

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120420\
 Data File : VN064923.D
 Acq On : 4 Dec 2020 16:54
 Operator : JC/MD
 Sample : L4954-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SS013-13-6093-120120

Quant Time: Dec 05 01:31:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	170341	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	307499	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	318548	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	143212	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	107560	54.31	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	108.62%
35) Dibromofluoromethane	7.55	113	98316	53.43	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	106.86%
50) Toluene-d8	10.06	98	383421	51.00	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.00%
62) 4-Bromofluorobenzene	12.38	95	149036	55.39	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	110.78%

Target Compounds

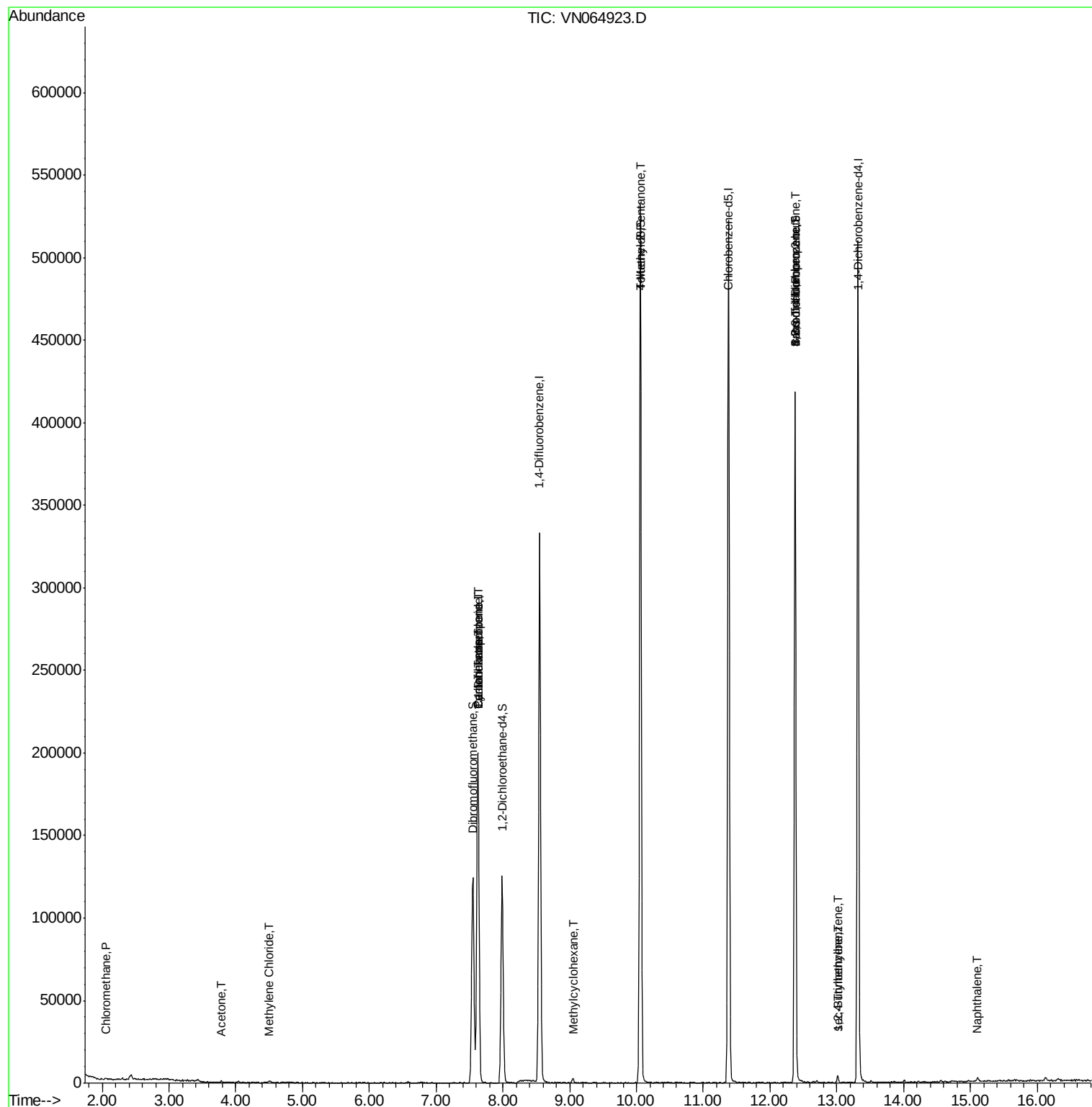
					Qvalue	
3) Chloromethane	2.04	50	654	0.341	ug/l #	41
16) Acetone	3.79	43	1669	2.564	ug/l	97
20) Methylene Chloride	4.51	84	568	0.278	ug/l #	73
31) Cyclohexane	7.62	56	3582	1.298	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11887	4.171	ug/l #	48
38) Carbon Tetrachloride	7.63	117	16376	5.522	ug/l #	15
39) Methylcyclohexane	9.05	83	1291	0.421	ug/l #	91
51) 4-Methyl-2-Pentanone	10.06	43	1809	0.682	ug/l #	1
71) Bromoform	12.38	173	724	0.361	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	71810	23.283	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	71810	63.814	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.02	105	3384	0.404	ug/l	97
85) sec-Butylbenzene	13.02	105	3384	0.367	ug/l #	56
95) Naphthalene	15.11	128	2775	0.320	ug/l #	93

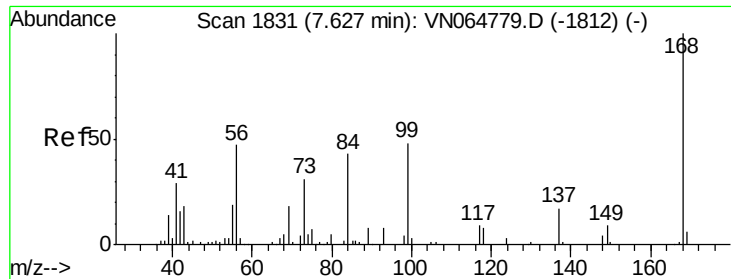
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

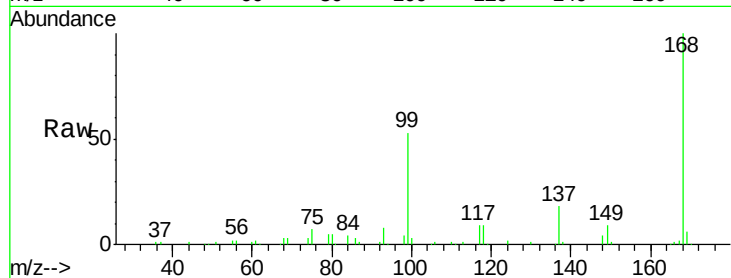
SS013-13-6093-120120

Tot Ion:168 Resp: 170341

Ion Ratio Lower Upper

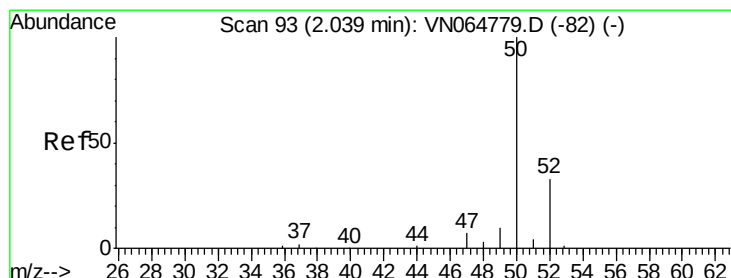
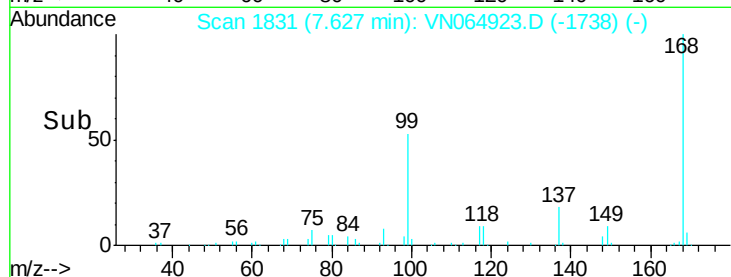
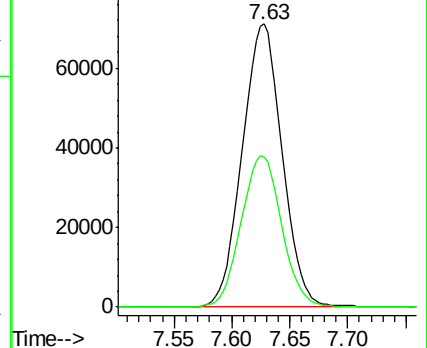
168 100

99 53.0 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.341 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN064923.D

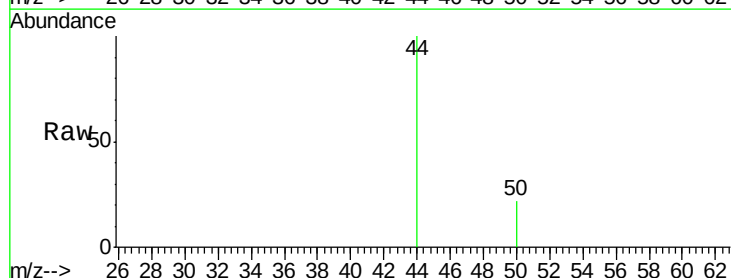
Acq: 4 Dec 2020 16:54

Tgt Ion: 50 Resp: 654

Ion Ratio Lower Upper

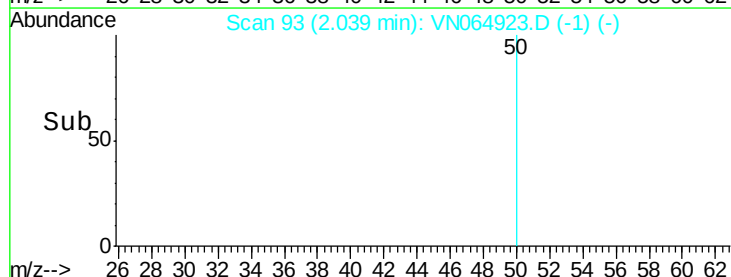
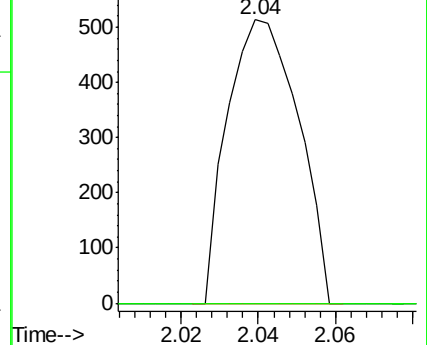
50 100

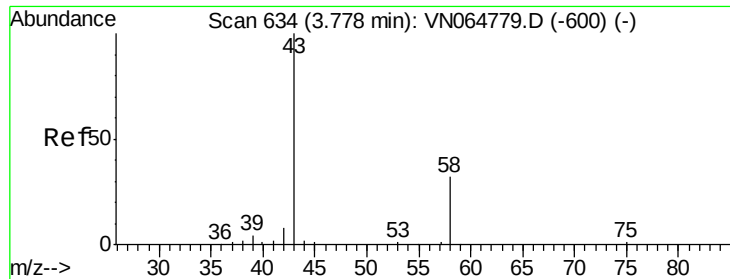
52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#16

Acetone

Concen: 2.564 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

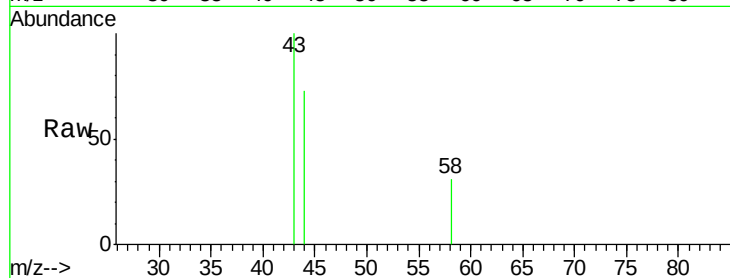
SS013-13-6093-120120

Tot Ion: 43 Resp: 1669

Ion Ratio Lower Upper

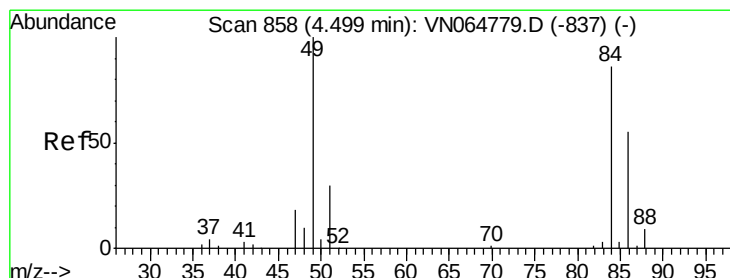
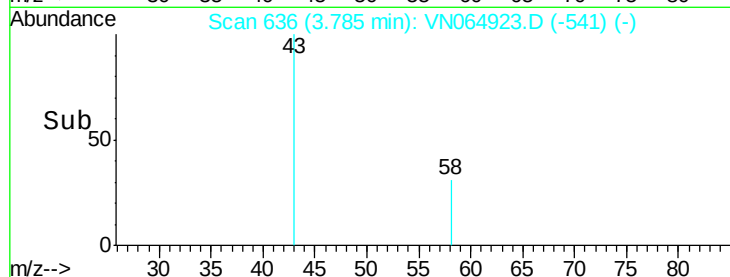
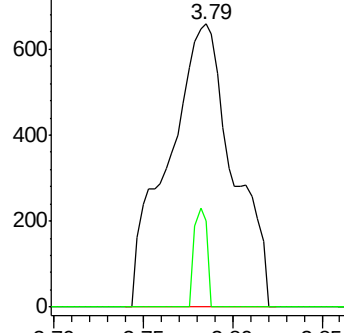
43 100

58 30.5 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 0.278 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.01 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Tgt Ion: 84 Resp: 568

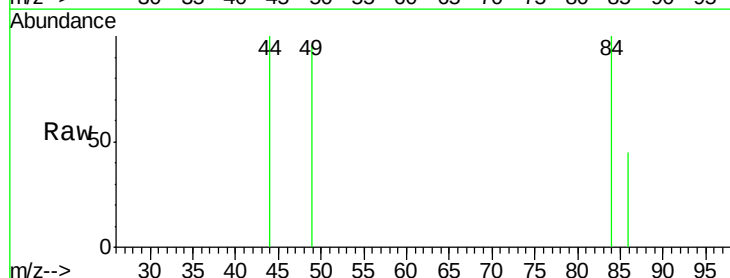
Ion Ratio Lower Upper

84 100

49 95.8 93.4 140.0

51 0.0 28.2 42.4#

86 45.5 51.7 77.5#

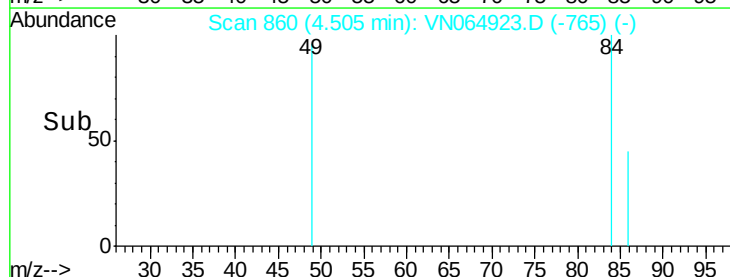
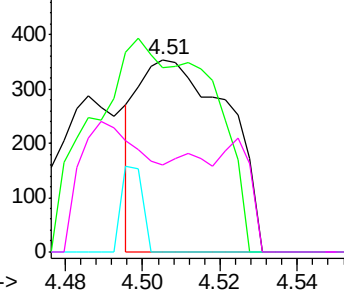


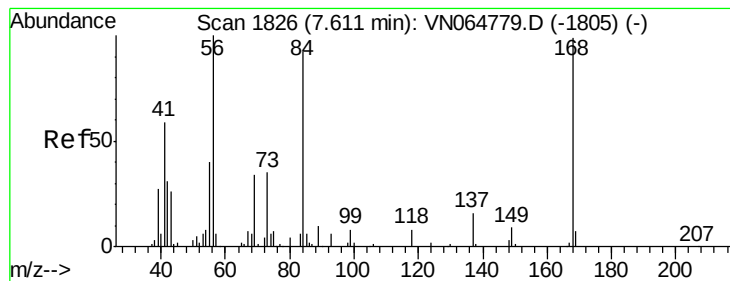
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





#31

Cyclohexane

Concen: 1.298 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6093-120120

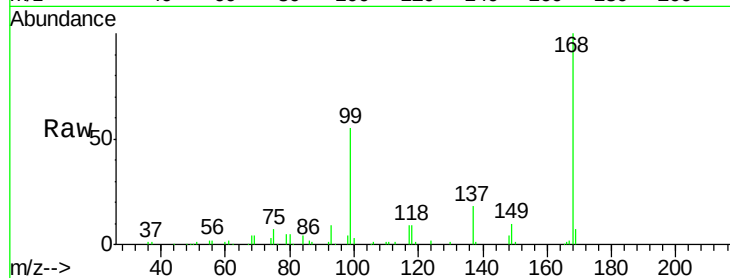
Tot Ion: 56 Resp: 3582

Ion Ratio Lower Upper

56 100

69 171.8 27.5 41.3#

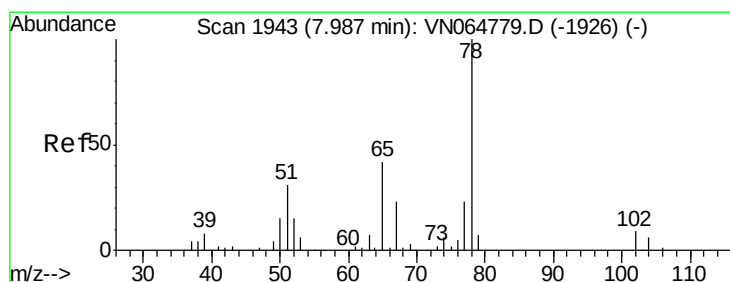
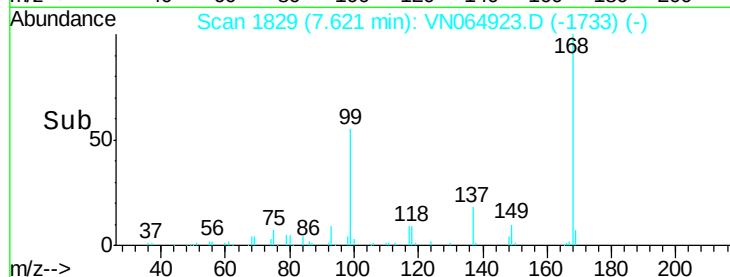
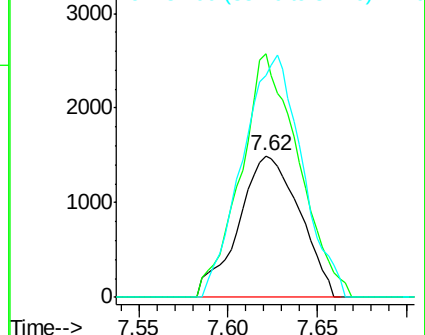
84 156.3 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.314 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064923.D

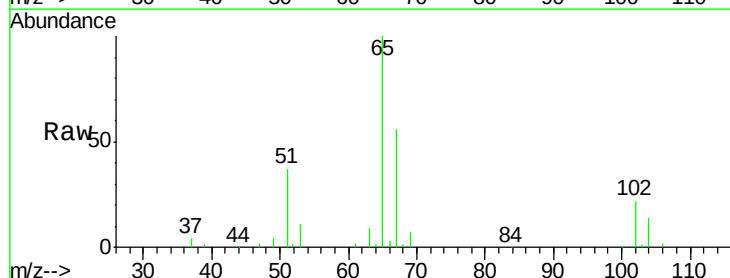
Acq: 4 Dec 2020 16:54

Tgt Ion: 65 Resp: 107560

Ion Ratio Lower Upper

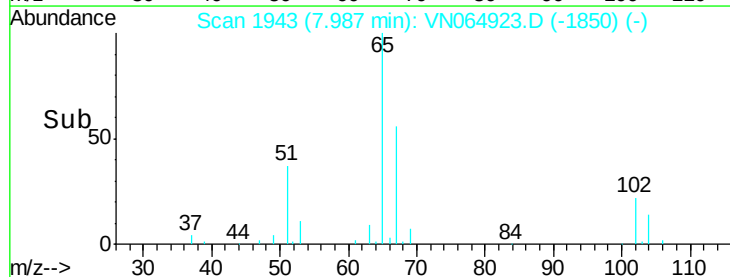
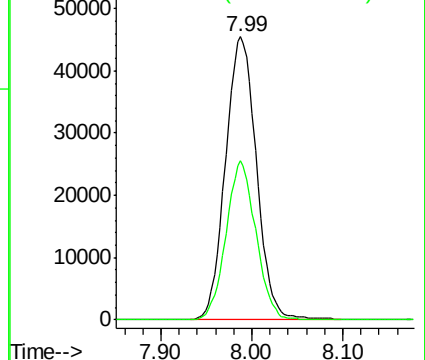
65 100

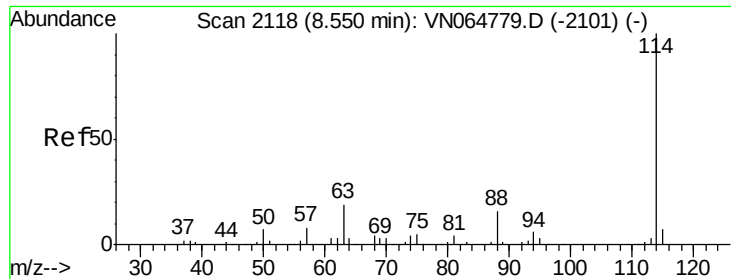
67 54.0 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

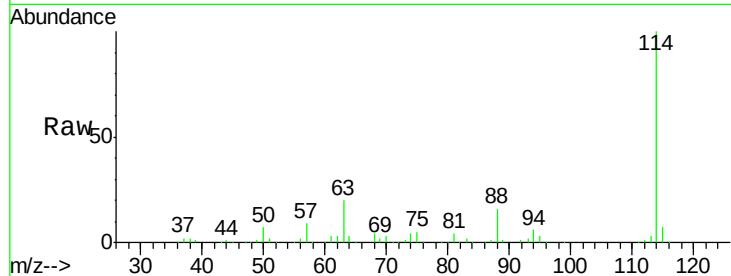




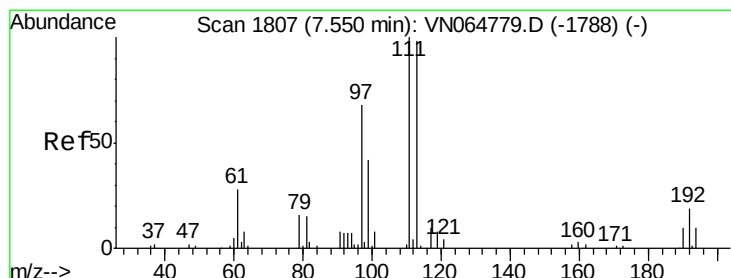
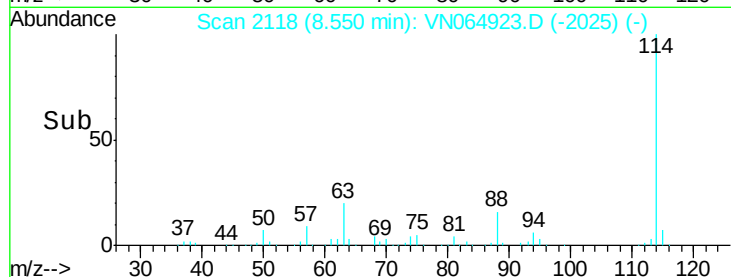
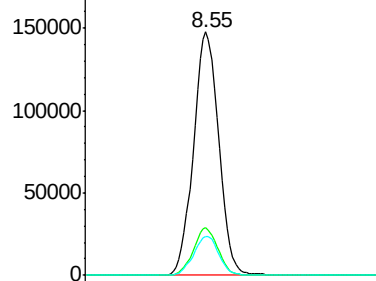
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064923.D
 Acq: 4 Dec 2020 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 SS013-13-6093-120120

Tot Ion:114 Resp: 307499
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.6
 88 16.0 0.0 32.6

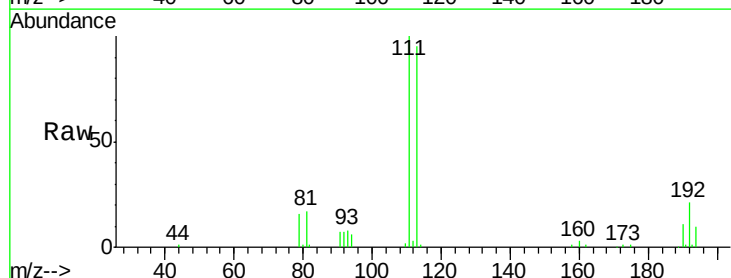


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

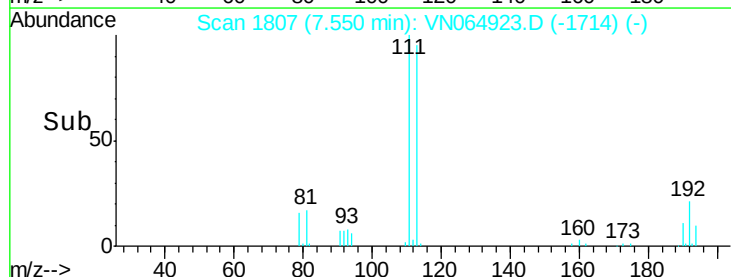
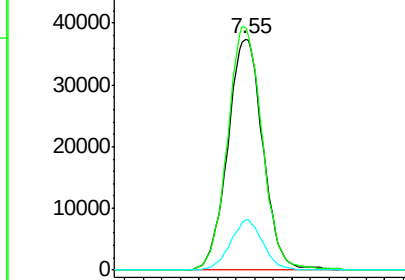


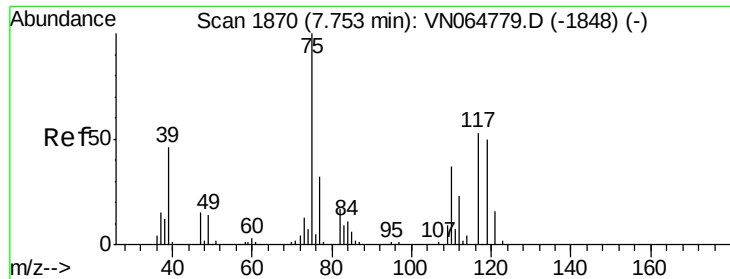
#35
 Dibromofluoromethane
 Concen: 53.433 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064923.D
 Acq: 4 Dec 2020 16:54

Tgt Ion:113 Resp: 98316
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.6 122.4
 192 19.9 16.2 24.2



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: 4.171 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6093-120120

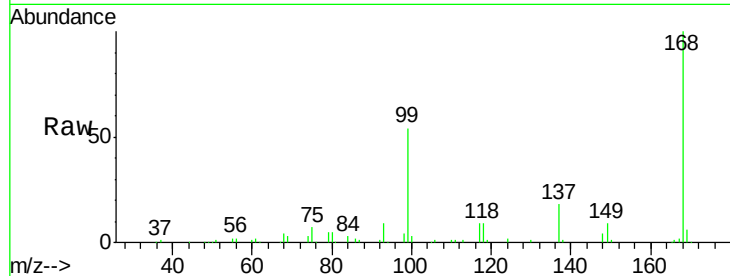
Tot Ion: 75 Resp: 11887

Ion Ratio Lower Upper

75 100

110 7.8 17.8 53.3#

77 0.0 25.0 37.4#

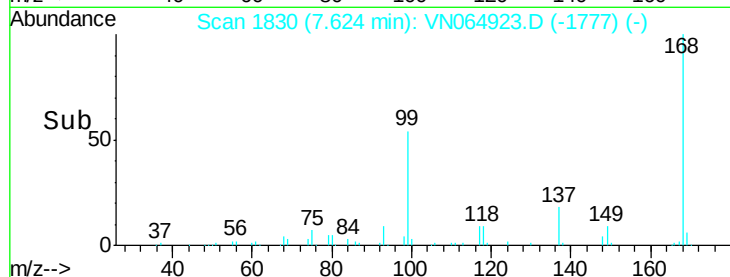


Abundance Ion 74.90 (74.60 to 75.60): VN064923.D (-1777) (-)

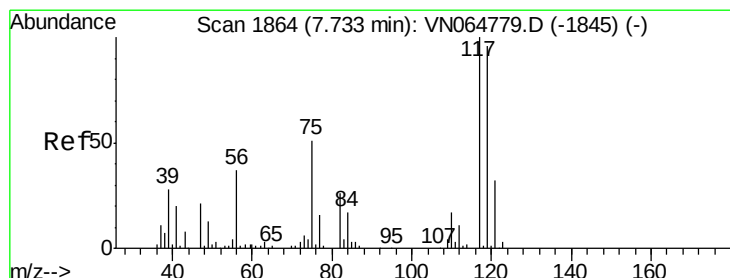
Ion 109.90 (109.60 to 110.60): VN064923.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN064923.D (-1777) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 5.522 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

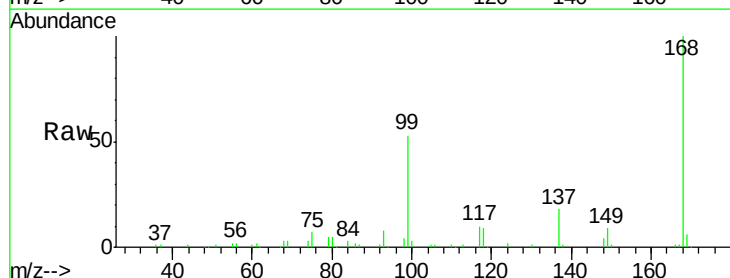
Tgt Ion: 117 Resp: 16376

Ion Ratio Lower Upper

117 100

119 4.0 76.7 115.1#

121 0.0 25.4 38.2#

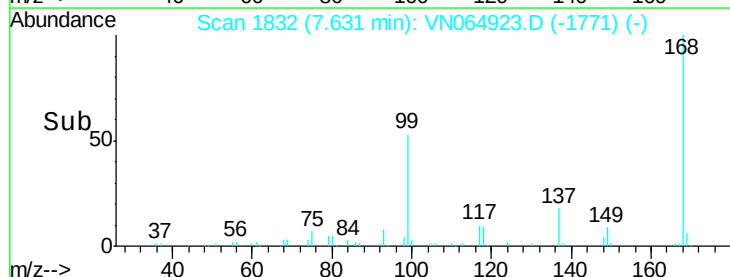


Abundance Ion 116.80 (116.50 to 117.50): VN064923.D (-1771) (-)

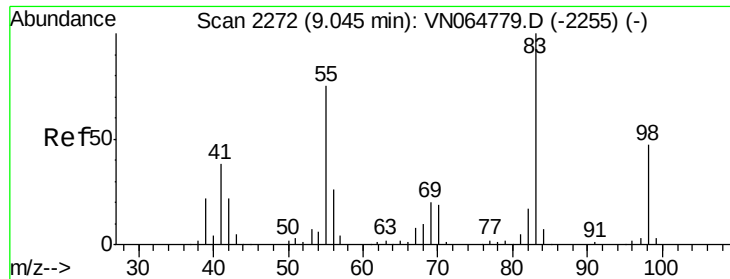
Ion 118.80 (118.50 to 119.50): VN064923.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN064923.D (-1771) (-)

Time-->



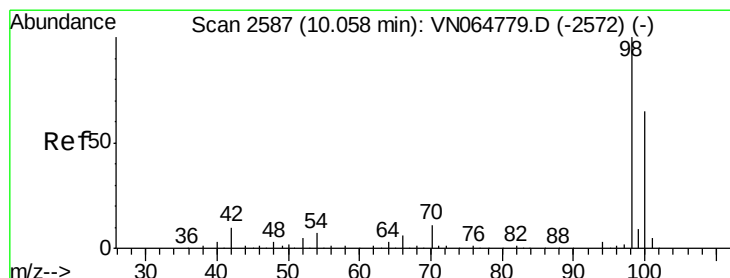
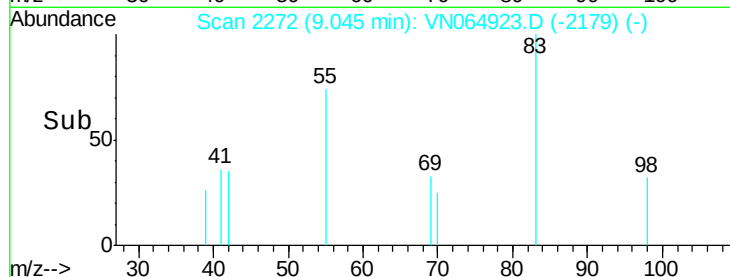
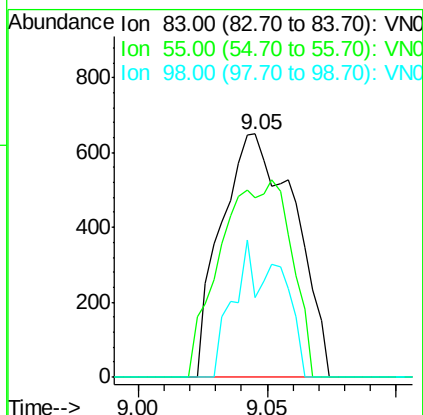
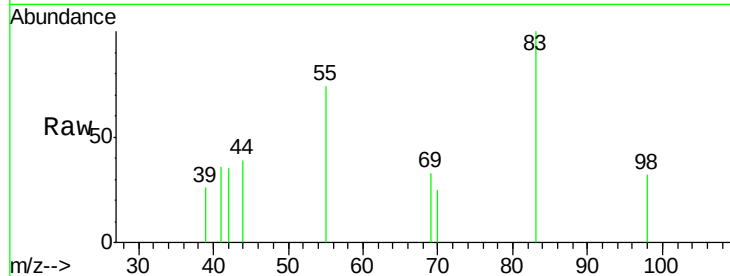
Time-->



#39
Methvlcvclohexane
Concen: 0.421 ug/l
RT: 9.05 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN064923.D
Acq: 4 Dec 2020 16:54

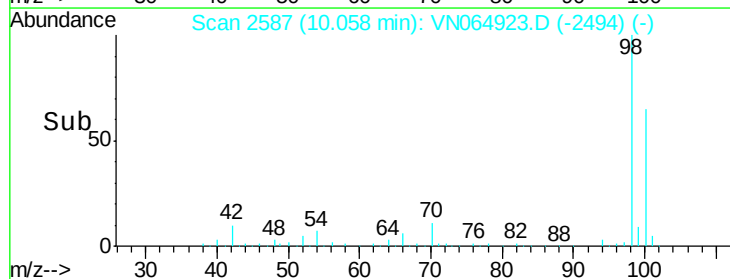
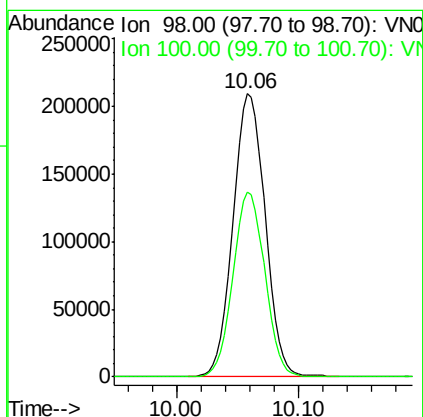
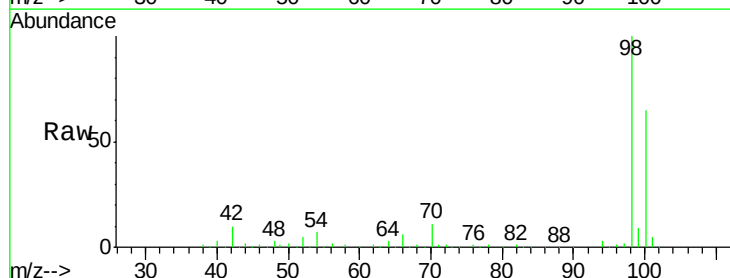
Instrument :
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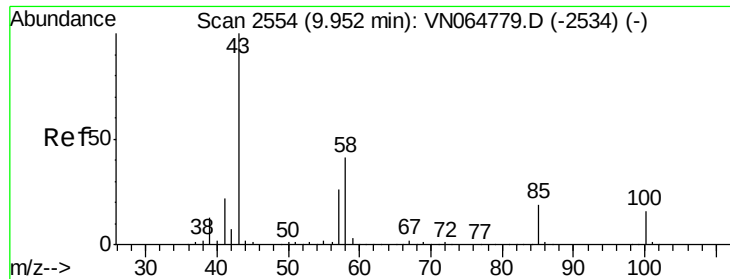
Tot Ion: 83 Resp: 1291
Ion Ratio Lower Upper
83 100
55 73.8 60.2 90.2
98 32.5 37.4 56.2#



#50
Toluene-d8
Concen: 51.000 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064923.D
Acq: 4 Dec 2020 16:54

Tgt Ion: 98 Resp: 383421
Ion Ratio Lower Upper
98 100
100 64.7 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.682 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

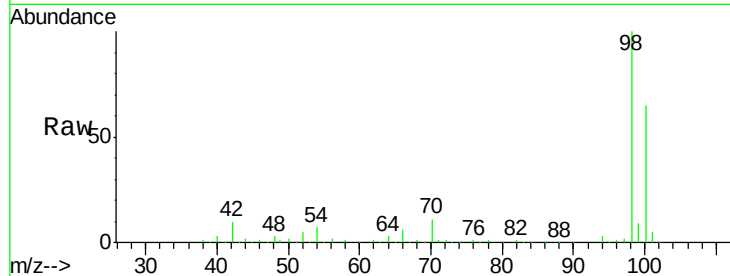
SS013-13-6093-120120

Tot Ion: 43 Resp: 1809

Ion Ratio Lower Upper

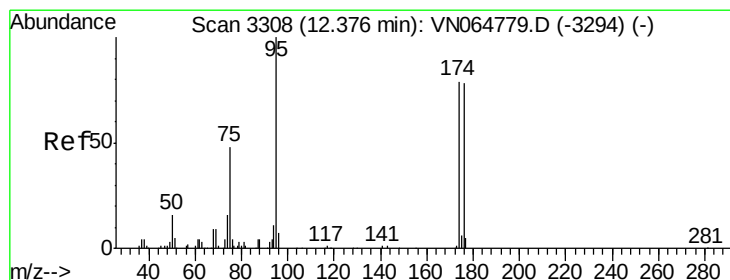
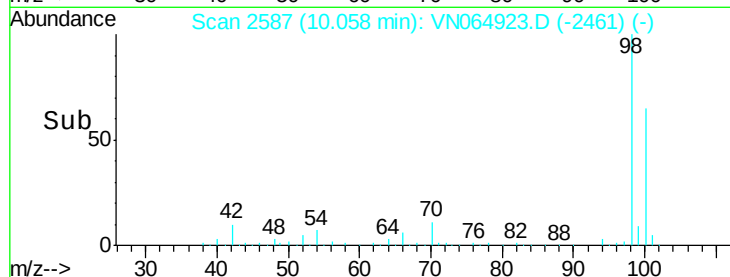
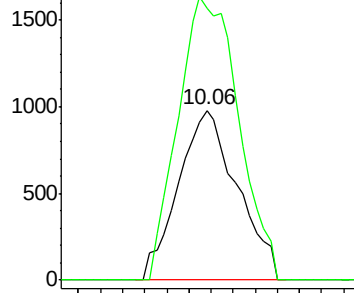
43 100

58 171.7 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 55.392 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

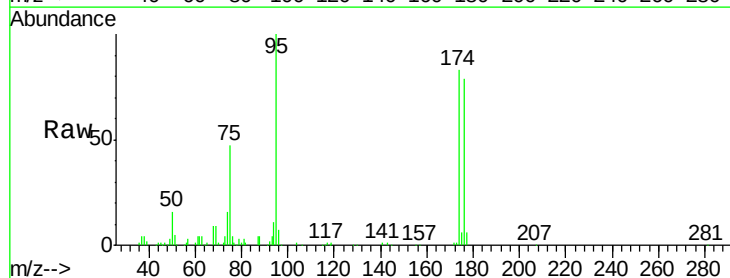
Tgt Ion: 95 Resp: 149036

Ion Ratio Lower Upper

95 100

174 82.6 0.0 160.4

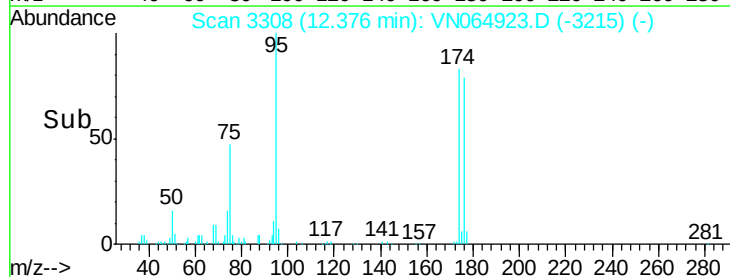
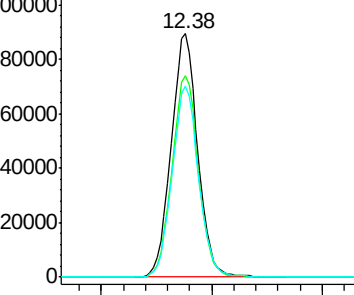
176 78.2 0.0 158.4

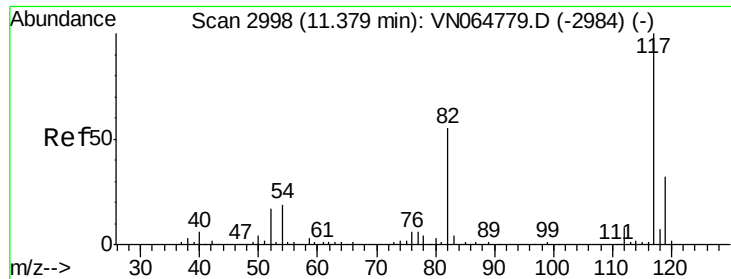


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6093-120120

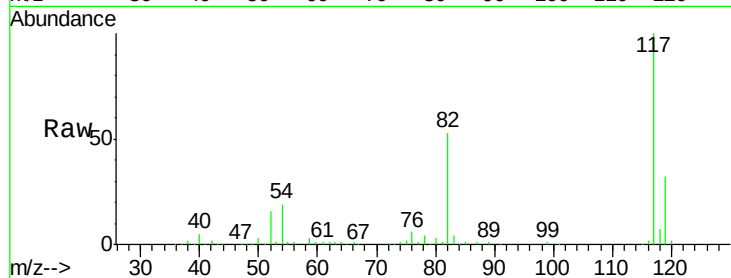
Tot Ion:117 Resp: 318548

Ion Ratio Lower Upper

117 100

82 53.5 44.2 66.2

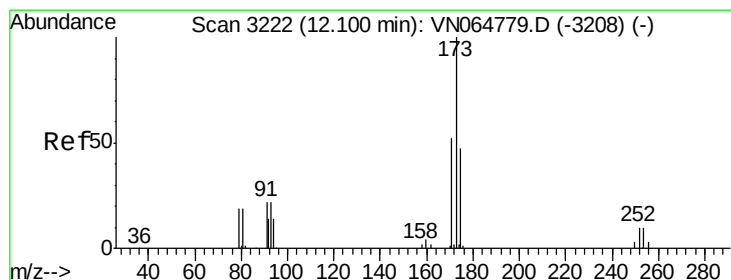
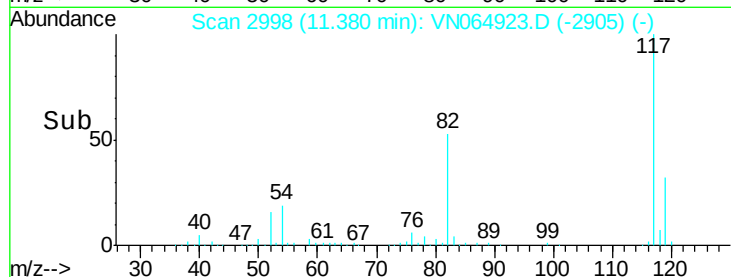
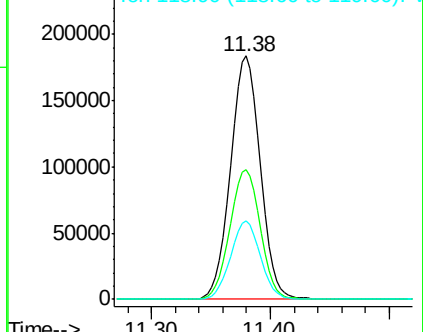
119 32.1 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.361 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

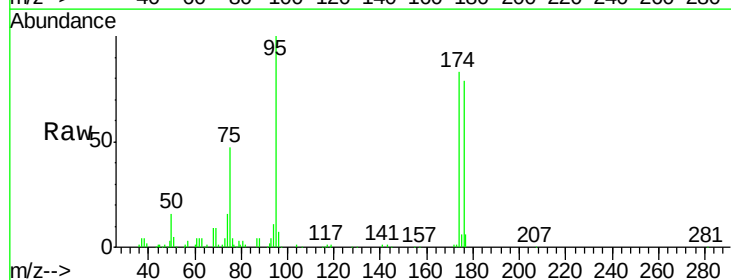
Tgt Ion:173 Resp: 724

Ion Ratio Lower Upper

173 100

175 1086.6 24.3 72.8#

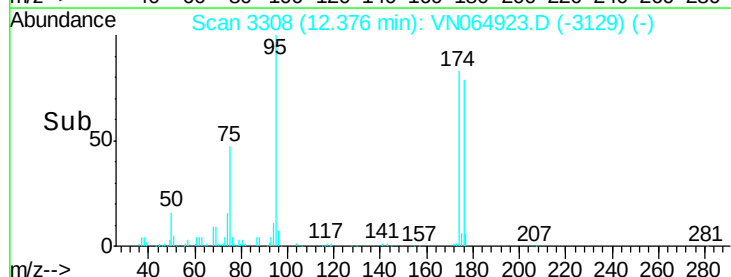
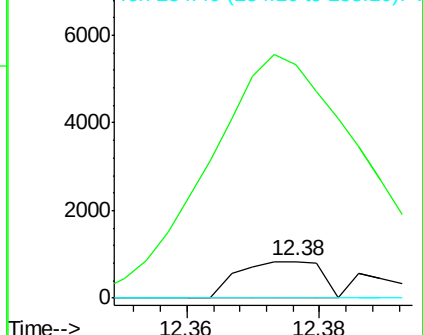
254 0.0 0.0 0.0

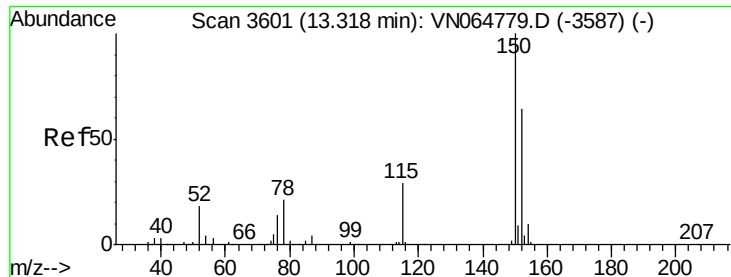


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6093-120120

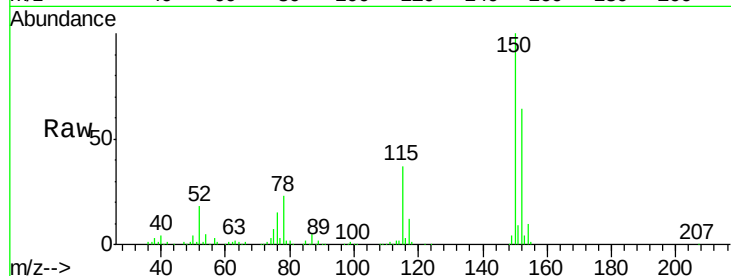
Tot Ion:152 Resp: 143212

Ion Ratio Lower Upper

152 100

115 59.1 29.7 89.1

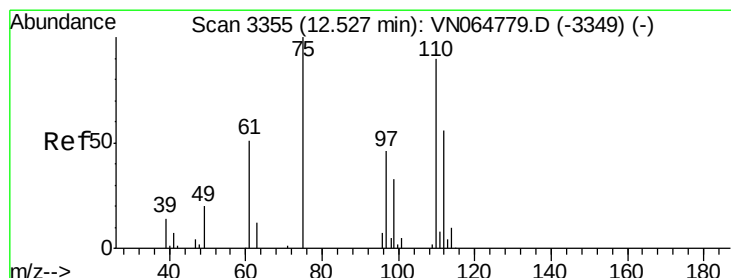
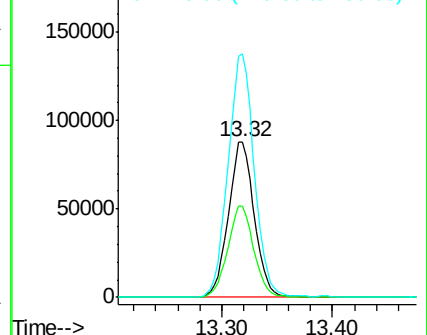
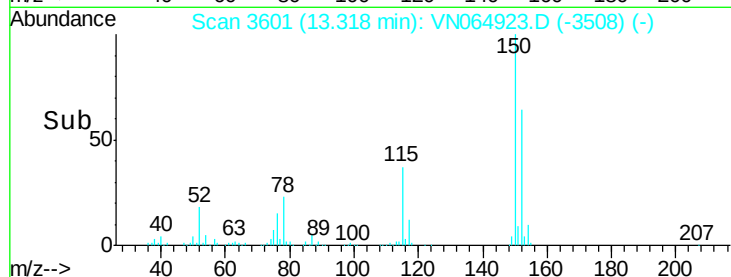
150 158.2 0.0 350.6



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: 23.283 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064923.D

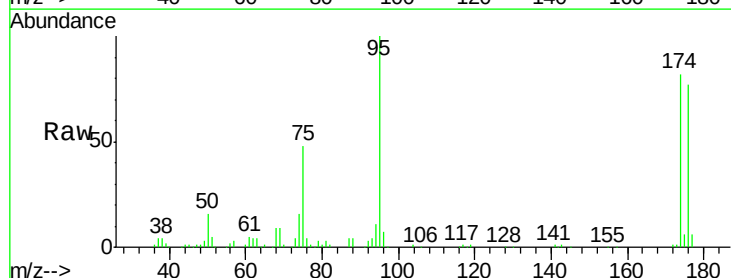
Acq: 4 Dec 2020 16:54

Tgt Ion: 75 Resp: 71810

Ion Ratio Lower Upper

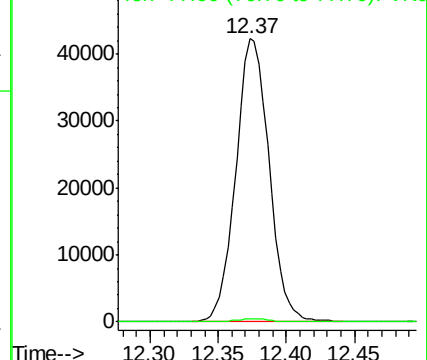
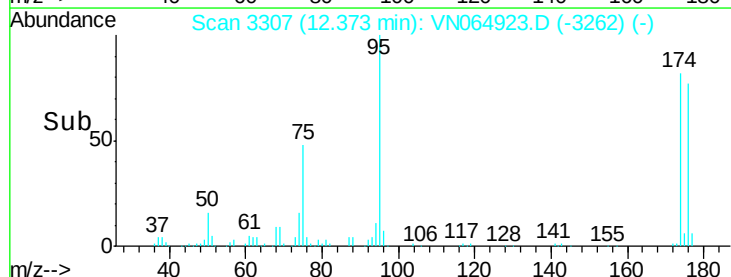
75 100

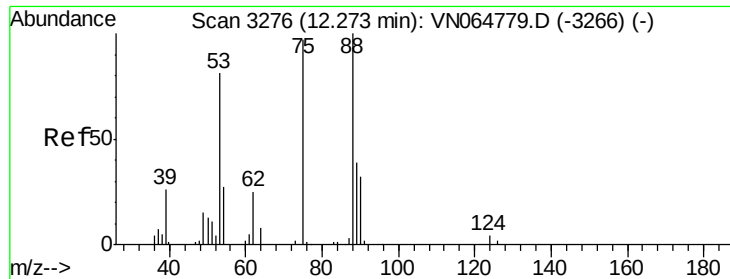
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 63.814 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6093-120120

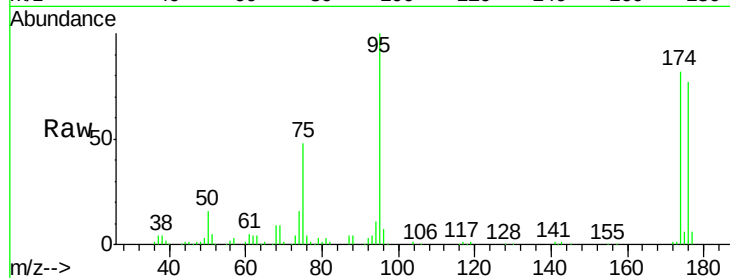
Tot Ion: 75 Resp: 71810

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

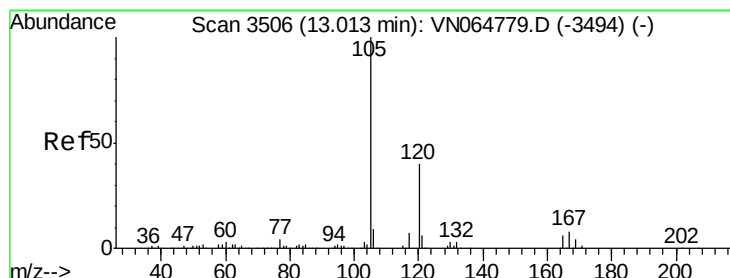
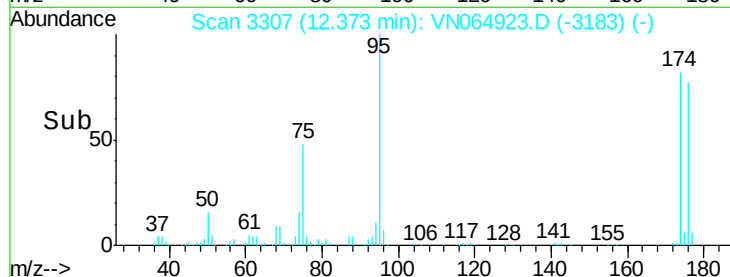
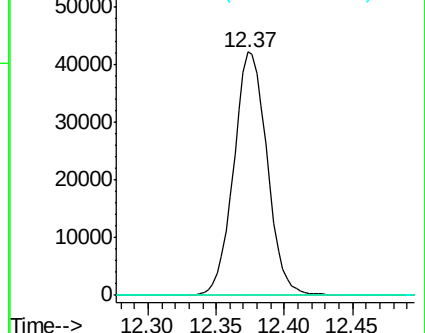
89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064923.D (-3183) (-)

Ion 53.00 (52.70 to 53.70): VN064923.D (-3183) (-)

Ion 88.90 (88.60 to 89.60): VN064923.D (-3183) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.404 ug/l

RT: 13.02 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VN064923.D

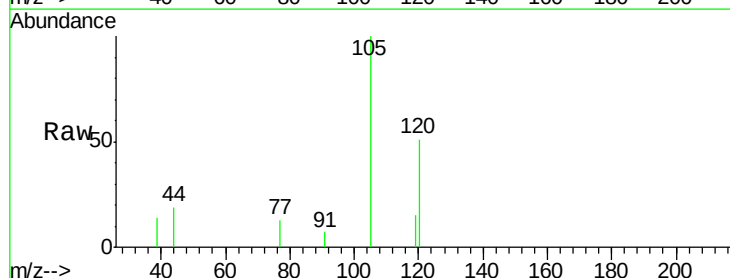
Acq: 4 Dec 2020 16:54

Tgt Ion: 105 Resp: 3384

Ion Ratio Lower Upper

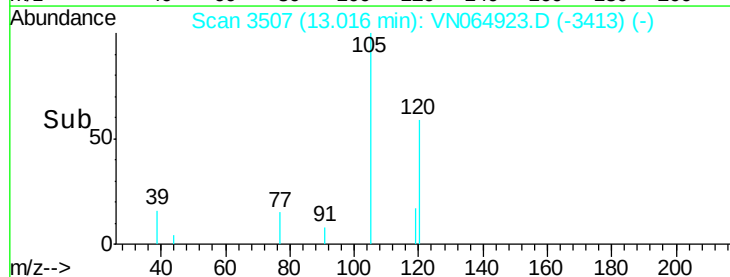
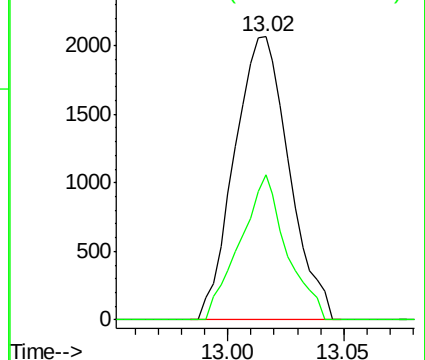
105 100

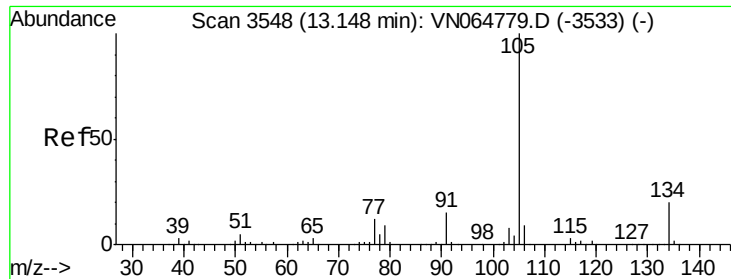
120 43.8 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): VN064923.D (-3413) (-)

Ion 120.00 (119.70 to 120.70): VN064923.D (-3413) (-)





#85

sec-Butylbenzene

Concen: 0.367 ug/l

RT: 13.02 min Scan# 3507

Delta R.T. -0.13 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

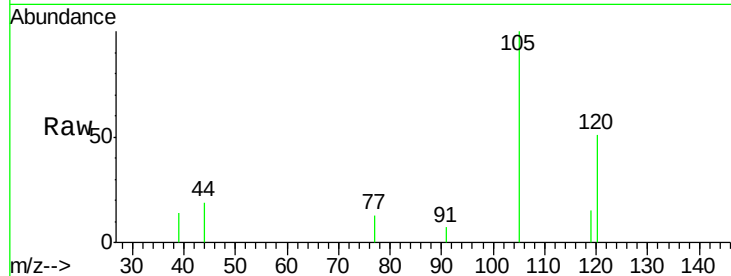
SS013-13-6093-120120

Tot Ion:105 Resp: 3384

Ion Ratio Lower Upper

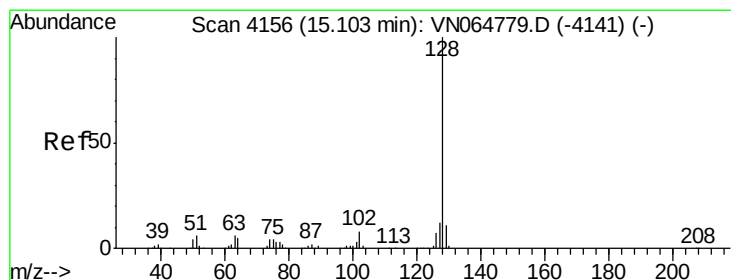
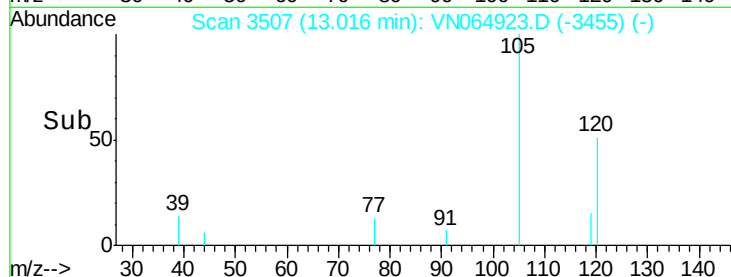
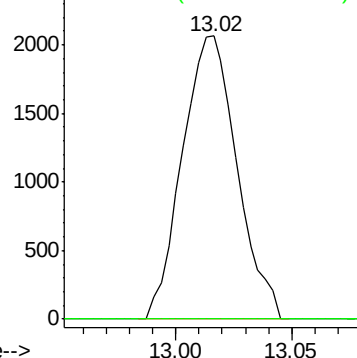
105 100

134 0.0 10.1 30.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 0.320 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

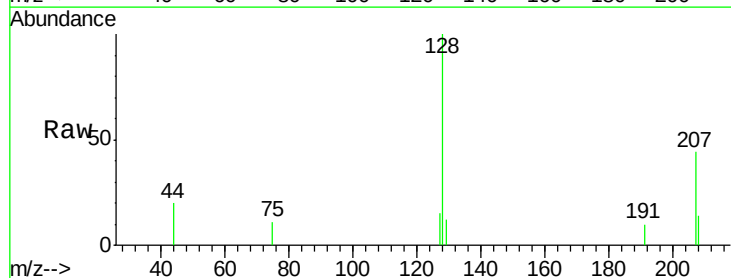
Tgt Ion:128 Resp: 2775

Ion Ratio Lower Upper

128 100

127 11.7 10.3 15.5

129 6.2 8.7 13.1#



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

