

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081720\
 Data File : VN062981.D
 Acq On : 17 Aug 2020 20:20
 Operator : JC/MD
 Sample : L3691-16
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-081320

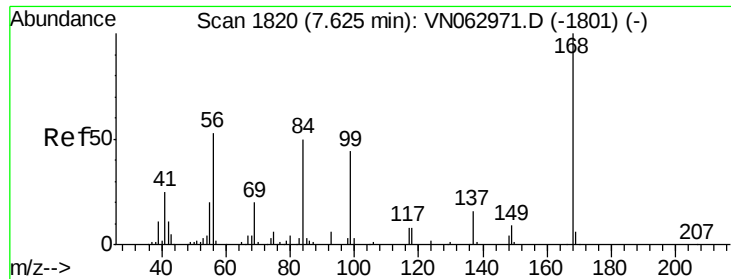
Quant Time: Aug 18 05:53:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081720W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 17 17:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	174234	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	273527	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	274730	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	123570	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.98	65	95497	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
35) Dibromofluoromethane	7.54	113	86621	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
50) Toluene-d8	10.06	98	339169	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
62) 4-Bromofluorobenzene	12.38	95	120907	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	61	Below Cal	#	43
5) Bromomethane	2.53	94	468	0.279	ug/l #	4
6) Chloroethane	2.61	64	398	0.247	ug/l #	45
11) Tert butyl alcohol	4.69	59	9271	29.394	ug/l #	74
16) Acetone	3.80	43	368	0.515	ug/l #	39
17) Carbon Disulfide	3.97	76	1298	0.302	ug/l #	75
18) Methyl Acetate	4.29	43	2621	Below Cal	#	76
20) Methylene Chloride	4.48	84	1790	1.635	ug/l #	88
25) 2-Butanone	6.81	43	1990	1.932	ug/l	96
29) Tetrahydrofuran	7.17	42	122	Below Cal	#	29
31) Cyclohexane	7.62	56	2746	0.965	ug/l #	15
36) 1,1-Dichloropropene	7.62	75	11169	4.760	ug/l #	46
38) Carbon Tetrachloride	7.62	117	15137	6.106	ug/l #	16
51) 4-Methyl-2-Pentanone	9.96	43	951	0.417	ug/l #	63
59) 2-Hexanone	10.74	43	1096	Below Cal		69
71) Bromoform	12.38	173	1016	0.557	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.48	83	203	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.38	75	54913	22.394	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	54913	60.253	ug/l #	16
87) 1,3-Dichlorobenzene	13.26	146	954	0.236	ug/l	91
88) 1,4-Dichlorobenzene	13.26	146	954	0.229	ug/l	92
89) n-Butylbenzene	13.60	91	2352	0.400	ug/l	91
91) 1,2-Dichlorobenzene	13.63	146	848	0.217	ug/l	96
93) 1,2,4-Trichlorobenzene	14.89	180	2326	5.239	ug/l	98
94) Hexachlorobutadiene	14.99	225	557	0.369	ug/l #	68
95) Naphthalene	15.11	128	8501	1.843	ug/l	95
96) 1,2,3-Trichlorobenzene	15.29	180	2873	4.936	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

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Instrument :

MSVOA_N

ClientSampleId :

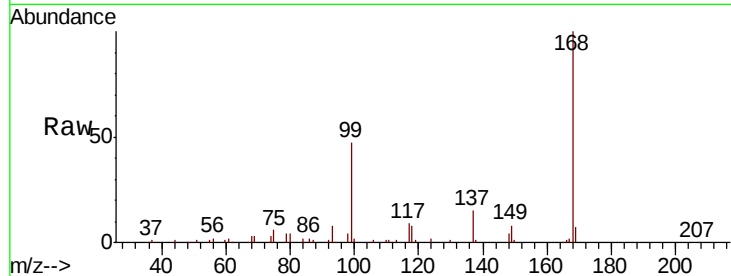
TB-01-081320

Tot Ion:168 Resp: 174234

Ion Ratio Lower Upper

168 100

99 47.5 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

80000

60000

40000

20000

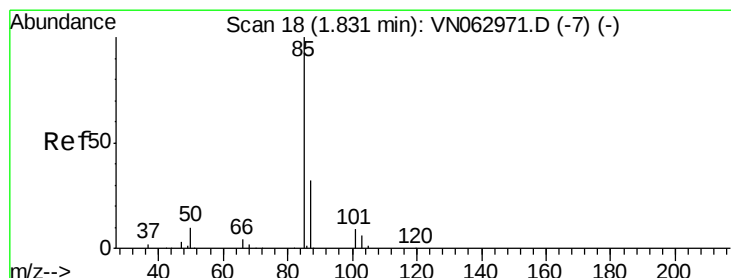
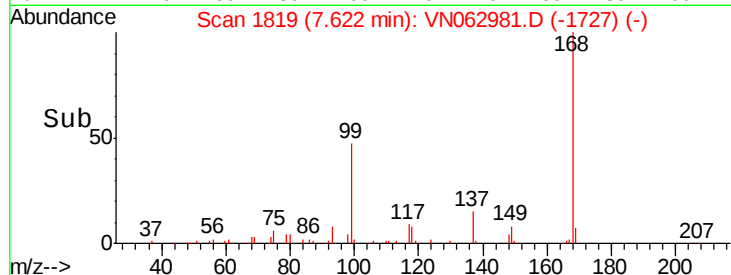
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Time-->

7.50

7.60

7.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.83 min Scan# 17

Delta R.T. -0.00 min

Lab File: VN062981.D

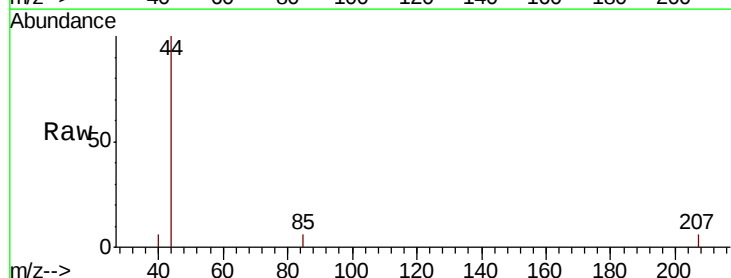
Acq: 17 Aug 2020 20:20

Tgt Ion: 85 Resp: 61

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

150

100

50

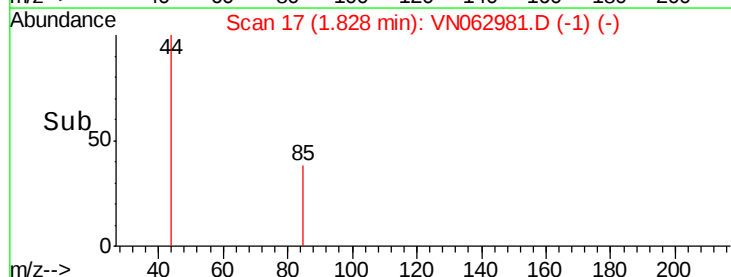
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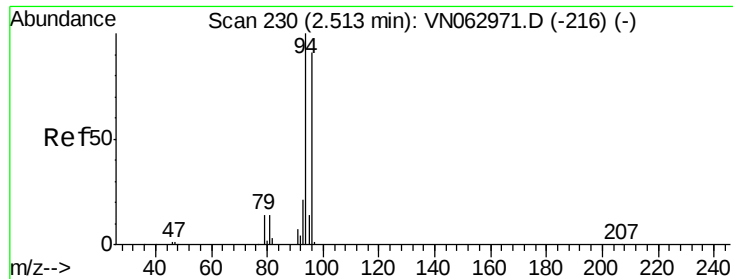
Time-->

1.82

1.83

1.84





#5

Bromomethane

Concen: 0.279 ug/l

RT: 2.53 min Scan# 235

Delta R.T. 0.02 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

Instrument :

MSVOA_N

ClientSampled :

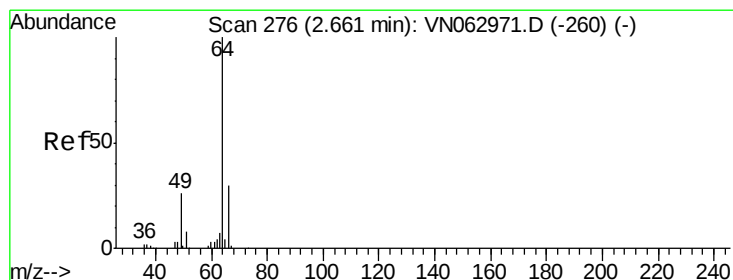
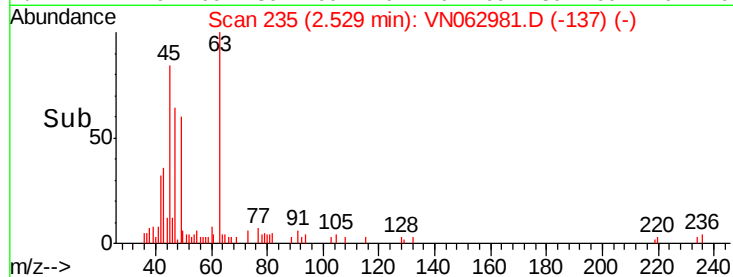
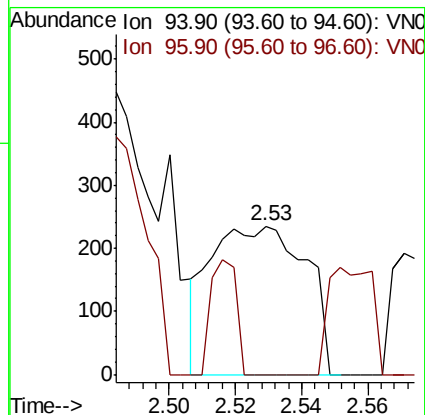
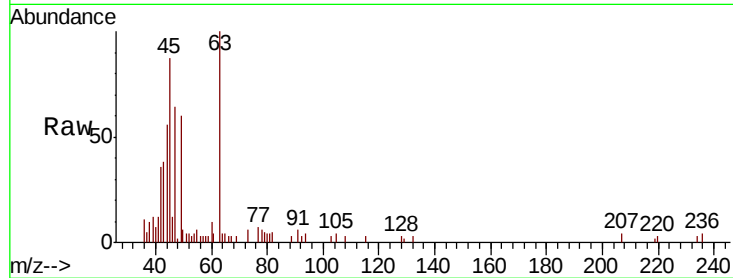
TB-01-081320

Tot Ion: 94 Resp: 468

Ion Ratio Lower Upper

94 100

96 0.0 72.9 109.3#



#6

Chloroethane

Concen: 0.247 ug/l

RT: 2.61 min Scan# 261

Delta R.T. -0.05 min

Lab File: VN062981.D

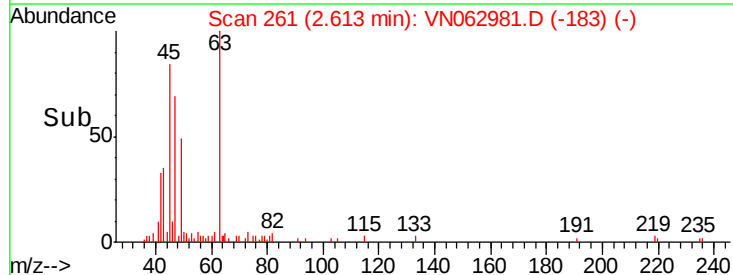
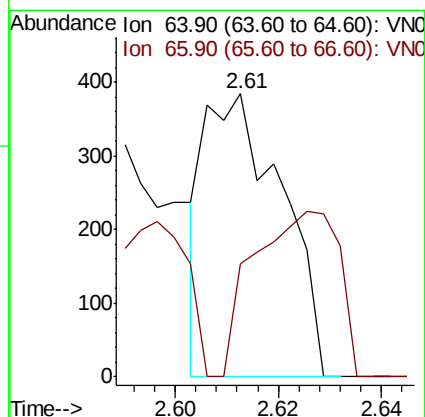
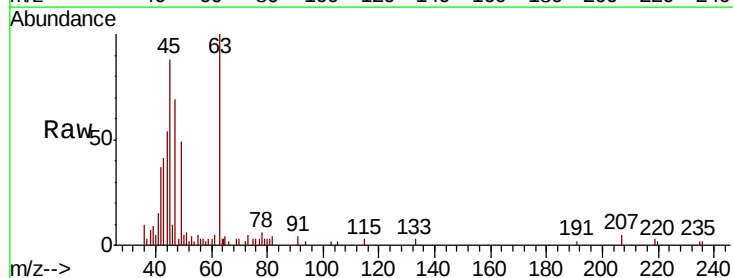
Acq: 17 Aug 2020 20:20

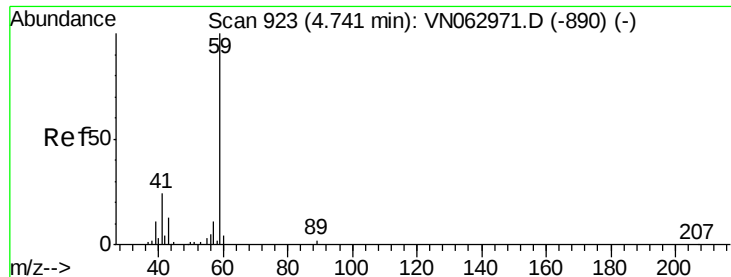
Tgt Ion: 64 Resp: 398

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.8#



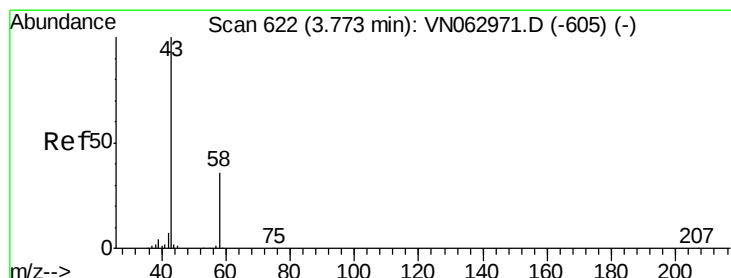
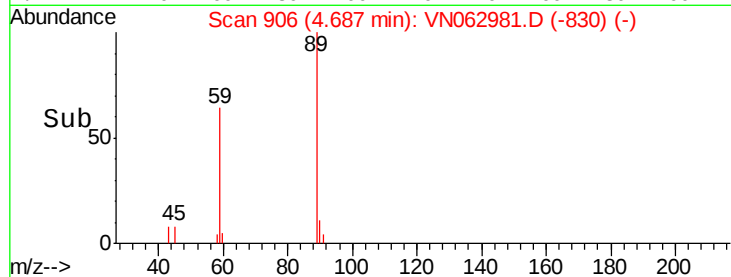
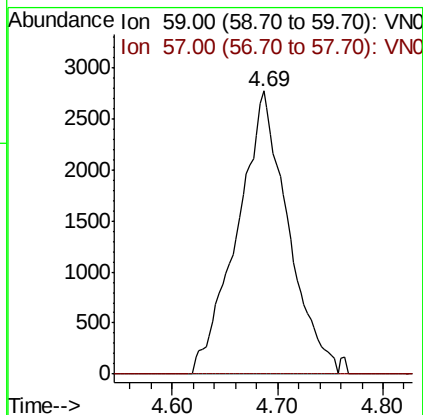
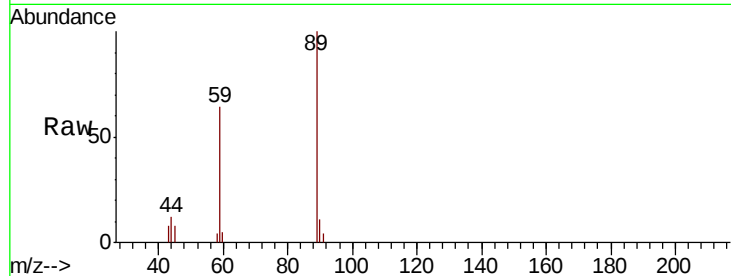


#11

Tert butyl alcohol
 Concen: 29.394 ug/l
 RT: 4.69 min Scan# 906
 Delta R.T. -0.05 min
 Lab File: VN062981.D
 Acq: 17 Aug 2020 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-081320

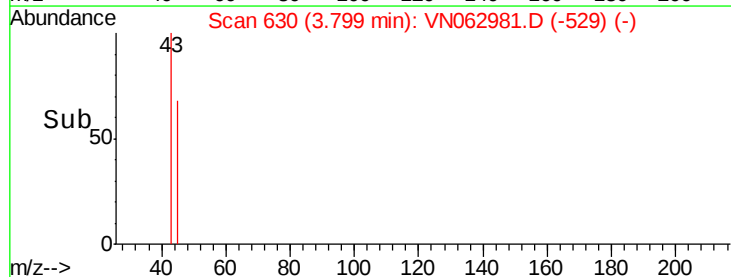
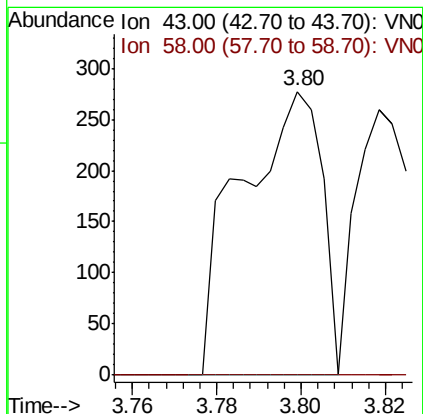
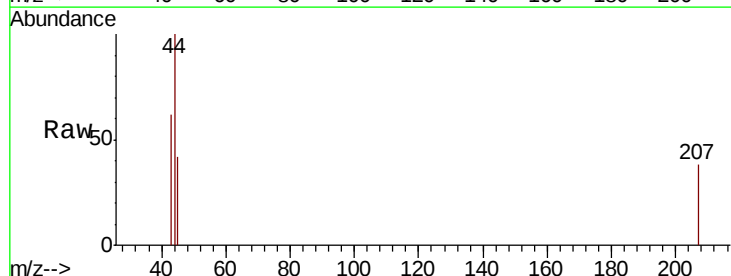
Tot Ion: 59 Resp: 9271
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

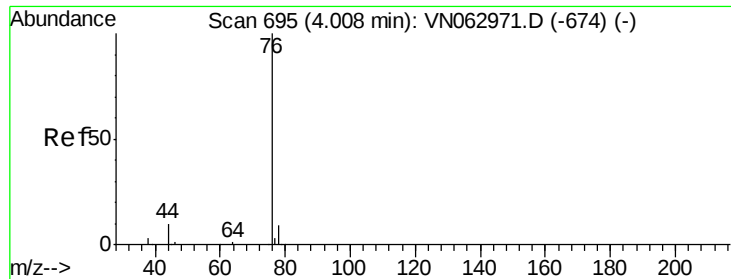


#16

Acetone
 Concen: 0.515 ug/l
 RT: 3.80 min Scan# 630
 Delta R.T. 0.03 min
 Lab File: VN062981.D
 Acq: 17 Aug 2020 20:20

Tgt Ion: 43 Resp: 368
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.7 43.1#

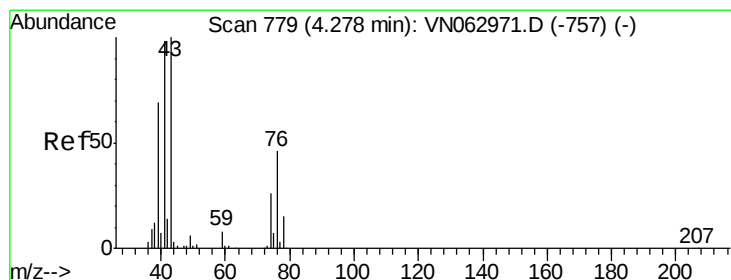
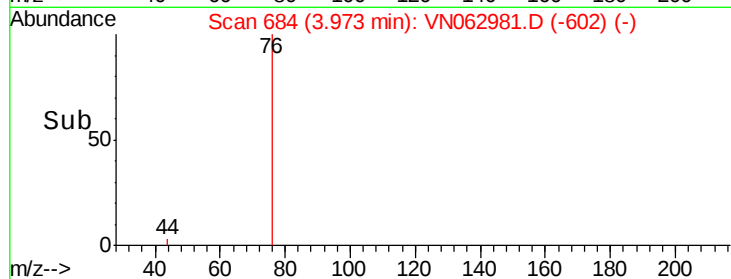
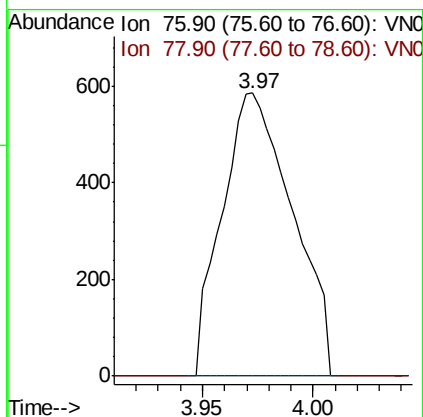
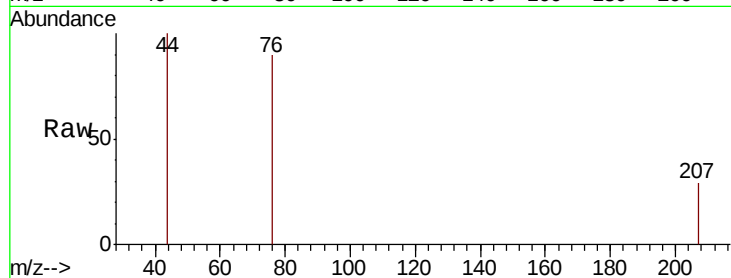




#17
Carbon Disulfide
Concen: 0.302 ug/l
RT: 3.97 min Scan# 684
Delta R.T. -0.04 min
Lab File: VN062981.D
Acq: 17 Aug 2020 20:20

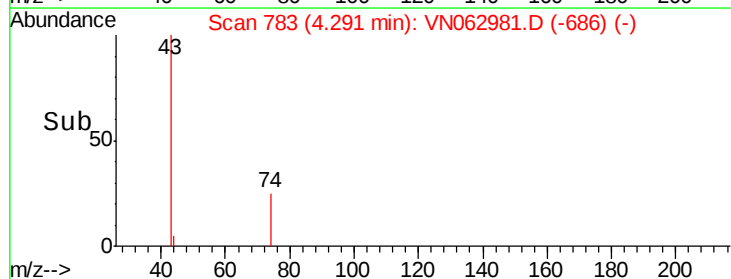
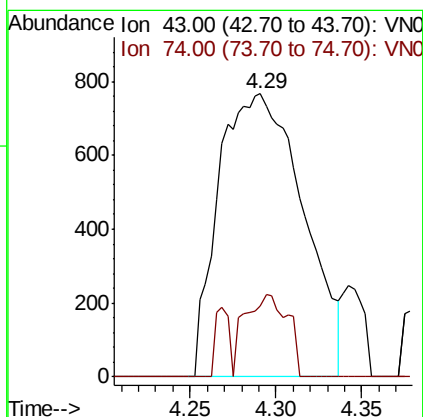
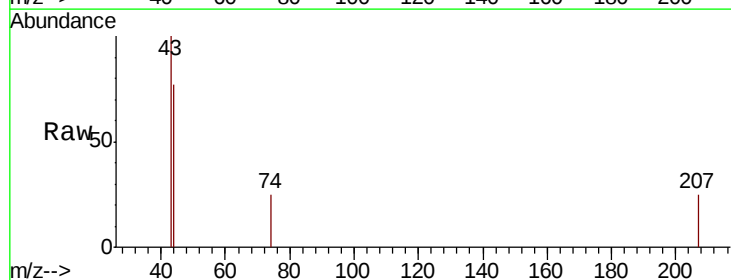
Instrument :
MSVOA_N
ClientSampleId :
TB-01-081320

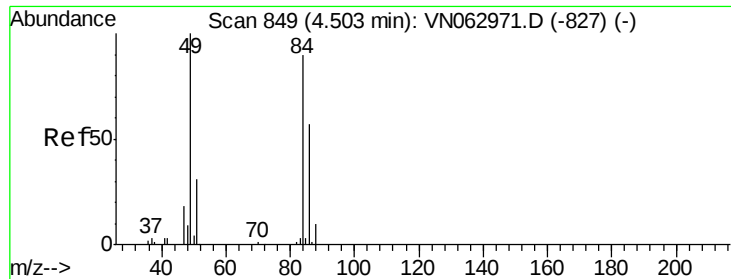
Tot Ion: 76 Resp: 1298
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062981.D
Acq: 17 Aug 2020 20:20

Tgt Ion: 43 Resp: 2621
Ion Ratio Lower Upper
43 100
74 14.7 21.6 32.4#

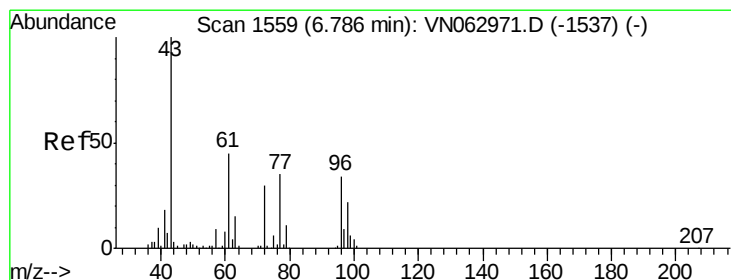
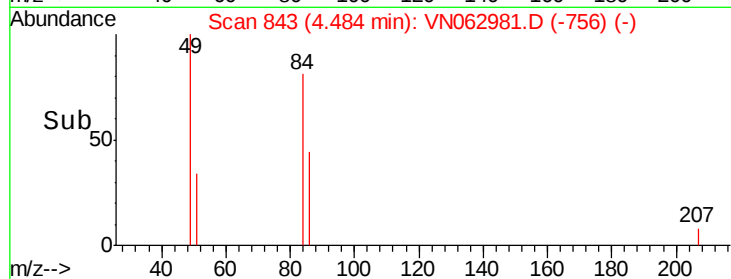
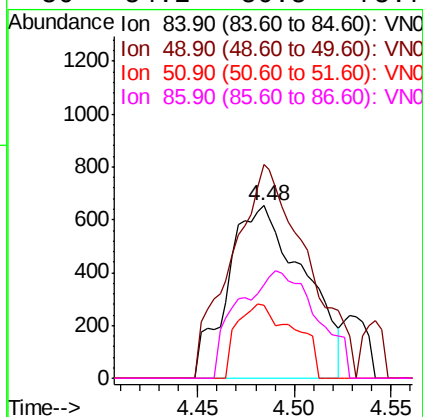
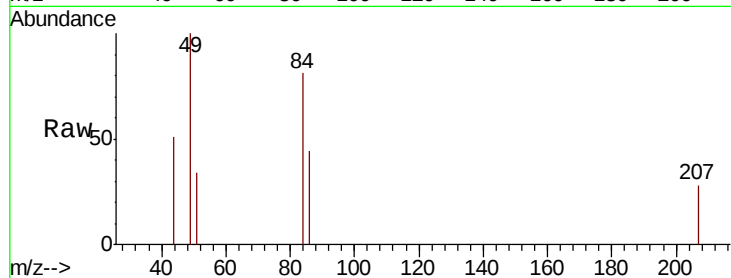




#20
Methvlene Chloride
Concen: 1.635 ug/l
RT: 4.48 min Scan# 843
Delta R.T. -0.02 min
Lab File: VN062981.D
Acq: 17 Aug 2020 20:20

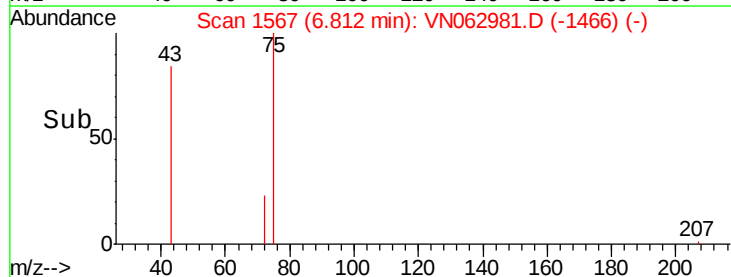
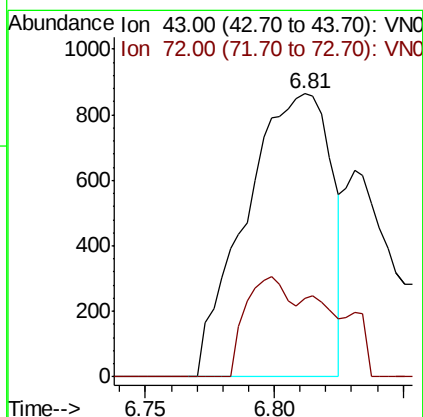
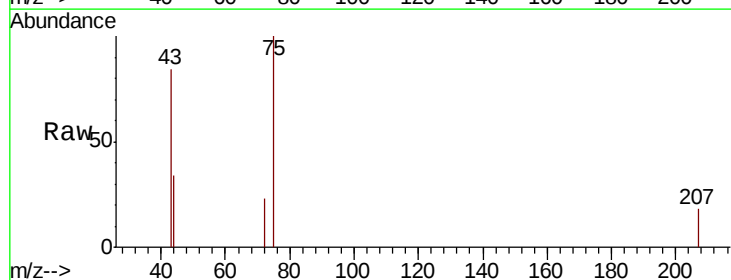
Instrument :
MSVOA_N
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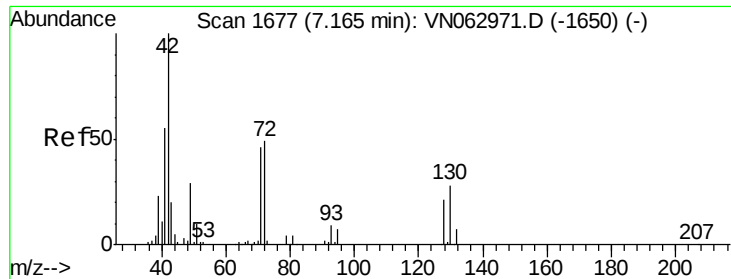
Tot Ion:	84	Resp:	1790
Ion	Ratio	Lower	Upper
84	100		
49	123.9	88.8	133.2
51	42.1	27.1	40.7#
86	54.2	50.5	75.7



#25
2-Butanone
Concen: 1.932 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.03 min
Lab File: VN062981.D
Acq: 17 Aug 2020 20:20

Tgt Ion:	43	Resp:	1990
Ion	Ratio	Lower	Upper
43	100		
72	27.8	23.9	35.9

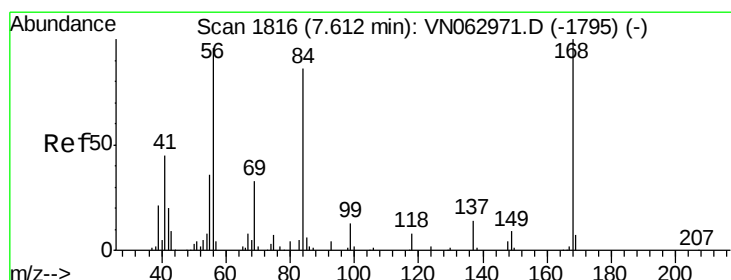
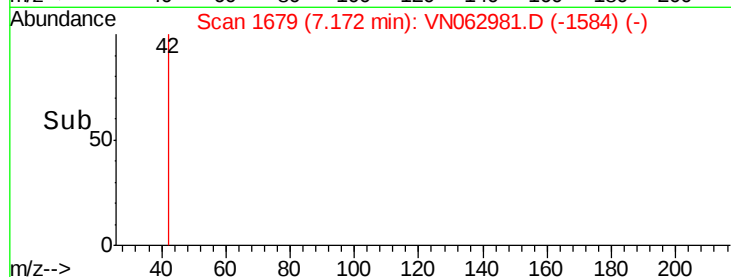
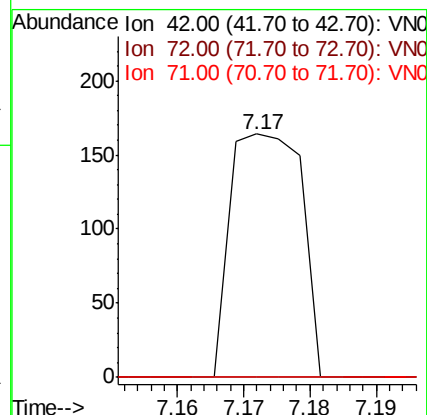
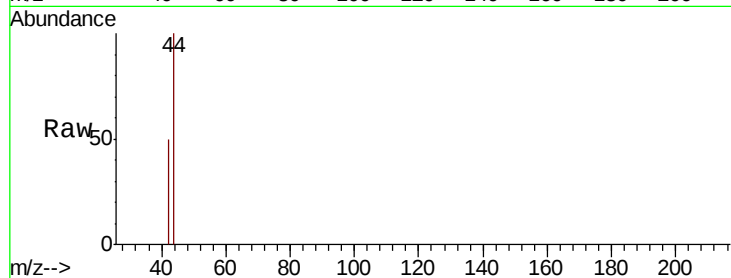




#29
Tetrahydrofuran
Concen: Below Cal
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN062981.D
Acq: 17 Aug 2020 20:20

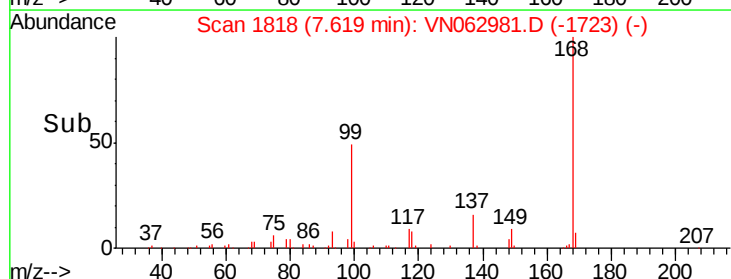
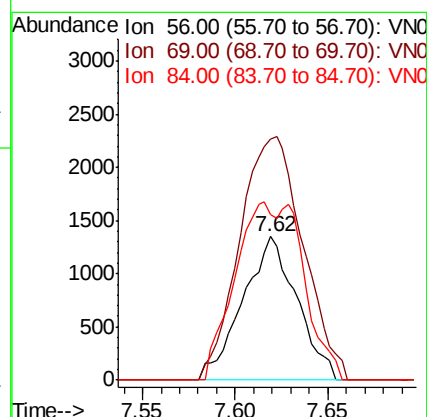
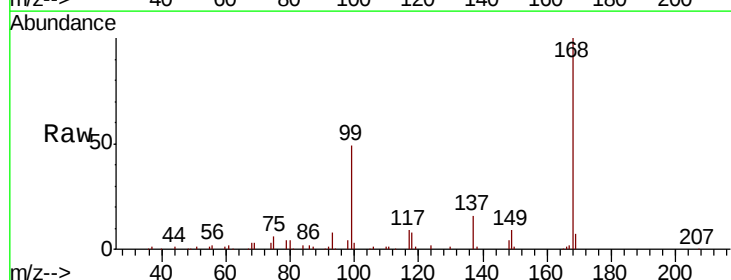
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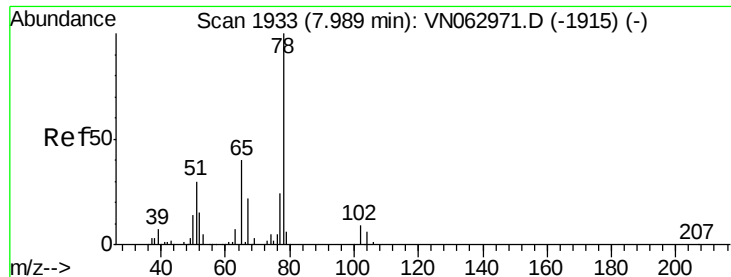
Tot Ion: 42 Resp: 122
Ion Ratio Lower Upper
42 100
72 0.0 39.4 59.2#
71 0.0 37.2 55.8#



#31
Cyclohexane
Concen: 0.965 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN062981.D
Acq: 17 Aug 2020 20:20

Tgt Ion: 56 Resp: 2746
Ion Ratio Lower Upper
56 100
69 168.0 27.4 41.2#
84 115.0 71.3 106.9#





#33

1,2-Dichloroethane-d4

Concen: 51.740 ug/l

RT: 7.98 min Scan# 1931

Delta R.T. -0.01 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

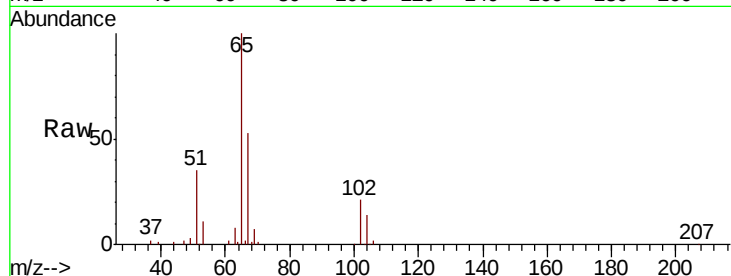
TB-01-081320

Tot Ion: 65 Resp: 95497

Ion Ratio Lower Upper

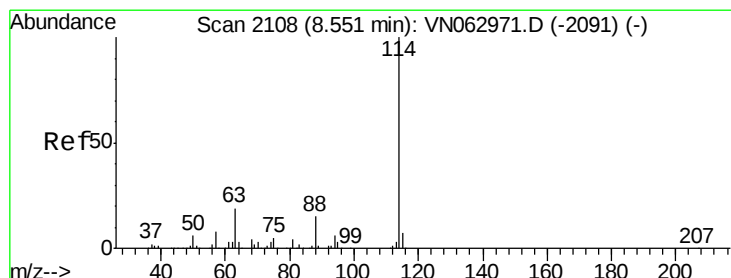
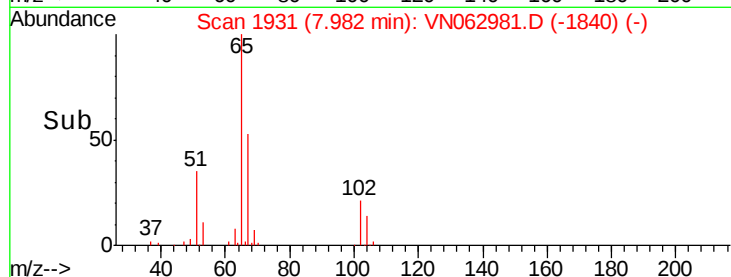
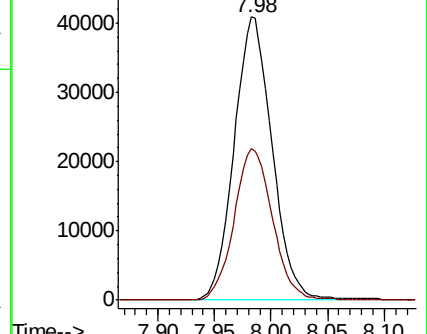
65 100

67 53.9 0.0 108.6



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# 2107

Delta R.T. -0.00 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

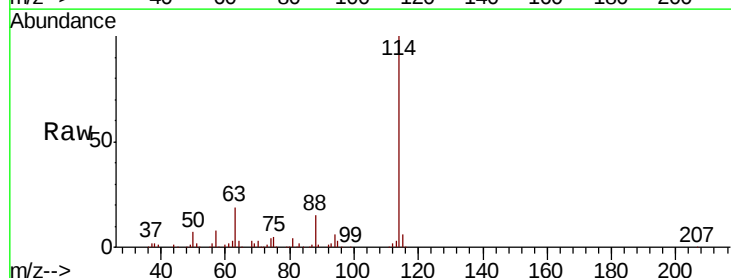
Tgt Ion: 114 Resp: 273527

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.6

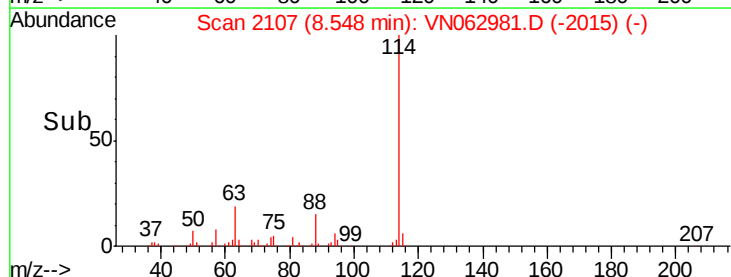
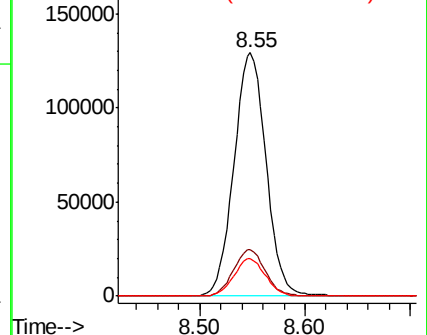
88 15.3 0.0 31.0

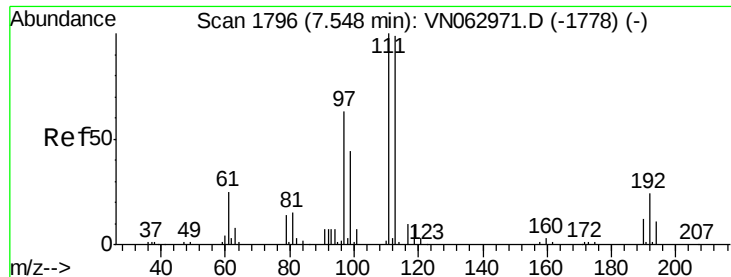


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

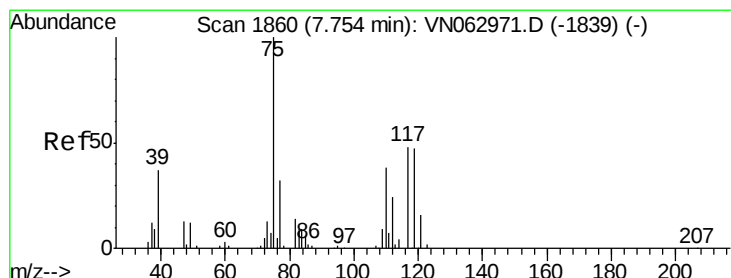
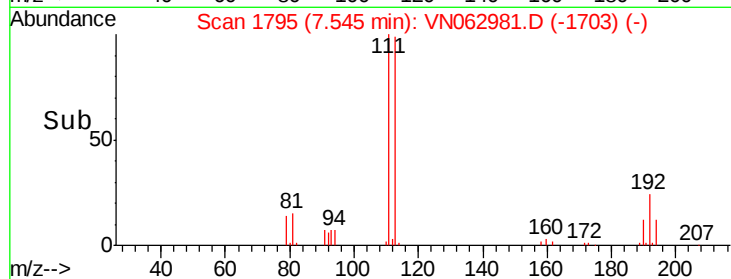
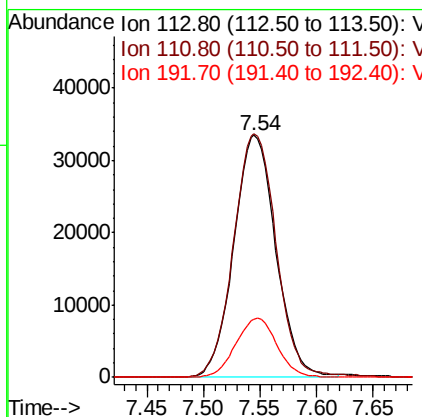
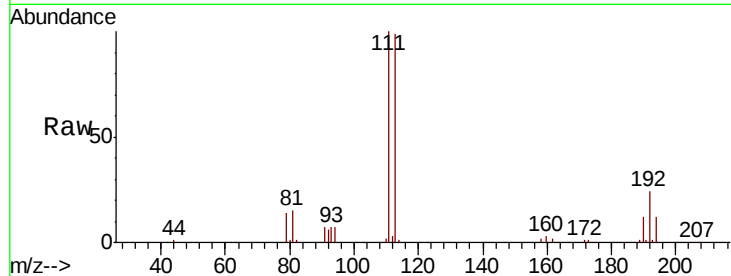




#35
 Dibromofluoromethane
 Concen: 48.620 ug/l
 RT: 7.54 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VN062981.D
 Acq: 17 Aug 2020 20:20

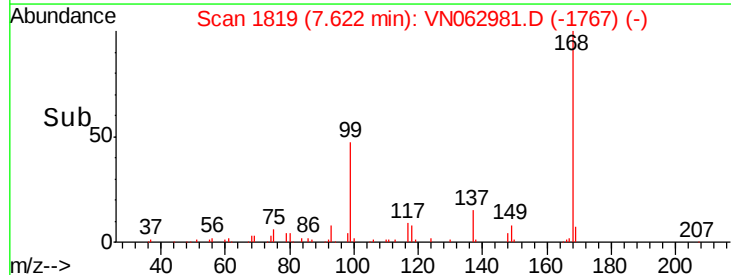
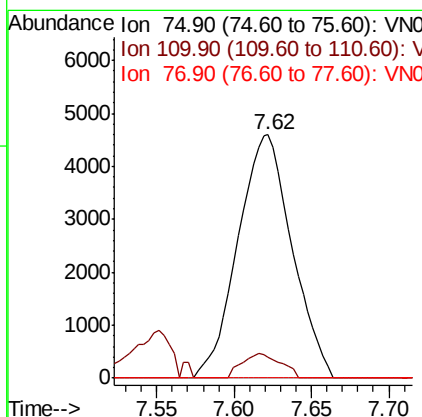
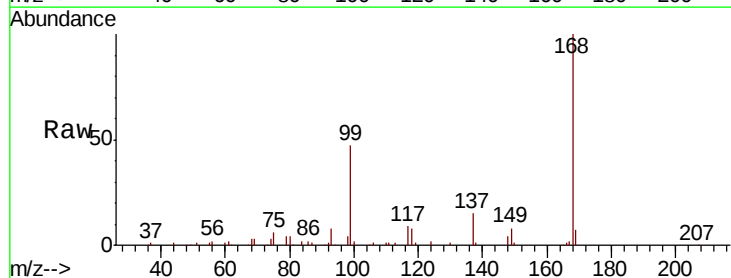
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-081320

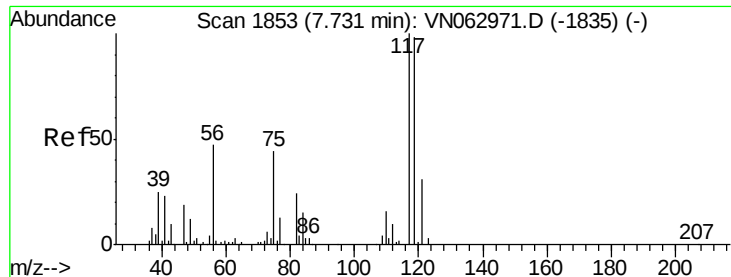
Tot Ion:113 Resp: 86621
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.4 122.0
 192 23.9 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 4.760 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062981.D
 Acq: 17 Aug 2020 20:20

Tgt Ion: 75 Resp: 11169
 Ion Ratio Lower Upper
 75 100
 110 7.2 18.7 56.1#
 77 0.0 25.6 38.4#





#38

Carbon Tetrachloride

Concen: 6.106 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.11 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

TB-01-081320

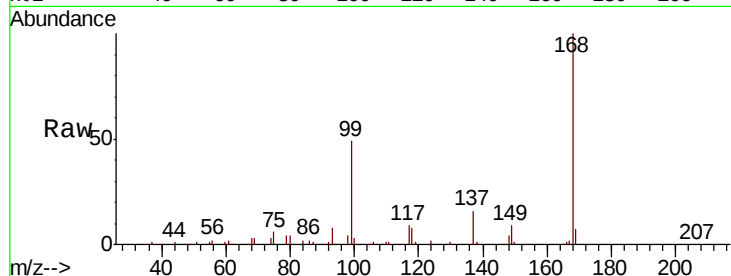
Tot Ion:117 Resp: 15137

Ion Ratio Lower Upper

117 100

119 5.8 77.9 116.9#

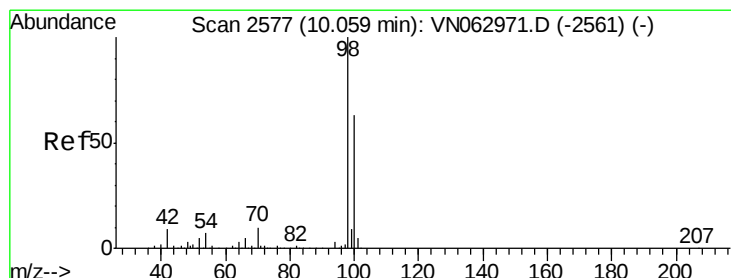
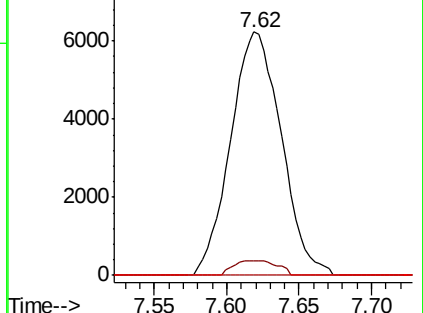
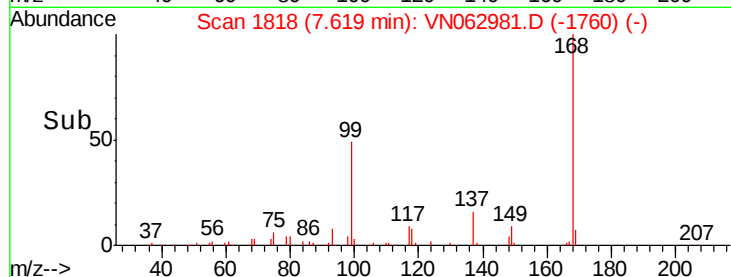
121 0.0 24.8 37.2#



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



#50

Toluene-d8

Concen: 49.054 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062981.D

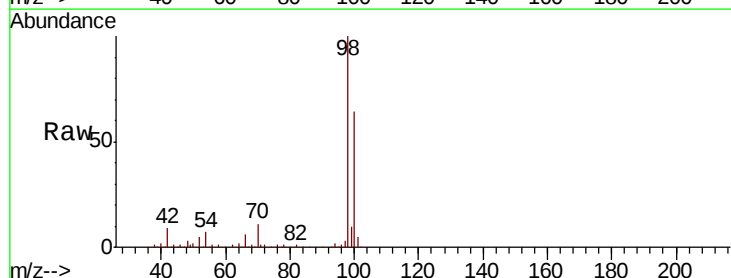
Acq: 17 Aug 2020 20:20

Tgt Ion: 98 Resp: 339169

Ion Ratio Lower Upper

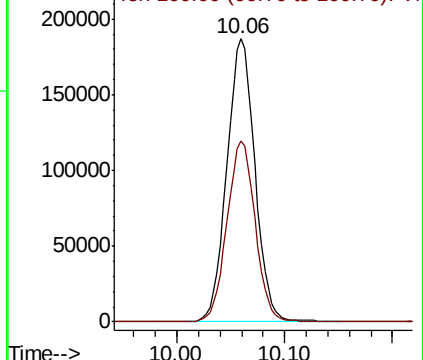
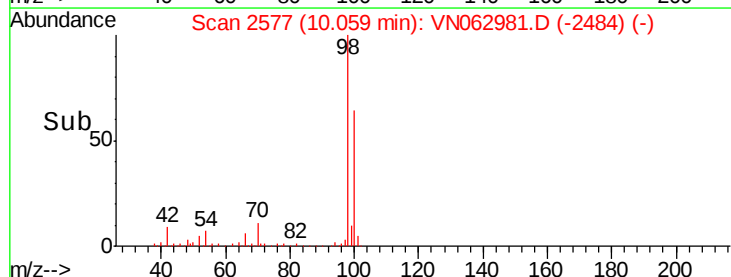
98 100

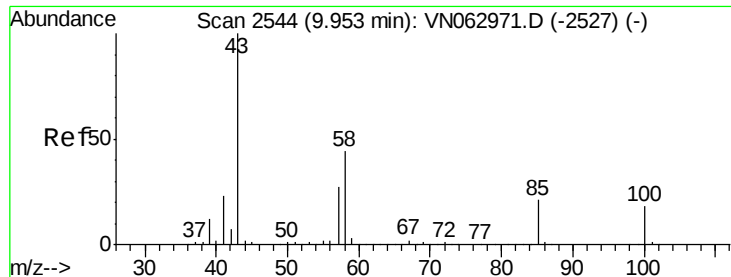
100 64.5 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.417 ug/l

RT: 9.96 min Scan# 2547

Delta R.T. 0.01 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

Instrument :

MSVOA_N

ClientSampled :

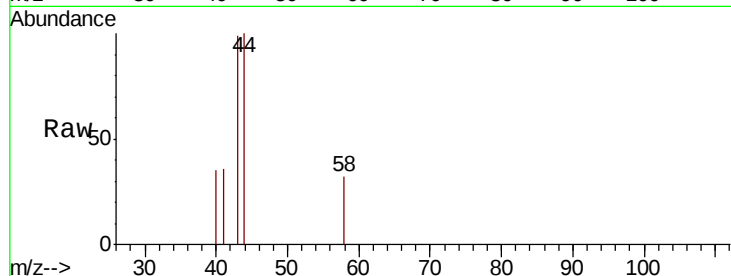
TB-01-081320

Tot Ion: 43 Resp: 951

Ion Ratio Lower Upper

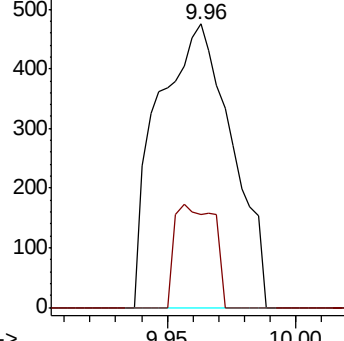
43 100

58 19.5 34.3 51.5#

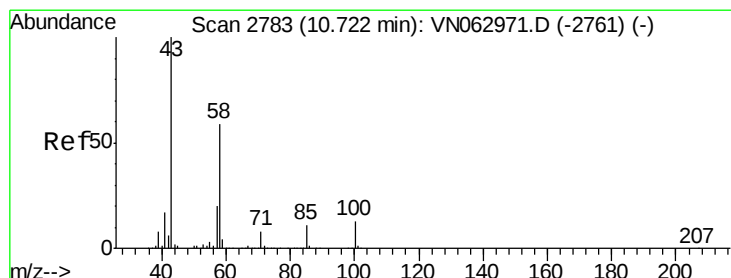
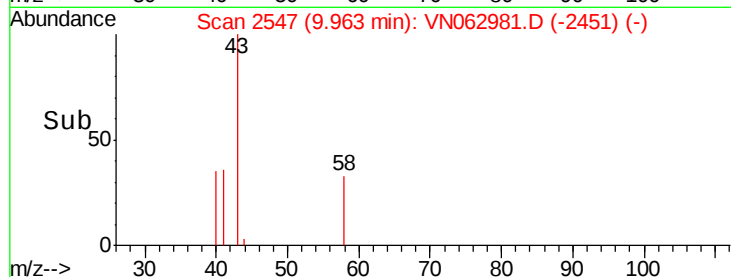


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 10.74 min Scan# 2789

Delta R.T. 0.02 min

Lab File: VN062981.D

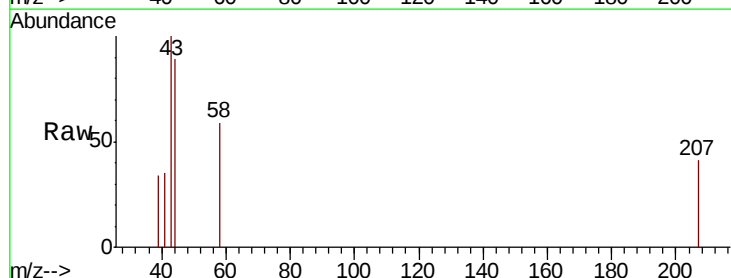
Acq: 17 Aug 2020 20:20

Tgt Ion: 43 Resp: 1096

Ion Ratio Lower Upper

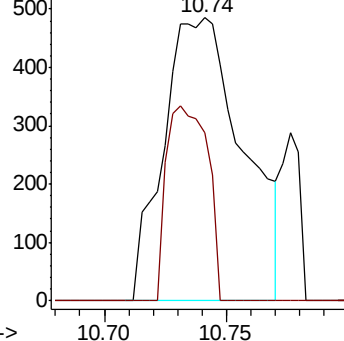
43 100

58 35.6 29.5 88.5

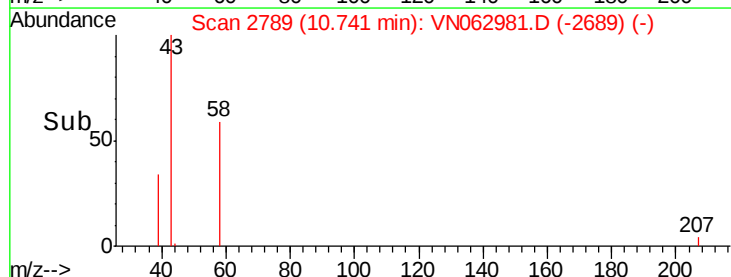


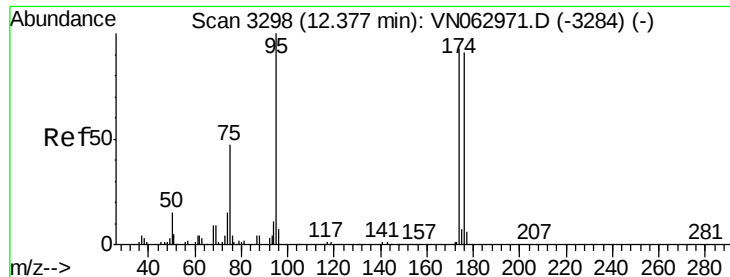
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 48.665 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

TB-01-081320

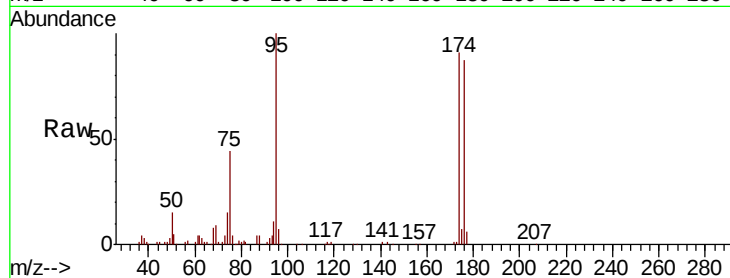
Tot Ion: 95 Resp: 120907

Ion Ratio Lower Upper

95 100

174 92.9 0.0 185.2

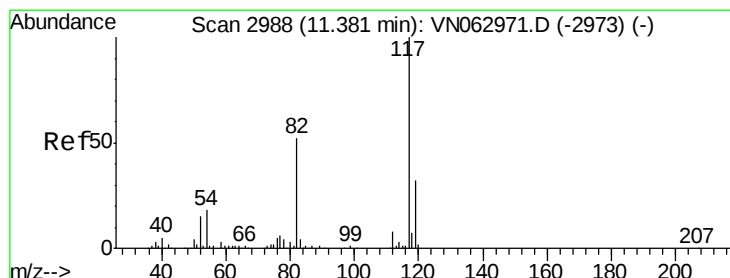
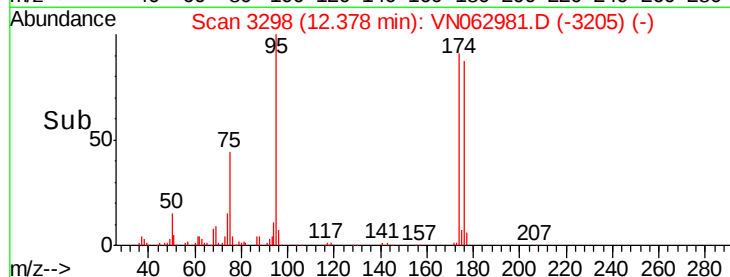
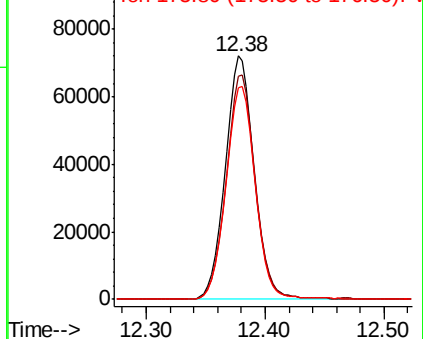
176 89.4 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN062971.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062971.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062971.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

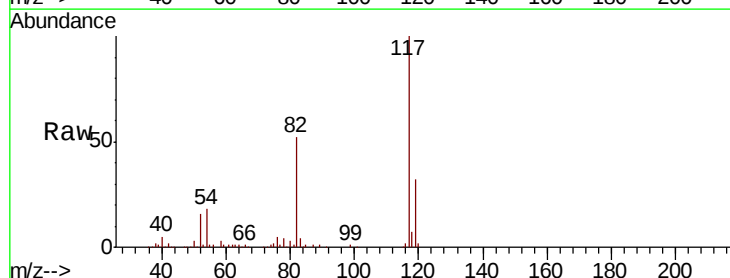
Tgt Ion: 117 Resp: 274730

Ion Ratio Lower Upper

117 100

82 52.3 41.3 61.9

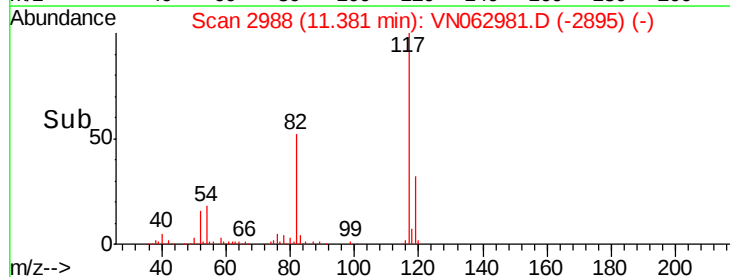
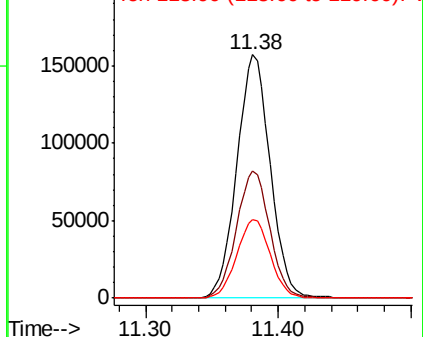
119 32.1 25.8 38.8

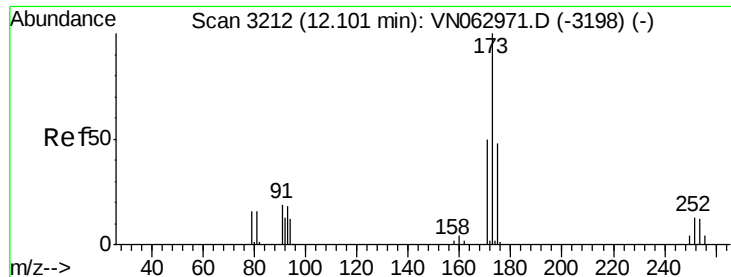


Abundance Ion 116.90 (116.60 to 117.60): VN062971.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN062971.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN062971.D (-2973) (-)





#71

Bromoform

Concen: 0.557 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.28 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

TB-01-081320

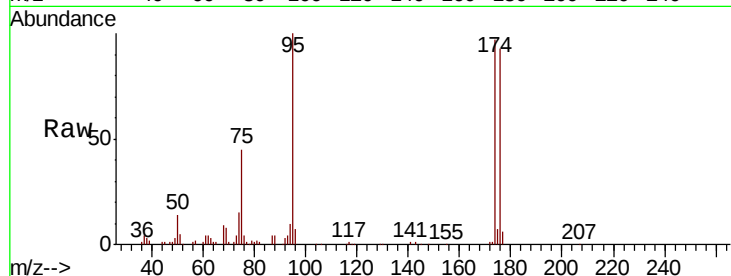
Tot Ion:173 Resp: 1016

Ion Ratio Lower Upper

173 100

175 656.9 24.1 72.2#

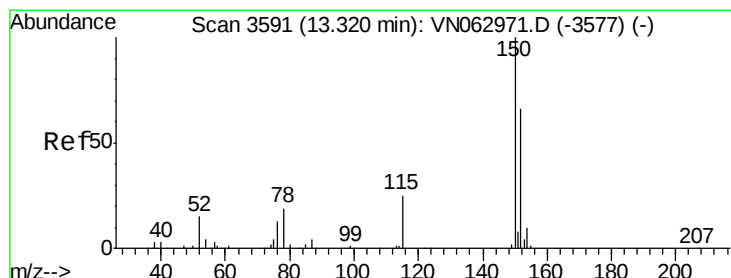
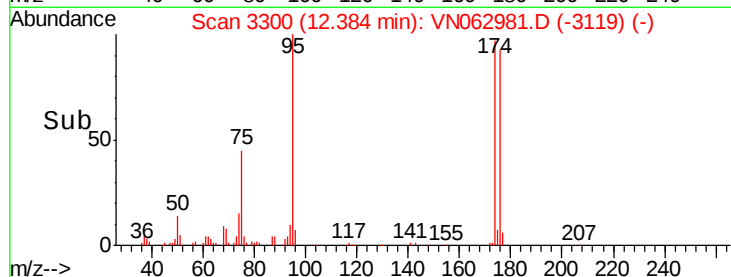
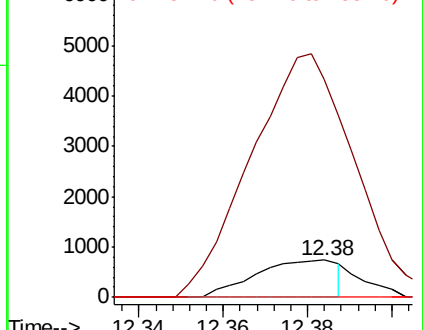
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

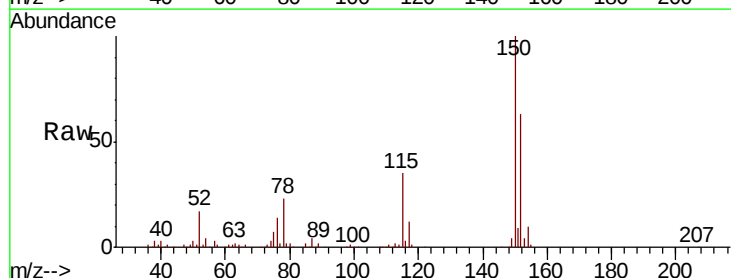
Tgt Ion:152 Resp: 123570

Ion Ratio Lower Upper

152 100

115 55.3 27.1 81.3

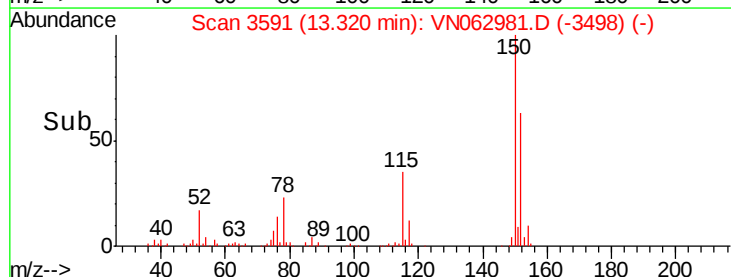
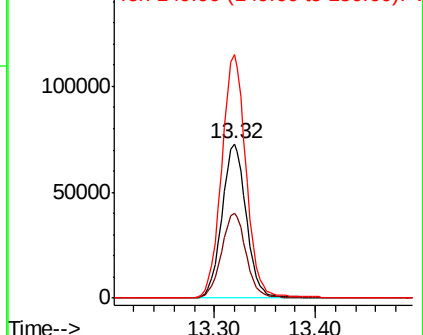
150 157.7 0.0 341.4

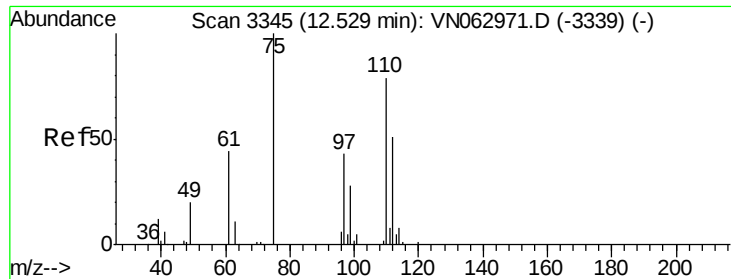


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.394 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

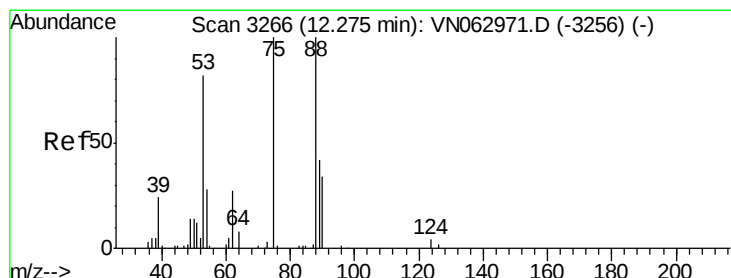
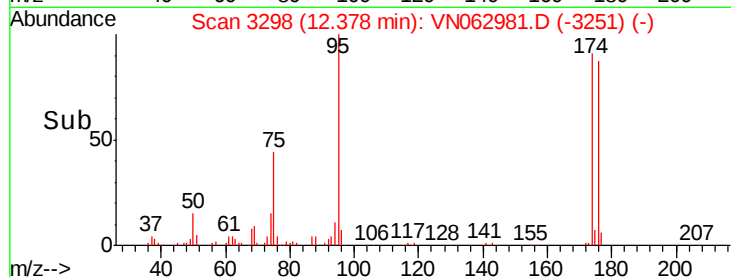
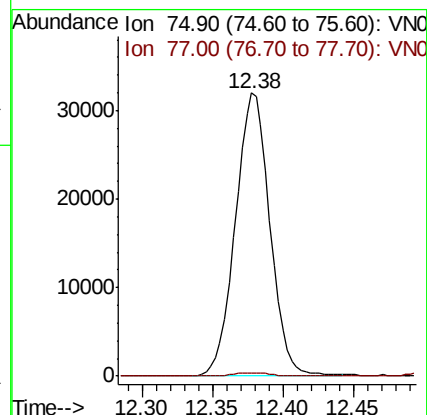
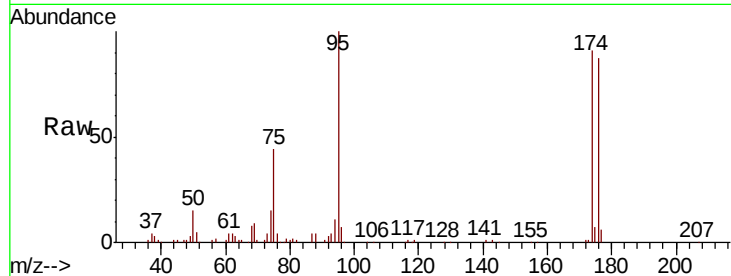
TB-01-081320

Tot Ion: 75 Resp: 54913

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.253 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

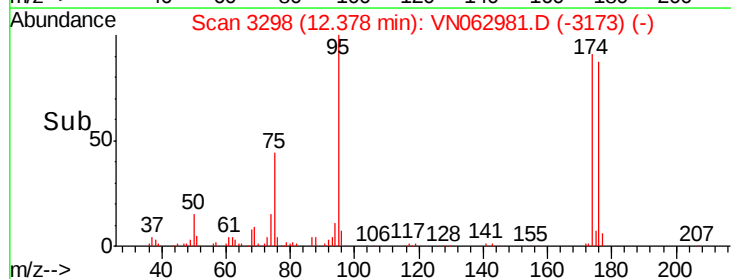
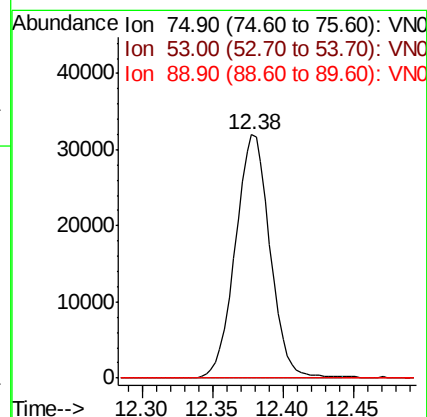
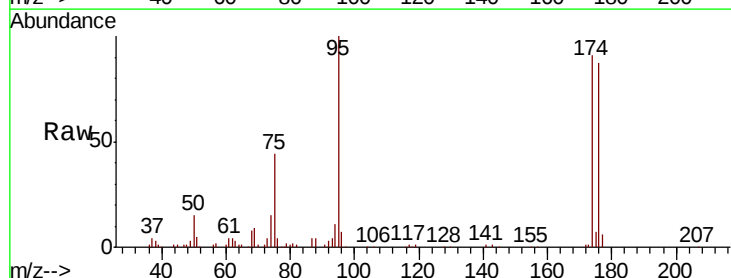
Tgt Ion: 75 Resp: 54913

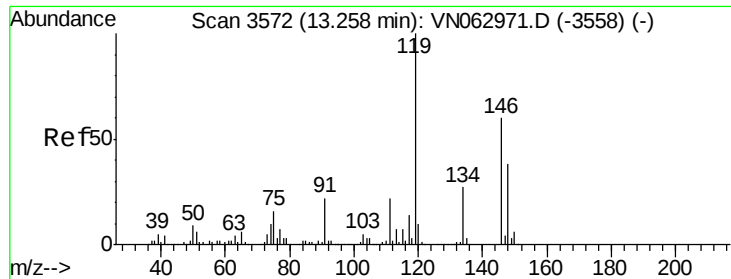
Ion Ratio Lower Upper

75 100

53 0.0 66.2 99.2#

89 0.0 35.0 52.4#

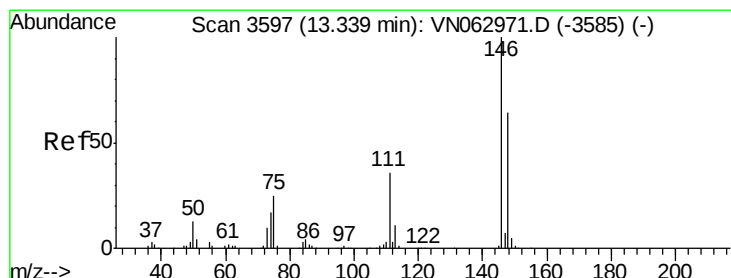
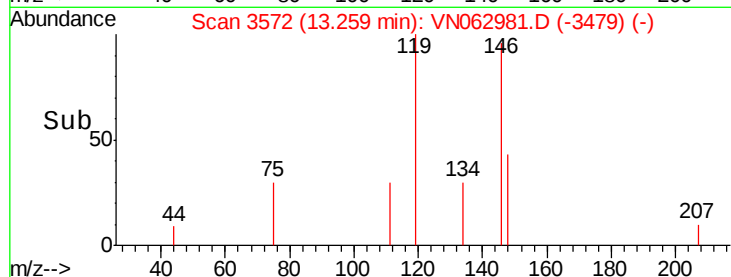
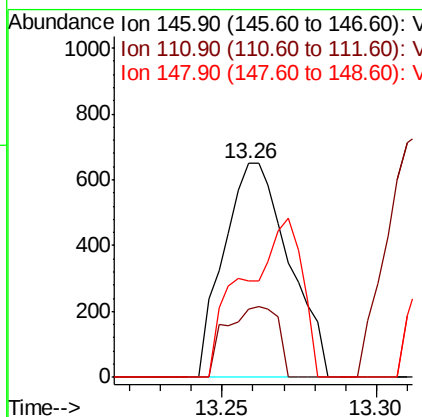
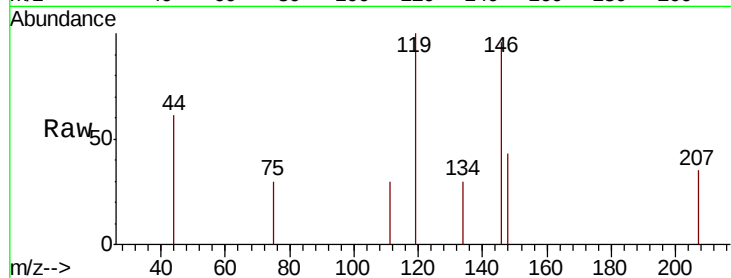




#87
 1,3-Dichlorobenzene
 Concen: 0.236 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VN062981.D
 Acq: 17 Aug 2020 20:20

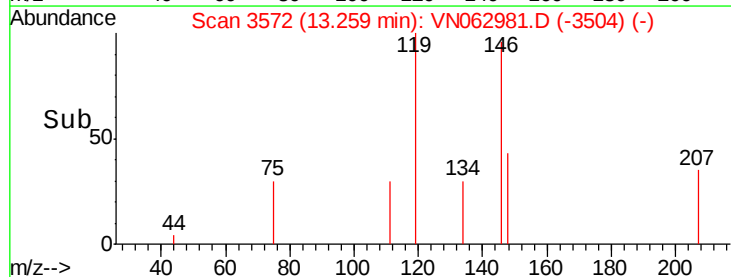
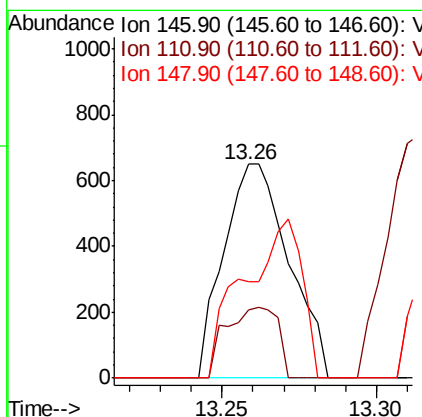
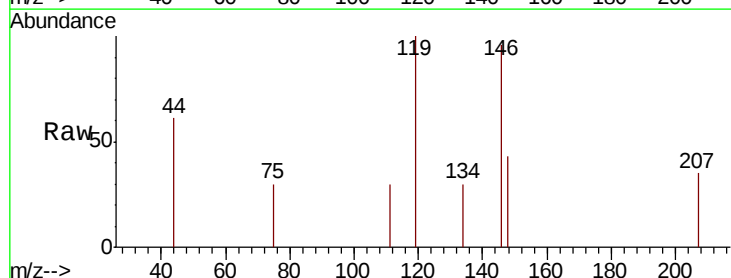
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-081320

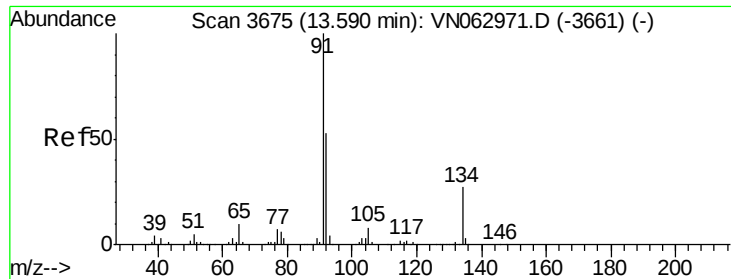
Tot Ion:146 Resp: 954
 Ion Ratio Lower Upper
 146 100
 111 26.3 18.9 56.5
 148 66.1 31.7 95.1



#88
 1,4-Dichlorobenzene
 Concen: 0.229 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. -0.08 min
 Lab File: VN062981.D
 Acq: 17 Aug 2020 20:20

Tgt Ion:146 Resp: 954
 Ion Ratio Lower Upper
 146 100
 111 26.3 18.4 55.2
 148 66.1 32.1 96.5

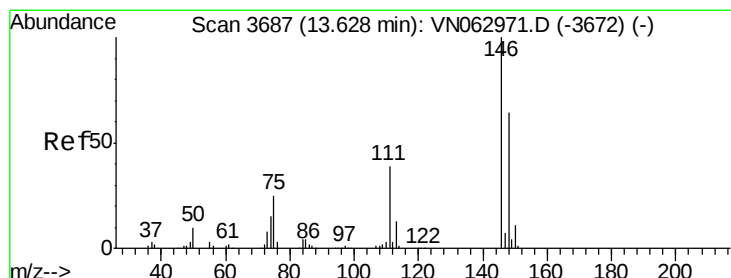
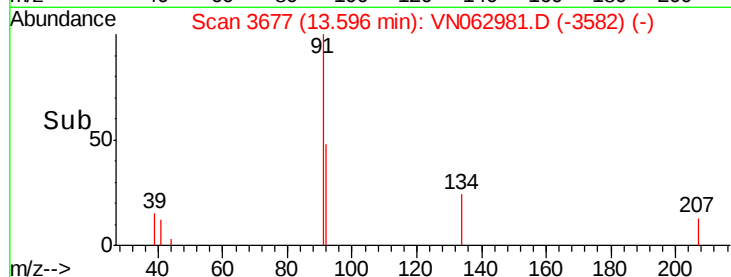
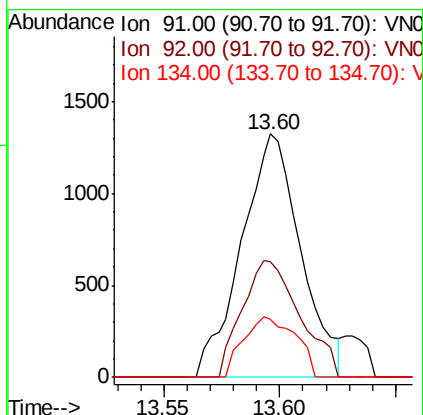
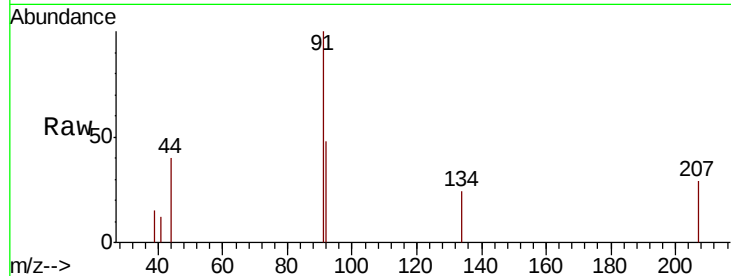




#89
n-Butylbenzene
Concen: 0.400 ug/l
RT: 13.60 min Scan# 3677
Delta R.T. 0.01 min
Lab File: VN062981.D
Acq: 17 Aug 2020 20:20

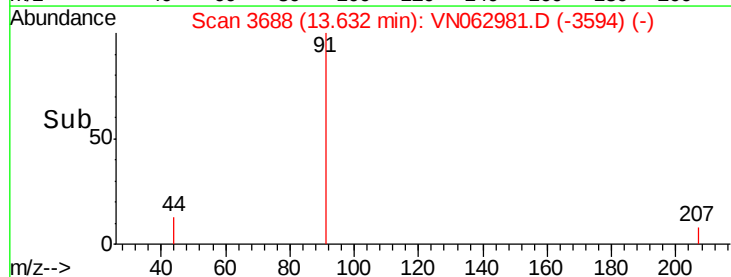
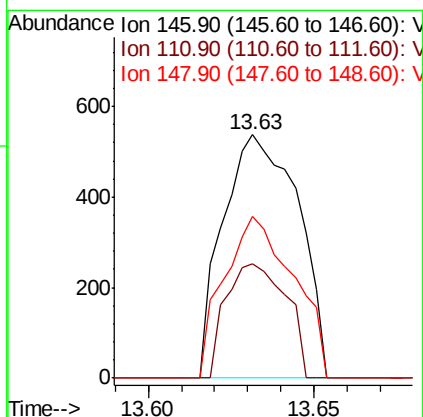
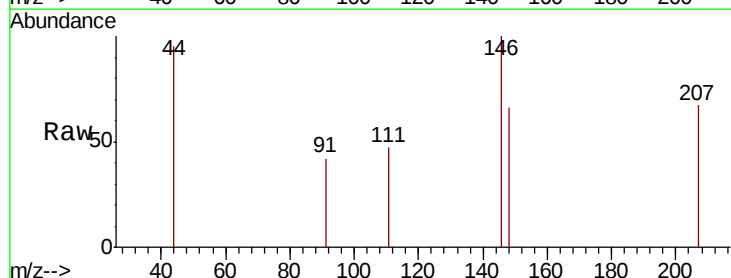
Instrument :
MSVOA_N
ClientSampleId :
TB-01-081320

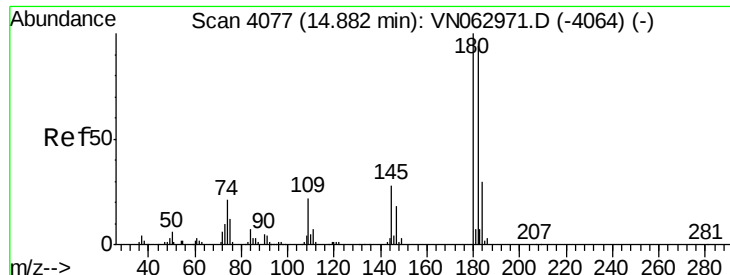
Tot Ion: 91 Resp: 2352
Ion Ratio Lower Upper
91 100
92 46.7 26.3 78.8
134 21.9 13.4 40.2



#91
1,2-Dichlorobenzene
Concen: 0.217 ug/l
RT: 13.63 min Scan# 3688
Delta R.T. 0.00 min
Lab File: VN062981.D
Acq: 17 Aug 2020 20:20

Tgt Ion: 146 Resp: 848
Ion Ratio Lower Upper
146 100
111 37.4 19.4 58.4
148 61.6 32.5 97.5

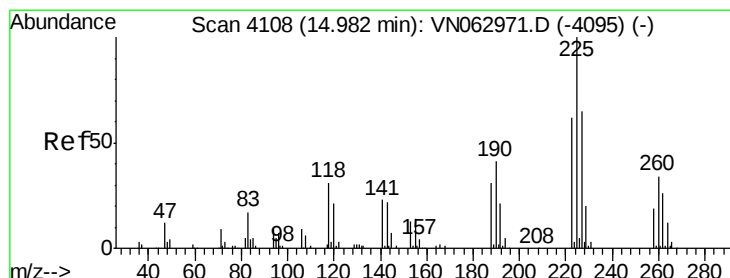
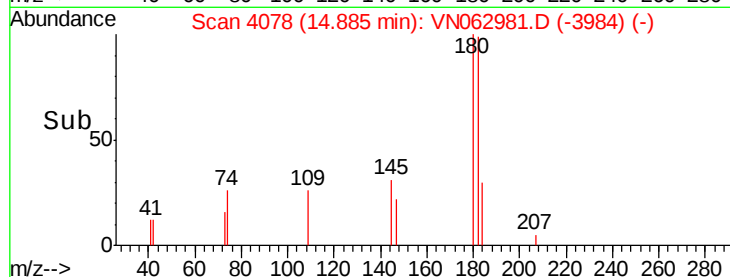
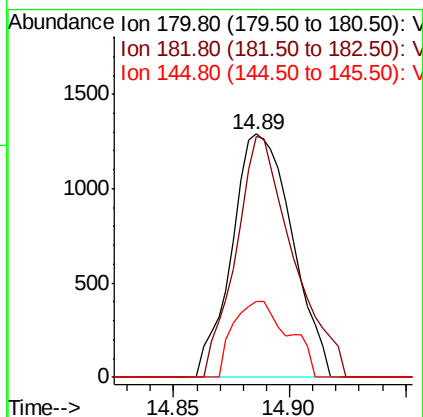
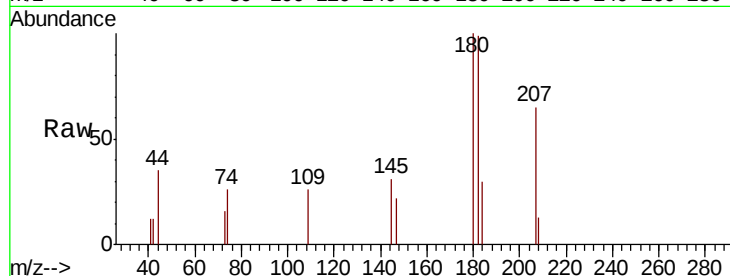




#93
 1,2,4-Trichlorobenzene
 Concen: 5.239 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN062981.D
 Acq: 17 Aug 2020 20:20

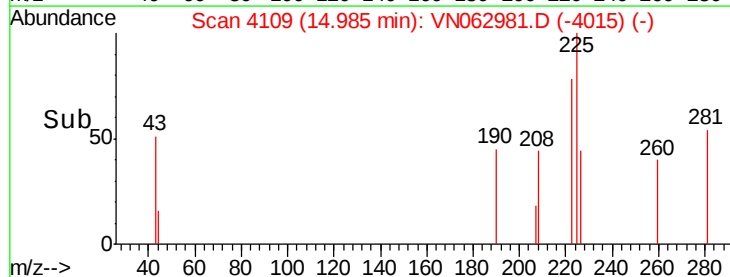
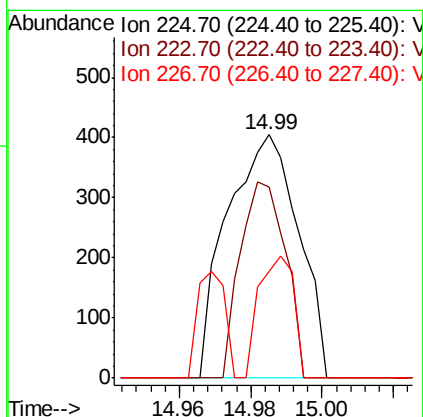
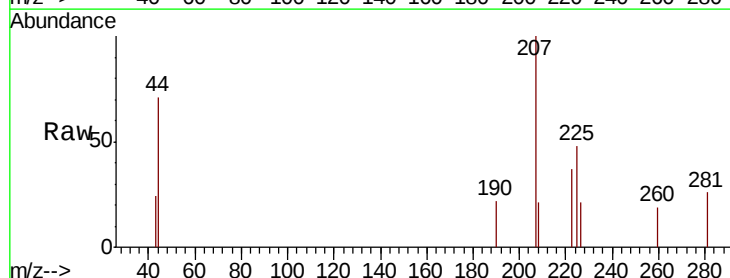
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-081320

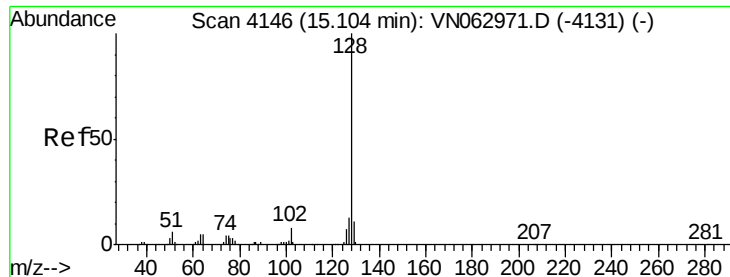
Tot Ion:180 Resp: 2326
 Ion Ratio Lower Upper
 180 100
 182 93.9 47.8 143.3
 145 28.6 13.9 41.7



#94
 Hexachlorobutadiene
 Concen: 0.369 ug/l
 RT: 14.99 min Scan# 4109
 Delta R.T. 0.00 min
 Lab File: VN062981.D
 Acq: 17 Aug 2020 20:20

Tgt Ion:225 Resp: 557
 Ion Ratio Lower Upper
 225 100
 223 51.2 30.9 92.5
 227 24.6 32.0 96.0#





#95

Naphthalene

Concen: 1.843 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

TB-01-081320

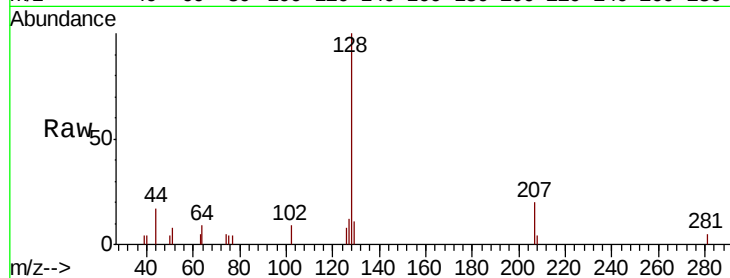
Tot Ion:128 Resp: 8501

Ion Ratio Lower Upper

128 100

127 10.6 10.6 15.8

129 9.2 8.6 12.8

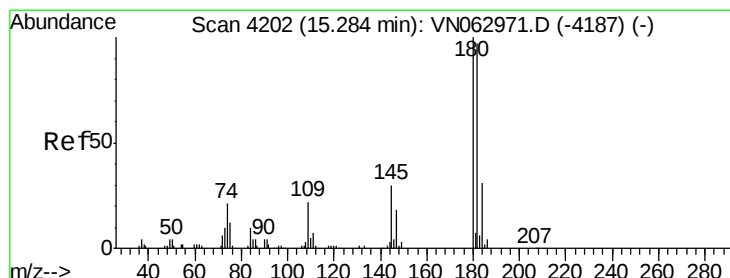
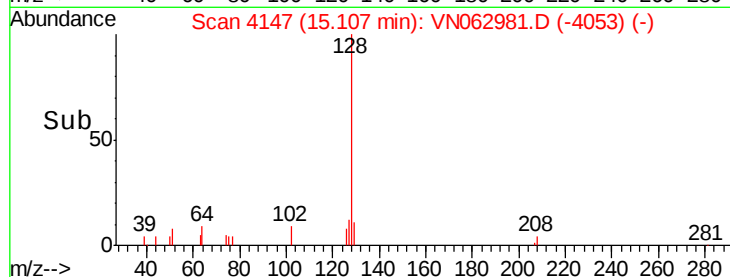
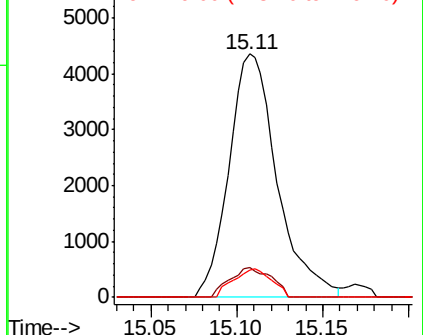


Abundance

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



#96

1,2,3-Trichlorobenzene

Concen: 4.936 ug/l

RT: 15.29 min Scan# 4203

Delta R.T. 0.00 min

Lab File: VN062981.D

Acq: 17 Aug 2020 20:20

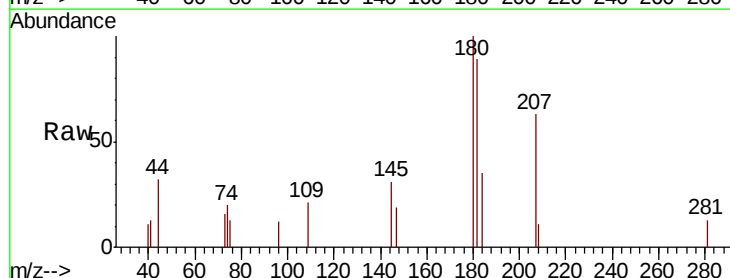
Tgt Ion:180 Resp: 2873

Ion Ratio Lower Upper

180 100

182 87.6 49.3 147.8

145 25.6 15.0 45.0



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

