

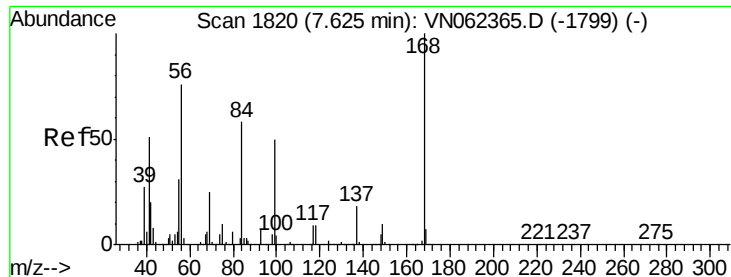
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070620\
 Data File : VN062381.D
 Acq On : 6 Jul 2020 22:45
 Operator : JC/MD
 Sample : L3205-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 12013

Quant Time: Jul 07 05:22:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070620W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 07 05:08:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	921751	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	1666220	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	1667595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	620869	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	839082	50.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.64%	
35) Dibromofluoromethane	7.55	113	569381	50.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.18%	
50) Toluene-d8	10.06	98	2175704	51.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.40%	
62) 4-Bromofluorobenzene	12.38	95	779931	47.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.86%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.37	74	2035	0.288	ug/l	51
11) Tert butyl alcohol	4.74	59	917	0.397	ug/l #	1
13) Acrolein	3.58	56	394	0.738	ug/l #	60
16) Acetone	3.78	43	284265	36.980	ug/l	95
17) Carbon Disulfide	4.01	76	6240	0.208	ug/l #	76
18) Methyl Acetate	4.28	43	7898	Below Cal		96
20) Methylene Chloride	4.50	84	107057	8.288	ug/l	95
23) Vinyl Acetate	5.85	43	206	Below Cal	#	1
25) 2-Butanone	6.80	43	13663	1.411	ug/l #	83
31) Cyclohexane	7.63	56	30298	1.433	ug/l #	39
36) 1,1-Dichloropropene	7.63	75	88893	5.077	ug/l #	51
37) Ethyl Acetate	6.80	43	13663	0.658	ug/l #	74
38) Carbon Tetrachloride	7.63	117	104754	5.950	ug/l #	18
43) Isopropyl Acetate	8.13	43	281051	8.096	ug/l	99
48) Methyl methacrylate	9.15	41	19428	1.096	ug/l #	19
49) 1,4-Dioxane	9.17	88	950	3.948	ug/l #	18
51) 4-Methyl-2-Pentanone	9.95	43	34241	1.334	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	76566	3.467	ug/l #	65
59) 2-Hexanone	10.74	43	117473	8.349	ug/l #	56
71) Bromoform	12.38	173	3658	0.362	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	441025	29.409	ug/l #	100
78) n-propylbenzene	12.50	91	313	0.288	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.38	75	441025	84.100	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.88	180	199	2.749	ug/l #	9
94) Hexachlorobutadiene	14.98	225	36	Below Cal	#	1
95) Naphthalene	15.10	128	1114	2.107	ug/l #	85

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

Instrument :

MSVOA_N

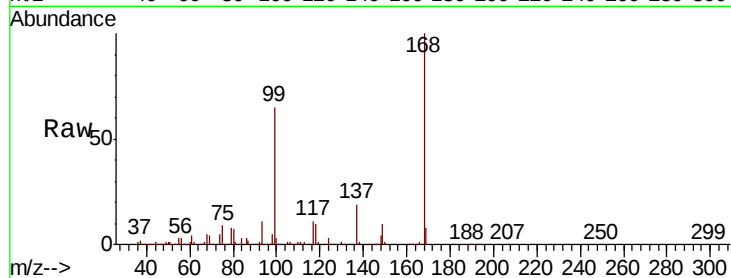
ClientSampled :
12013

Tot Ion:168 Resp: 921751

Ion Ratio Lower Upper

168 100

99 64.5 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

400000

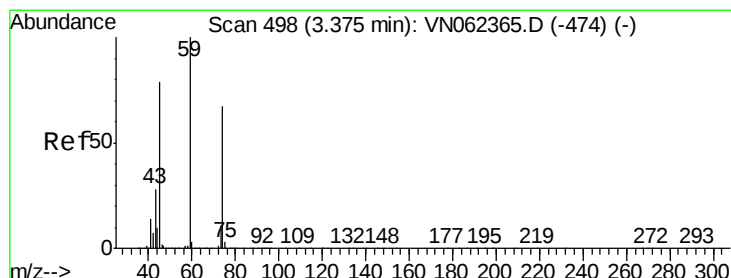
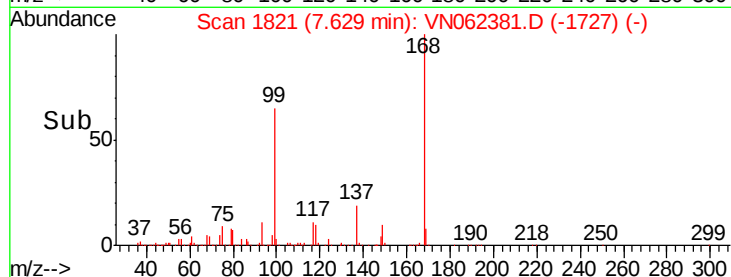
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.288 ug/l

RT: 3.37 min Scan# 497

Delta R.T. -0.00 min

Lab File: VN062381.D

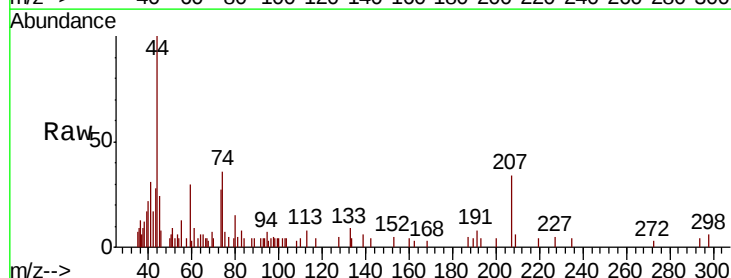
Acq: 6 Jul 2020 22:45

Tgt Ion: 74 Resp: 2035

Ion Ratio Lower Upper

74 100

45 65.1 59.9 179.7



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.37

2000

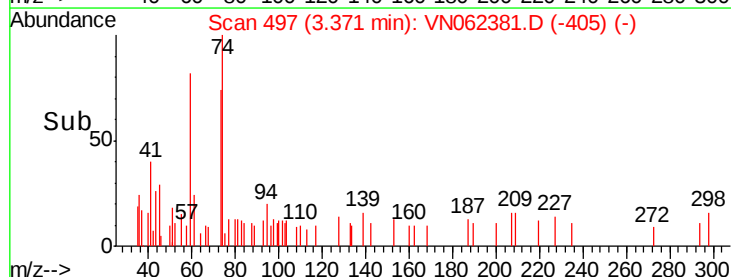
1500

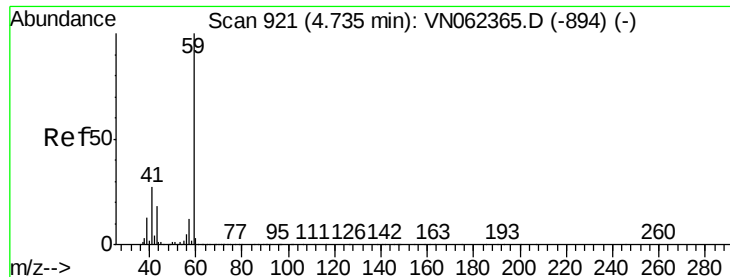
1000

500

0

Time-->

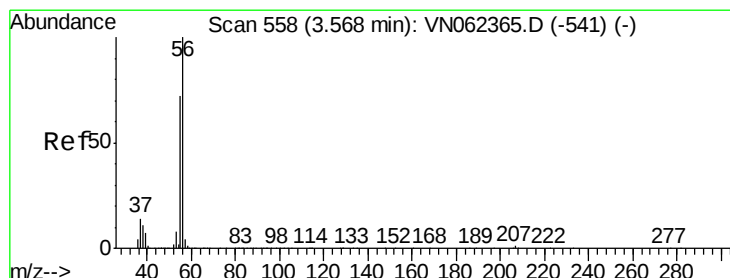
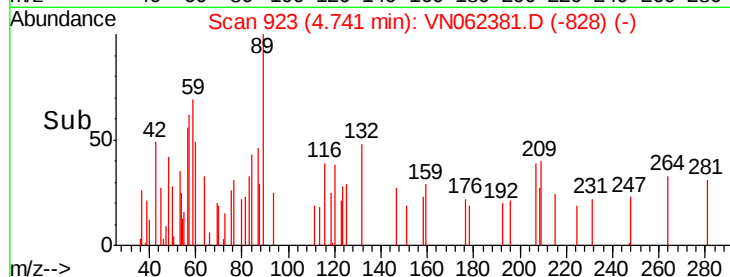
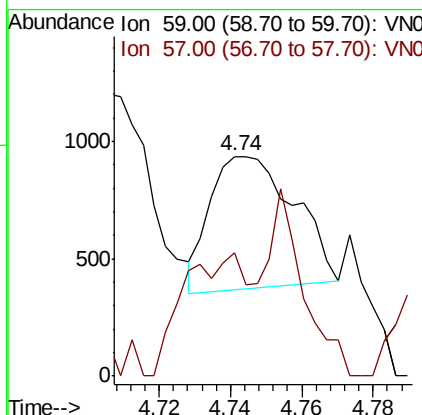
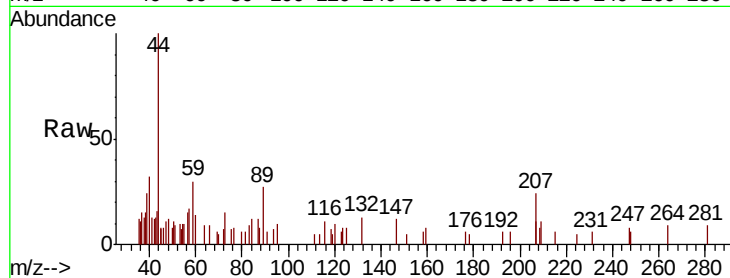




#11
Tert butyl alcohol
Concen: 0.397 ug/l
RT: 4.74 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

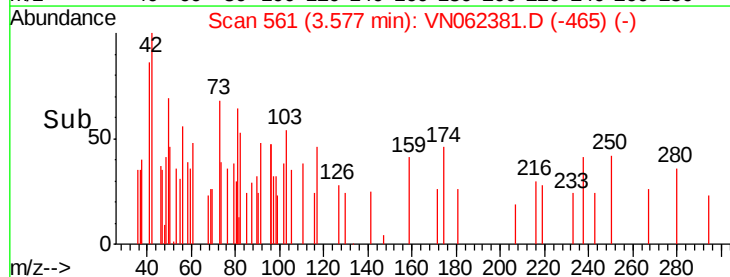
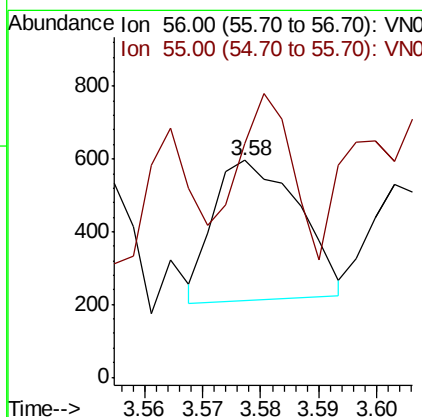
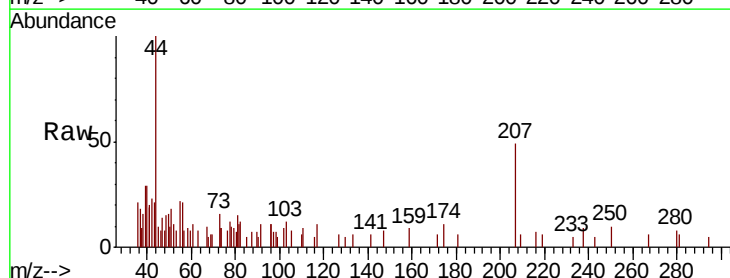
Instrument :
MSVOA_N
ClientSampled :
12013

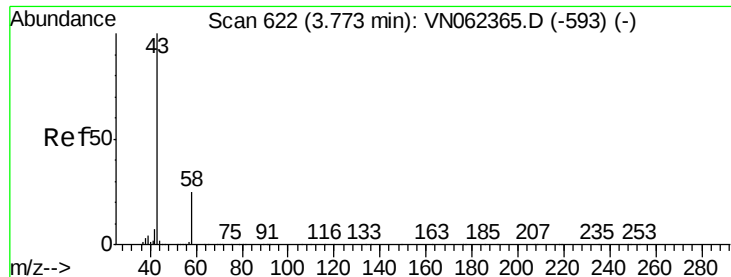
Tot Ion: 59 Resp: 917
Ion Ratio Lower Upper
59 100
57 67.9 8.5 12.7#



#13
Acrolein
Concen: 0.738 ug/l
RT: 3.58 min Scan# 561
Delta R.T. 0.01 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

Tgt Ion: 56 Resp: 394
Ion Ratio Lower Upper
56 100
55 108.1 59.6 89.4#





#16

Acetone

Concen: 36.980 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

Instrument :

MSVOA_N

ClientSampleId :

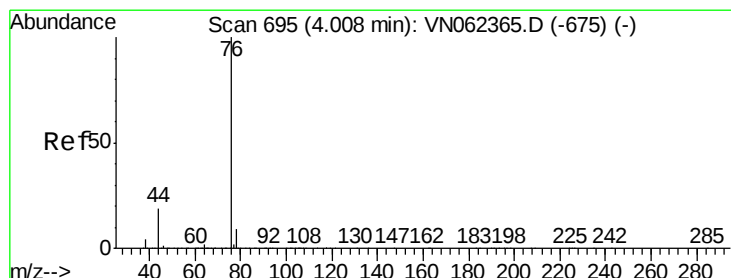
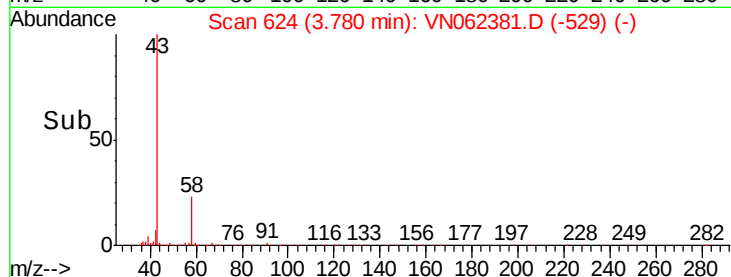
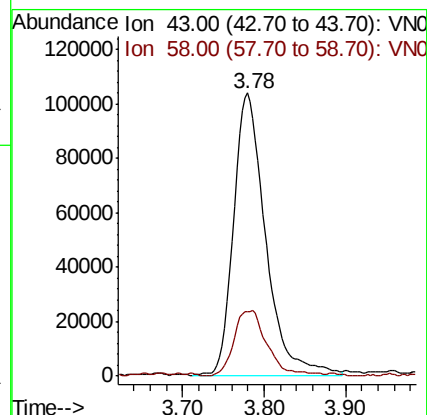
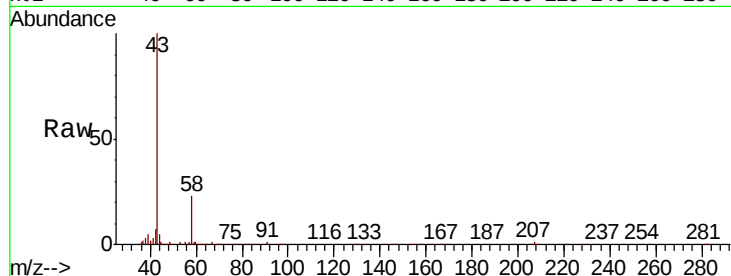
12013

Tot Ion: 43 Resp: 284265

Ion Ratio Lower Upper

43 100

58 22.4 19.8 29.8



#17

Carbon Disulfide

Concen: 0.208 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN062381.D

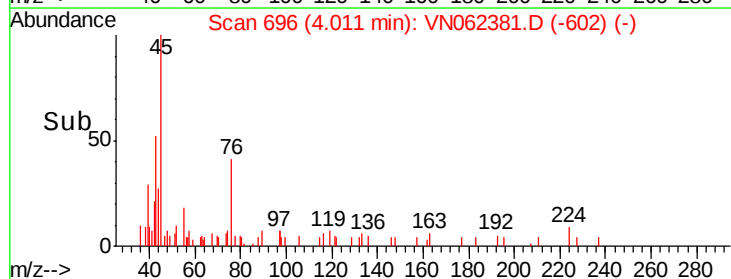
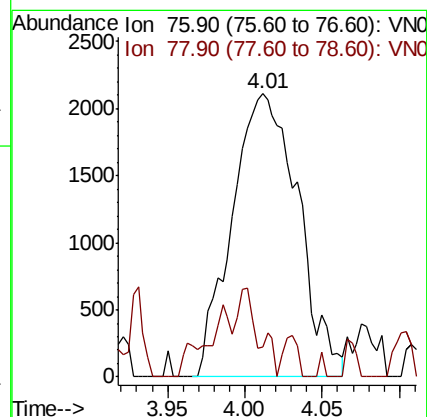
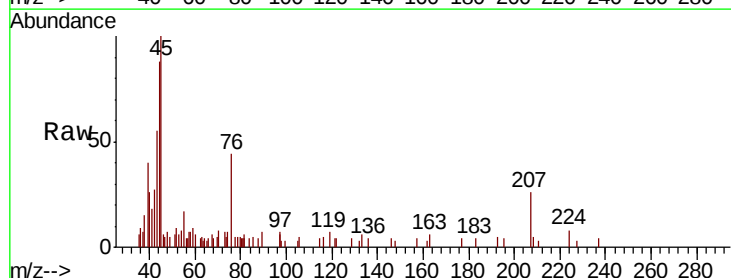
Acq: 6 Jul 2020 22:45

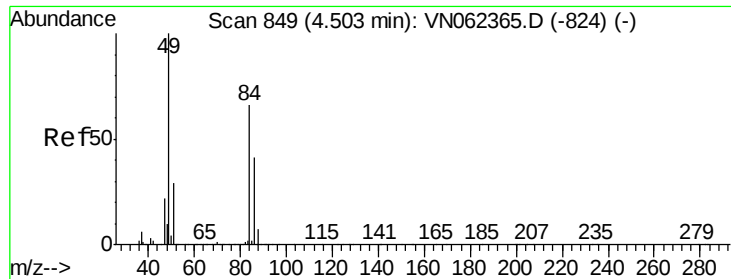
Tgt Ion: 76 Resp: 6240

Ion Ratio Lower Upper

76 100

78 0.0 6.9 10.3#

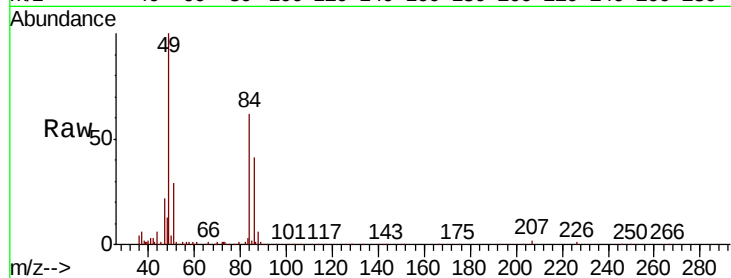




#20
Methvlene Chloride
Concen: 8.288 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

Instrument :
MSVOA_N
ClientSampleId :
12013

Tot Ion:	84	Resp:	107057
Ion	Ratio	Lower	Upper
84	100		
49	159.6	121.8	182.6
51	46.8	35.0	52.4
86	65.5	50.3	75.5



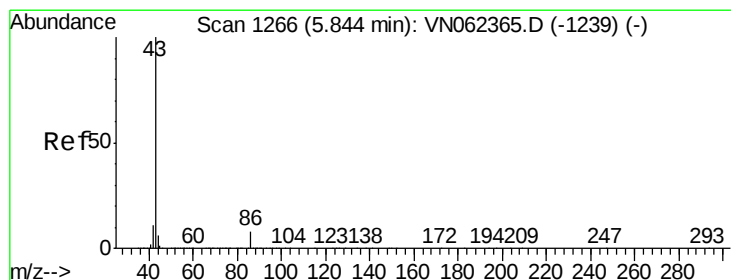
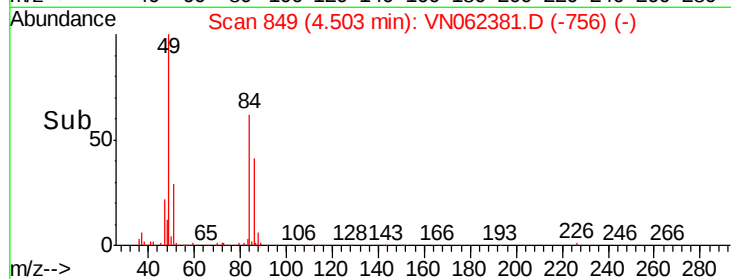
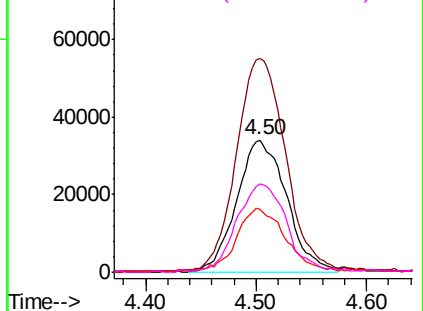
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

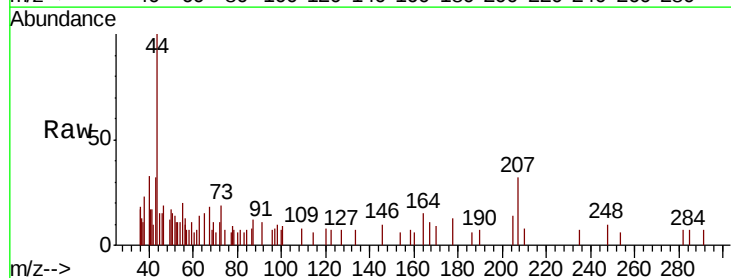
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#23
Vinyl Acetate
Concen: Below Cal
RT: 5.85 min Scan# 1267
Delta R.T. 0.00 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

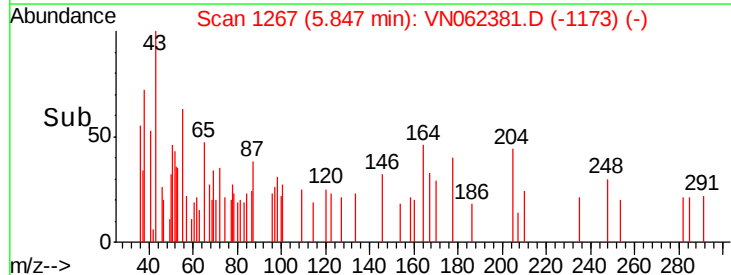
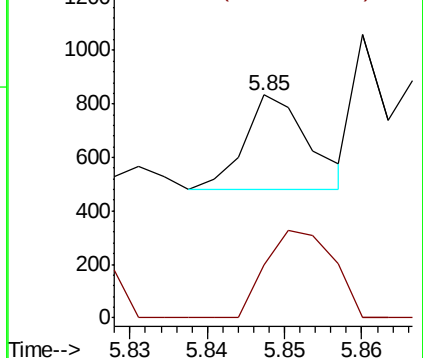
Tgt Ion:	43	Resp:	206
Ion	Ratio	Lower	Upper
43	100		
86	55.8	6.6	9.8#

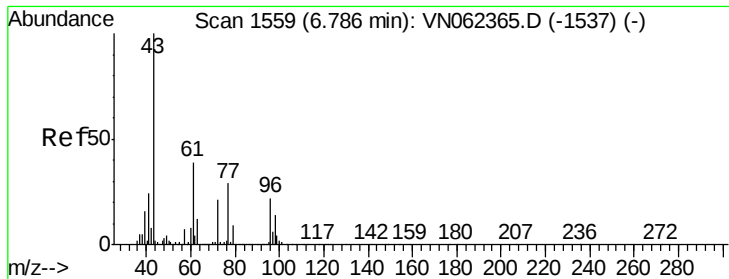


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO

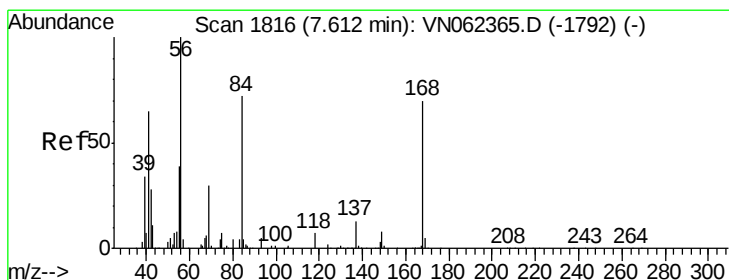
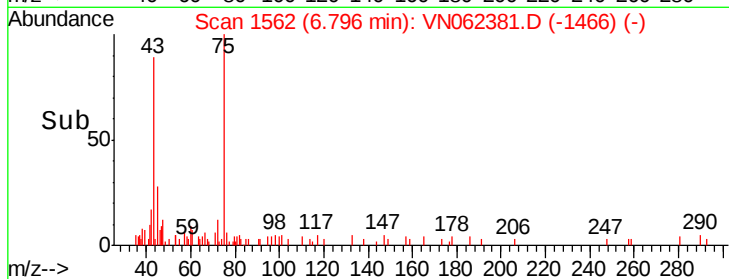
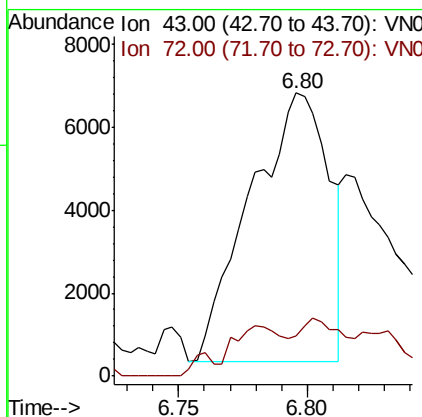
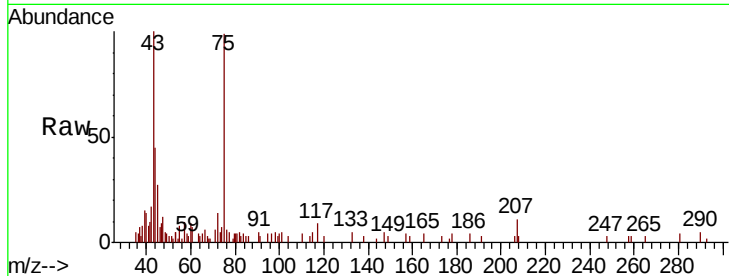




#25
2-Butanone
Concen: 1.411 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

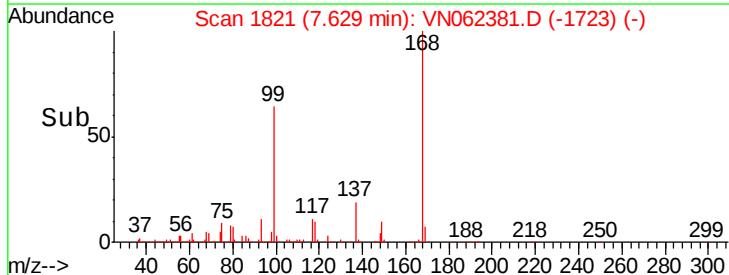
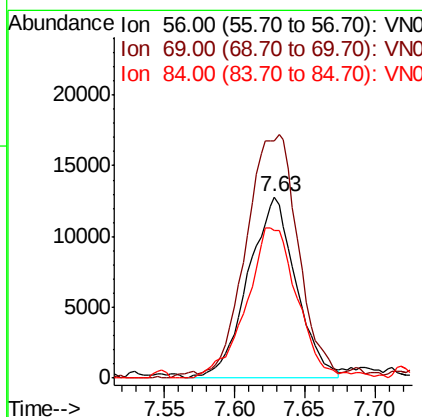
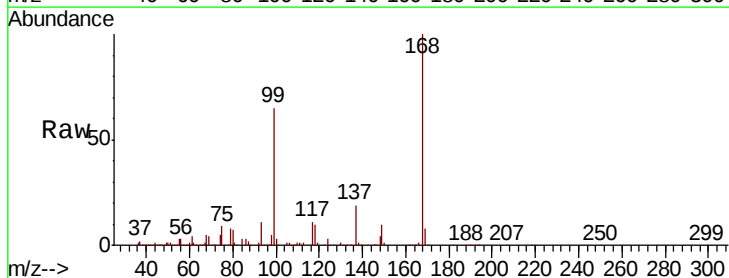
Instrument :
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ClientSampleId :
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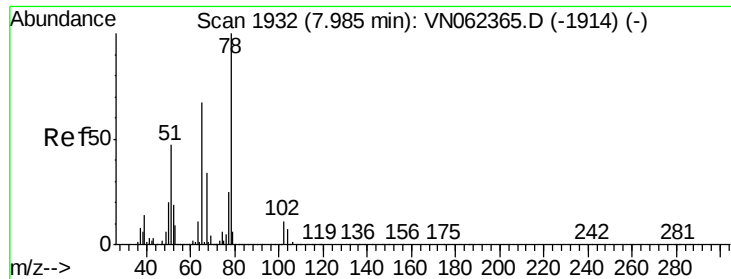
Tot Ion: 43 Resp: 13663
Ion Ratio Lower Upper
43 100
72 12.6 16.4 24.6#



#31
Cyclohexane
Concen: 1.433 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

Tgt Ion: 56 Resp: 30298
Ion Ratio Lower Upper
56 100
69 127.9 23.7 35.5#
84 80.2 57.2 85.8

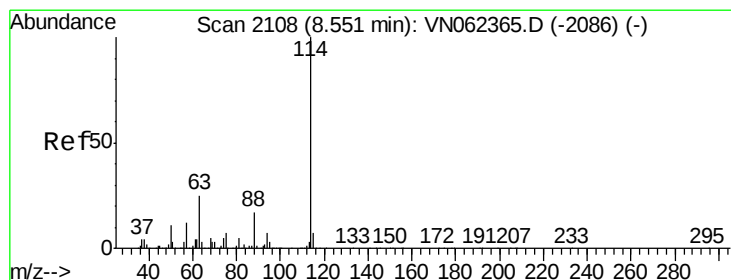
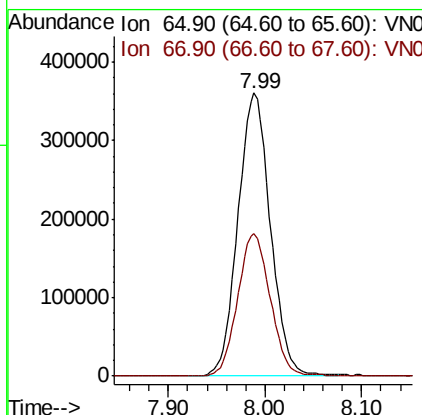
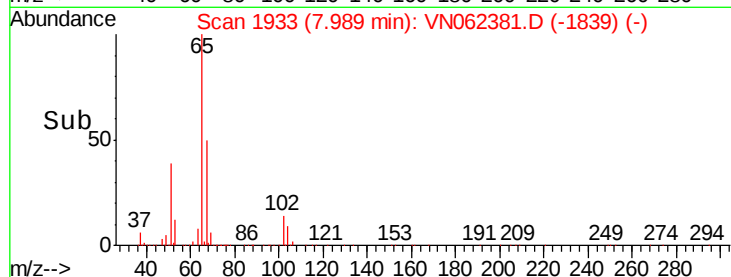
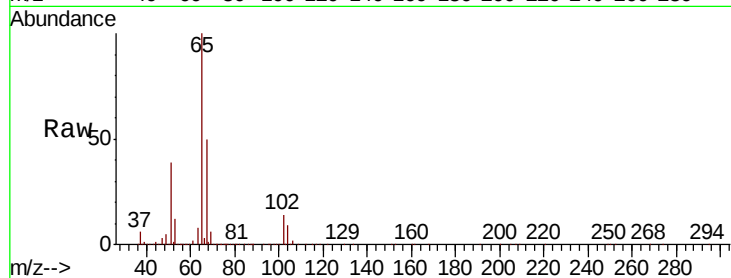




#33
 1,2-Dichloroethane-d4
 Concen: 50.324 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062381.D
 Acq: 6 Jul 2020 22:45

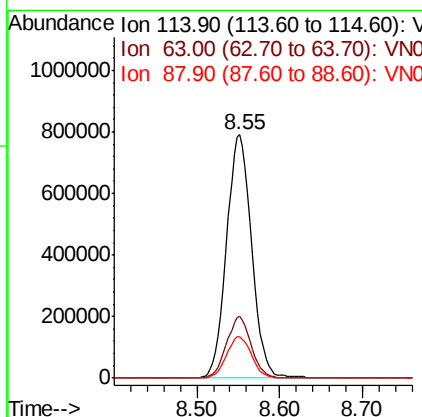
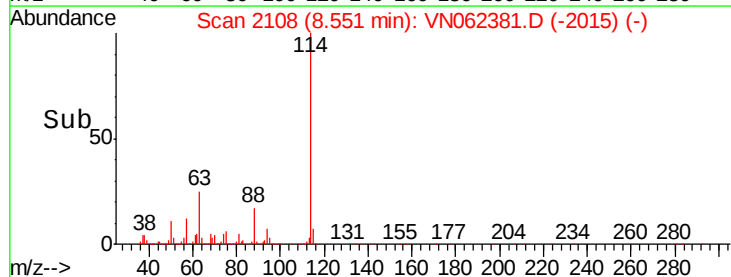
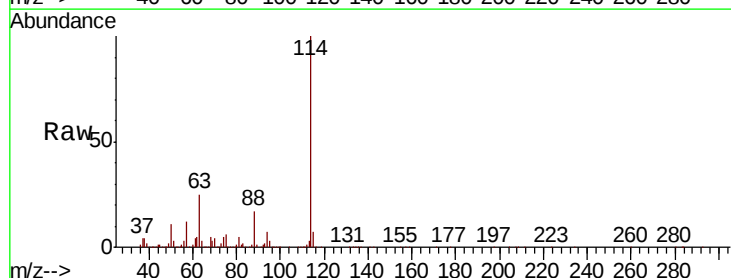
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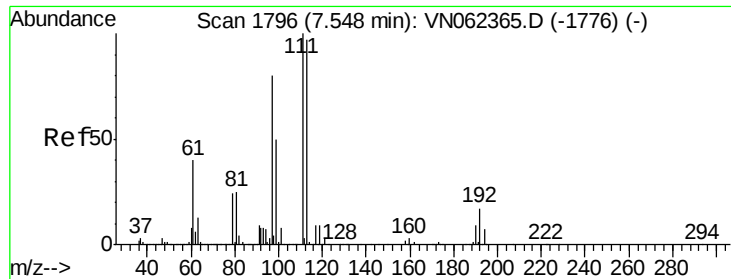
Tot Ion: 65 Resp: 839082
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 101.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062381.D
 Acq: 6 Jul 2020 22:45

Tgt Ion: 114 Resp: 1666220
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 49.0
 88 17.0 0.0 34.0

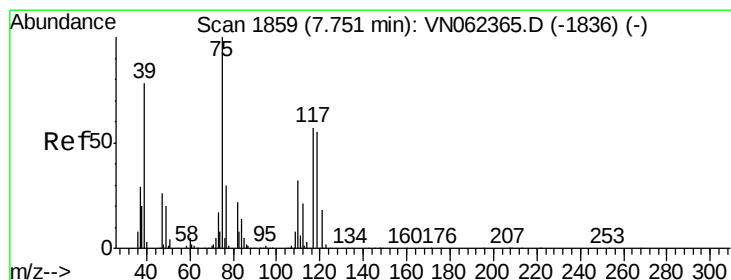
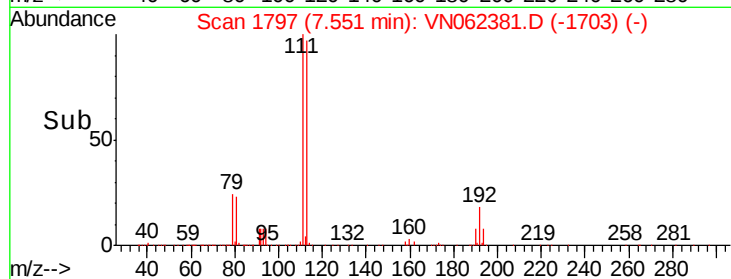
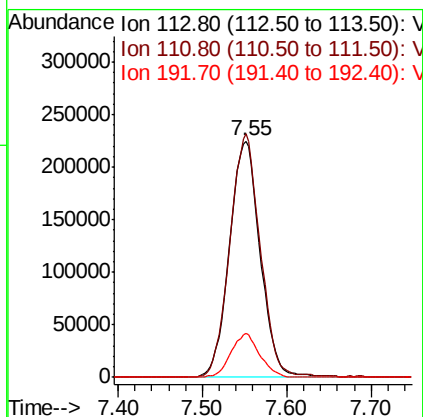
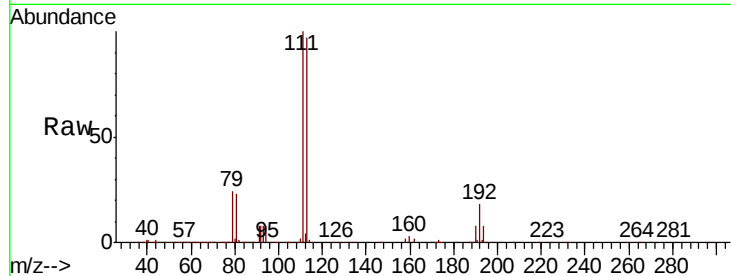




#35
 Dibromofluoromethane
 Concen: 50.091 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062381.D
 Acq: 6 Jul 2020 22:45

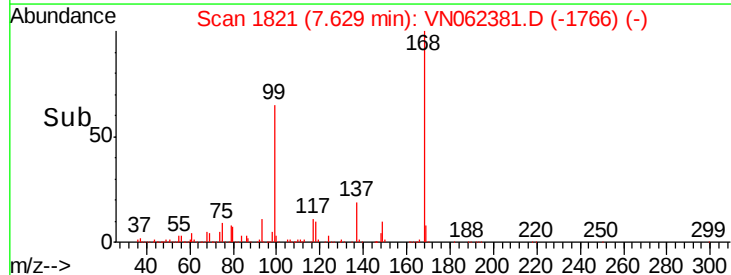
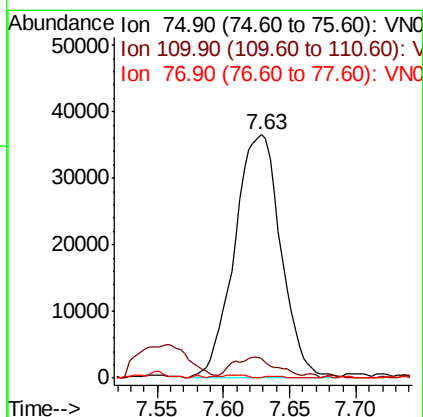
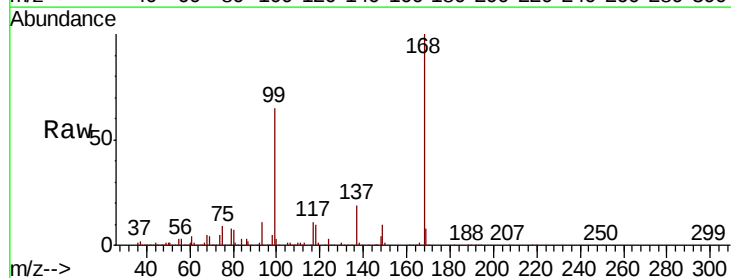
Instrument :
 MSVOA_N
 ClientSampleId :
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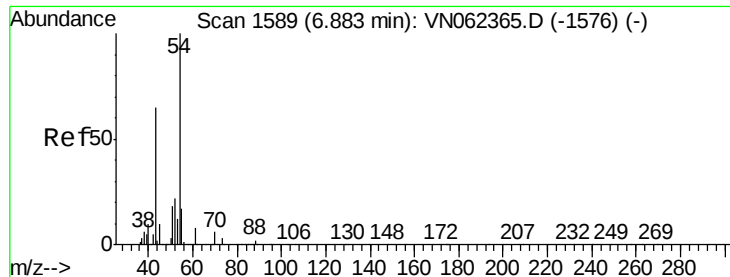
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.2	124.8
192	17.5	14.2	21.2



#36
 1,1-Dichloropropene
 Concen: 5.077 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062381.D
 Acq: 6 Jul 2020 22:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	15.7	47.1#
77	0.3	24.3	36.5#

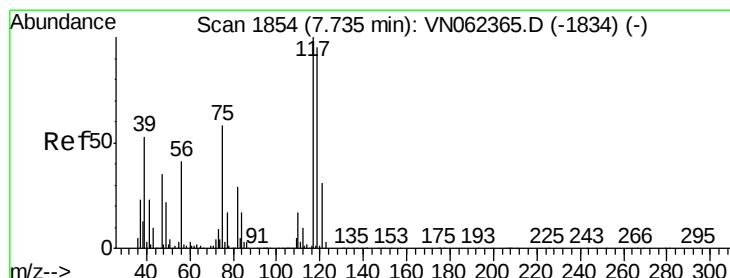
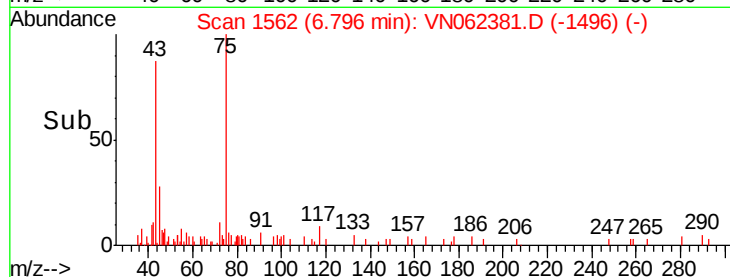
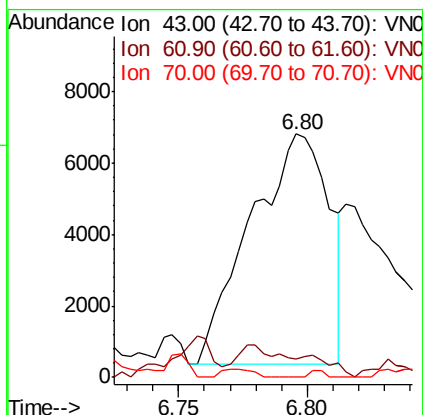
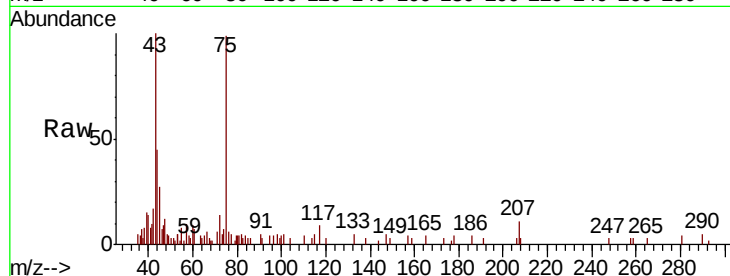




#37
Ethyl Acetate
Concen: 0.658 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.09 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

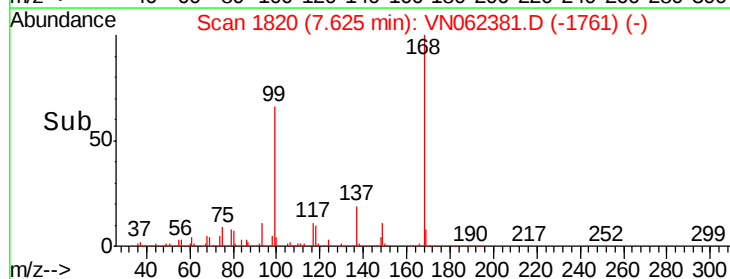
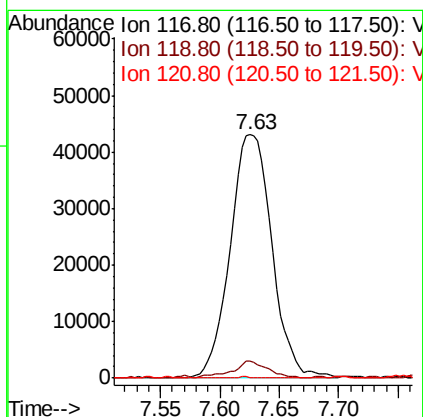
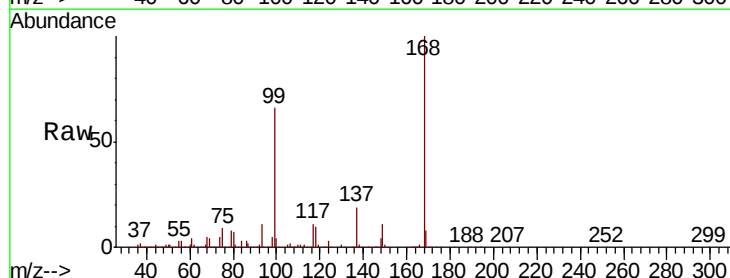
Instrument :
MSVOA_N
ClientSampleId :
12013

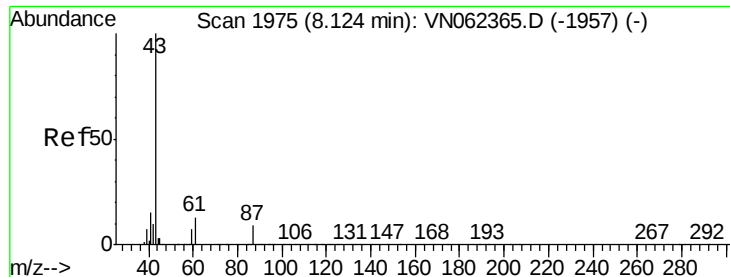
Tot Ion: 43 Resp: 13663
Ion Ratio Lower Upper
43 100
61 0.0 8.8 13.2#
70 0.5 6.2 9.4#



#38
Carbon Tetrachloride
Concen: 5.950 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

Tgt Ion: 117 Resp: 104754
Ion Ratio Lower Upper
117 100
119 6.9 75.9 113.9#
121 0.4 24.6 36.8#





#43

Isopropyl Acetate

Concen: 8.096 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.01 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

Instrument :

MSVOA_N

ClientSampleId :
12013

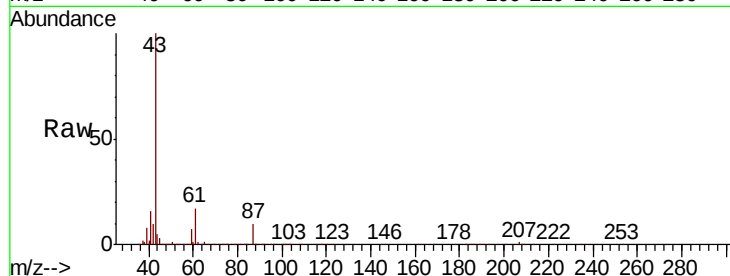
Tot Ion: 43 Resp: 281051

Ion Ratio Lower Upper

43 100

61 15.8 13.1 19.7

87 9.6 7.5 11.3

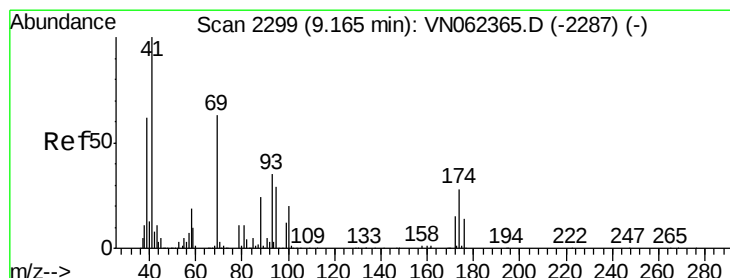
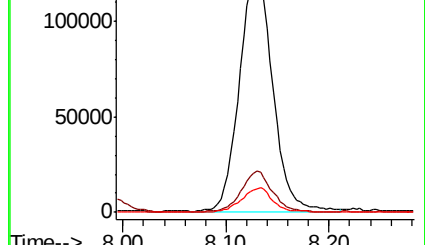
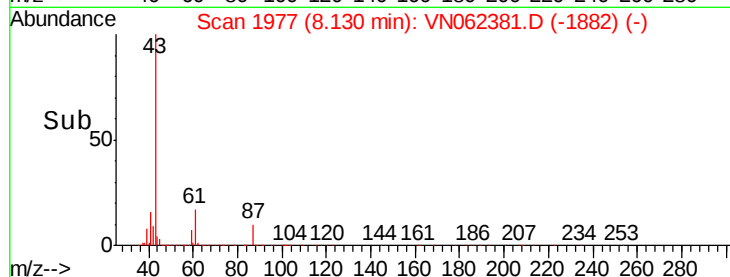


Abundance Ion 43.00 (42.70 to 43.70): VN062381.D (-1957) (-)

Ion 61.00 (60.70 to 61.70): VN062381.D (-1957) (-)

Ion 87.00 (86.70 to 87.70): VN062381.D (-1957) (-)

8.13



#48

Methyl methacrylate

Concen: 1.096 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

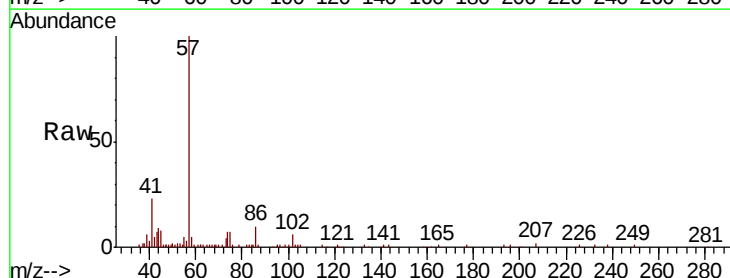
Tgt Ion: 41 Resp: 19428

Ion Ratio Lower Upper

41 100

69 1.2 51.5 77.3#

39 0.0 51.2 76.8#

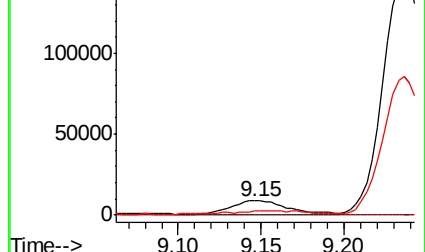
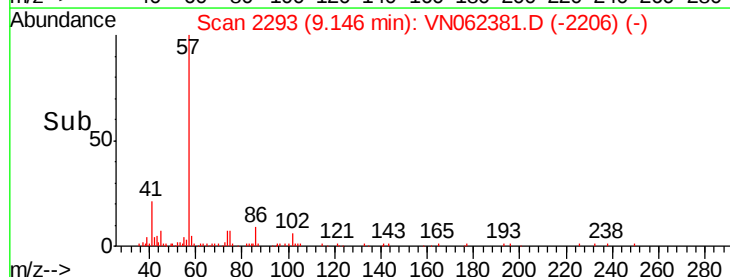


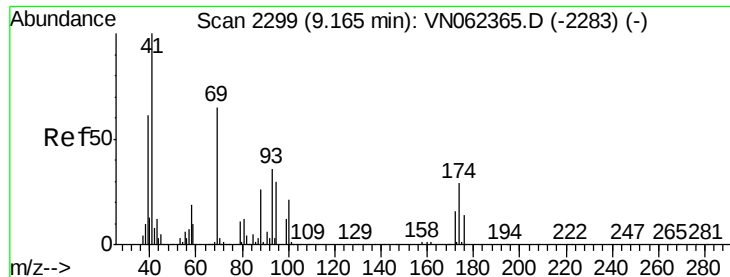
Abundance Ion 41.00 (40.70 to 41.70): VN062381.D (-2206) (-)

Ion 69.00 (68.70 to 69.70): VN062381.D (-2206) (-)

Ion 39.00 (38.70 to 39.70): VN062381.D (-2206) (-)

9.15





#49

1,4-Dioxane

Concen: 3.948 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. 0.00 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

Instrument :

MSVOA_N

ClientSampled :
12013

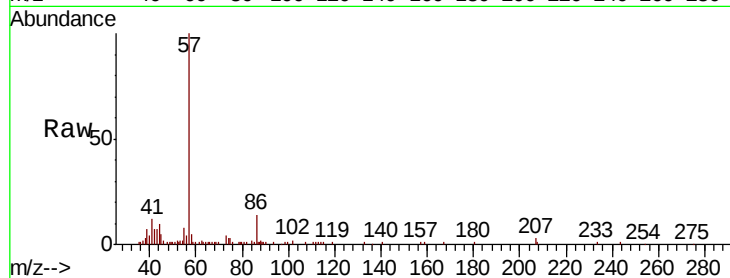
Tot Ion: 88 Resp: 950

Ion Ratio Lower Upper

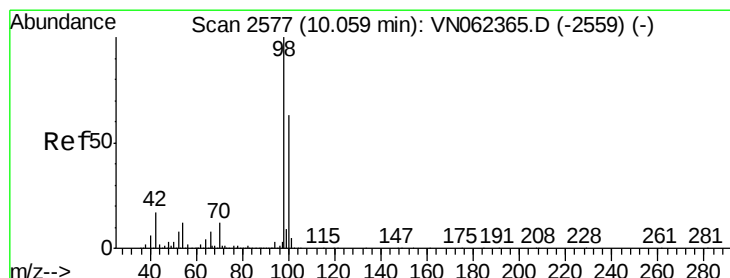
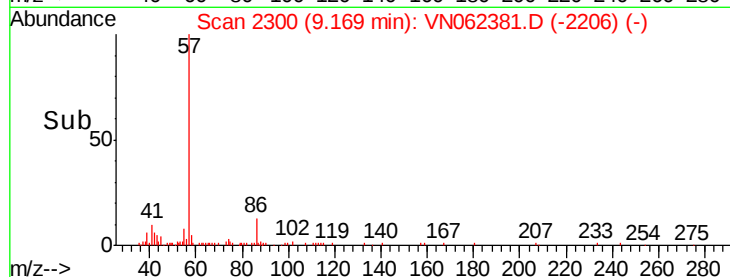
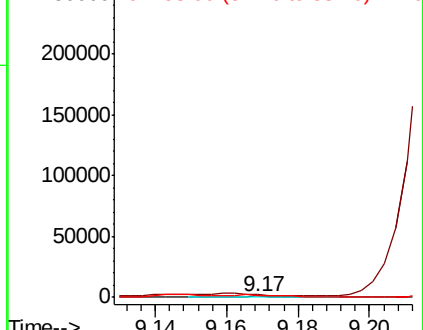
88 100

43 0.0 34.0 51.0#

58 0.0 63.0 94.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.203 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062381.D

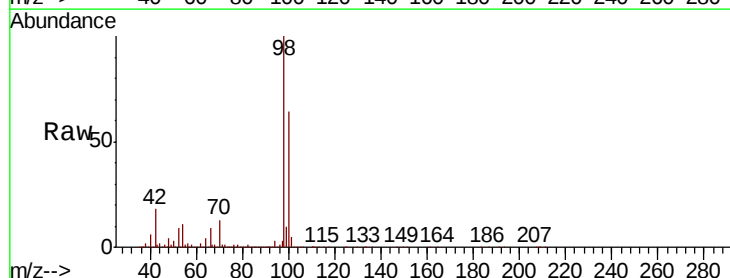
Acq: 6 Jul 2020 22:45

Tgt Ion: 98 Resp: 2175704

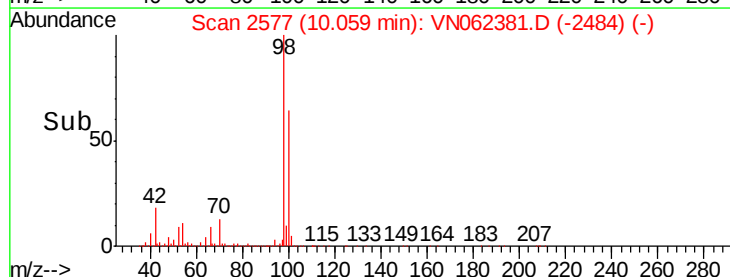
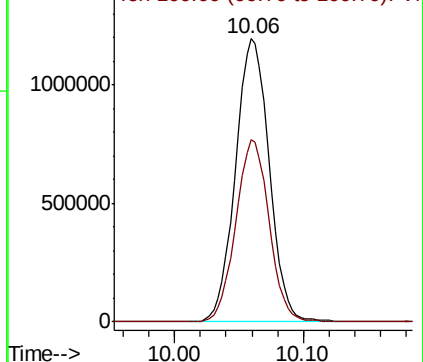
Ion Ratio Lower Upper

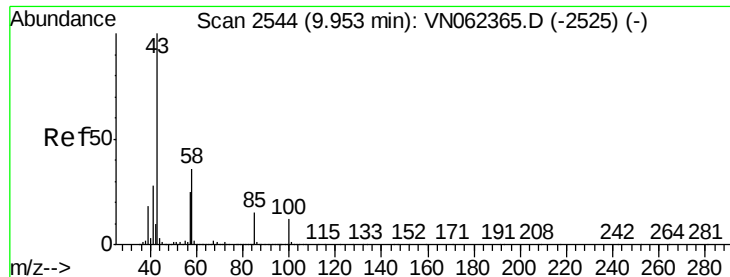
98 100

100 63.6 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

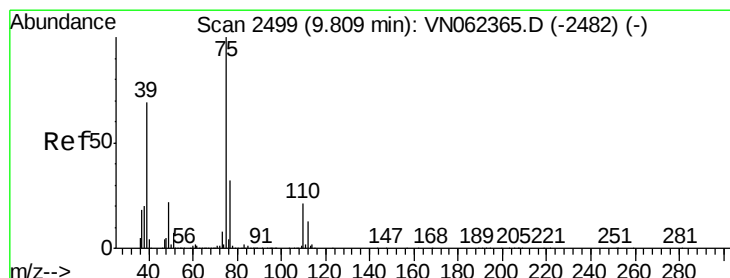
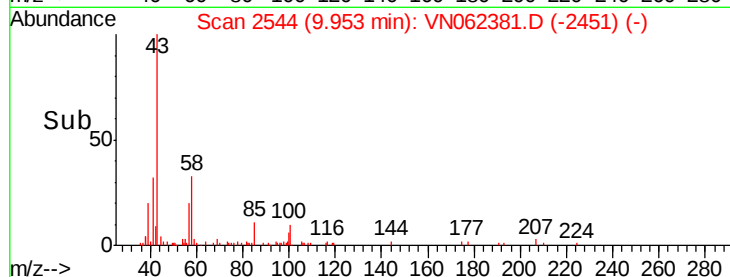
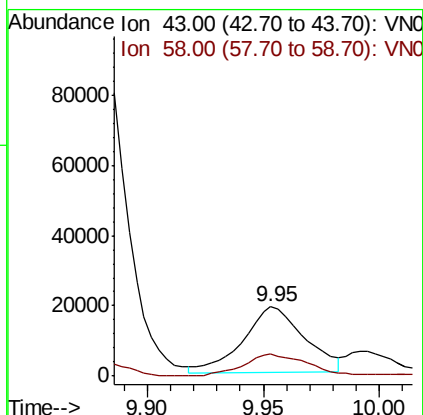
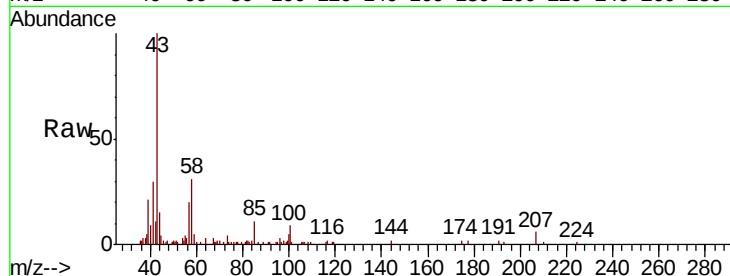




#51
 4-Methyl-2-Pentanone
 Concen: 1.334 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN062381.D
 Acq: 6 Jul 2020 22:45

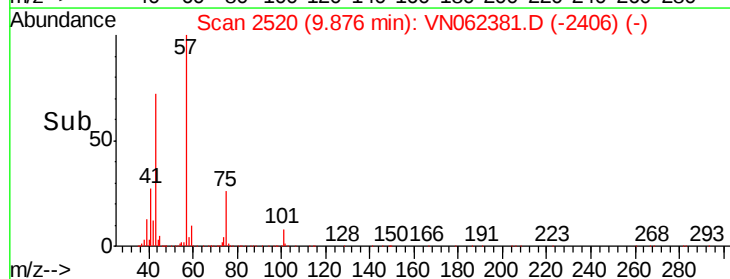
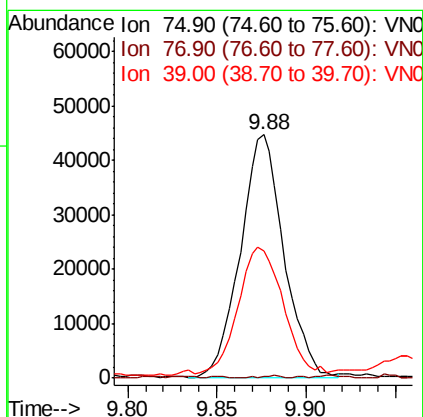
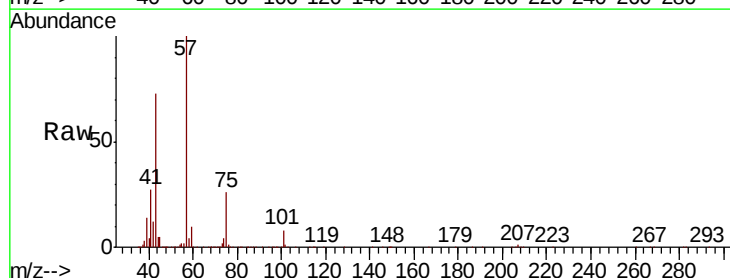
Instrument :
 MSVOA_N
 ClientSampleId :
 12013

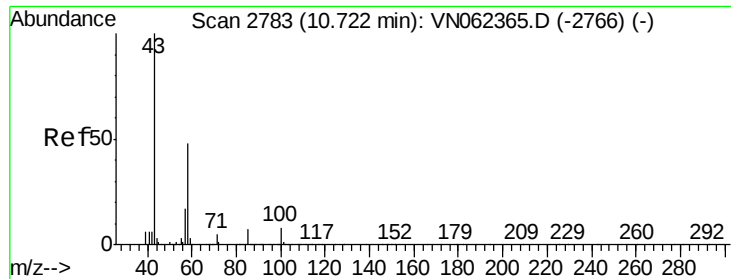
Tot Ion: 43 Resp: 34241
 Ion Ratio Lower Upper
 43 100
 58 32.9 27.6 41.4



#54
 cis-1,3-Dichloropropene
 Concen: 3.467 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062381.D
 Acq: 6 Jul 2020 22:45

Tgt Ion: 75 Resp: 76566
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.0 39.0#
 39 49.0 55.3 82.9#





#59

2-Hexanone

Concen: 8.349 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

Instrument :

MSVOA_N

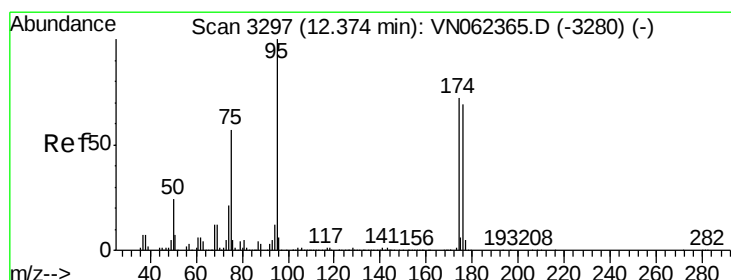
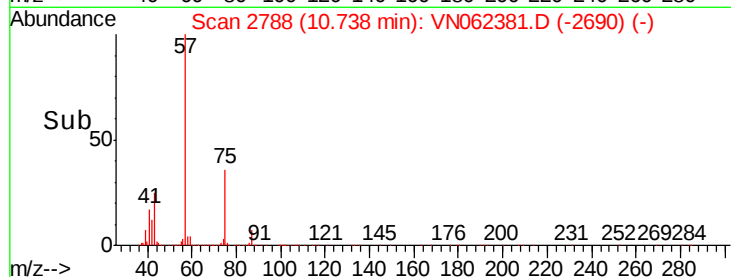
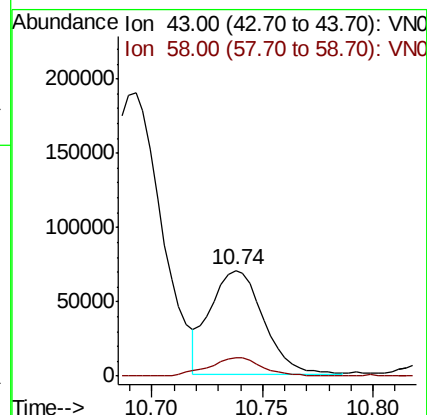
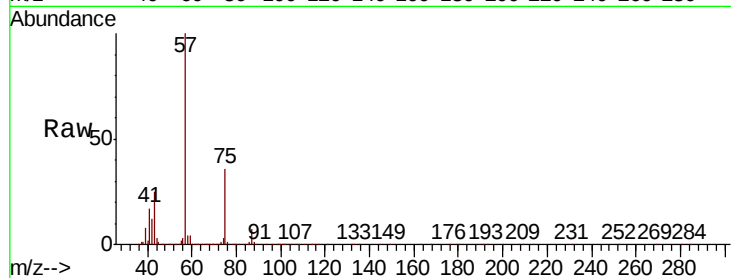
ClientSampled :
12013

Tot Ion: 43 Resp: 117473

Ion Ratio Lower Upper

43 100

58 17.5 23.5 70.6#



#62

4-Bromofluorobenzene

Concen: 47.926 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

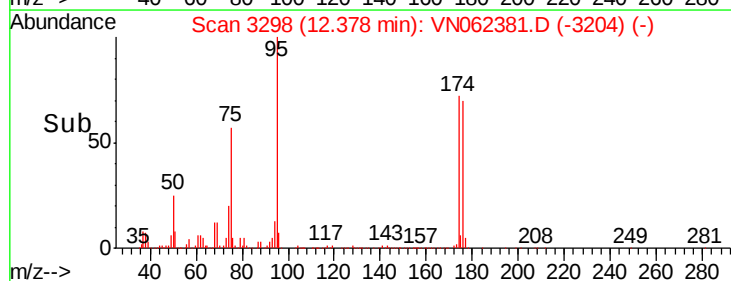
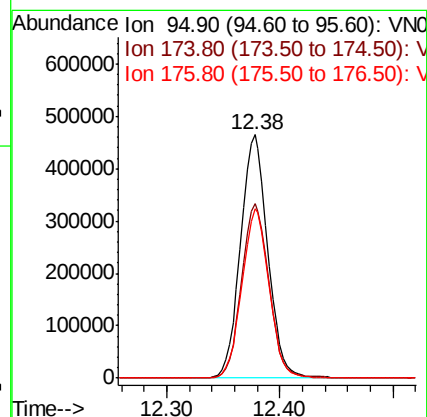
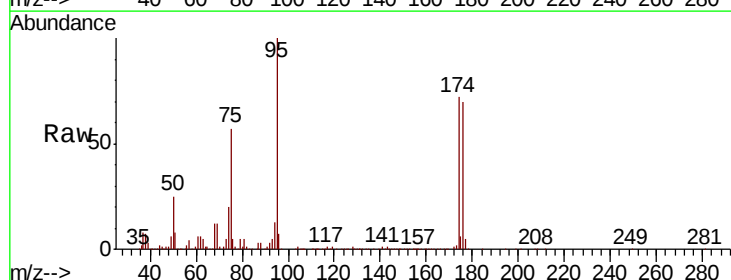
Tgt Ion: 95 Resp: 779931

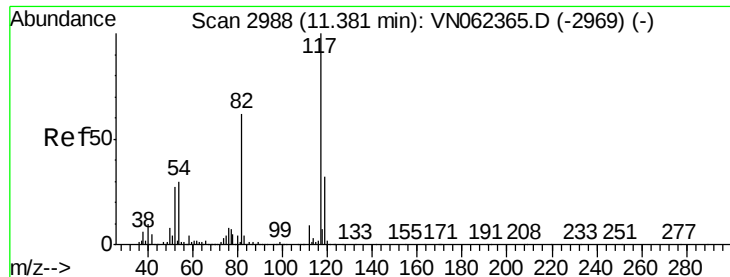
Ion Ratio Lower Upper

95 100

174 72.5 0.0 145.8

176 69.4 0.0 140.2

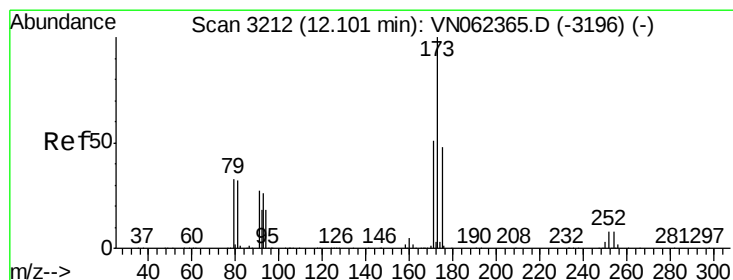
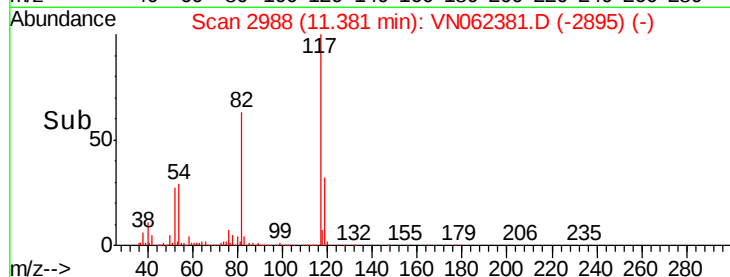
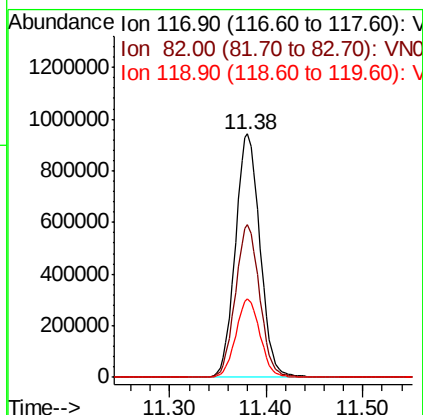
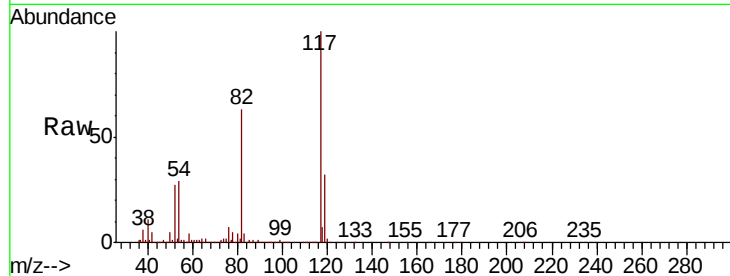




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

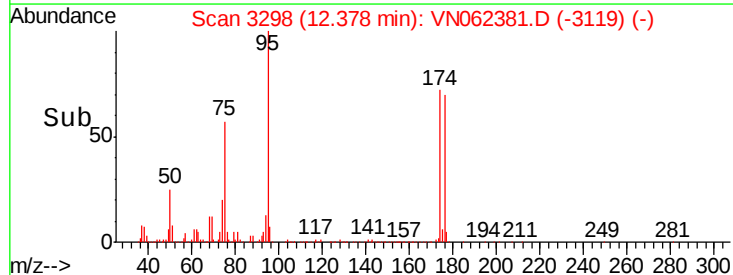
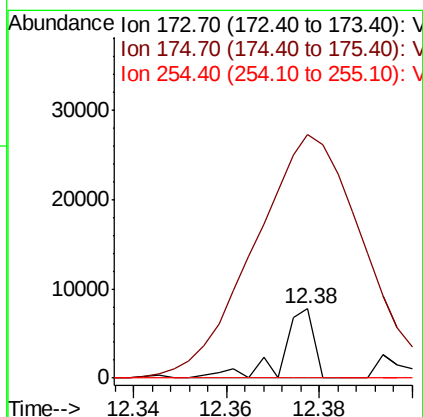
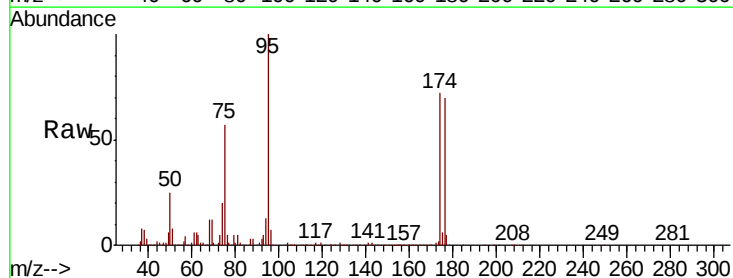
Instrument :
MSVOA_N
ClientSampled :
12013

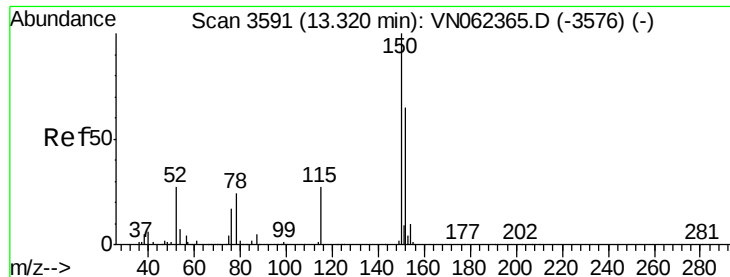
Tot Ion:117 Resp: 1667595
Ion Ratio Lower Upper
117 100
82 62.5 49.4 74.2
119 32.2 25.6 38.4



#71
Bromoform
Concen: 0.362 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062381.D
Acq: 6 Jul 2020 22:45

Tgt Ion:173 Resp: 3658
Ion Ratio Lower Upper
173 100
175 1028.5 24.1 72.2#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

Instrument :

MSVOA_N

ClientSampleId :
12013

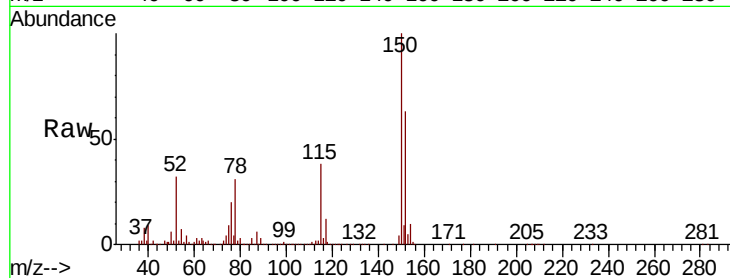
Tot Ion:152 Resp: 620869

Ion Ratio Lower Upper

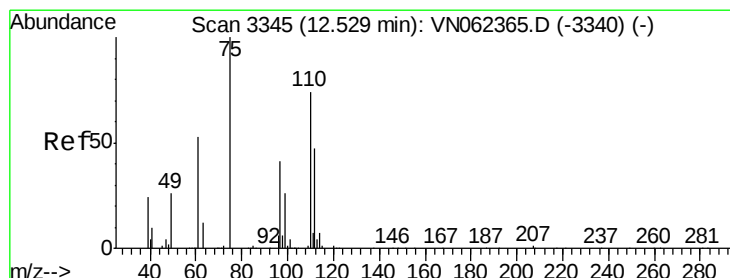
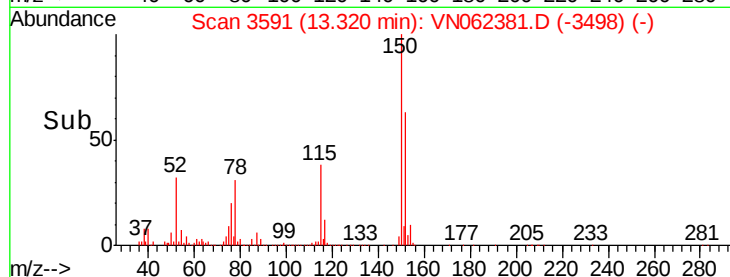
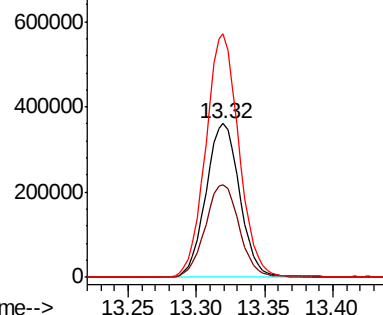
152 100

115 60.9 30.5 91.5

150 156.1 0.0 346.8



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



#76

1,2,3-Trichloropropane

Concen: 29.409 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062381.D

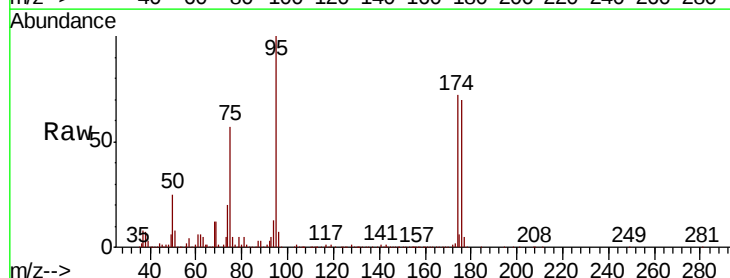
Acq: 6 Jul 2020 22:45

Tgt Ion: 75 Resp: 441025

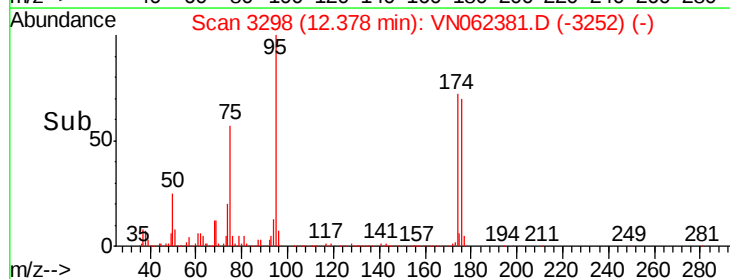
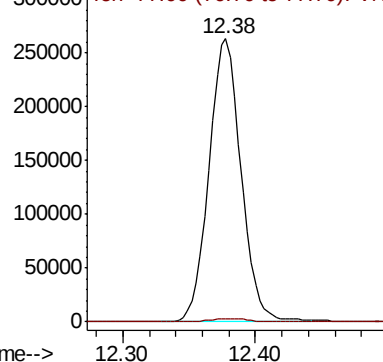
Ion Ratio Lower Upper

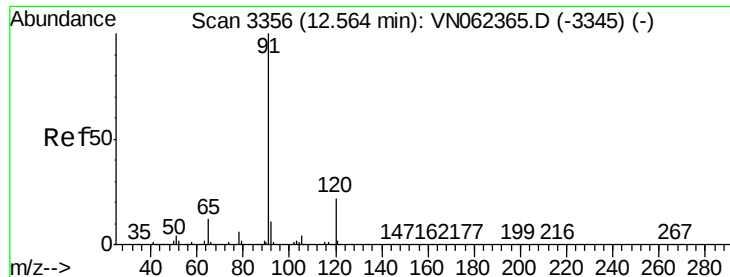
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#78

n-propylbenzene

Concen: 0.288 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.06 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

Instrument :

MSVOA_N

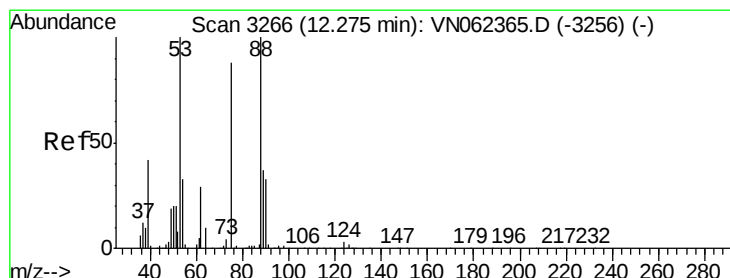
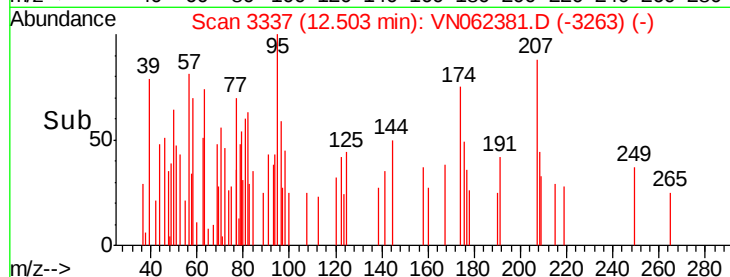
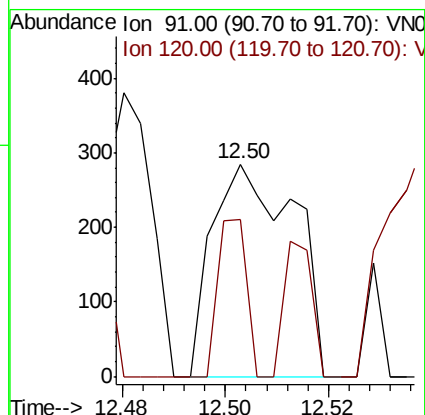
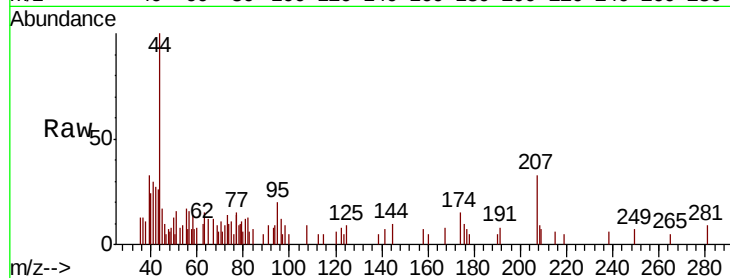
ClientSampled :
12013

Tot Ion: 91 Resp: 313

Ion Ratio Lower Upper

91 100

120 25.9 10.9 32.6



#81

trans-1,4-Dichloro-2-butene

Concen: 84.100 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

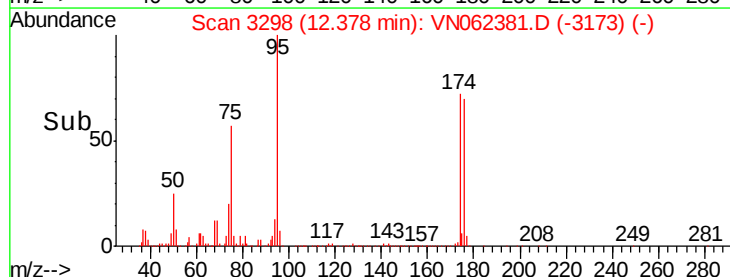
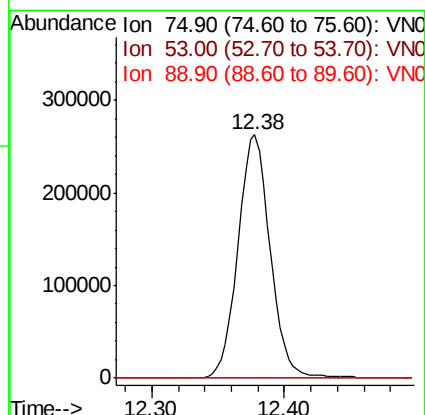
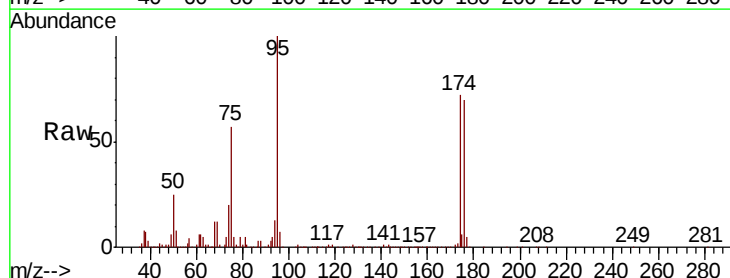
Tgt Ion: 75 Resp: 441025

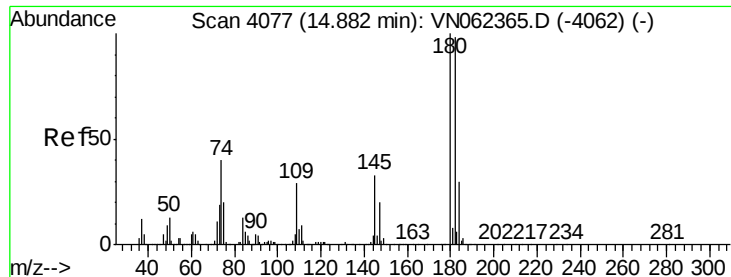
Ion Ratio Lower Upper

75 100

53 0.1 92.3 138.5#

89 0.0 37.0 55.4#

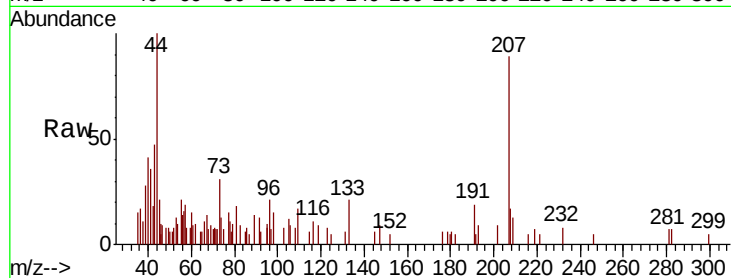




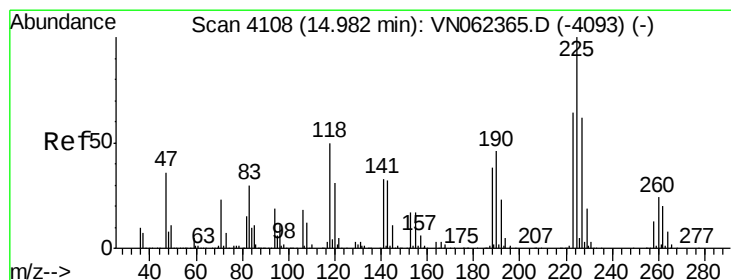
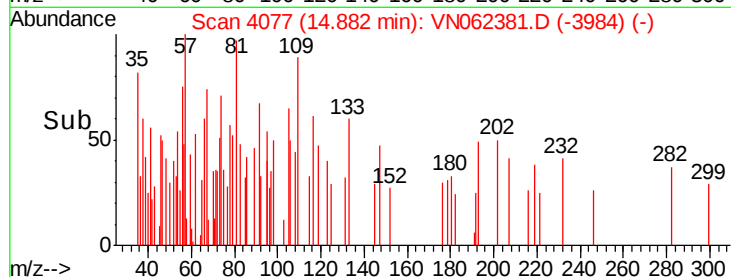
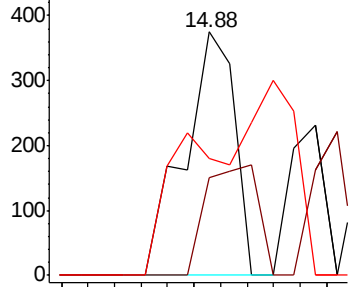
#93
 1,2,4-Trichlorobenzene
 Concen: 2.749 ug/l
 RT: 14.88 min Scan# 4077
 Delta R.T. 0.00 min
 Lab File: VN062381.D
 Acq: 6 Jul 2020 22:45

Instrument :
 MSVOA_N
 ClientSampled :
 12013

Tot Ion:180 Resp: 199
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.6 142.8#
 145 71.4 15.9 47.7#

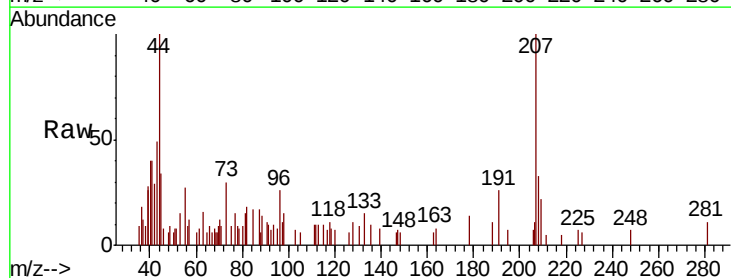


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

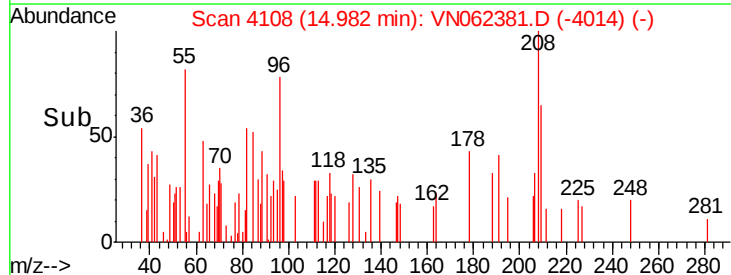
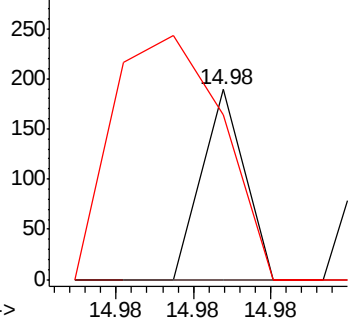


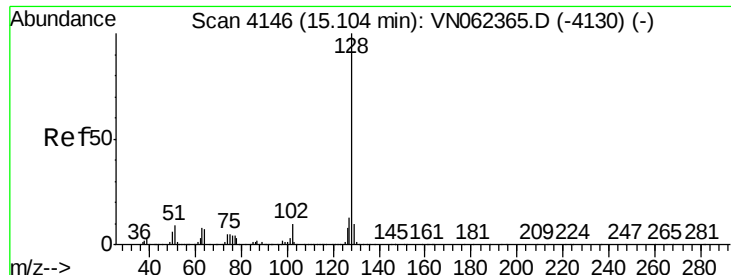
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 14.98 min Scan# 4108
 Delta R.T. 0.00 min
 Lab File: VN062381.D
 Acq: 6 Jul 2020 22:45

Tgt Ion:225 Resp: 36
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.7 95.1#
 227 333.3 30.3 90.8#



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 2.107 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. 0.00 min

Lab File: VN062381.D

Acq: 6 Jul 2020 22:45

Instrument :

MSVOA_N

ClientSampleId :

12013

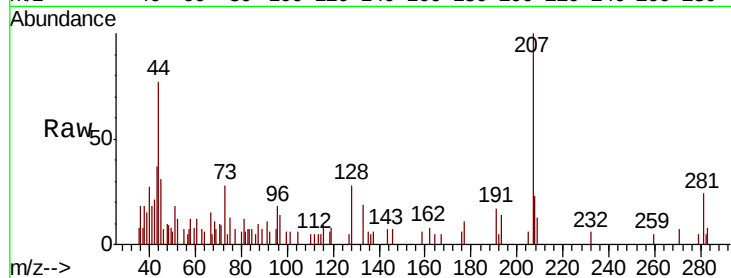
Tot Ion:128 Resp: 1114

Ion Ratio Lower Upper

128 100

127 9.4 10.8 16.2#

129 2.7 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

