7	61.1#

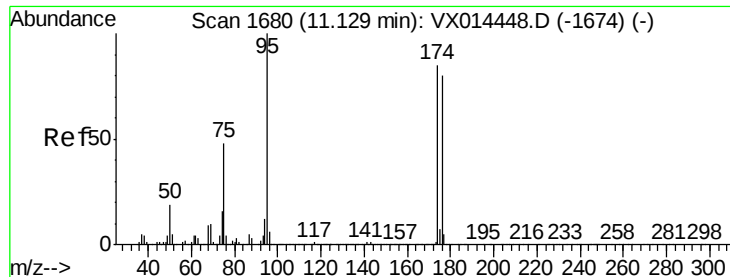


#59

2-Hexanone
 Concen: 22.865 ug/l
 RT: 9.43 min Scan# 1402
 Delta R.T. -0.05 min
 Lab File: VX014483.D
 Acq: 08 Jan 2020 19:50

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.9	83.7#





#62

4-Bromofluorobenzene

Concen: 47.887 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

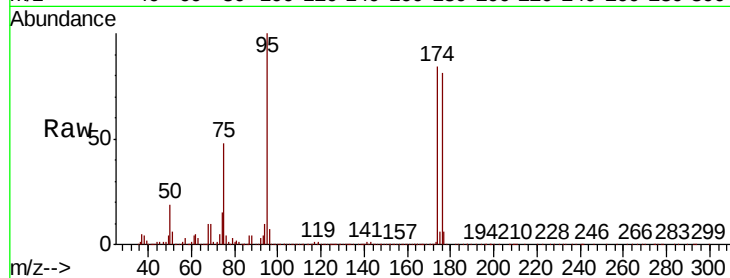
Tot Ion: 95 Resp: 342818

Ion Ratio Lower Upper

95 100

174 91.3 0.0 180.8

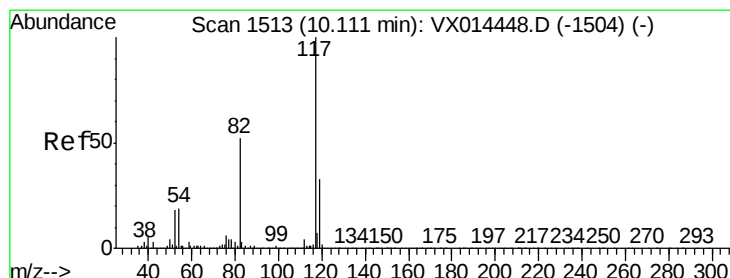
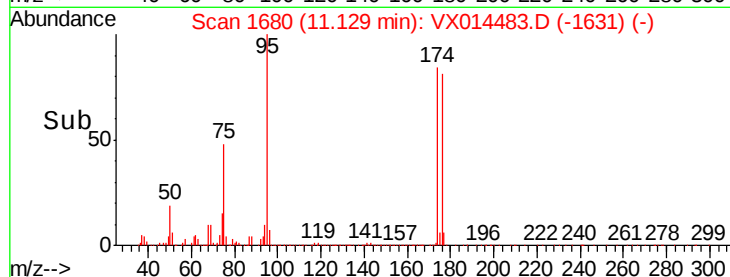
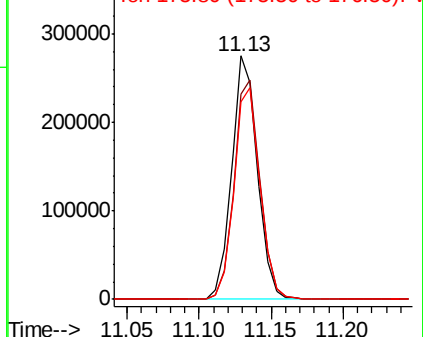
176 88.6 0.0 172.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

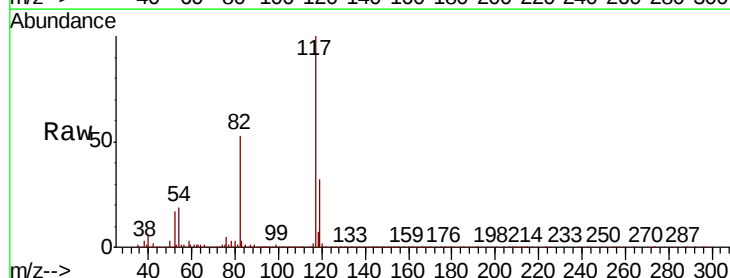
Tgt Ion: 117 Resp: 759372

Ion Ratio Lower Upper

117 100

82 52.6 41.8 62.6

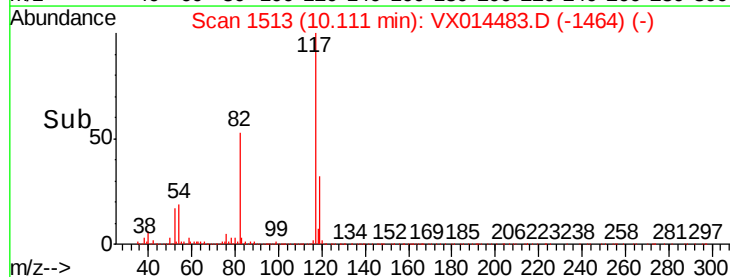
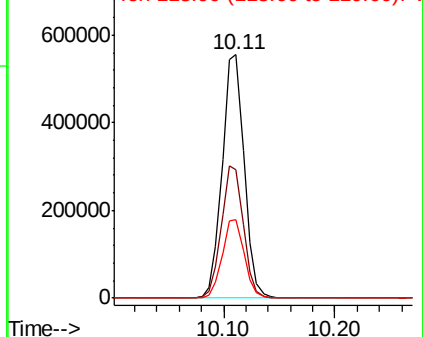
119 32.1 26.2 39.4

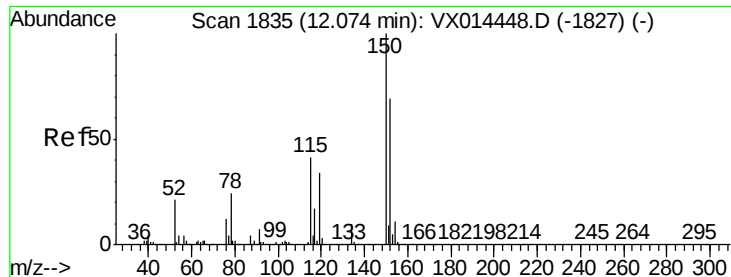


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

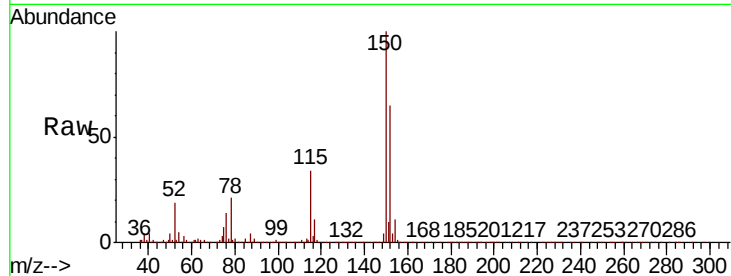
Tot Ion:152 Resp: 352580

Ion Ratio Lower Upper

152 100

115 54.8 39.5 118.3

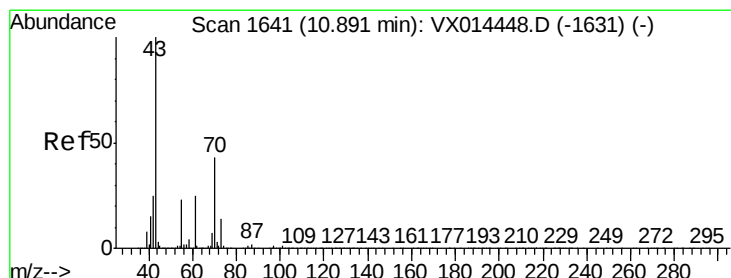
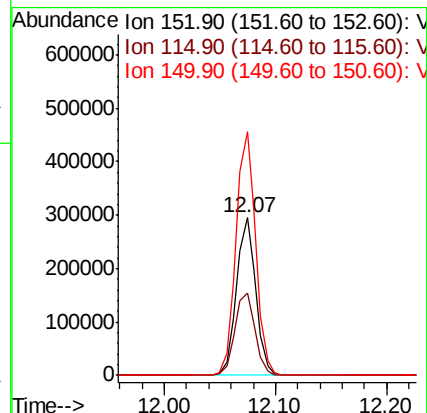
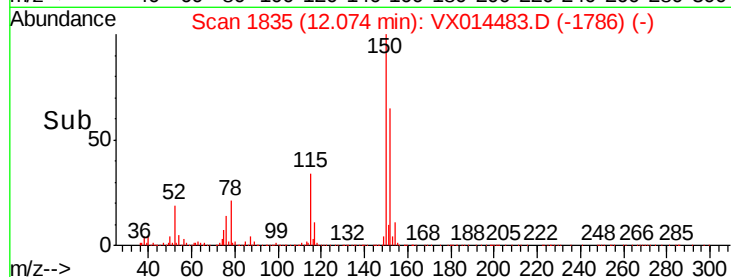
150 157.3 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.593 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Tgt Ion: 43 Resp: 6475

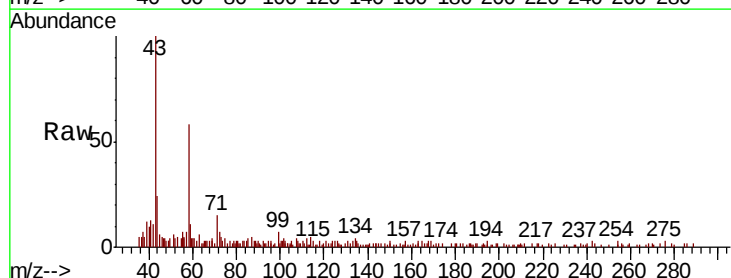
Ion Ratio Lower Upper

43 100

70 3.8 35.1 52.7#

55 6.4 19.3 28.9#

61 0.0 20.0 30.0#

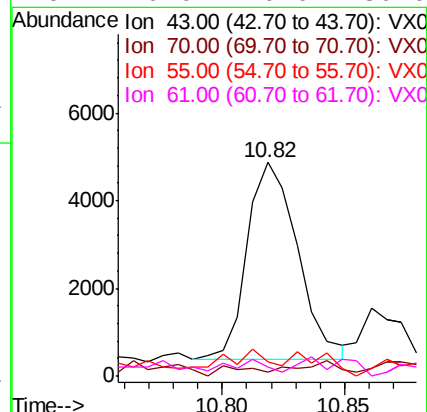
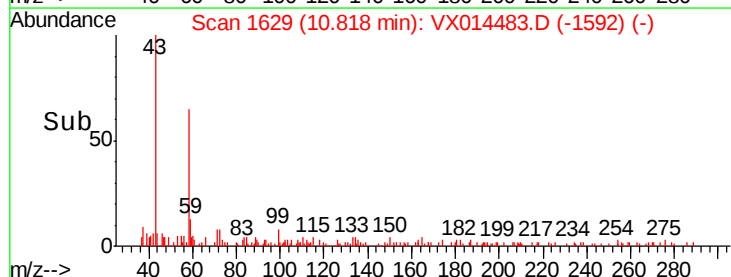


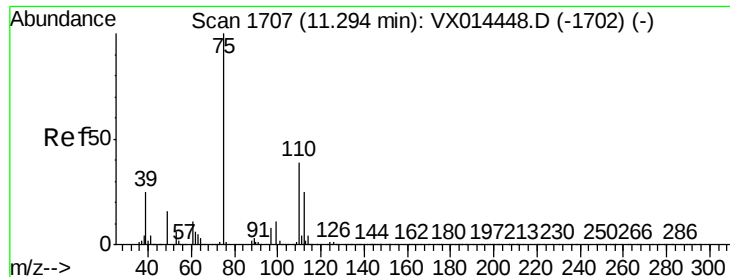
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.803 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

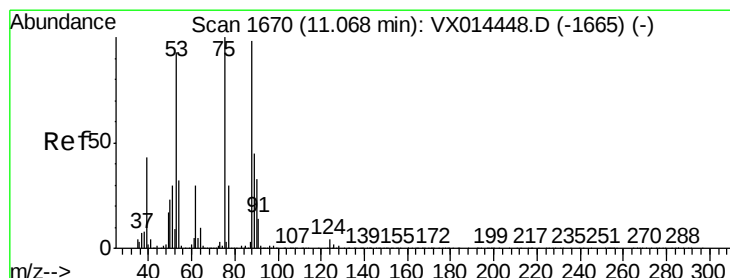
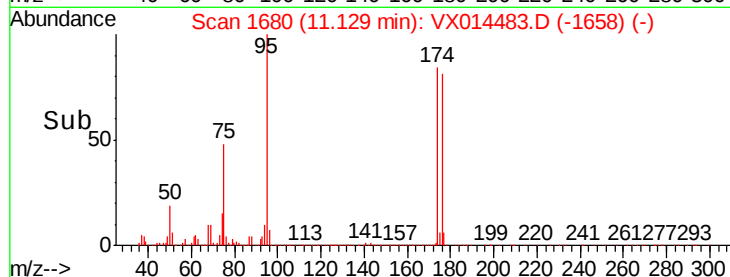
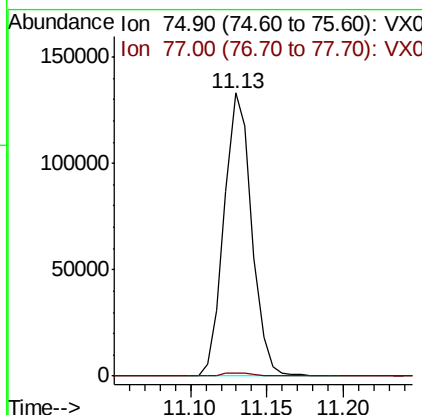
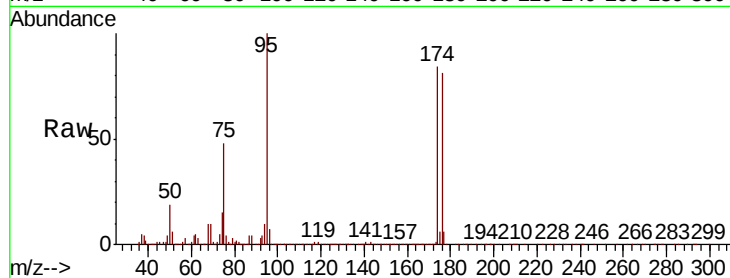
ClientSampleId :

Tot Ion: 75 Resp: 166345

Ion Ratio Lower Upper

75 100

77 1.0 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.286 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

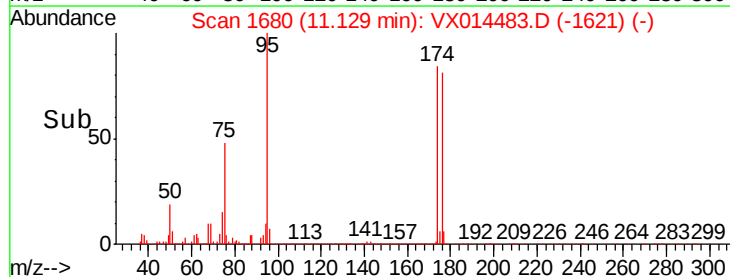
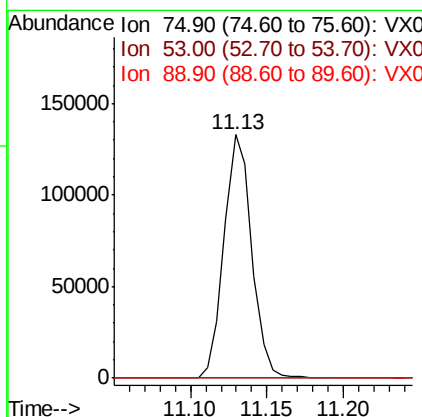
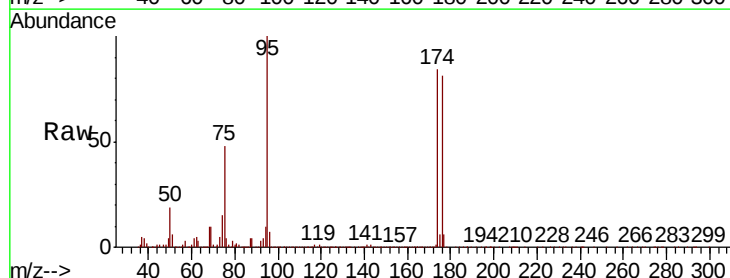
Tgt Ion: 75 Resp: 166345

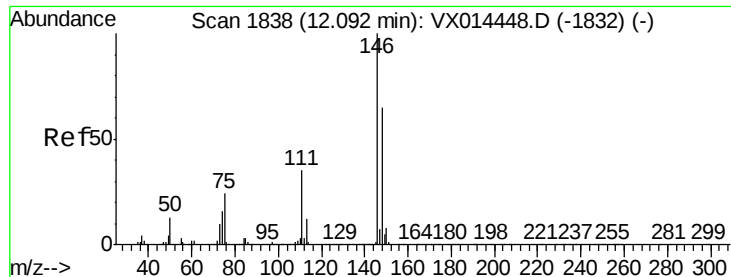
Ion Ratio Lower Upper

75 100

53 0.0 74.8 112.2#

89 0.0 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.08 min Scan# 1836

Delta R.T. -0.01 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

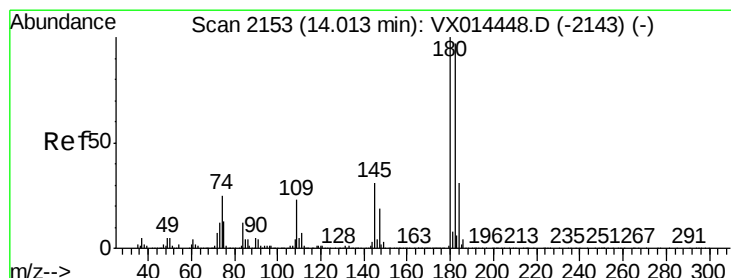
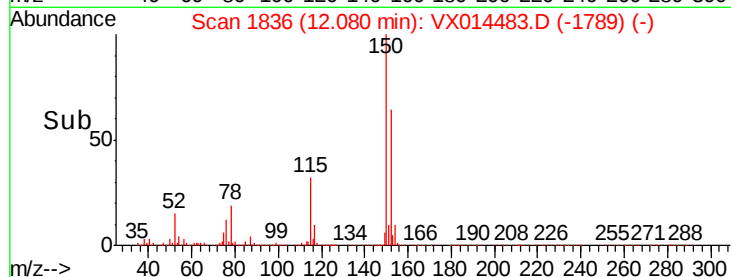
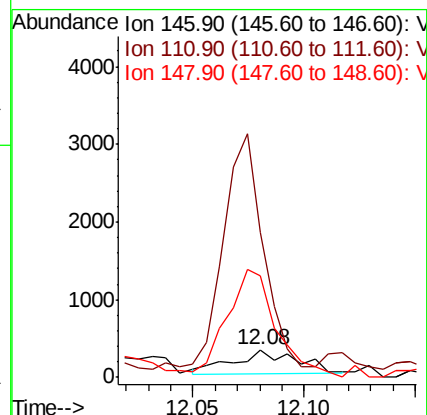
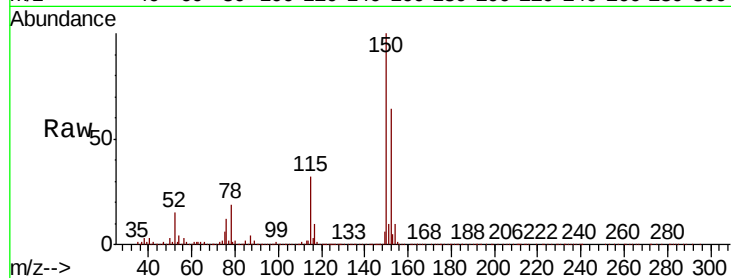
Tot Ion:146 Resp: 599

Ion Ratio Lower Upper

146 100

111 666.4 18.1 54.1#

148 358.9 32.1 96.3#



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VX014483.D

Acq: 08 Jan 2020 19:50

Tgt Ion:180 Resp: 527

Ion Ratio Lower Upper

180 100

182 41.0 47.9 143.6#

145 0.0 14.8 44.3#

