

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062481.D
 Acq On : 10 Jul 2020 1:53
 Operator : JC/MD
 Sample : L3203-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-06

Quant Time: Jul 10 02:45:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	192327	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	357612	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	343531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	131374	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	151582	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
35) Dibromofluoromethane	7.55	113	111967	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
50) Toluene-d8	10.06	98	457758	52.46	ug/l	0.00
Spiked Amount			Recovery	=	104.92%	
62) 4-Bromofluorobenzene	12.38	95	167643	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	

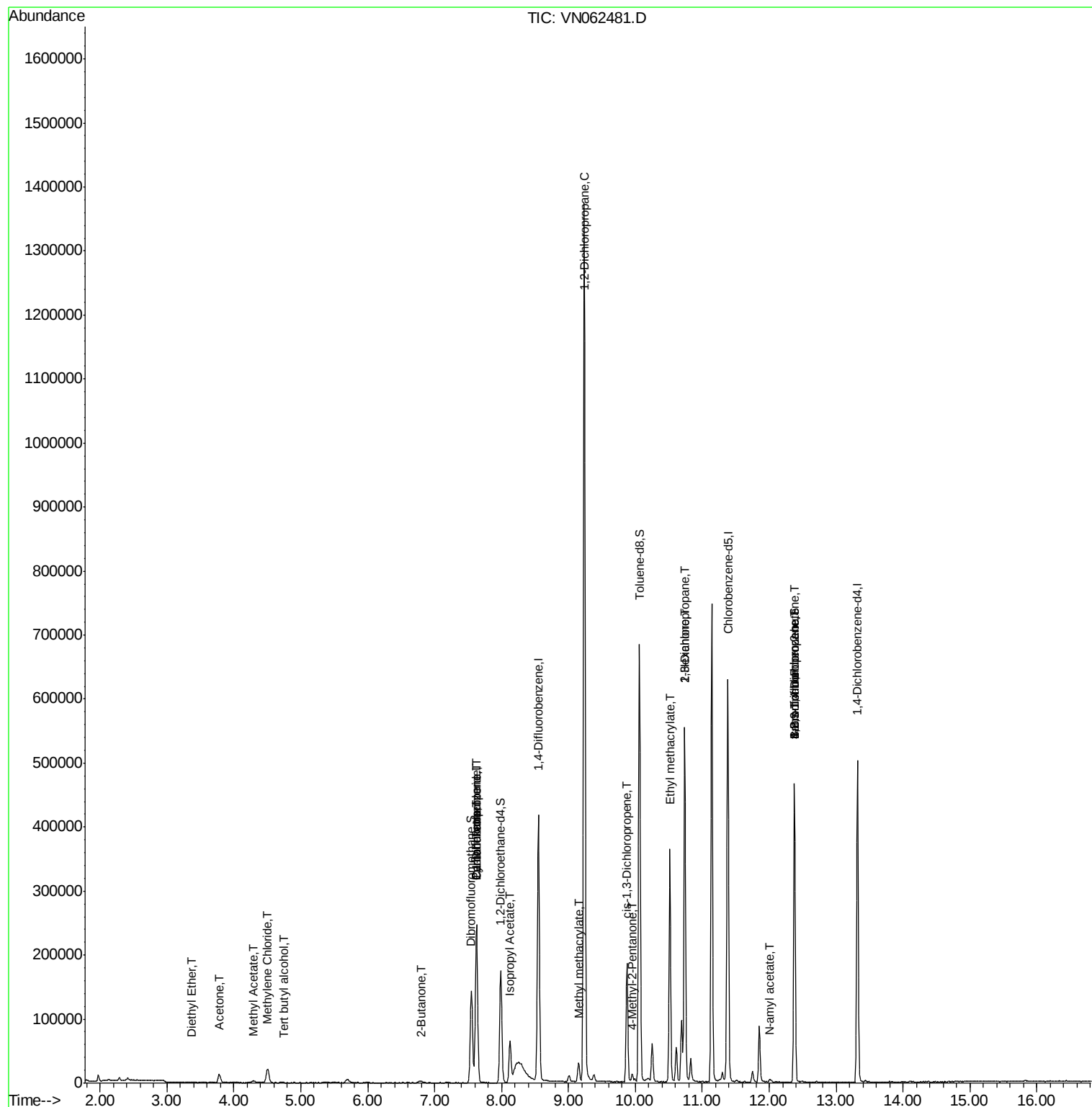
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	403	0.276	ug/l	53
11) Tert butyl alcohol	4.74	59	151	0.308	ug/l #	74
16) Acetone	3.78	43	23769	18.925	ug/l	99
18) Methyl Acetate	4.29	43	6264	1.999	ug/l #	76
20) Methylene Chloride	4.50	84	15405	5.737	ug/l	91
25) 2-Butanone	6.80	43	2644	1.441	ug/l #	84
31) Cyclohexane	7.63	56	4556	1.014	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16646	4.620	ug/l #	52
38) Carbon Tetrachloride	7.63	117	19815	6.117	ug/l #	16
43) Isopropyl Acetate	8.13	43	80622	12.114	ug/l #	92
45) 1,2-Dichloropropane	9.23	63	1748	0.567	ug/l #	44
48) Methyl methacrylate	9.15	41	5093	1.560	ug/l #	17
51) 4-Methyl-2-Pentanone	9.96	43	9157	2.304	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	31616	6.877	ug/l #	60
56) Ethyl methacrylate	10.52	69	1231	1.980	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5394	1.210	ug/l #	43
59) 2-Hexanone	10.74	43	85442	29.608	ug/l #	54
71) Bromoform	12.37	173	440	0.244	ug/l #	29
74) N-amyl acetate	12.01	43	4181	0.845	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	89240	27.684	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	89240	74.100	ug/l #	10
95) Naphthalene	15.11	128	610	Below Cal	#	70

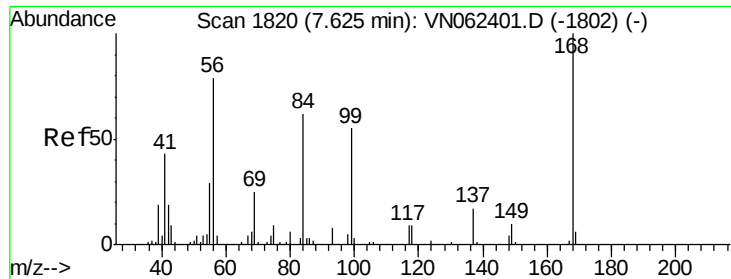
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 10 00:55:52 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

Instrument :

MSVOA_N

ClientSampled :

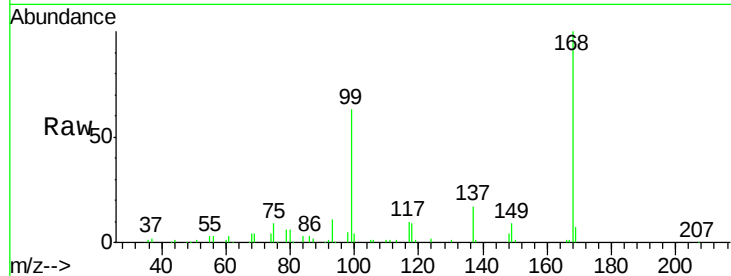
RO-06

Tot Ion:168 Resp: 192327

Ion Ratio Lower Upper

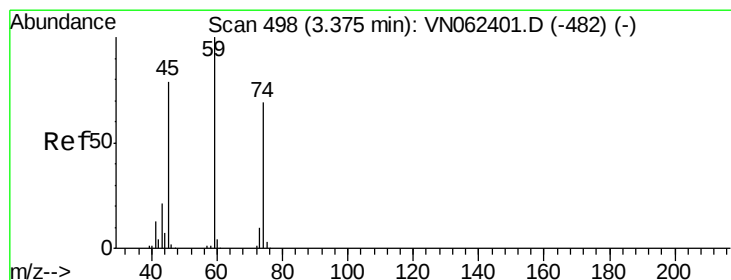
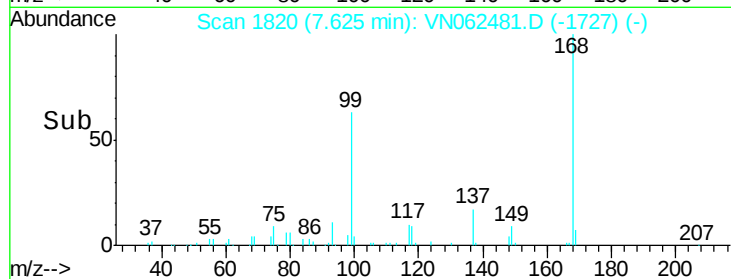
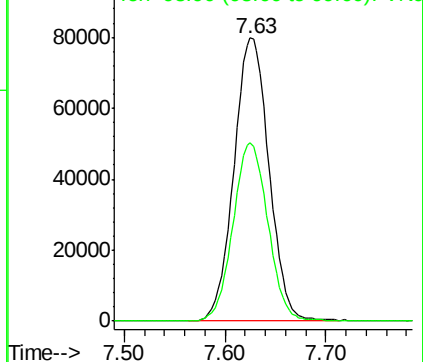
168 100

99 63.2 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 0.276 ug/l

RT: 3.37 min Scan# 497

Delta R.T. -0.00 min

Lab File: VN062481.D

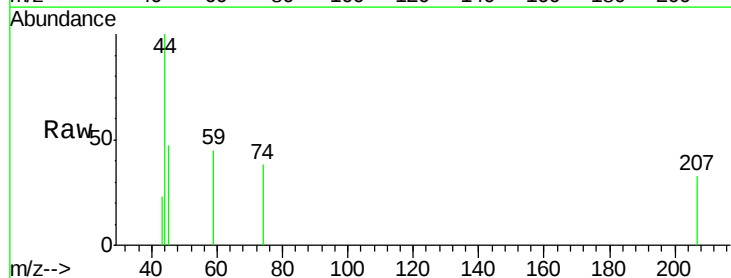
Acq: 10 Jul 2020 1:53

Tgt Ion: 74 Resp: 403

Ion Ratio Lower Upper

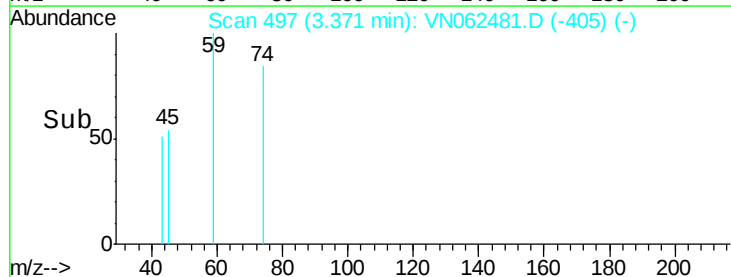
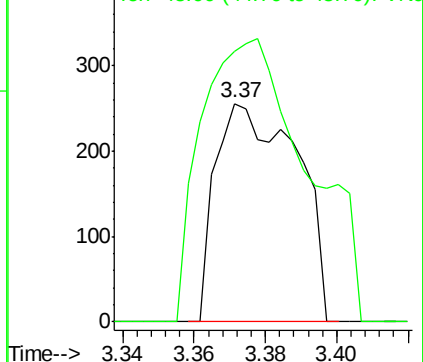
74 100

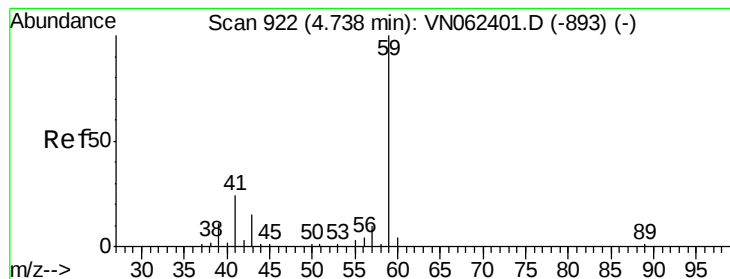
45 168.0 58.5 175.3



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO



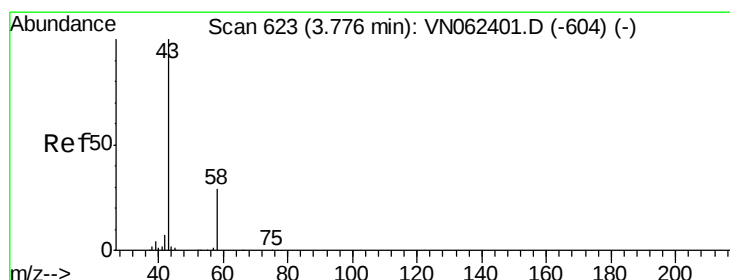
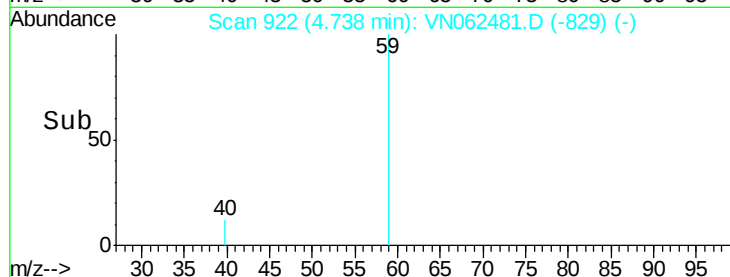
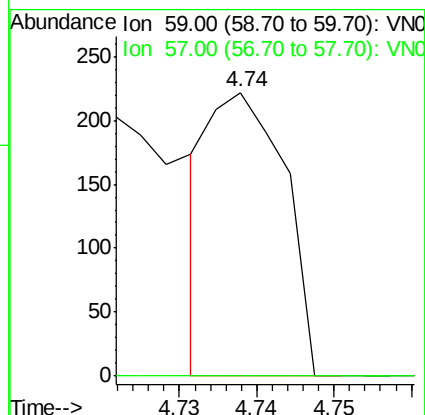
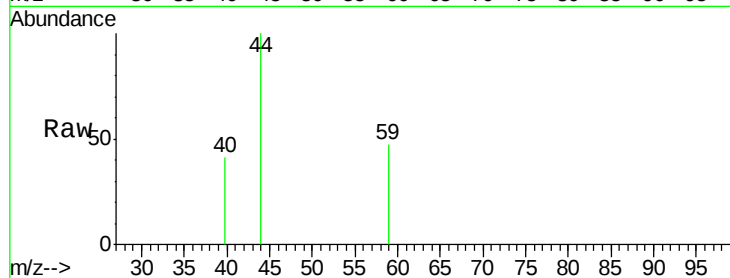


#11

Tert butyl alcohol
Concen: 0.308 ug/l
RT: 4.74 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

Instrument :
MSVOA_N
ClientSampled :
RO-06

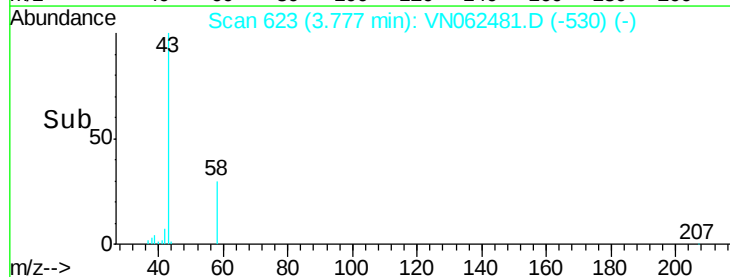
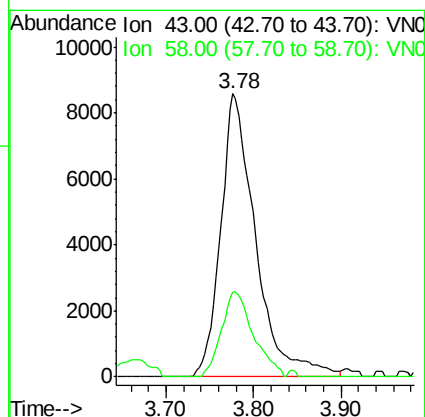
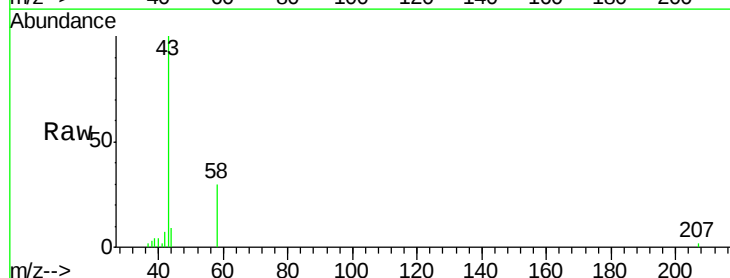
Tot Ion: 59 Resp: 151
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#

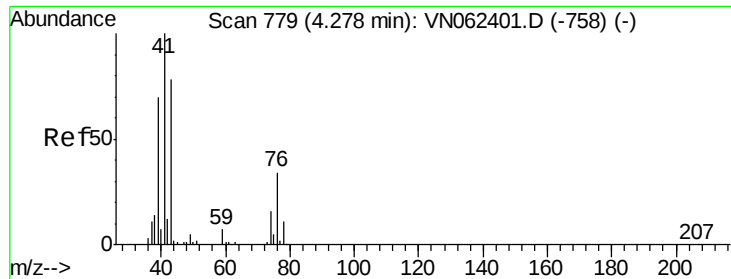


#16

Acetone
Concen: 18.925 ug/l
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

Tgt Ion: 43 Resp: 23769
Ion Ratio Lower Upper
43 100
58 29.9 23.5 35.3

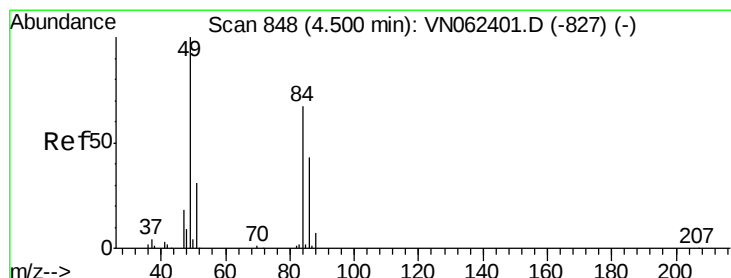
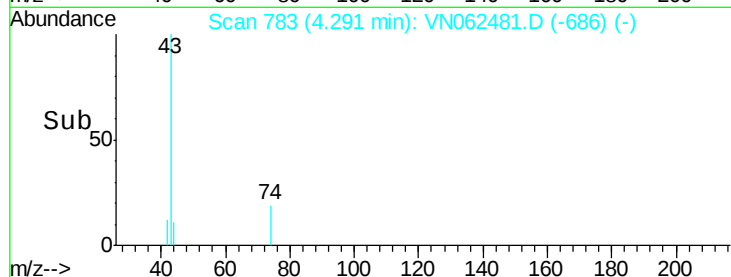
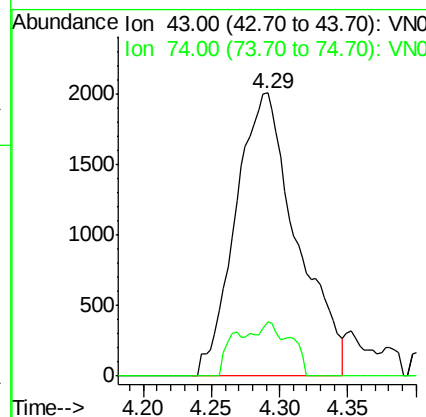
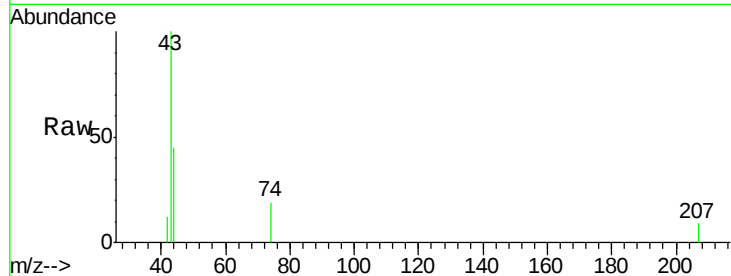




#18
Methyl Acetate
Concen: 1.999 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

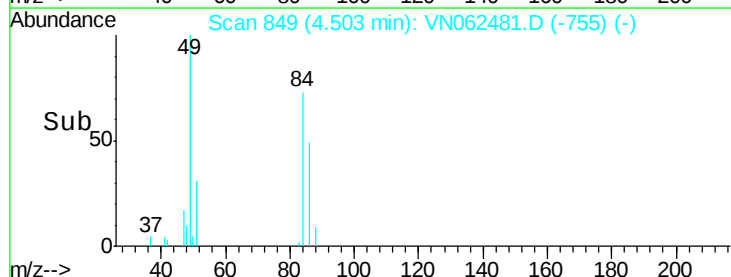
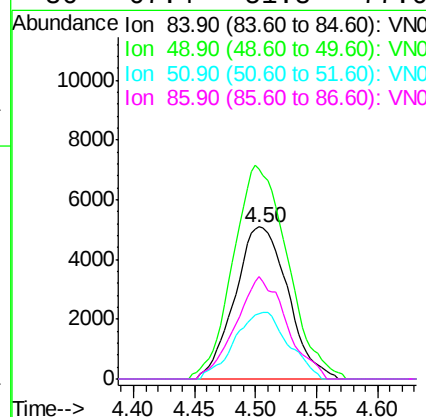
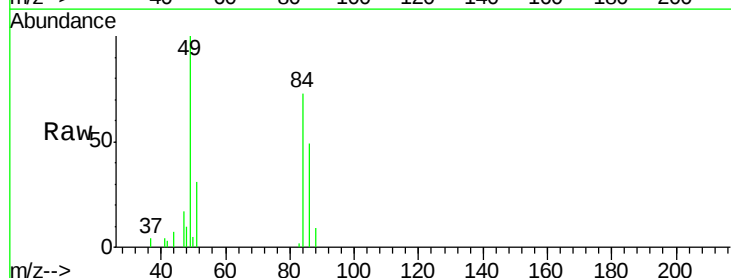
Instrument :
MSVOA_N
ClientSampleId :
RO-06

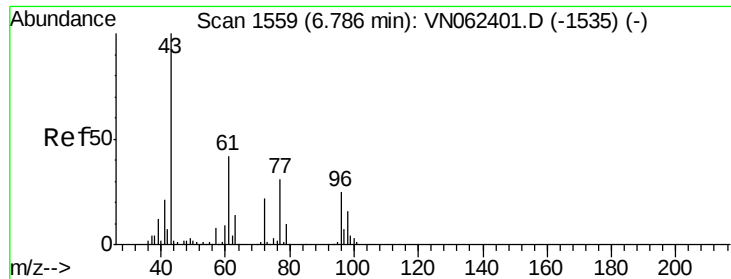
Tot Ion: 43 Resp: 6264
Ion Ratio Lower Upper
43 100
74 8.8 16.0 24.0#



#20
Methylene Chloride
Concen: 5.737 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

Tgt Ion: 84 Resp: 15405
Ion Ratio Lower Upper
84 100
49 134.8 120.0 180.0
51 43.2 37.0 55.6
86 67.4 51.8 77.6

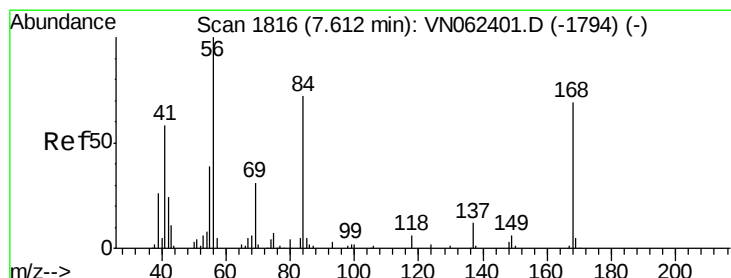
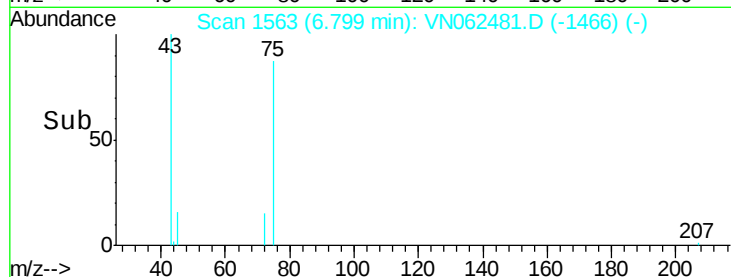
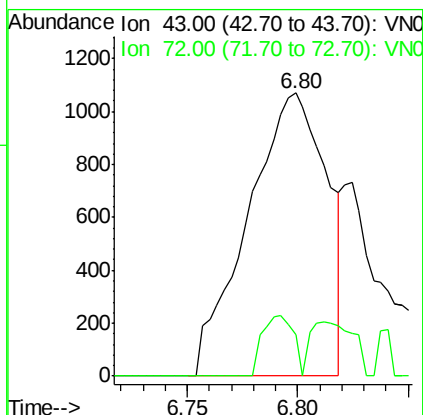
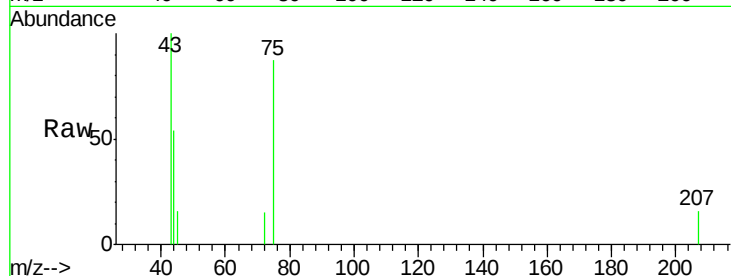




#25
2-Butanone
Concen: 1.441 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

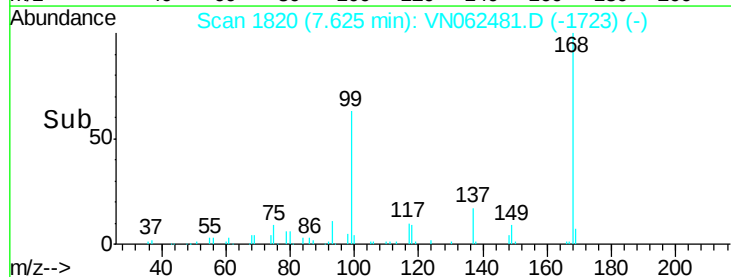
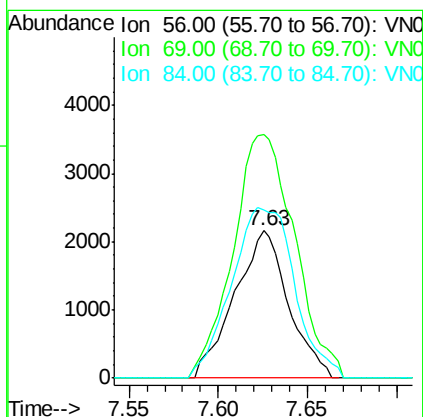
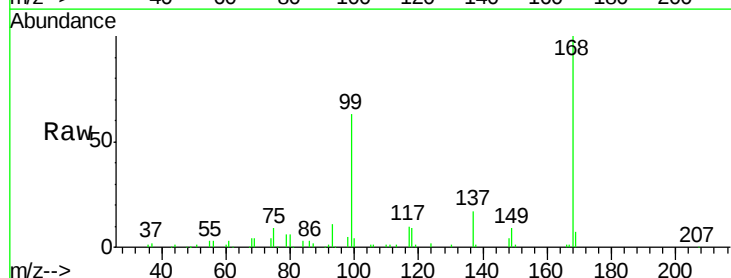
Instrument :
MSVOA_N
ClientSampleId :
RO-06

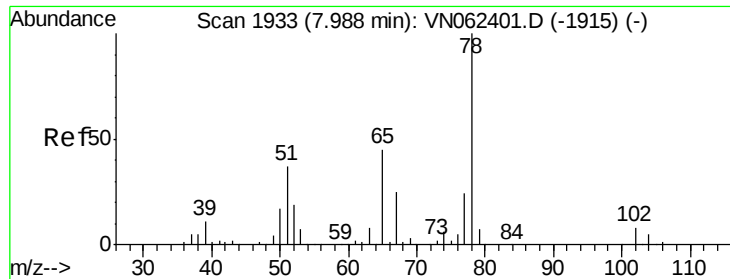
Tot Ion: 43 Resp: 2644
Ion Ratio Lower Upper
43 100
72 14.8 17.9 26.9#



#31
Cyclohexane
Concen: 1.014 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

Tgt Ion: 56 Resp: 4556
Ion Ratio Lower Upper
56 100
69 165.2 24.5 36.7#
84 114.0 57.4 86.2#

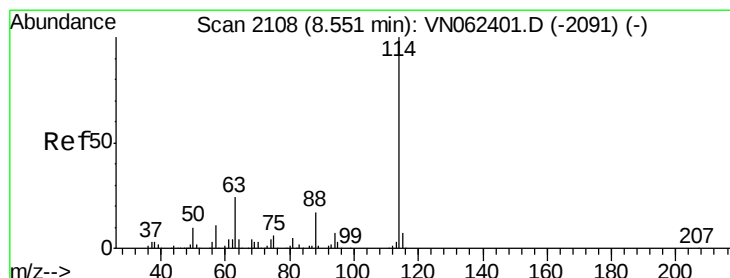
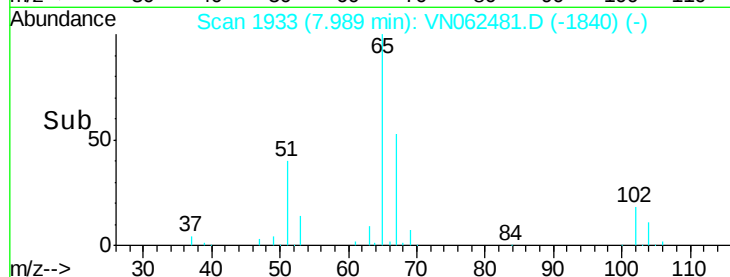
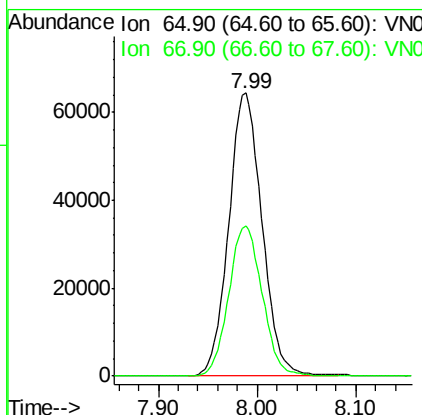
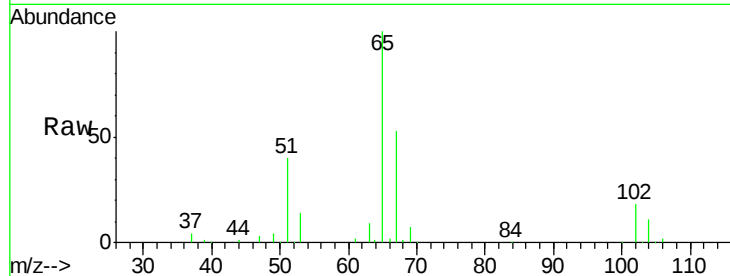




#33
 1,2-Dichloroethane-d4
 Concen: 51.241 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062481.D
 Acq: 10 Jul 2020 1:53

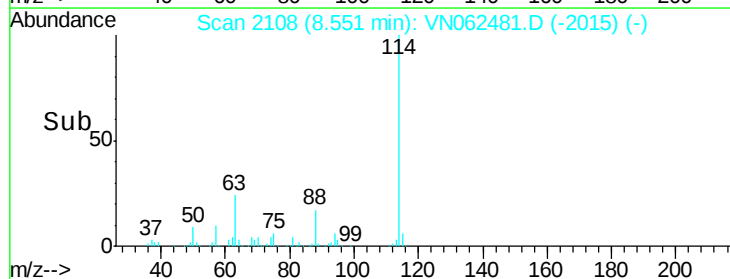
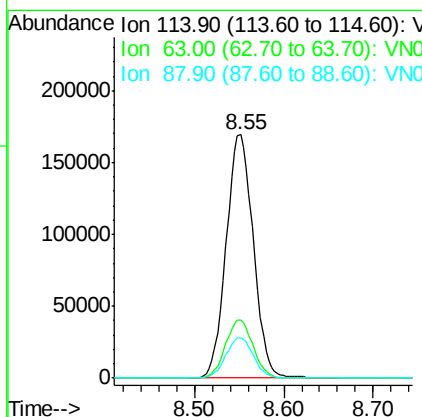
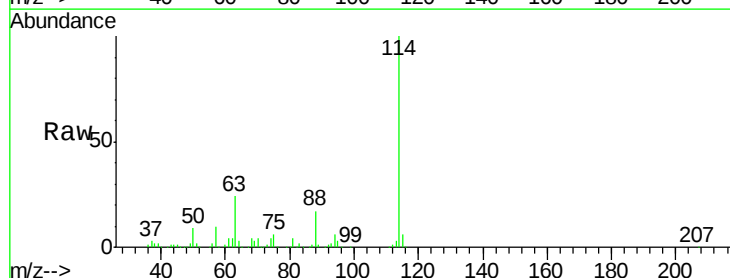
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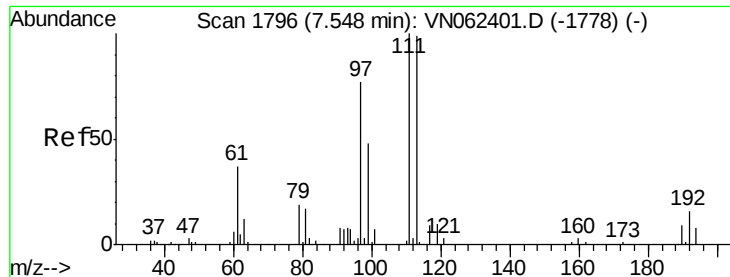
Tot Ion: 65 Resp: 151582
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062481.D
 Acq: 10 Jul 2020 1:53

Tgt Ion: 114 Resp: 357612
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 48.4
 88 16.6 0.0 33.8

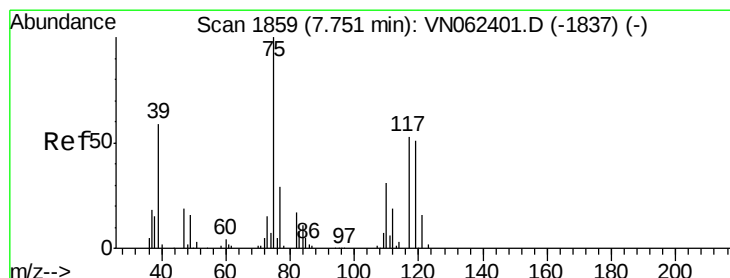
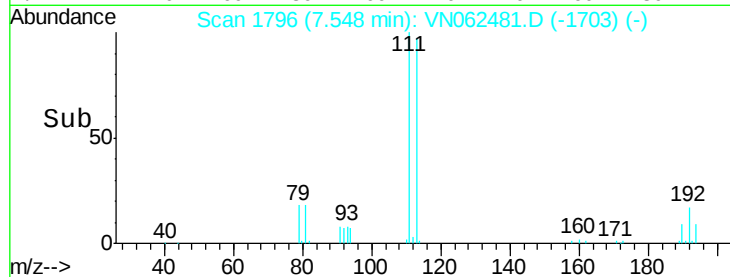
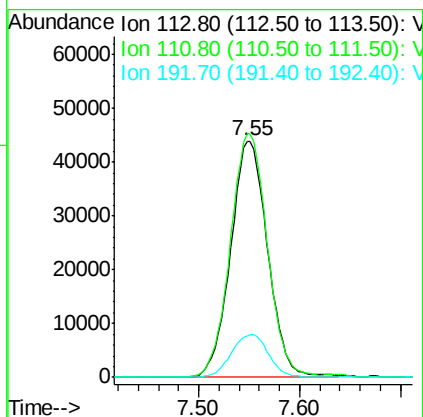
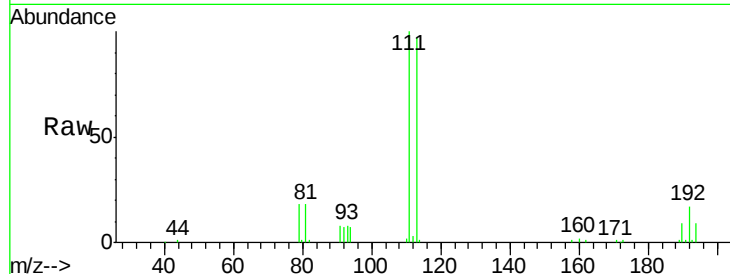




#35
 Dibromofluoromethane
 Concen: 50.652 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062481.D
 Acq: 10 Jul 2020 1:53

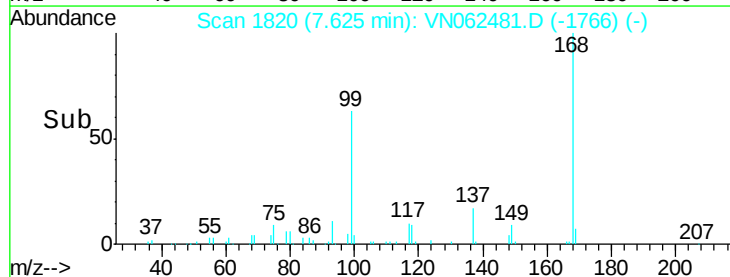
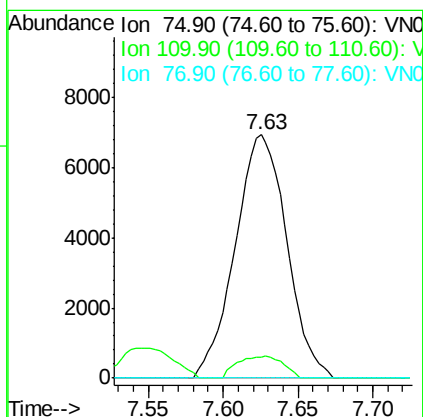
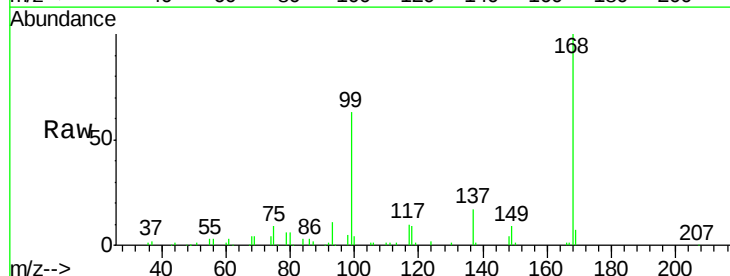
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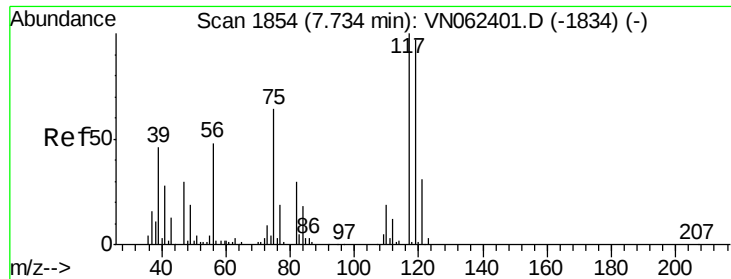
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.1	124.7
192	18.0	14.1	21.1



#36
 1,1-Dichloropropene
 Concen: 4.620 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062481.D
 Acq: 10 Jul 2020 1:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	15.4	46.2#
77	0.0	24.1	36.1#

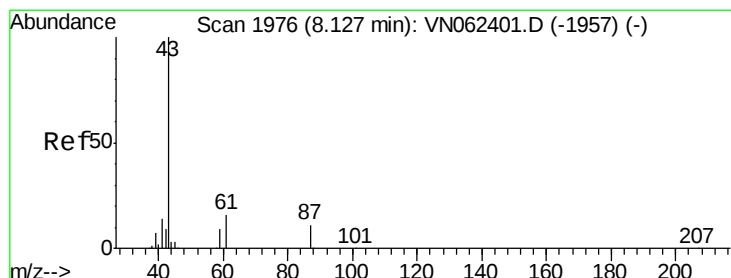
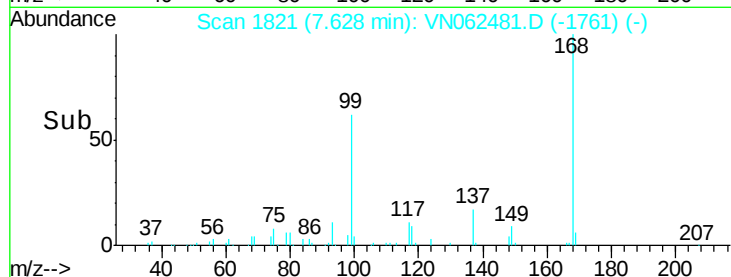
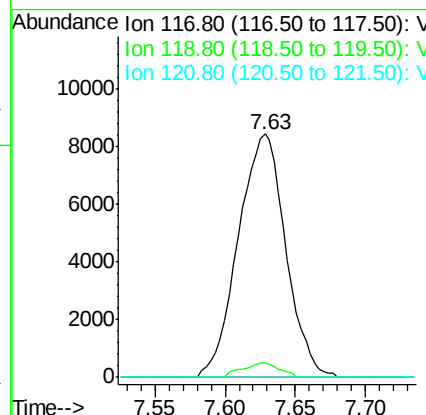
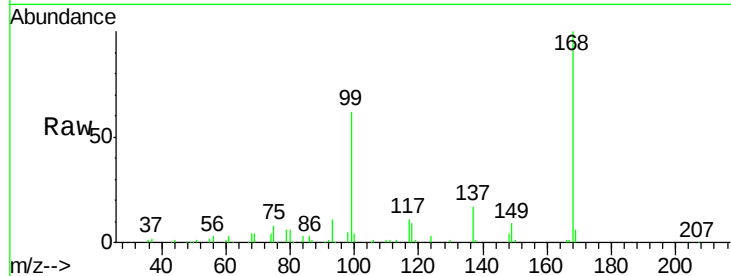




#38
Carbon Tetrachloride
Concen: 6.117 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.11 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

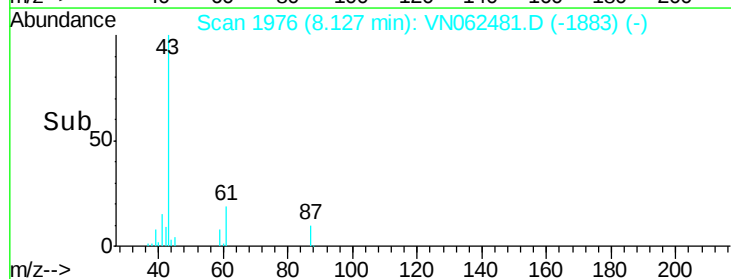
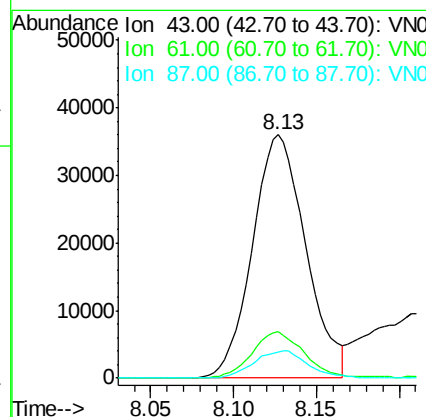
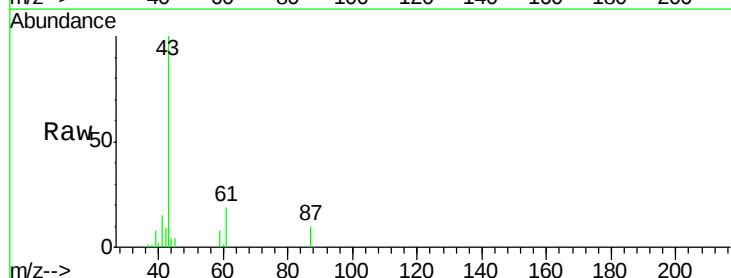
Instrument :
MSVOA_N
ClientSampled :
RO-06

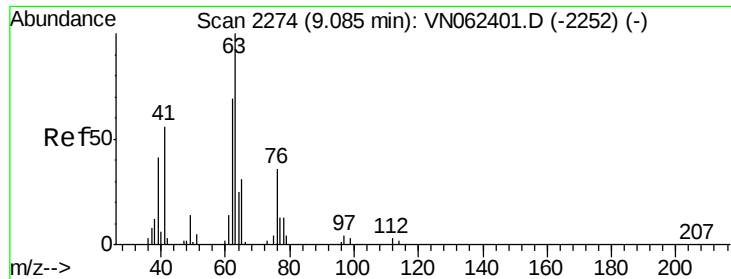
Tot Ion:117 Resp: 19815
Ion Ratio Lower Upper
117 100
119 5.8 77.2 115.8#
121 0.0 24.8 37.2#



#43
Isopropyl Acetate
Concen: 12.114 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

Tgt Ion: 43 Resp: 80622
Ion Ratio Lower Upper
43 100
61 18.9 19.3 28.9#
87 11.2 8.6 13.0





#45

1,2-Dichloropropane

Concen: 0.567 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

Instrument :

MSVOA_N

ClientSampled :

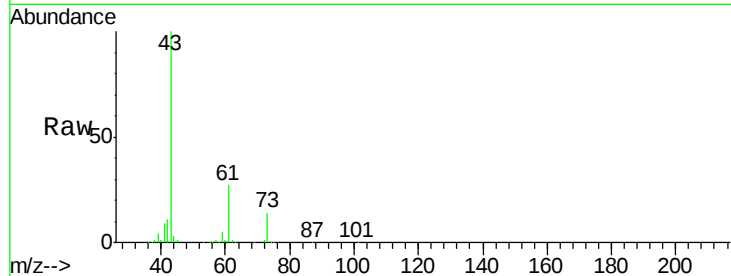
RO-06

Tot Ion: 63 Resp: 1748

Ion Ratio Lower Upper

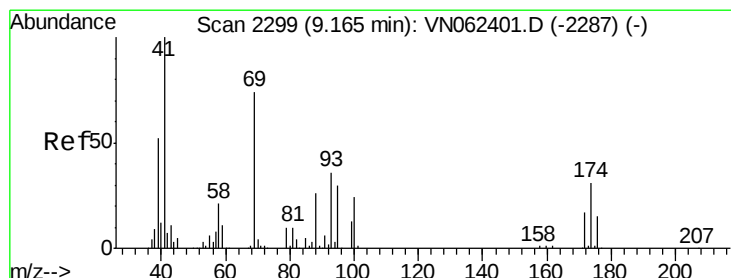
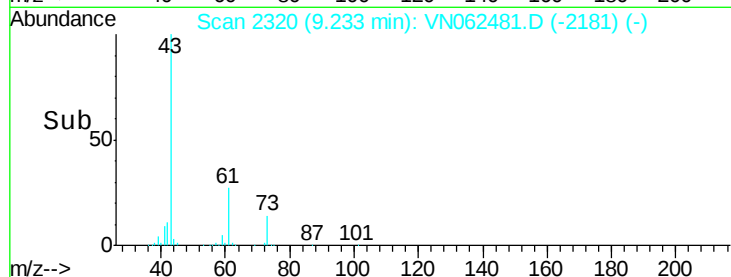
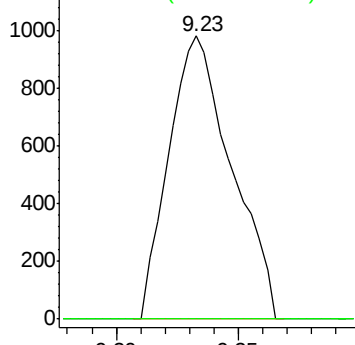
63 100

65 0.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.560 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

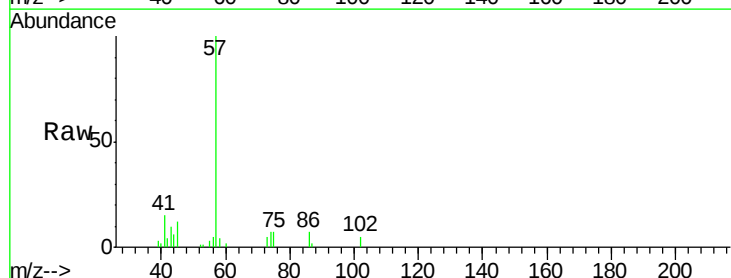
Tgt Ion: 41 Resp: 5093

Ion Ratio Lower Upper

41 100

69 0.0 60.8 91.2#

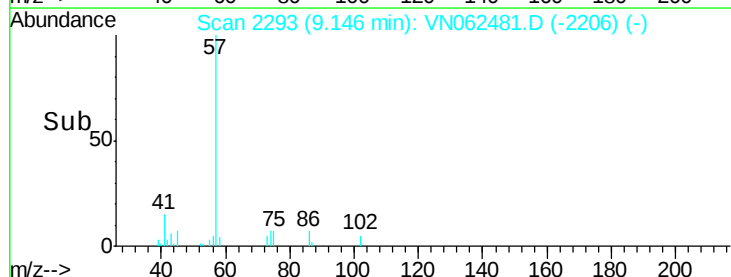
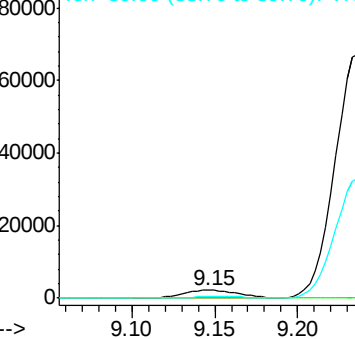
39 0.0 43.5 65.3#

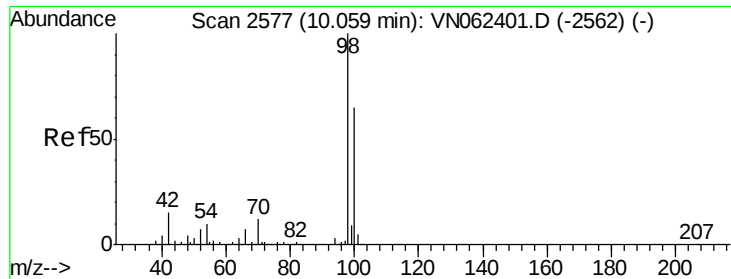


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 52.456 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

Instrument :

MSVOA_N

ClientSampled :

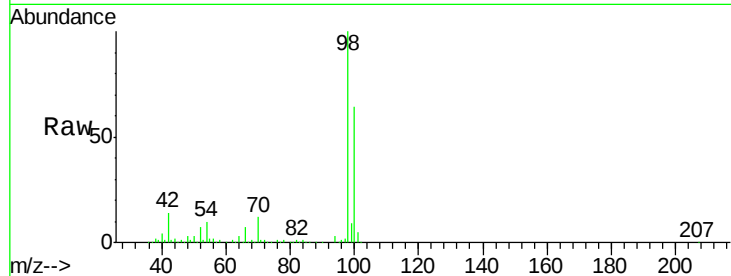
RO-06

Tot Ion: 98 Resp: 457758

Ion Ratio Lower Upper

98 100

100 64.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN062401.D (-2562) (-)

Ion 100.00 (99.70 to 100.70): VN062401.D (-2562) (-)

10.06

250000

200000

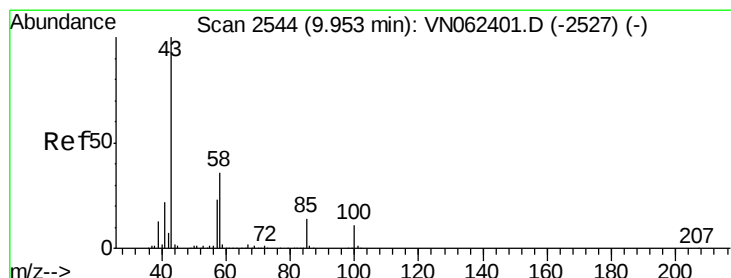
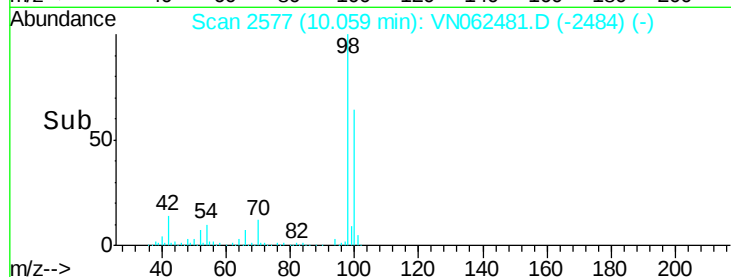
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.304 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062481.D

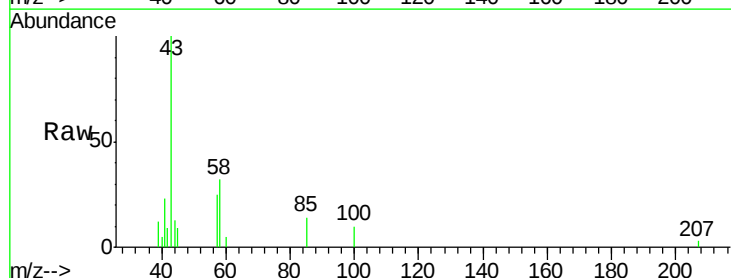
Acq: 10 Jul 2020 1:53

Tgt Ion: 43 Resp: 9157

Ion Ratio Lower Upper

43 100

58 33.6 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN062401.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN062401.D (-2527) (-)

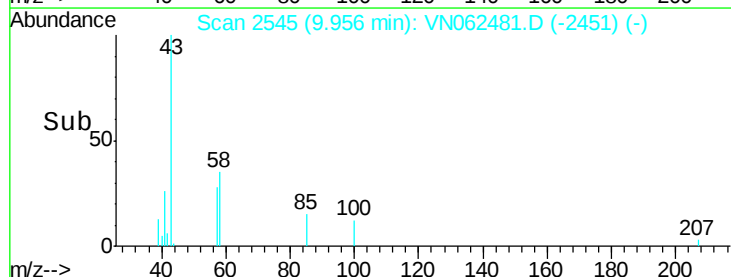
9.96

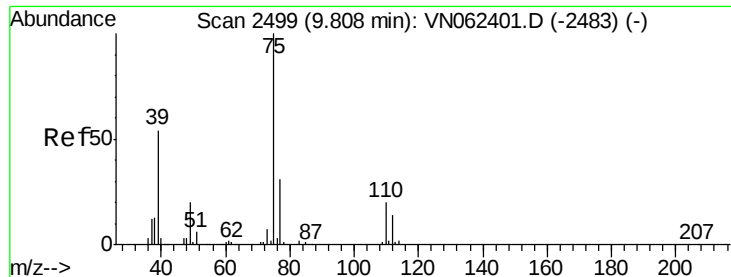
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.877 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

Instrument :

MSVOA_N

ClientSampleId :

RO-06

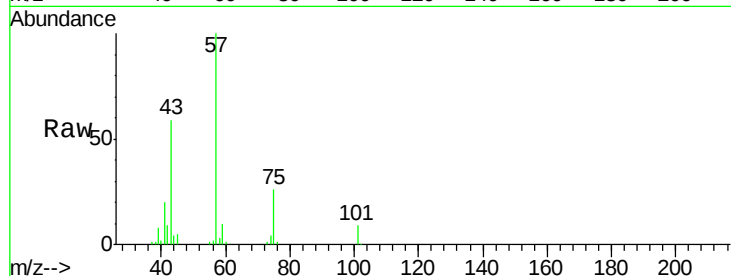
Tot Ion: 75 Resp: 31616

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

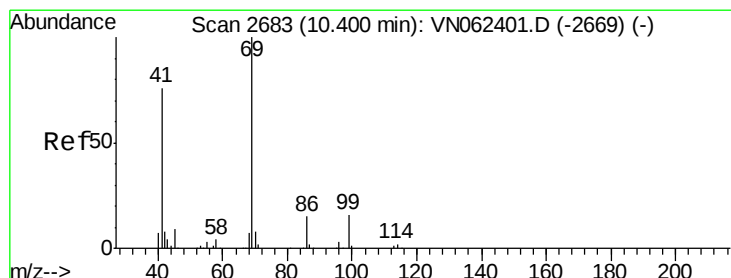
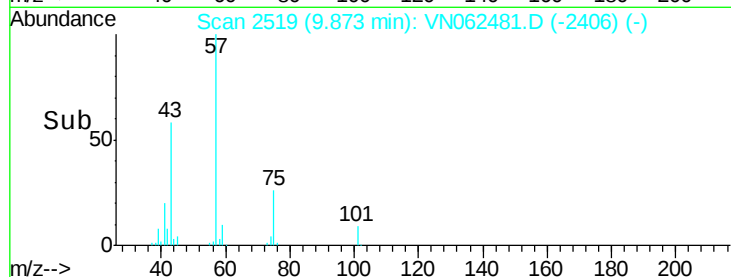
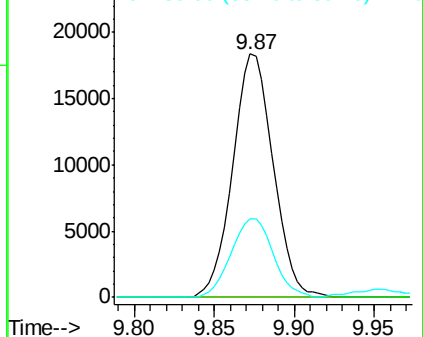
39 32.0 43.4 65.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062481.D (-2519) (-)

Ion 76.90 (76.60 to 77.60): VN062481.D (-2519) (-)

Ion 39.00 (38.70 to 39.70): VN062481.D (-2519) (-)



#56

Ethyl methacrylate

Concen: 1.980 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

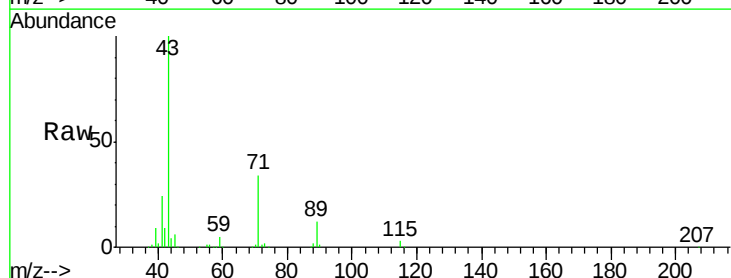
Tgt Ion: 69 Resp: 1231

Ion Ratio Lower Upper

69 100

41 5328.1 59.7 89.5#

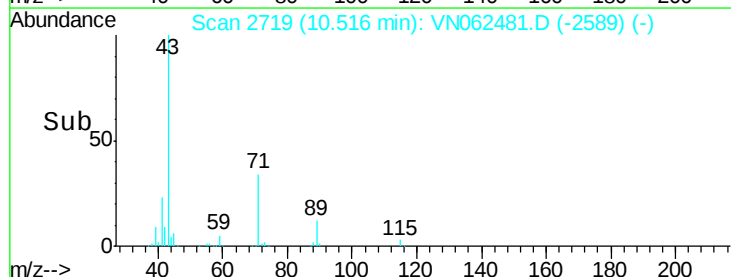
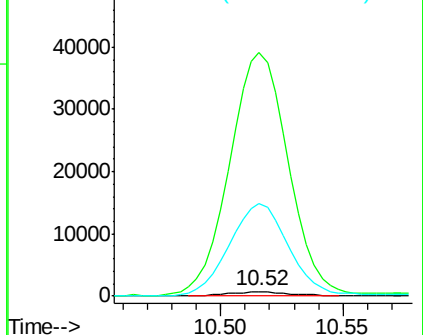
39 2066.6 30.6 45.8#

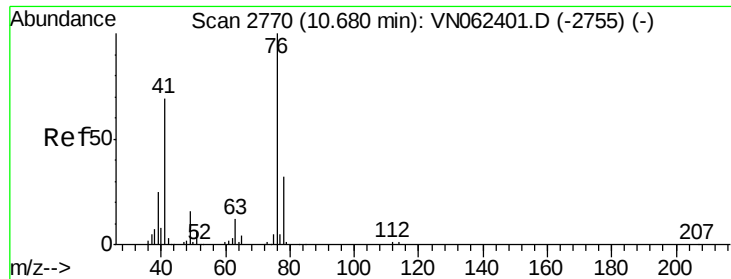


Abundance Ion 69.00 (68.70 to 69.70): VN062481.D (-2719) (-)

Ion 41.00 (40.70 to 41.70): VN062481.D (-2719) (-)

Ion 39.00 (38.70 to 39.70): VN062481.D (-2719) (-)

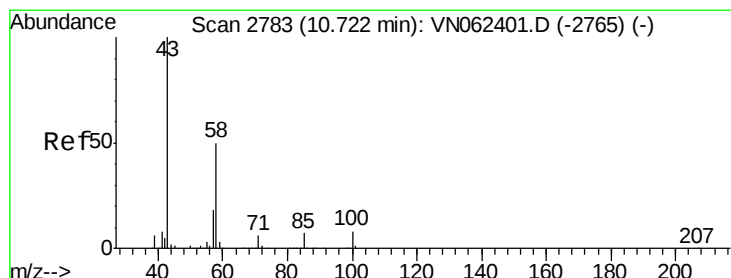
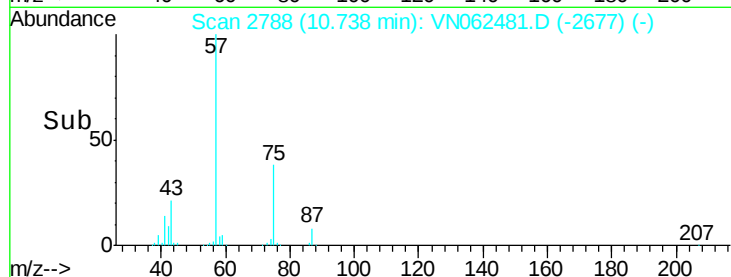
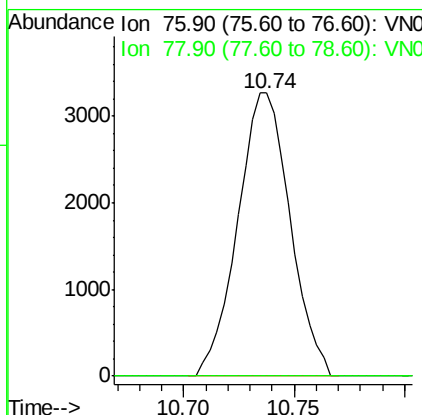
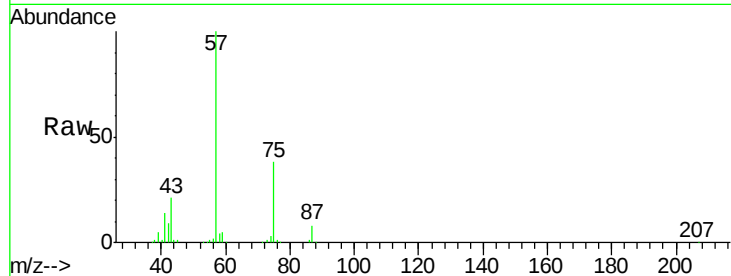




#57
 1,3-Dichloropropane
 Concen: 1.210 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062481.D
 Acq: 10 Jul 2020 1:53

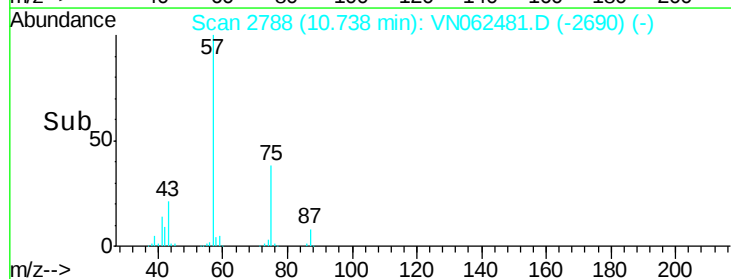
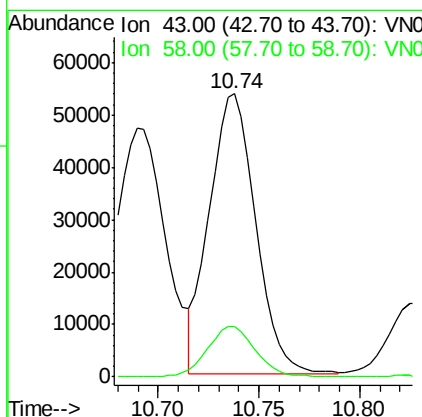
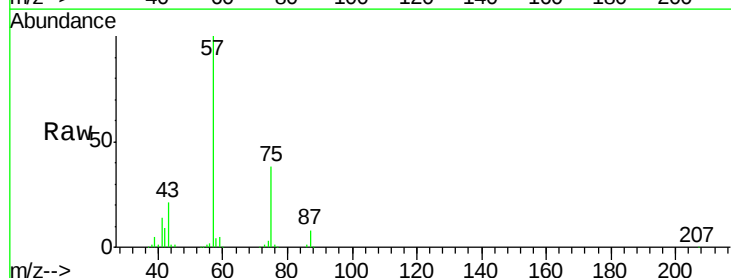
Instrument :
 MSVOA_N
 ClientSampled :
 RO-06

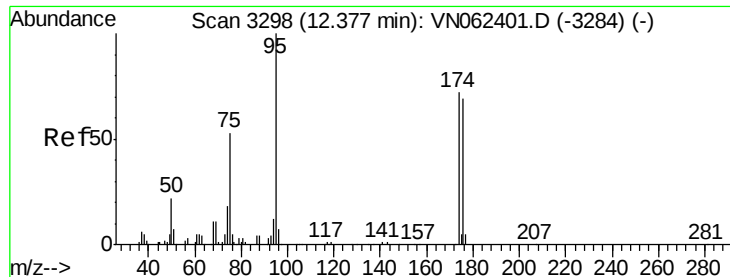
Tot Ion: 76 Resp: 5394
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 29.608 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062481.D
 Acq: 10 Jul 2020 1:53

Tgt Ion: 43 Resp: 85442
 Ion Ratio Lower Upper
 43 100
 58 18.5 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 52.570 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

Instrument :

MSVOA_N

ClientSampled :

RO-06

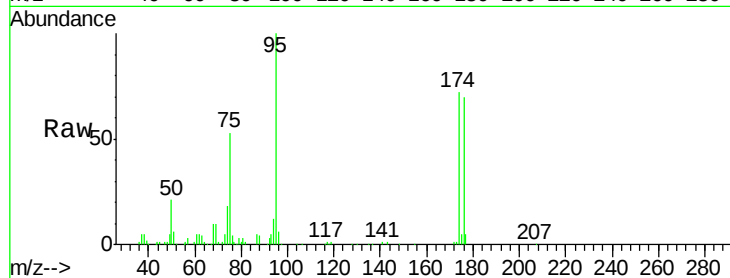
Tot Ion: 95 Resp: 167643

Ion Ratio Lower Upper

95 100

174 71.8 0.0 141.6

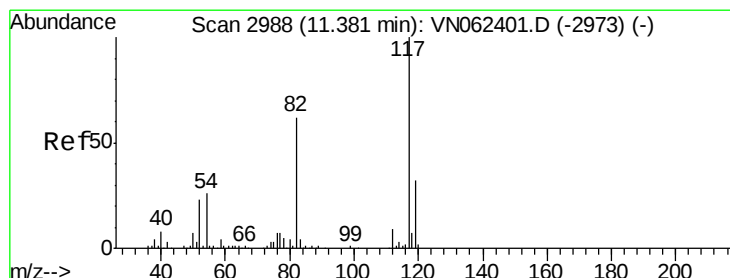
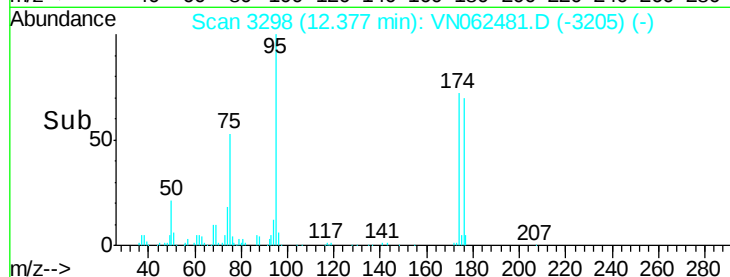
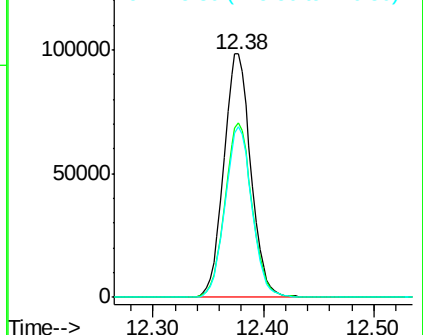
176 69.3 0.0 137.2



Abundance Ion 94.90 (94.60 to 95.60): VN062481.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062481.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062481.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

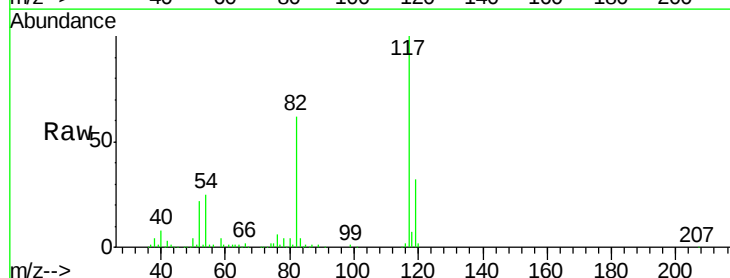
Tgt Ion: 117 Resp: 343531

Ion Ratio Lower Upper

117 100

82 62.2 49.6 74.4

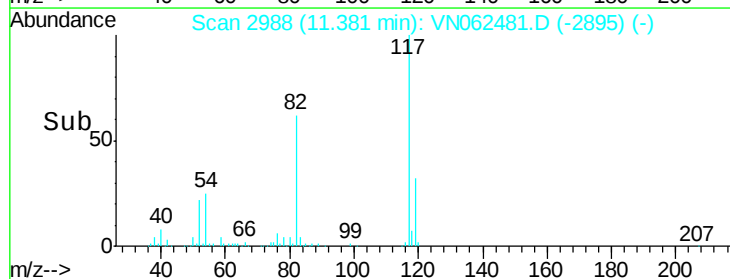
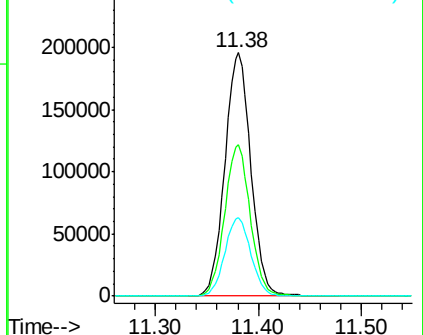
119 32.2 25.4 38.0

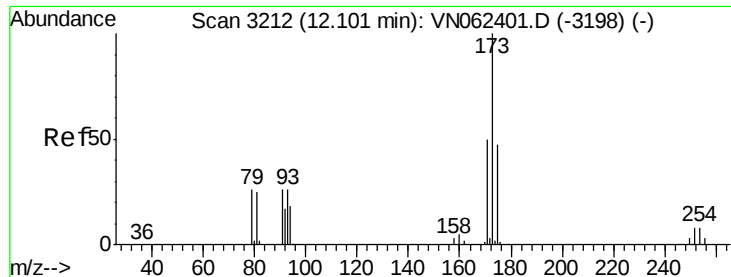


Abundance Ion 116.90 (116.60 to 117.60): VN062481.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062481.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062481.D (-2895) (-)

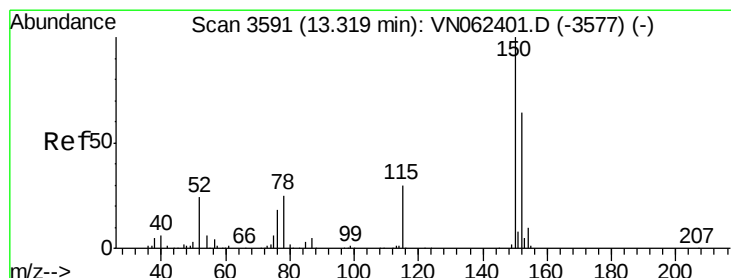
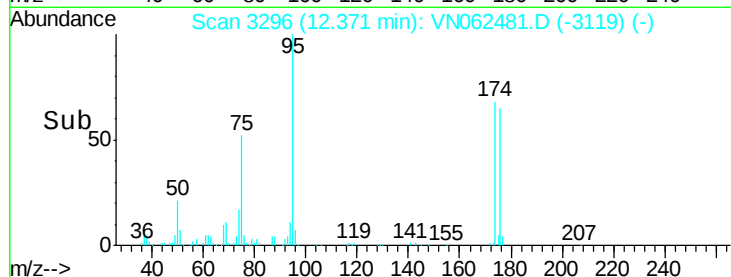
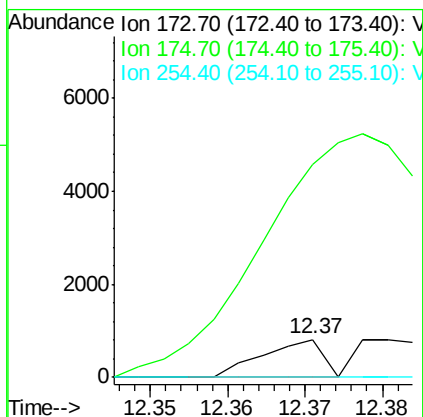
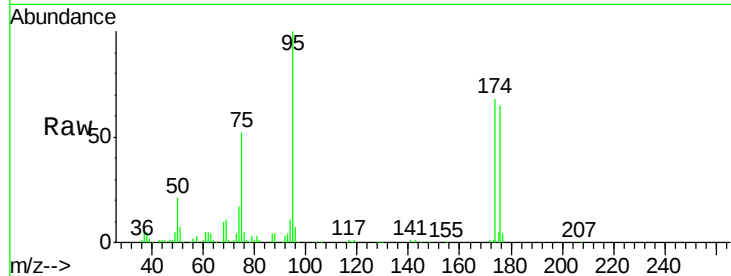




#71
Bromoform
Concen: 0.244 ug/l
RT: 12.37 min Scan# 3296
Delta R.T. 0.27 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

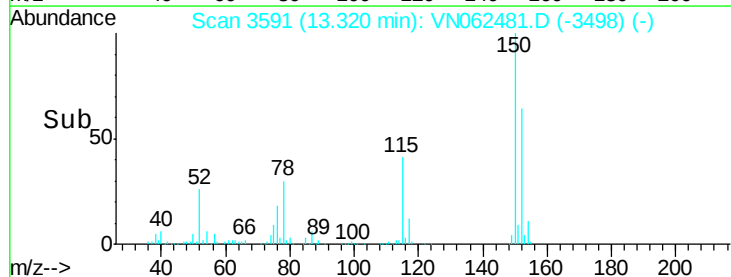
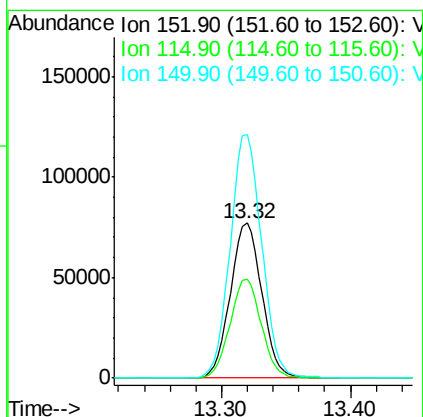
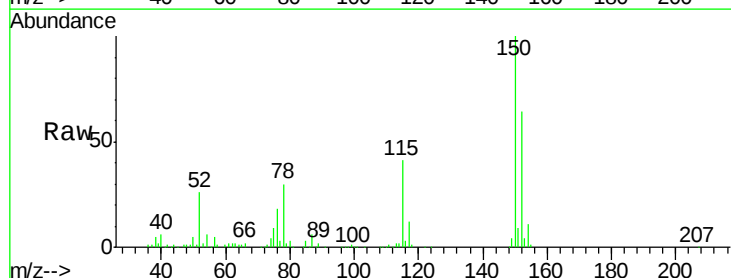
Instrument :
MSVOA_N
ClientSampled :
RO-06

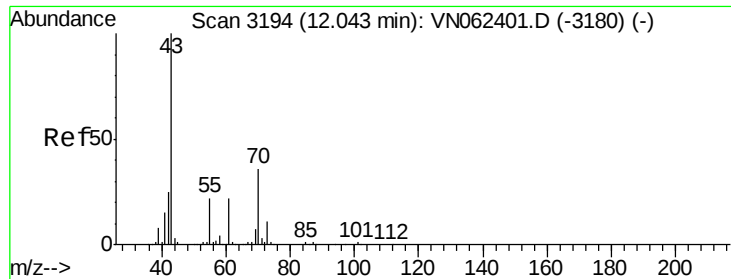
Tot Ion:173 Resp: 440
Ion Ratio Lower Upper
173 100
175 0.0 23.7 71.1#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062481.D
Acq: 10 Jul 2020 1:53

Tgt Ion:152 Resp: 131374
Ion Ratio Lower Upper
152 100
115 63.1 31.4 94.2
150 157.3 0.0 347.4





#74

N-amvl acetate

Concen: 0.845 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

Instrument :

MSVOA_N

ClientSampleId :

RO-06

Tot Ion: 43 Resp: 4181

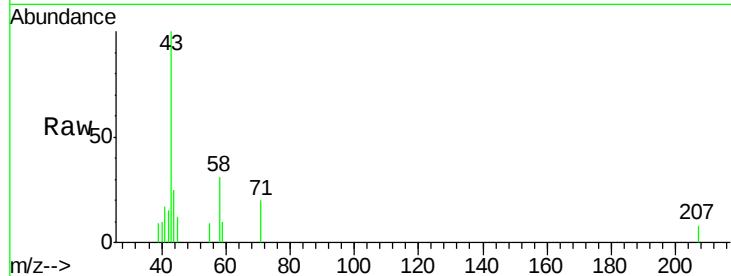
Ion Ratio Lower Upper

43 100

70 0.0 30.0 45.0#

55 1.5 18.2 27.4#

61 0.0 17.7 26.5#

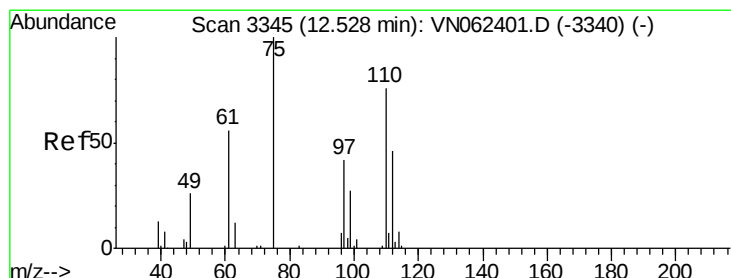
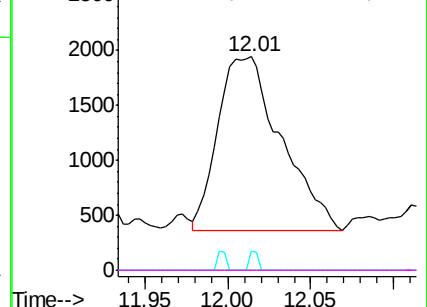
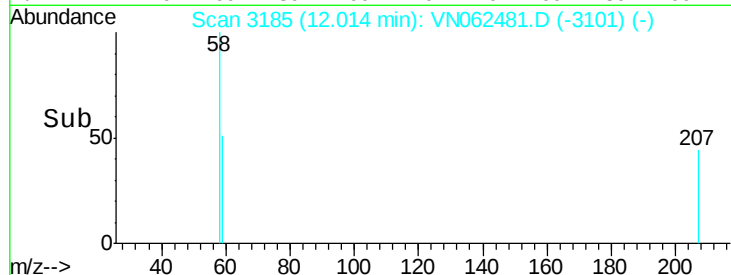


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.684 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062481.D

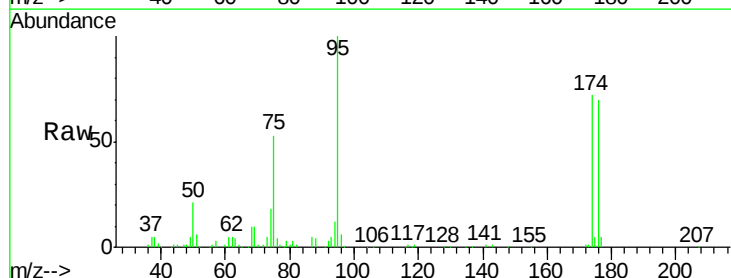
Acq: 10 Jul 2020 1:53

Tgt Ion: 75 Resp: 89240

Ion Ratio Lower Upper

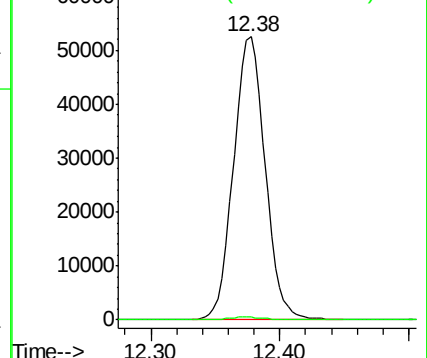
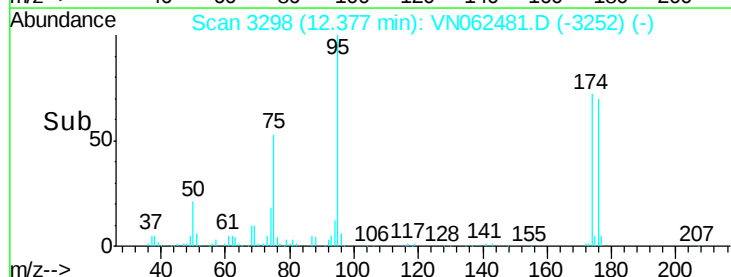
75 100

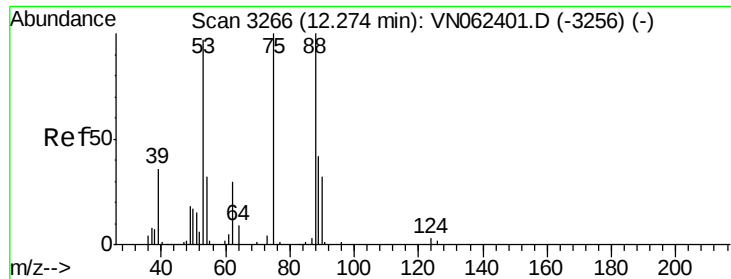
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.100 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

Instrument :

MSVOA_N

ClientSampleId :

RO-06

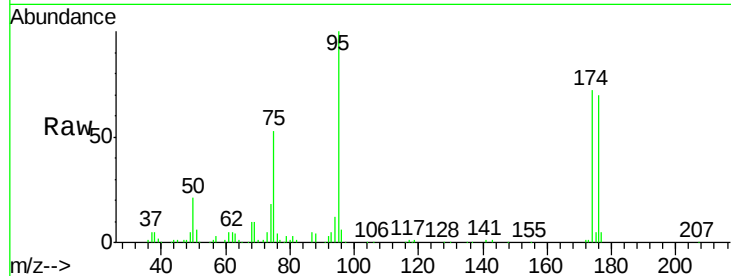
Tot Ion: 75 Resp: 89240

Ion Ratio Lower Upper

75 100

53 0.0 79.2 118.8#

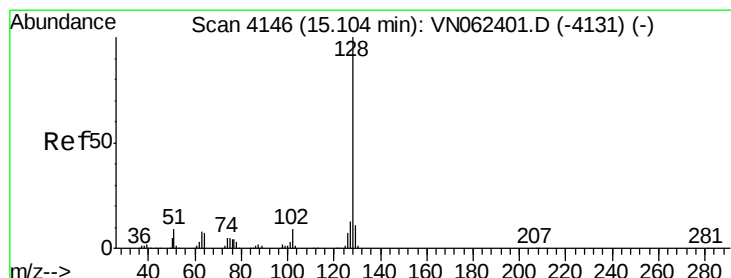
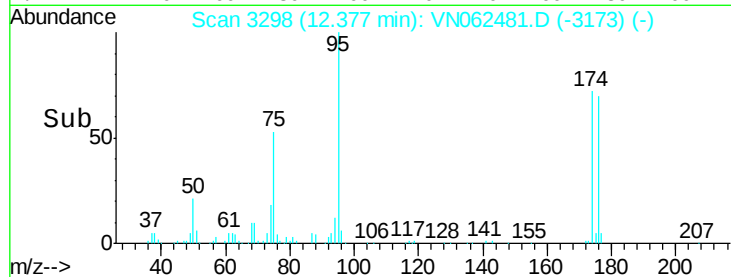
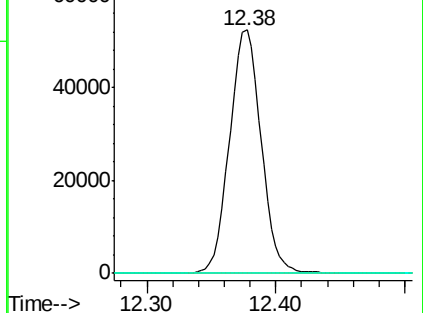
89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062481.D

Acq: 10 Jul 2020 1:53

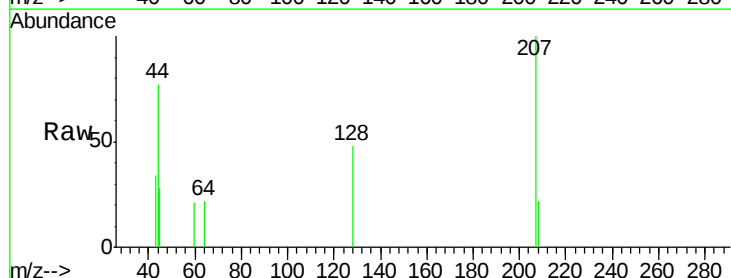
Tgt Ion: 128 Resp: 610

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 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

