

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010820\
 Data File : VX0144468.D
 Acq On : 08 Jan 2020 14:01
 Operator : JC/SP
 Sample : PB125924TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 08 15:45:32 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

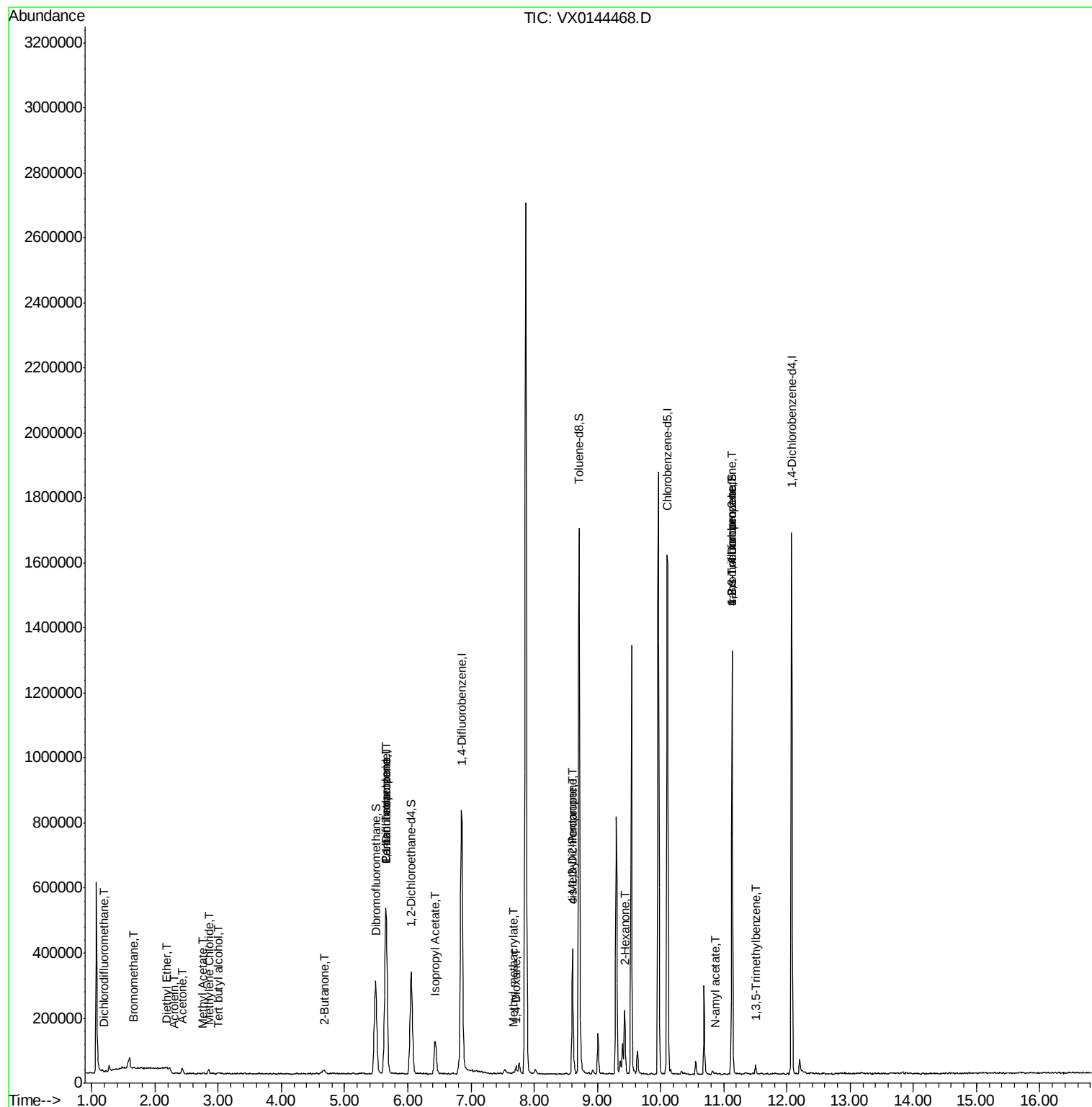
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	529780	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	827201	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	754737	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	354311	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	289016	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
35) Dibromofluoromethane	5.49	113	242762	48.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.96%	
50) Toluene-d8	8.71	98	979157	50.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.78%	
62) 4-Bromofluorobenzene	11.13	95	343076	48.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.18%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	784	0.371	ug/l	85
5) Bromomethane	1.65	94	1667	0.334	ug/l	84
6) Chloroethane	1.72	64	1067	Below Cal	#	43
8) Diethyl Ether	2.19	74	2298	0.590	ug/l	67
11) Tert butyl alcohol	3.00	59	2661	2.155	ug/l #	79
13) Acrolein	2.30	56	787	0.795	ug/l #	15
16) Acetone	2.43	43	19888	2.571	ug/l	99
18) Methyl Acetate	2.76	43	5707	0.671	ug/l	92
20) Methylene Chloride	2.85	84	7726	1.299	ug/l	93
25) 2-Butanone	4.67	43	4507	1.020	ug/l #	70
36) 1,1-Dichloropropene	5.65	75	36404	4.680	ug/l #	51
38) Carbon Tetrachloride	5.65	117	46699	6.524	ug/l #	18
43) Isopropyl Acetate	6.43	43	138005	10.110	ug/l	98
48) Methyl methacrylate	7.67	41	7655	1.171	ug/l #	19
49) 1,4-Dioxane	7.73	88	207	1.494	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	134530	16.174	ug/l #	46
54) cis-1,3-Dichloropropene	8.61	75	62996	6.700	ug/l #	57
59) 2-Hexanone	9.43	43	137094	20.830	ug/l #	23
74) N-amyl acetate	10.86	43	2259	0.206	ug/l #	68
76) 1,2,3-Trichloropropane	11.13	75	166435	22.704	ug/l #	34
80) 1,3,5-Trimethylbenzene	11.50	105	13430	0.650	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	166435	60.024	ug/l #	12
88) 1,4-Dichlorobenzene	12.09	146	925	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.65	180	948	Below Cal		96
96) 1,2,3-Trichlorobenzene	14.01	180	594	Below Cal	#	76

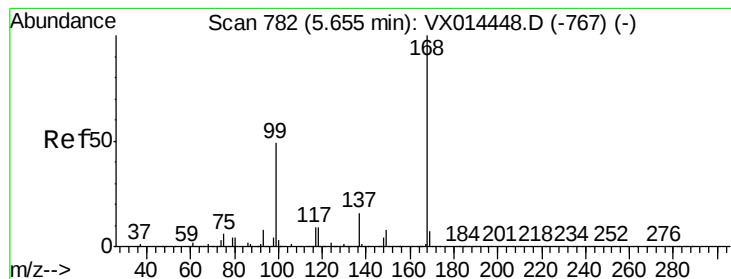
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX0144468.D

Acq: 08 Jan 2020 14:01

Instrument :

MSVOA_X

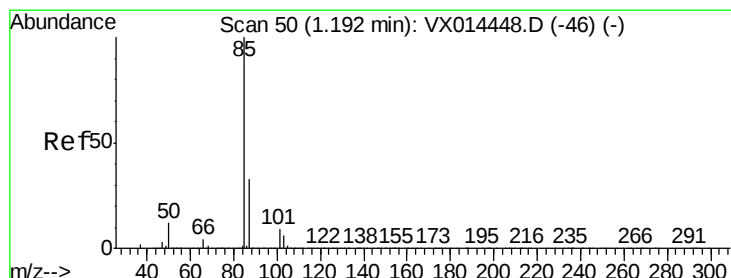
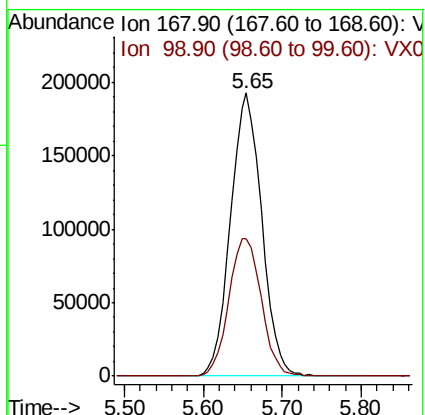
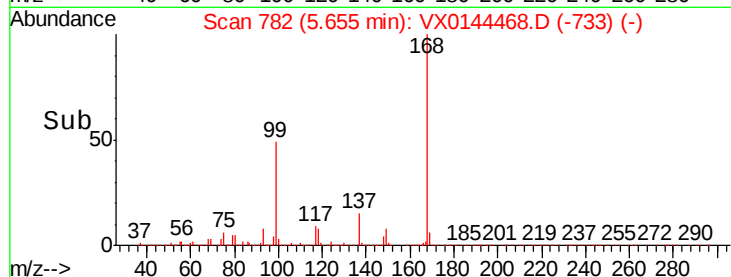
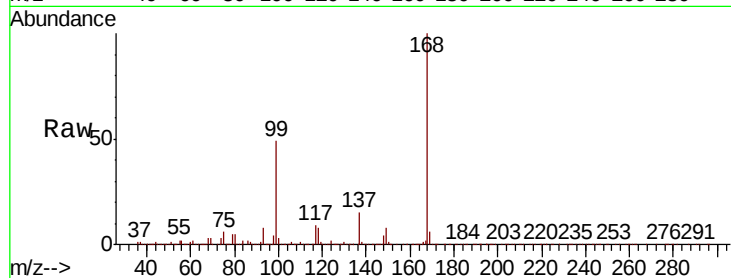
ClientSampleId :

Tot Ion:168 Resp: 529780

Ion Ratio Lower Upper

168 100

99 48.5 39.2 58.8



#2

Dichlorodifluoromethane

Concen: 0.371 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX0144468.D

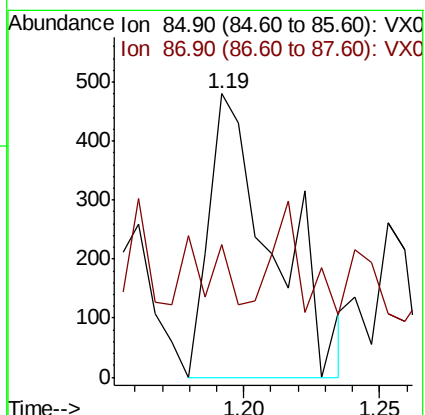
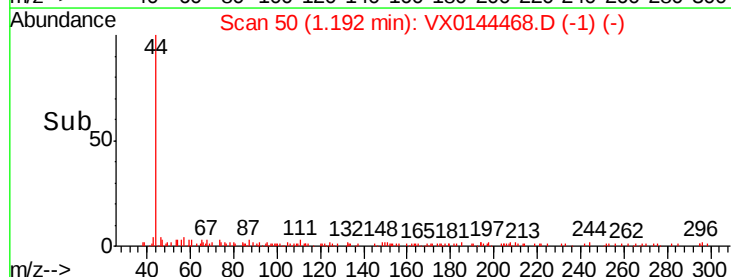
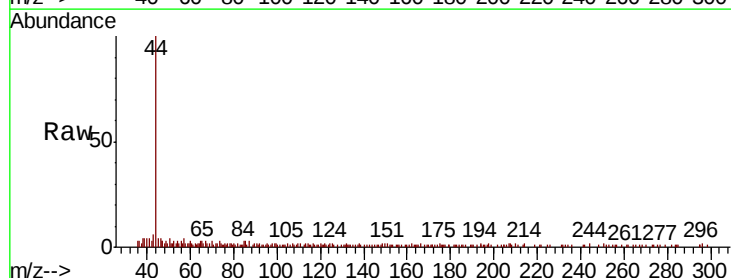
Acq: 08 Jan 2020 14:01

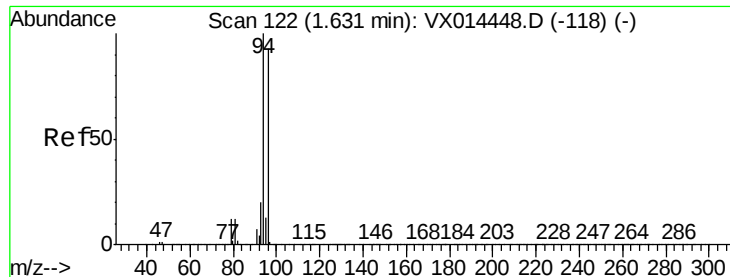
Tgt Ion: 85 Resp: 784

Ion Ratio Lower Upper

85 100

87 24.8 16.5 49.5





#5

Bromomethane

Concen: 0.334 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

Instrument :

MSVOA_X

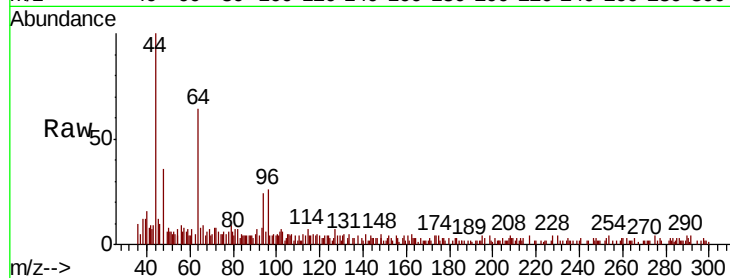
ClientSampleId :

Tot Ion: 94 Resp: 1667

Ion Ratio Lower Upper

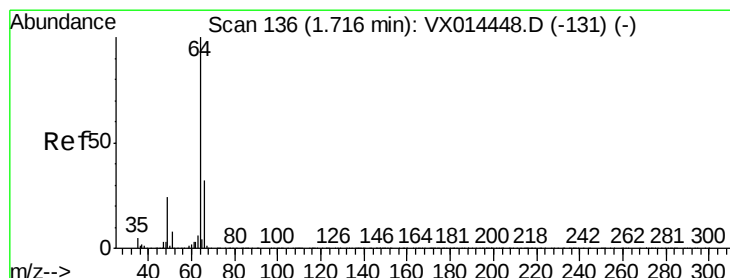
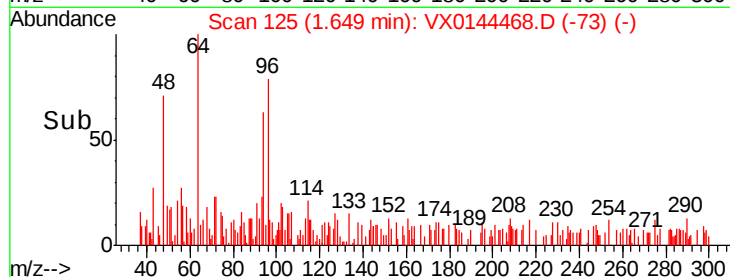
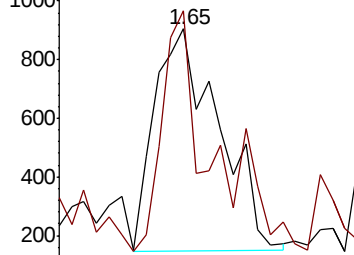
94 100

96 108.5 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX0144468.D

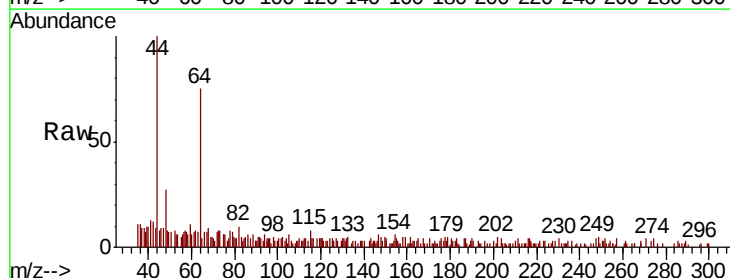
Acq: 08 Jan 2020 14:01

Tgt Ion: 64 Resp: 1067

Ion Ratio Lower Upper

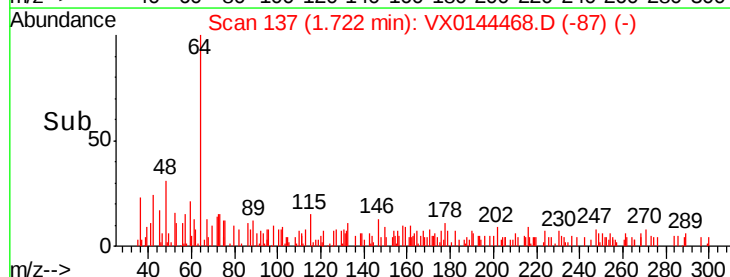
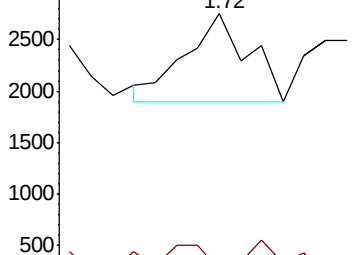
64 100

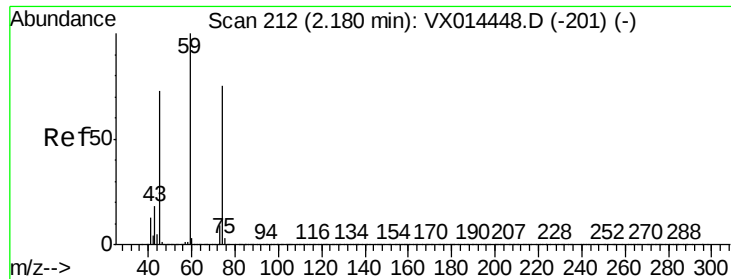
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.590 ug/l

RT: 2.19 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

Instrument :

MSVOA_X

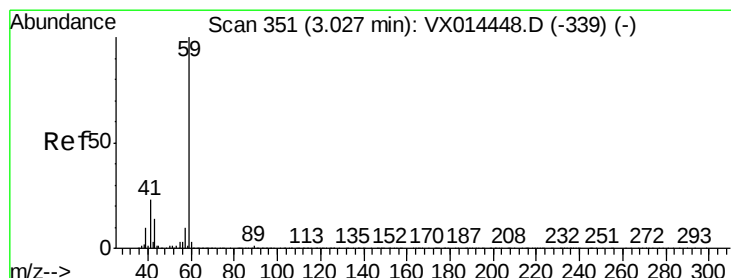
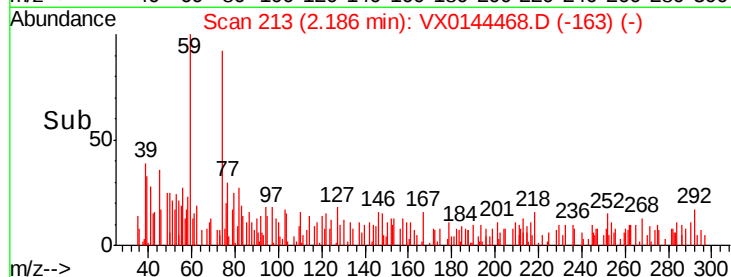
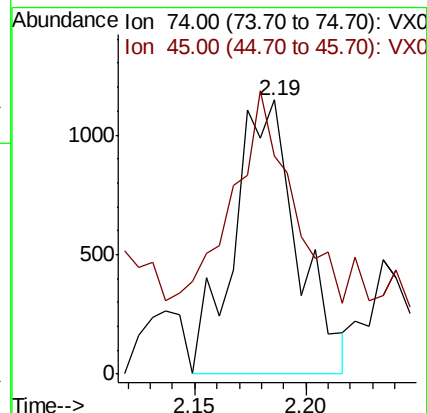
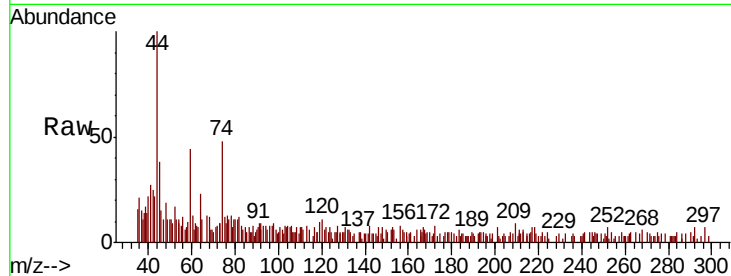
ClientSampled :

Tot Ion: 74 Resp: 2298

Ion Ratio Lower Upper

74 100

45 65.0 48.7 146.1



#11

Tert butyl alcohol

Concen: 2.155 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.02 min

Lab File: VX0144468.D

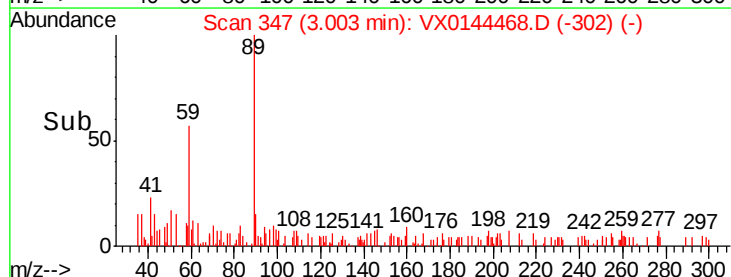
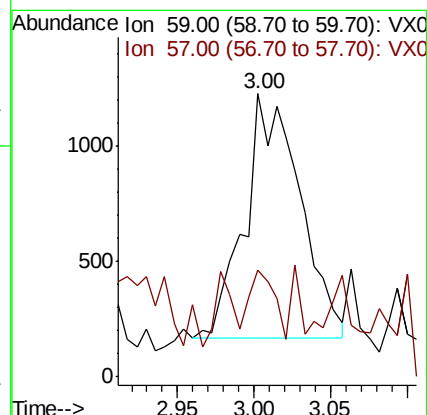
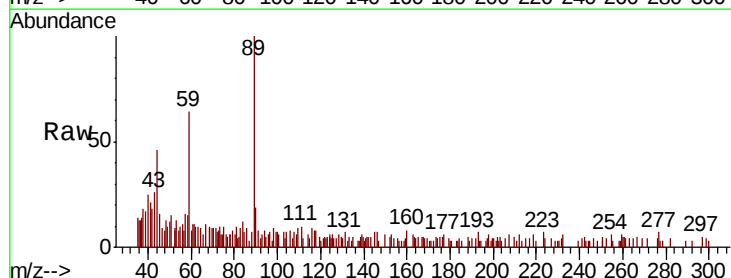
Acq: 08 Jan 2020 14:01

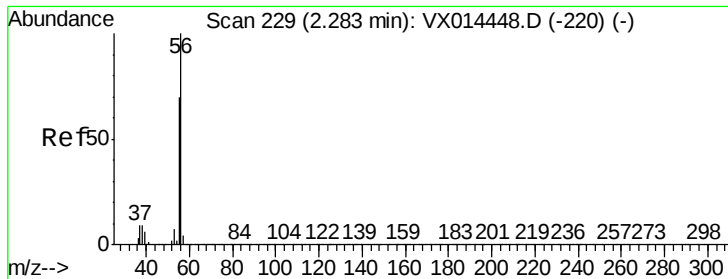
Tgt Ion: 59 Resp: 2661

Ion Ratio Lower Upper

59 100

57 18.5 8.5 12.7#

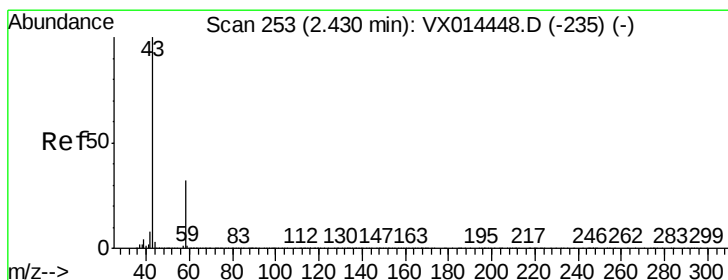
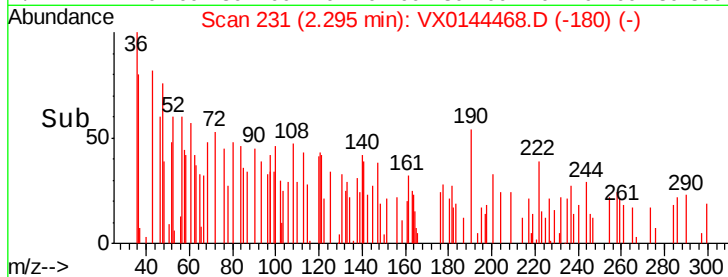
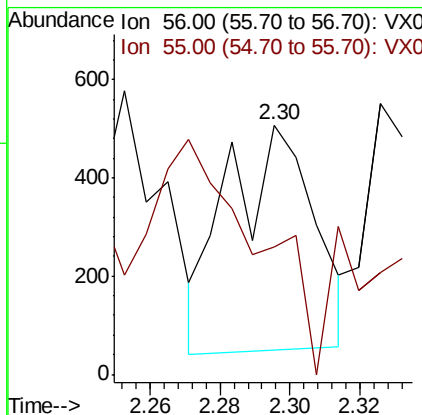
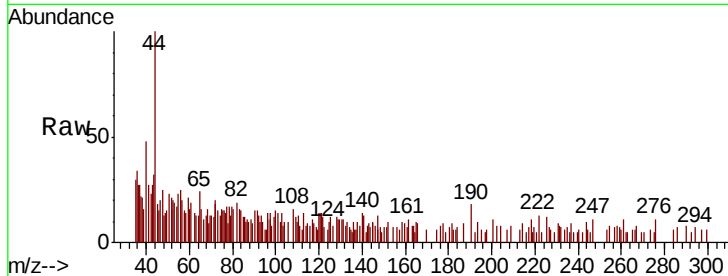




#13
Acrolein
Concen: 0.795 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

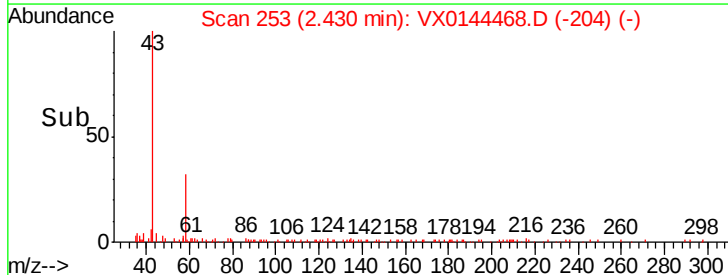
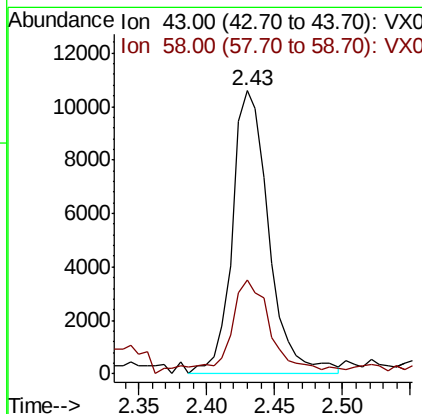
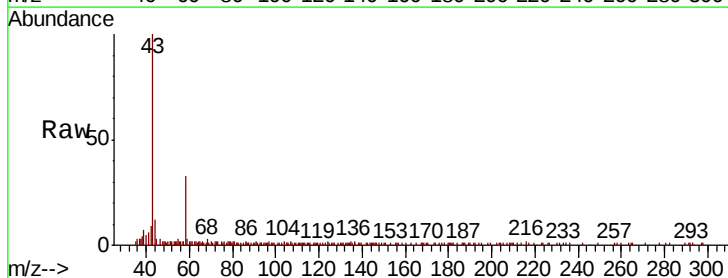
Instrument :
MSVOA_X
ClientSampleId :

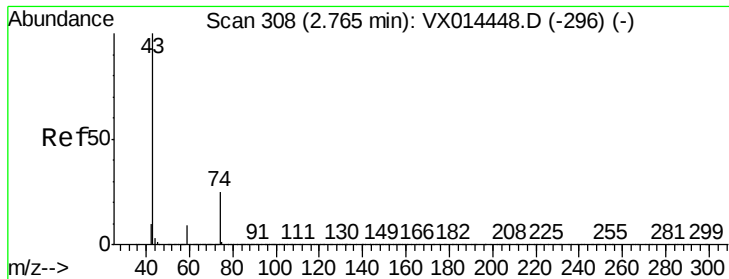
Tot Ion: 56 Resp: 787
Ion Ratio Lower Upper
56 100
55 0.0 55.0 82.6#



#16
Acetone
Concen: 2.571 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

Tgt Ion: 43 Resp: 19888
Ion Ratio Lower Upper
43 100
58 30.9 25.4 38.0

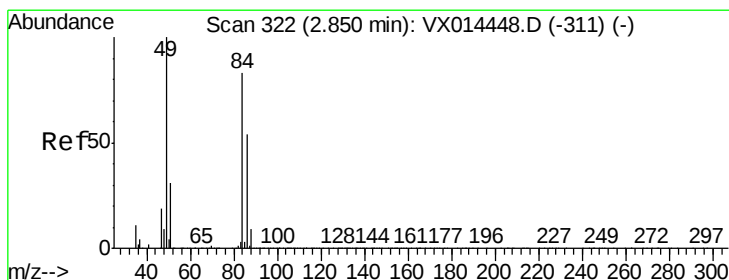
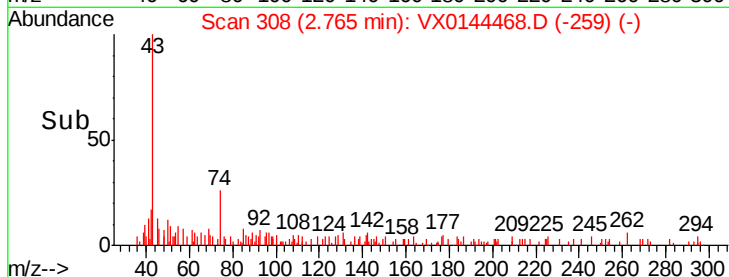
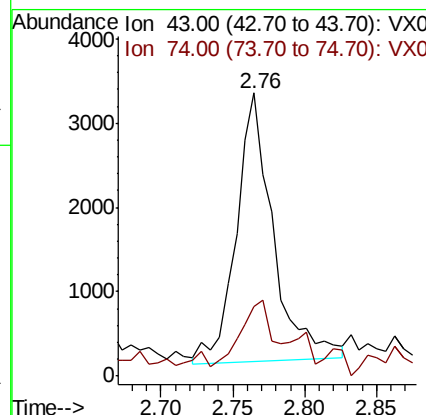
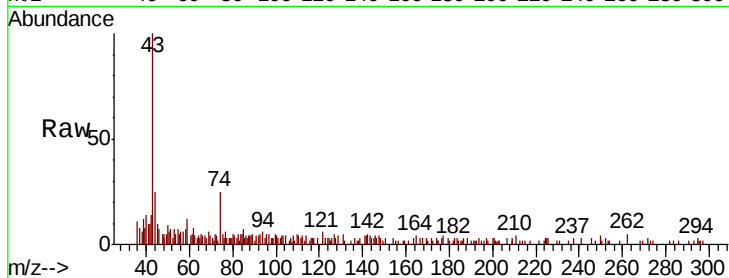




#18
Methyl Acetate
Concen: 0.671 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

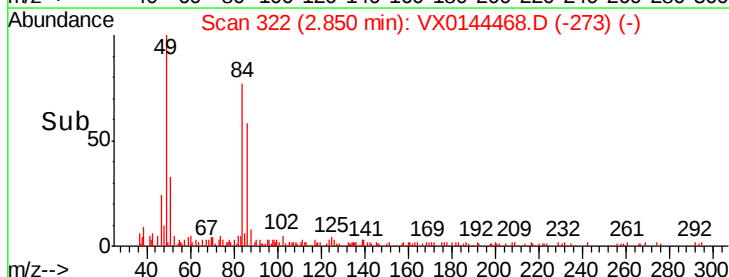
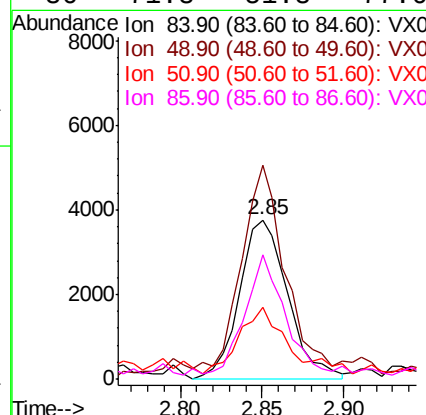
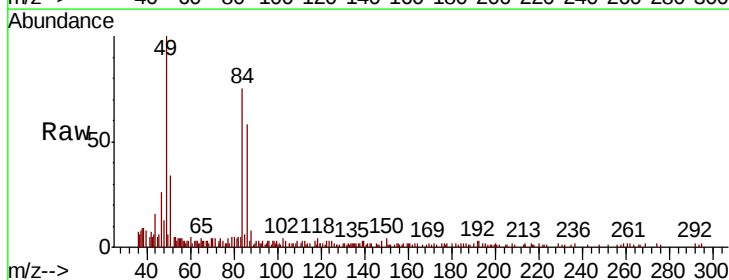
Instrument :
MSVOA_X
ClientSampleId :

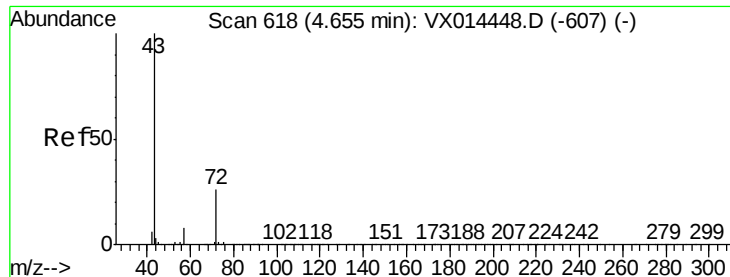
Tot Ion: 43 Resp: 5707
Ion Ratio Lower Upper
43 100
74 20.4 19.4 29.2



#20
Methylene Chloride
Concen: 1.299 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

Tgt Ion: 84 Resp: 7726
Ion Ratio Lower Upper
84 100
49 127.8 95.8 143.8
51 38.3 30.2 45.4
86 71.8 51.8 77.6

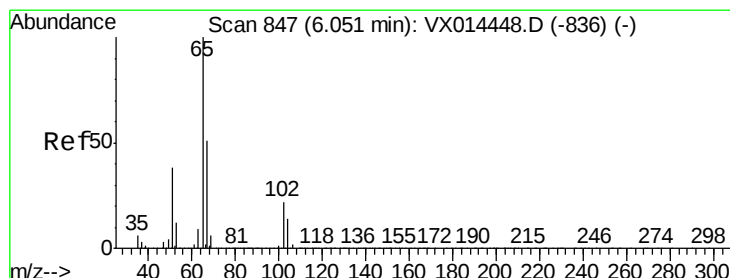
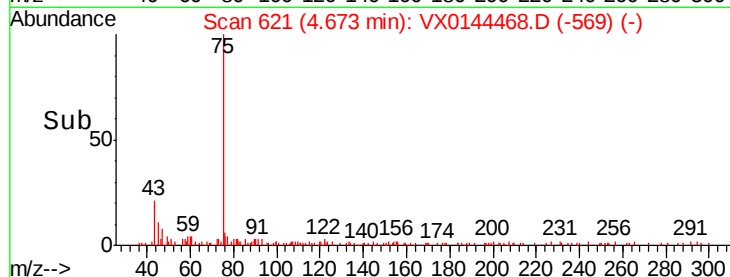
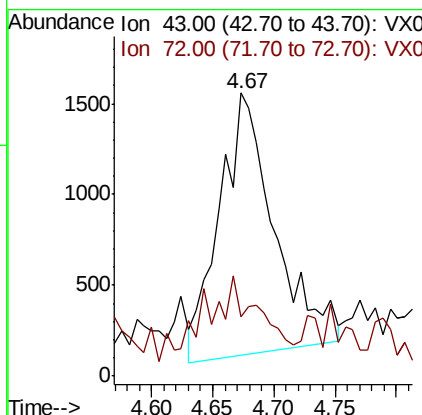
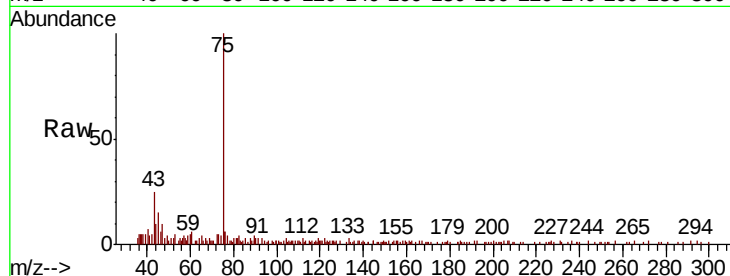




#25
2-Butanone
Concen: 1.020 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

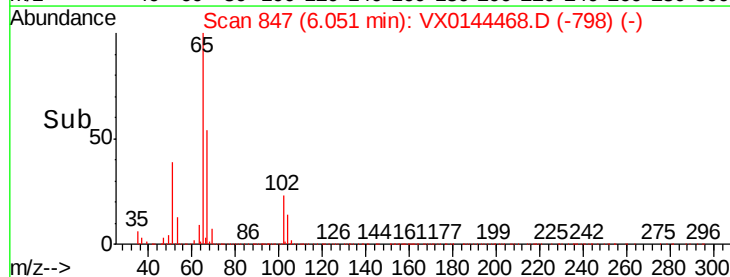
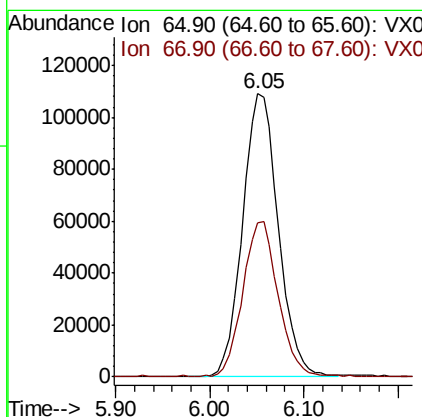
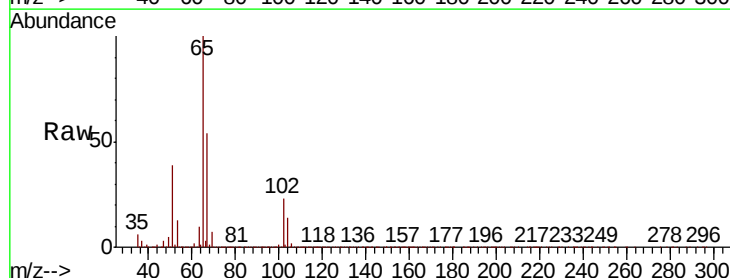
Instrument :
MSVOA_X
ClientSampleId :

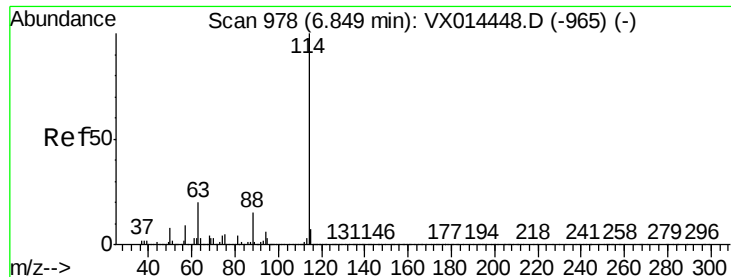
Tot Ion: 43 Resp: 4507
Ion Ratio Lower Upper
43 100
72 10.7 20.6 31.0#



#33
1,2-Dichloroethane-d4
Concen: 48.869 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

Tgt Ion: 65 Resp: 289016
Ion Ratio Lower Upper
65 100
67 54.4 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

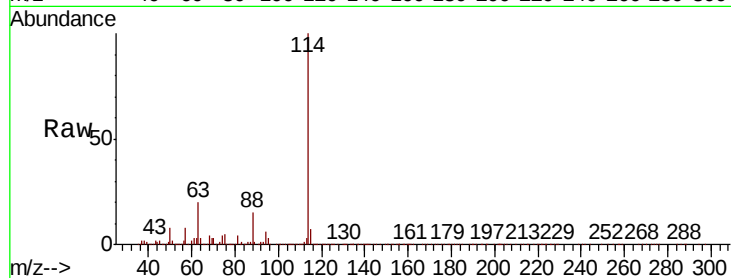
Tot Ion:114 Resp: 827201

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

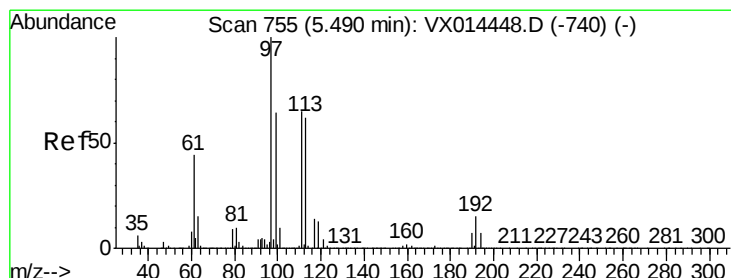
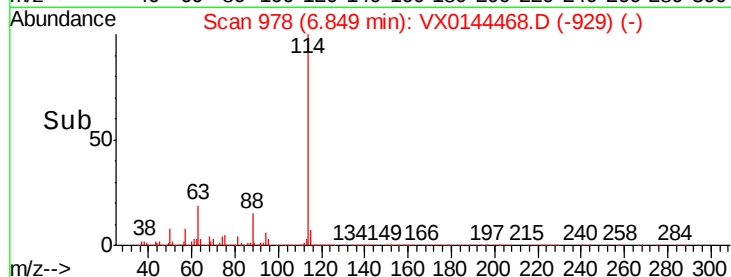
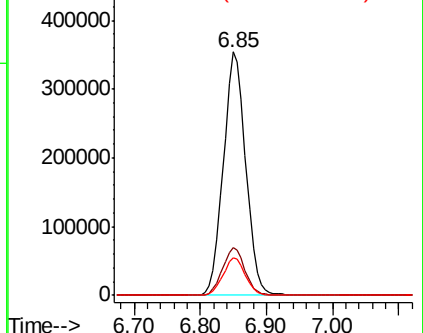
88 15.4 0.0 30.8



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



#35

Dibromofluoromethane

Concen: 48.481 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

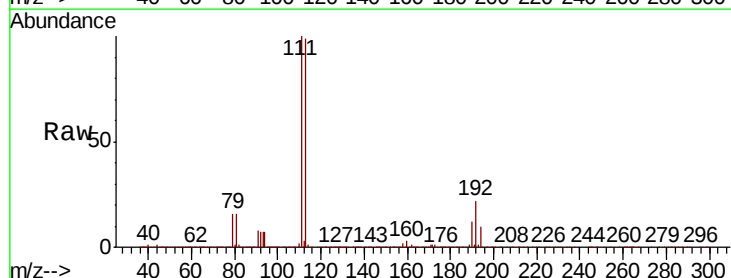
Tgt Ion:113 Resp: 242762

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

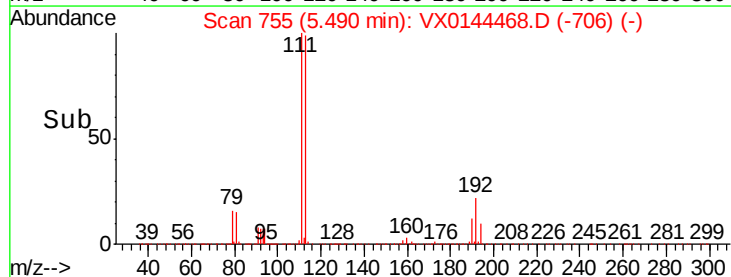
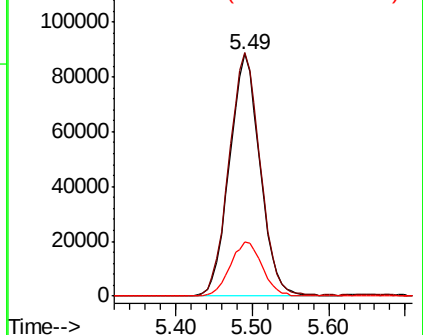
192 23.8 19.2 28.8

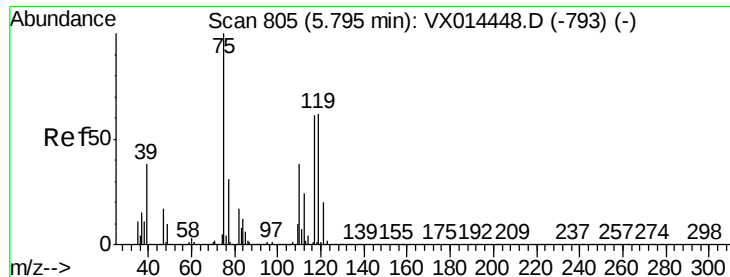


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.680 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

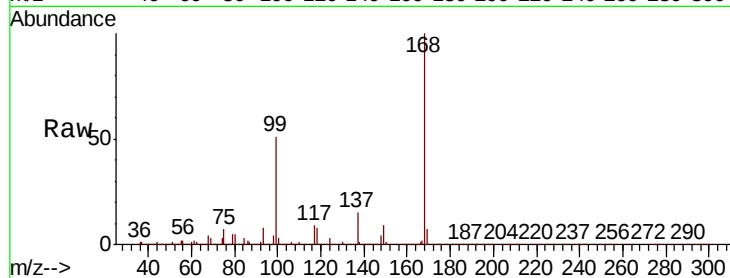
Tot Ion: 75 Resp: 36404

Ion Ratio Lower Upper

75 100

110 10.5 18.6 55.8#

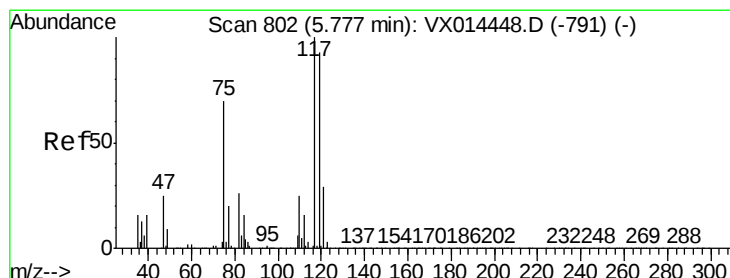
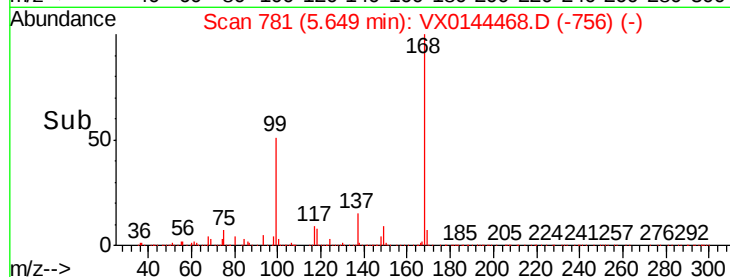
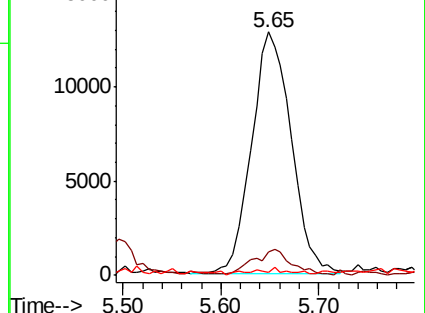
77 0.6 24.5 36.7#



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: 6.524 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

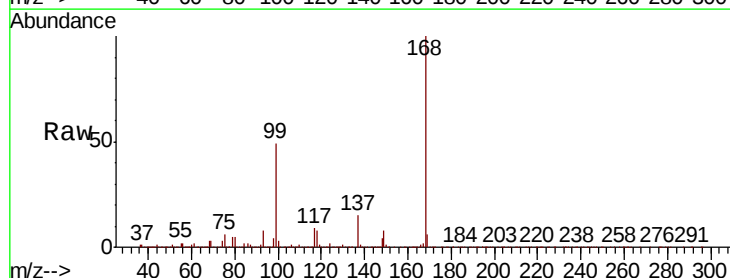
Tgt Ion: 117 Resp: 46699

Ion Ratio Lower Upper

117 100

119 6.2 73.8 110.8#

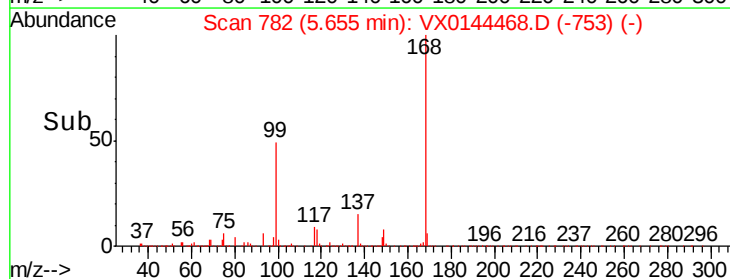
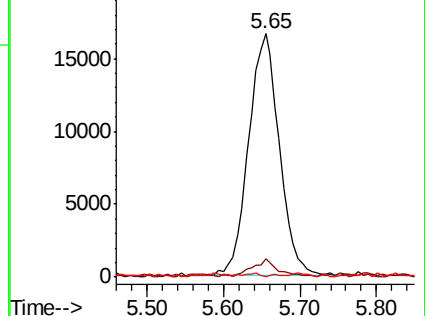
121 0.0 23.4 35.0#

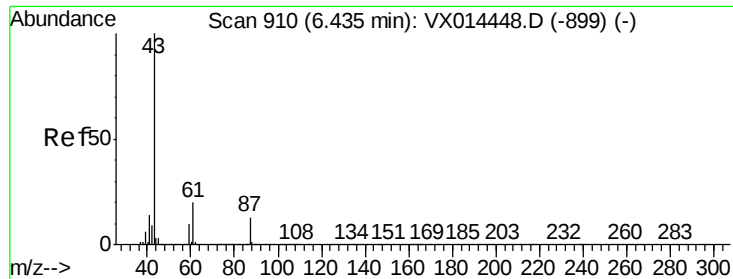


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



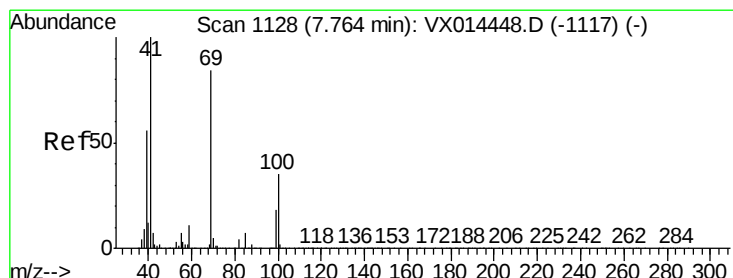
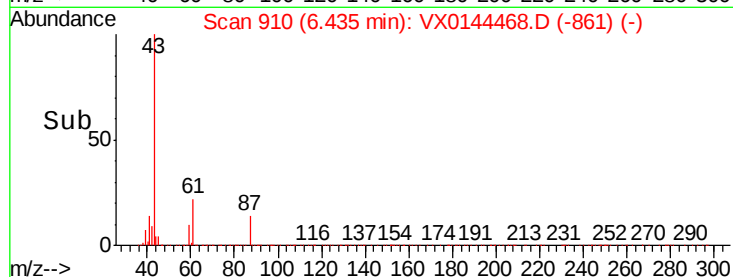
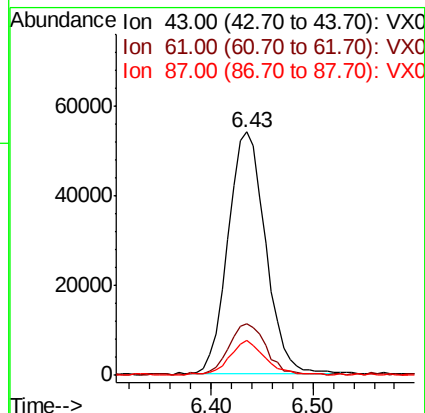
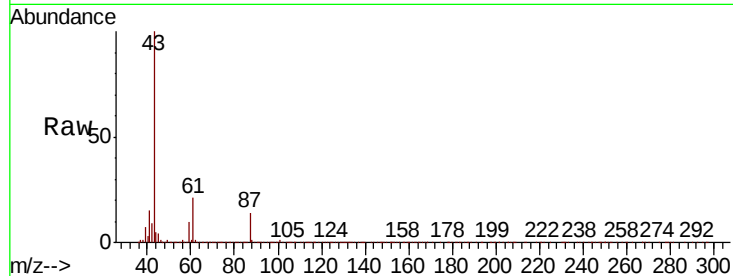


#43

Isopropyl Acetate
 Concen: 10.110 ug/l
 RT: 6.43 min Scan# 910
 Delta R.T. 0.00 min
 Lab File: VX0144468.D
 Acq: 08 Jan 2020 14:01

Instrument :
 MSVOA_X
 ClientSampleId :

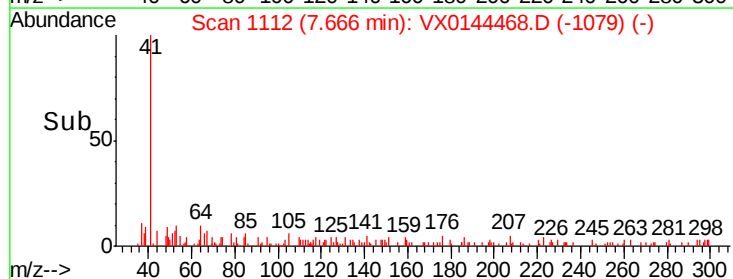
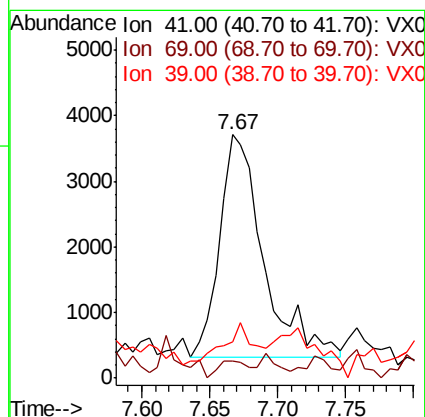
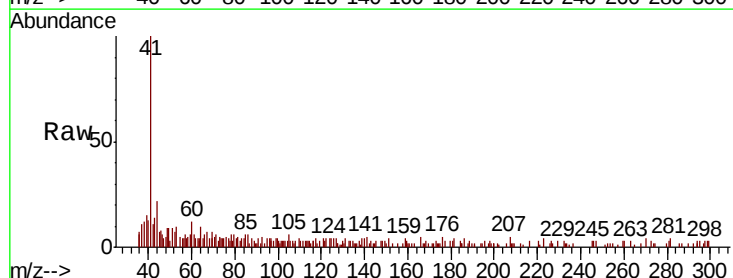
Tot Ion	43	Resp	138005
Ion Ratio	Lower	Upper	
43	100		
61	22.1	16.6	24.8
87	13.4	10.8	16.2

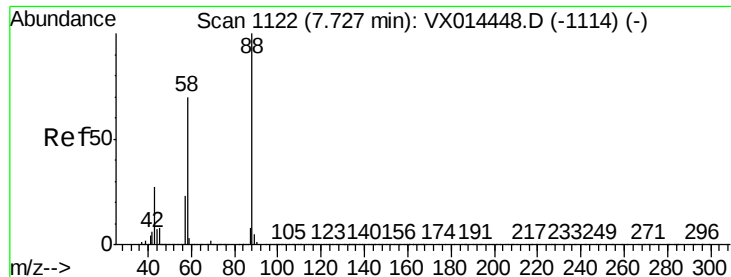


#48

Methyl methacrylate
 Concen: 1.171 ug/l
 RT: 7.67 min Scan# 1112
 Delta R.T. -0.10 min
 Lab File: VX0144468.D
 Acq: 08 Jan 2020 14:01

Tgt Ion	41	Resp	7655
Ion Ratio	Lower	Upper	
41	100		
69	5.9	65.5	98.3#
39	0.0	43.9	65.9#





#49

1,4-Dioxane

Concen: 1.494 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.00 min

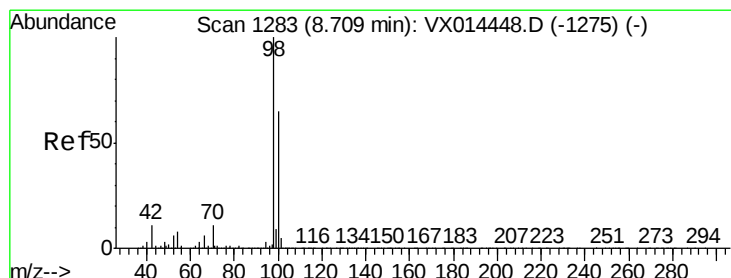
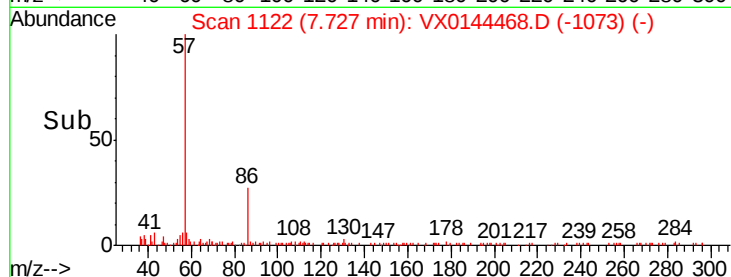
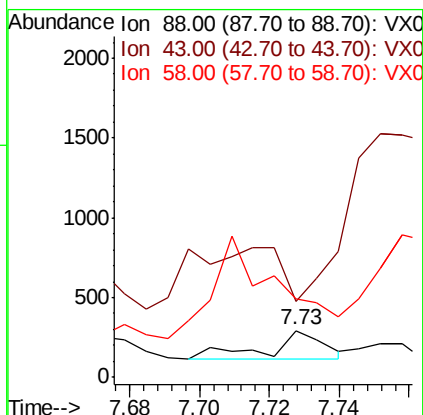
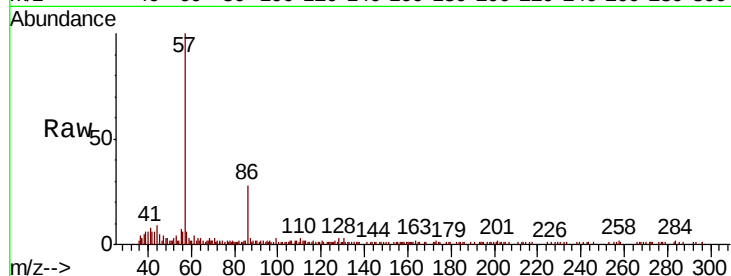
Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 207

Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.4	41.0#
58	413.5	57.1	85.7#



#50

Toluene-d8

Concen: 50.389 ug/l

RT: 8.71 min Scan# 1283

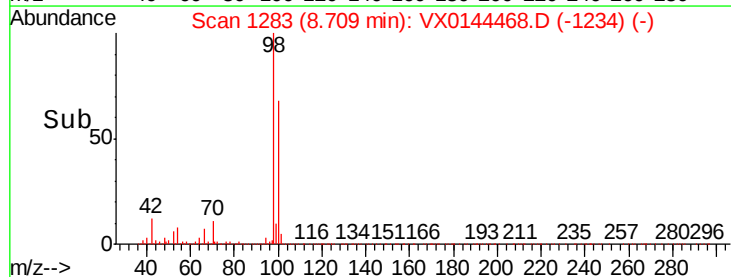
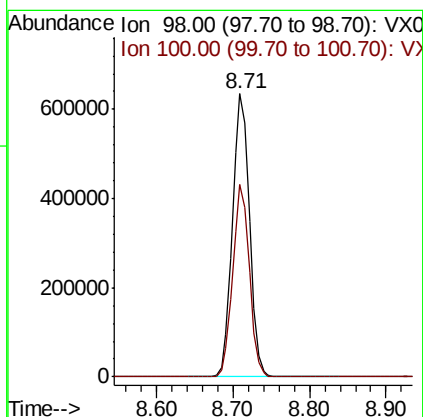
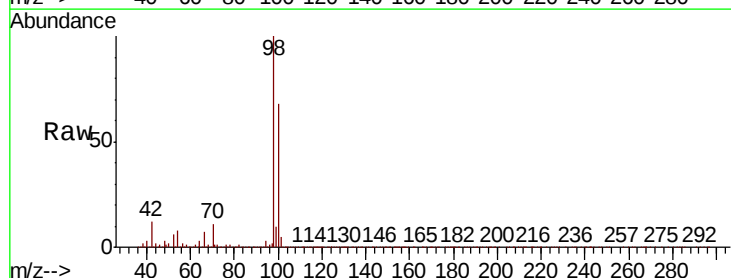
Delta R.T. 0.00 min

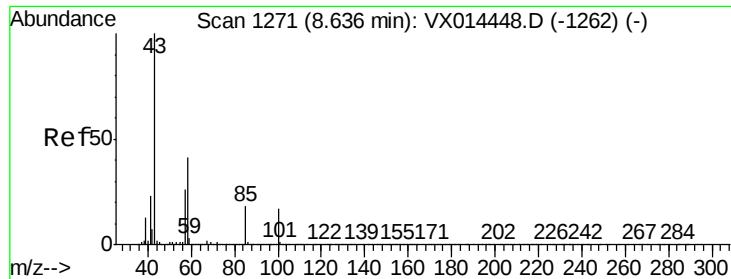
Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

Tgt Ion: 98 Resp: 979157

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.2	79.8

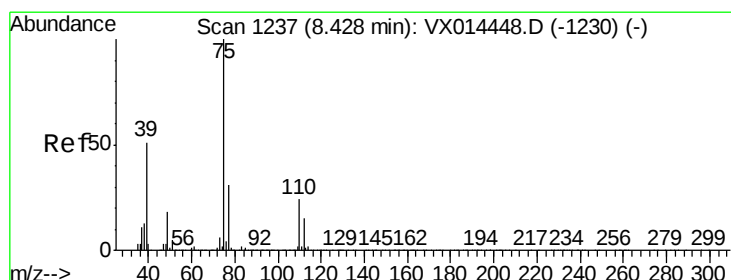
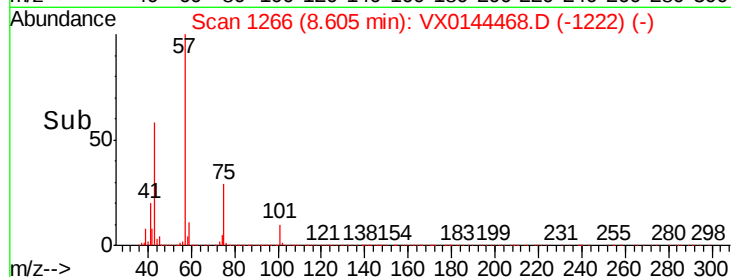
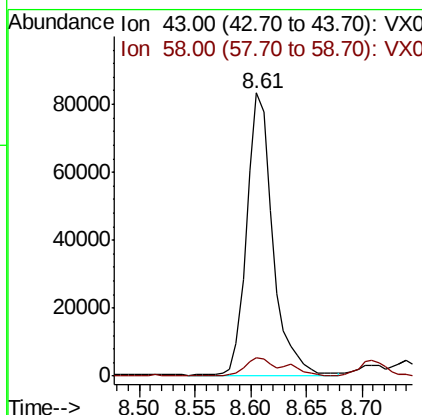
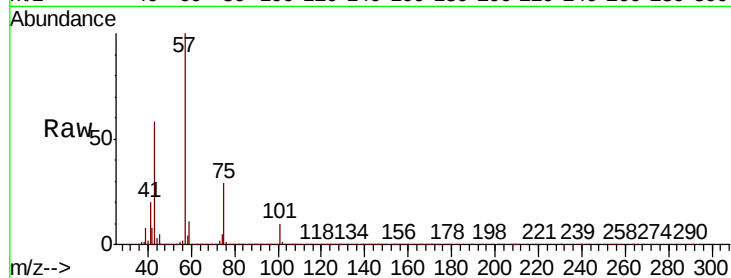




#51
 4-Methyl-2-Pentanone
 Concen: 16.174 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. -0.03 min
 Lab File: VX0144468.D
 Acq: 08 Jan 2020 14:01

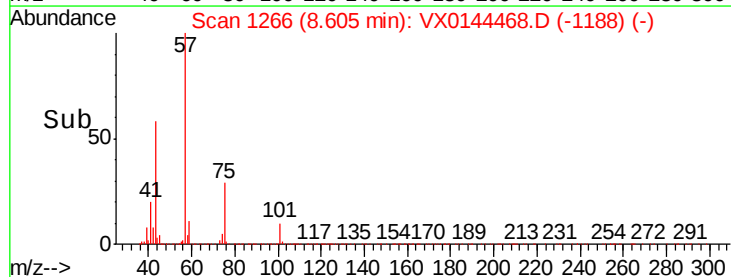
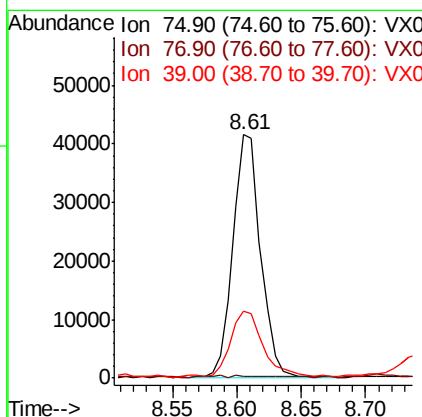
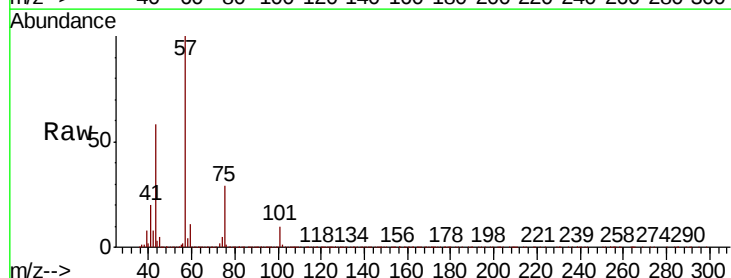
Instrument :
 MSVOA_X
 ClientSampled :

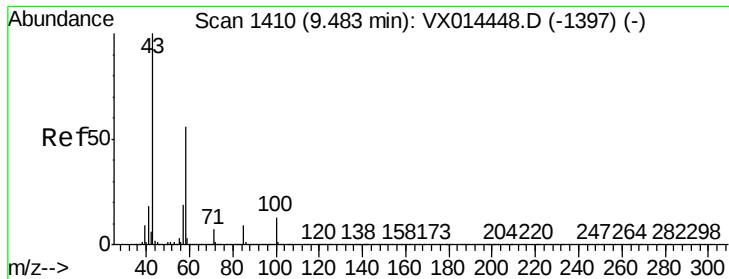
Tot Ion: 43 Resp: 134530
 Ion Ratio Lower Upper
 43 100
 58 6.6 32.4 48.6#



#54
 cis-1,3-Dichloropropene
 Concen: 6.700 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. 0.18 min
 Lab File: VX0144468.D
 Acq: 08 Jan 2020 14:01

Tgt Ion: 75 Resp: 62996
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.0 37.4#
 39 26.8 40.7 61.1#

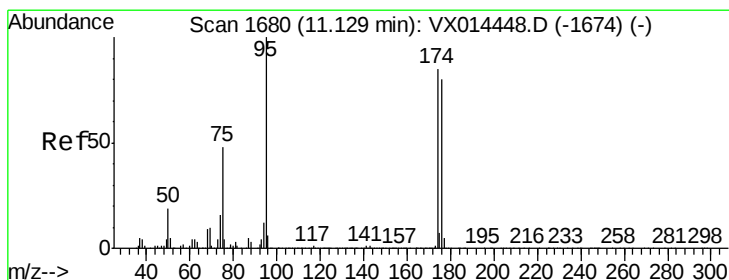
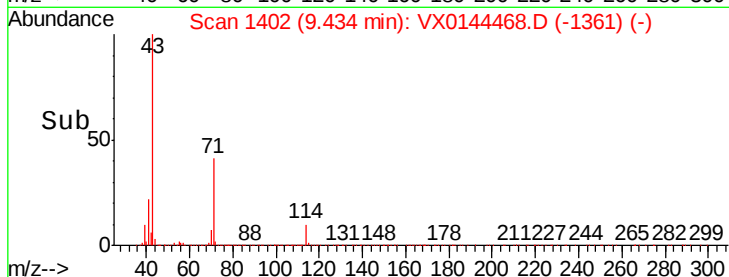
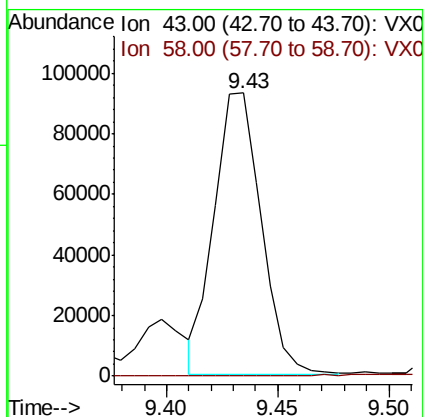
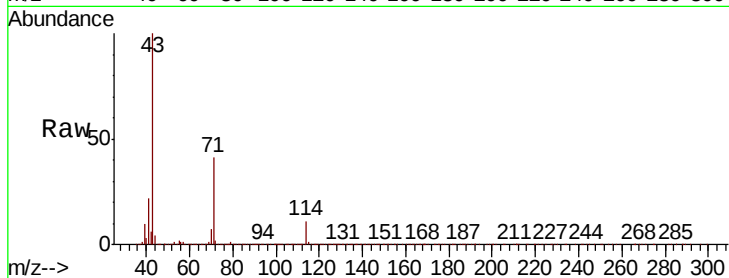




#59
2-Hexanone
Concen: 20.830 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

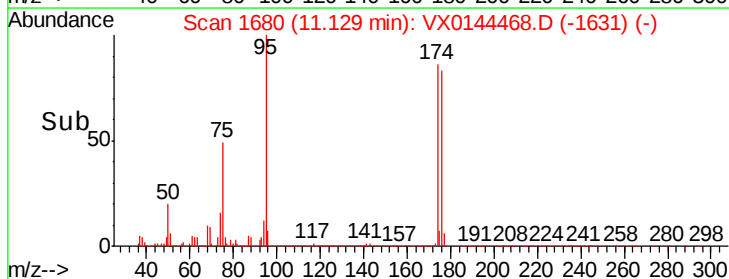
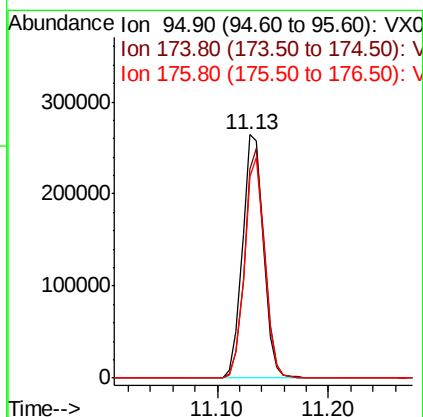
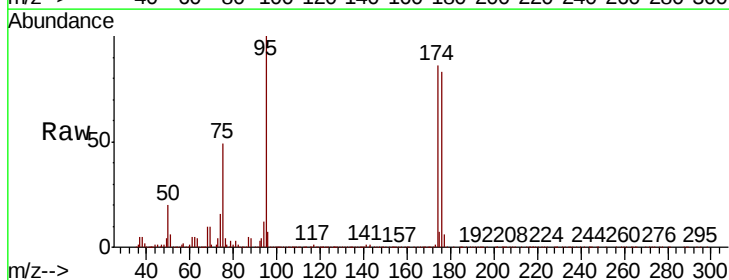
Instrument :
MSVOA_X
ClientSampled :

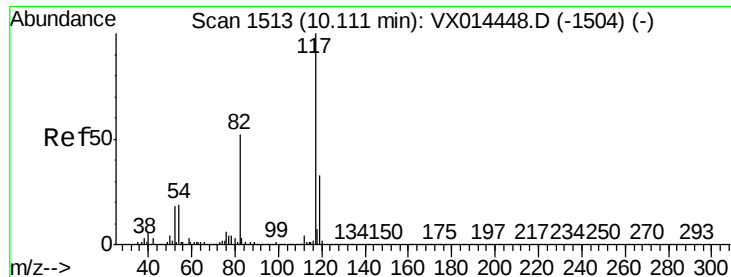
Tot Ion: 43 Resp: 137094
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 48.092 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

Tgt Ion: 95 Resp: 343076
Ion Ratio Lower Upper
95 100
174 90.2 0.0 180.8
176 86.8 0.0 172.8

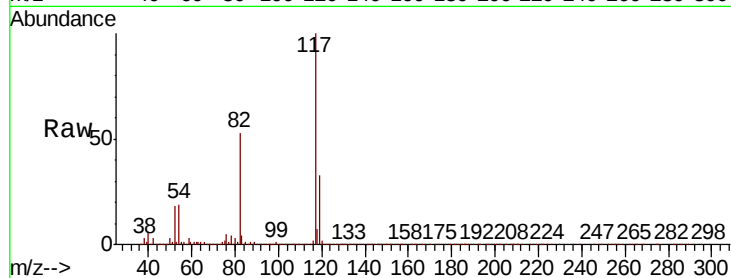




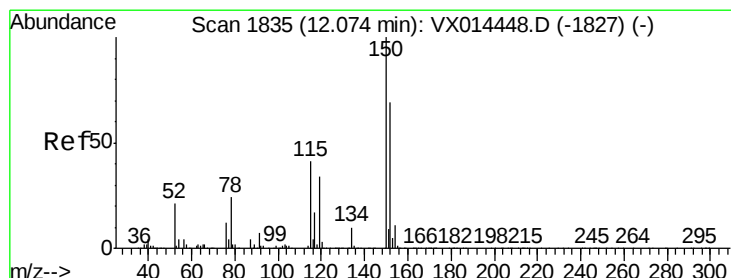
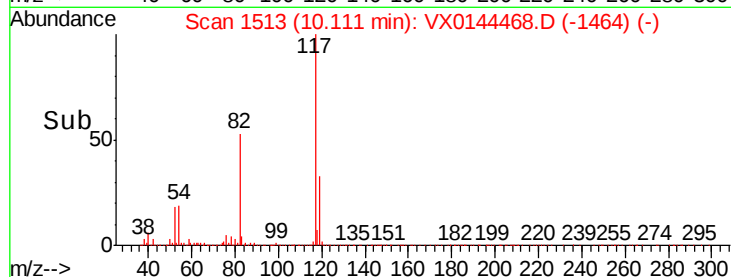
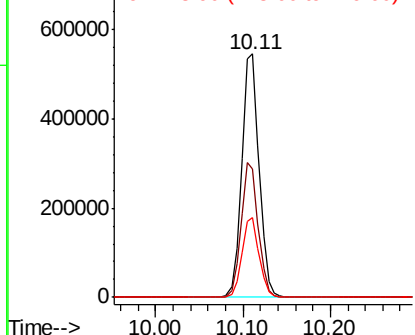
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	41.8	62.6
119	32.9	26.2	39.4

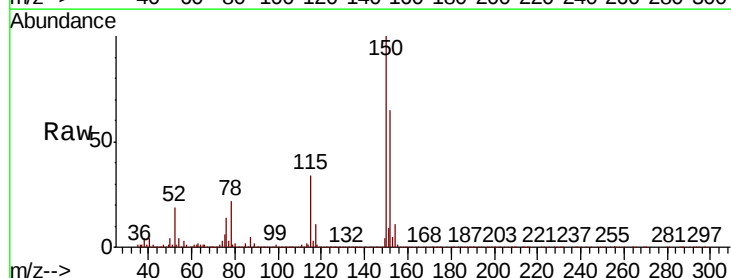


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

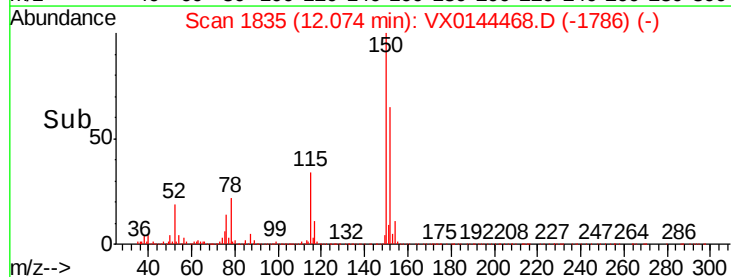
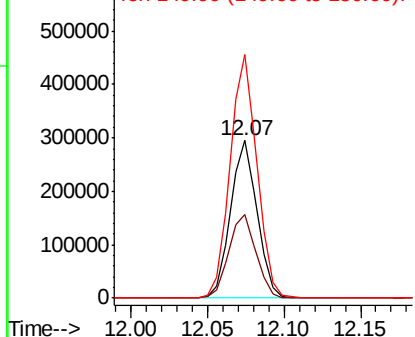


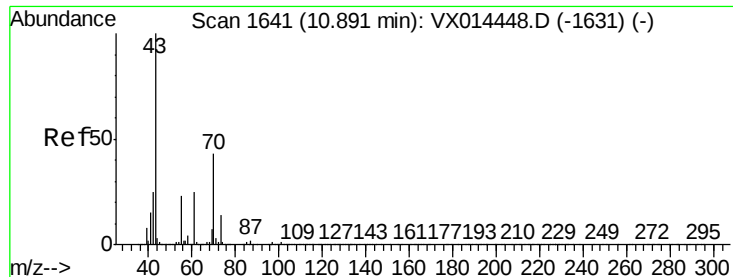
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX0144468.D
Acq: 08 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	39.5	118.3
150	155.7	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-amvl acetate

Concen: 0.206 ug/l

RT: 10.86 min Scan# 1636

Delta R.T. -0.03 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 2259

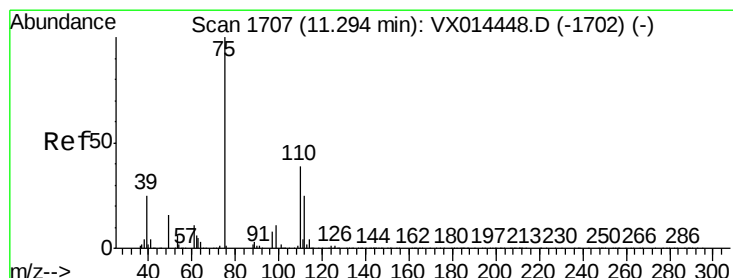
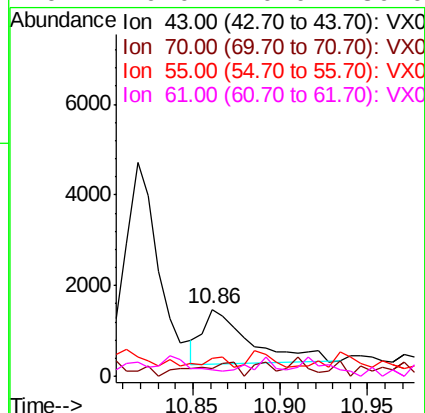
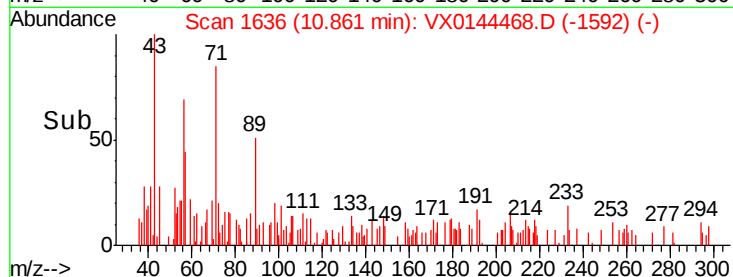
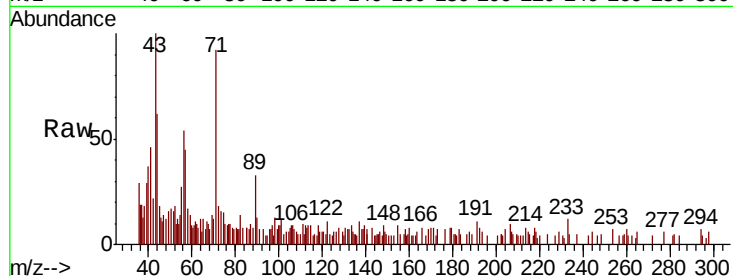
Ion Ratio Lower Upper

43 100

70 23.3 35.1 52.7#

55 16.5 19.3 28.9#

61 0.0 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 22.704 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX0144468.D

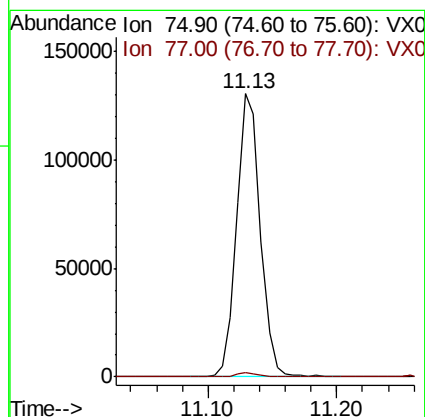
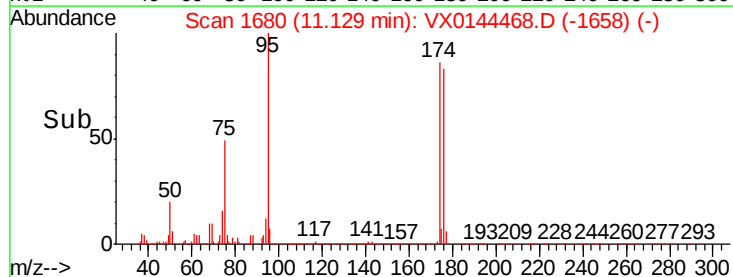
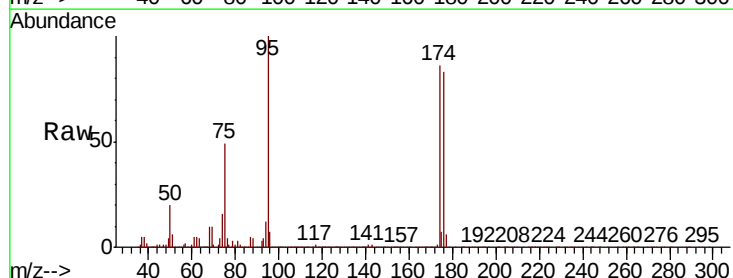
Acq: 08 Jan 2020 14:01

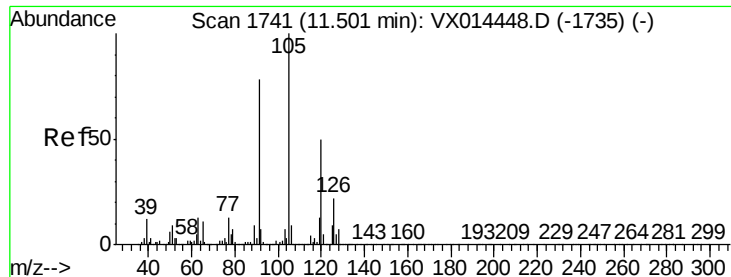
Tgt Ion: 75 Resp: 166435

Ion Ratio Lower Upper

75 100

77 1.4 21.9 65.7#





#80

1,3,5-Trimethylbenzene

Concen: 0.650 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

Instrument :

MSVOA_X

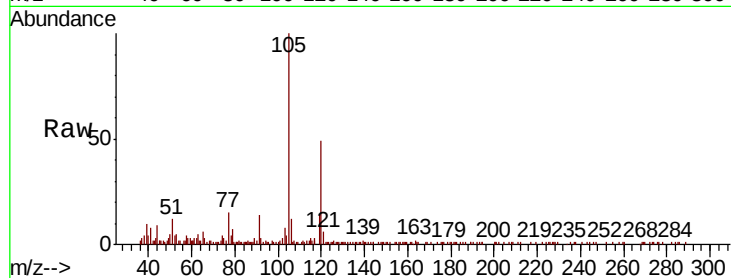
ClientSampleId :

Tot Ion:105 Resp: 13430

Ion Ratio Lower Upper

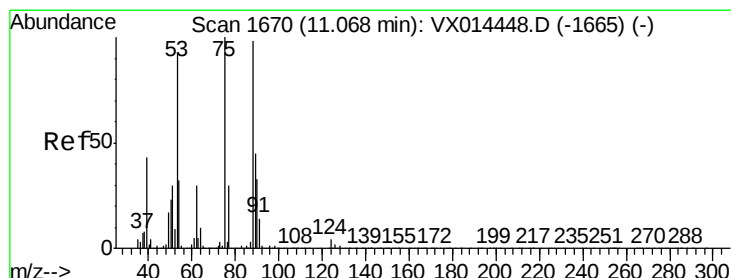
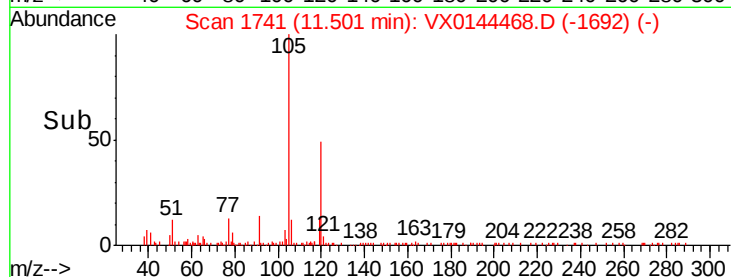
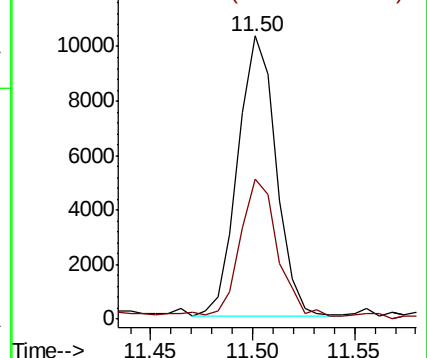
105 100

120 52.1 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 60.024 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

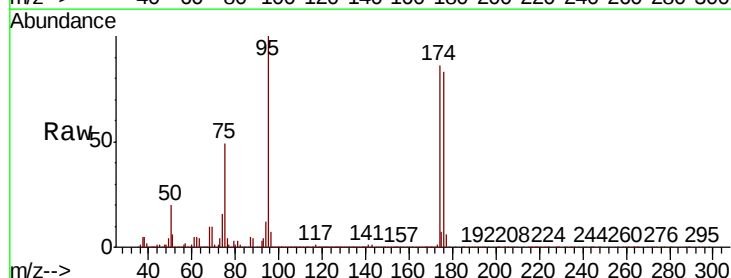
Tgt Ion: 75 Resp: 166435

Ion Ratio Lower Upper

75 100

53 0.2 74.8 112.2#

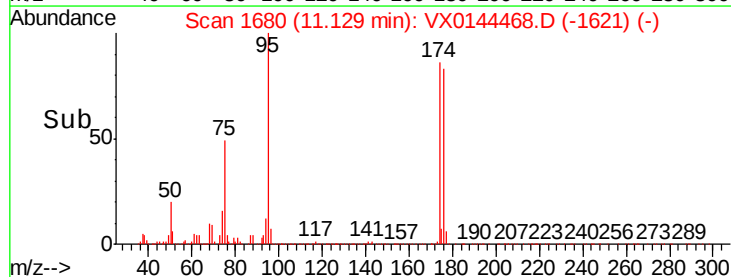
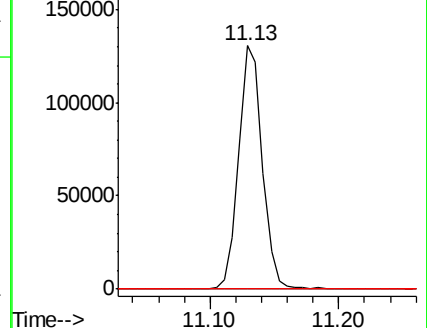
89 0.0 36.3 54.5#

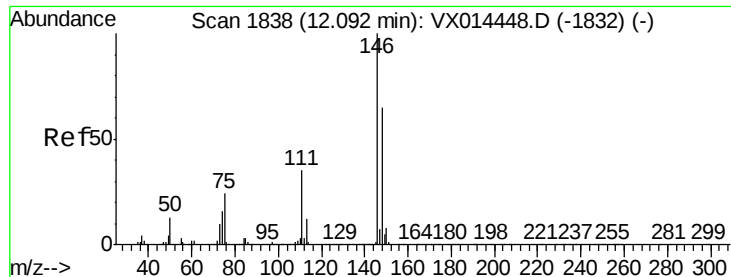


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX0144468.D

Acq: 08 Jan 2020 14:01

Instrument :

MSVOA_X

ClientSampleId :

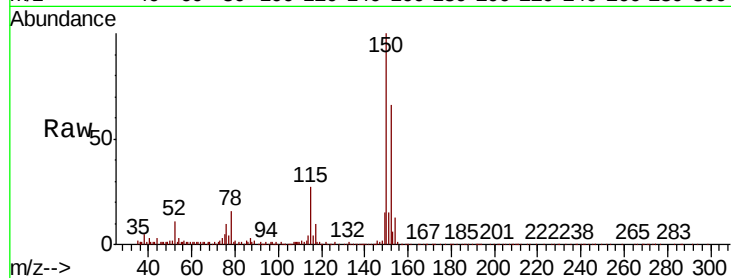
Tot Ion:146 Resp: 925

Ion Ratio Lower Upper

146 100

111 484.1 18.1 54.1#

148 250.3 32.1 96.3#



Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

