

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070121\
 Data File : VN067597.D
 Acq On : 1 Jul 2021 15:30
 Operator : JC/MD
 Sample : M2861-01 10X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

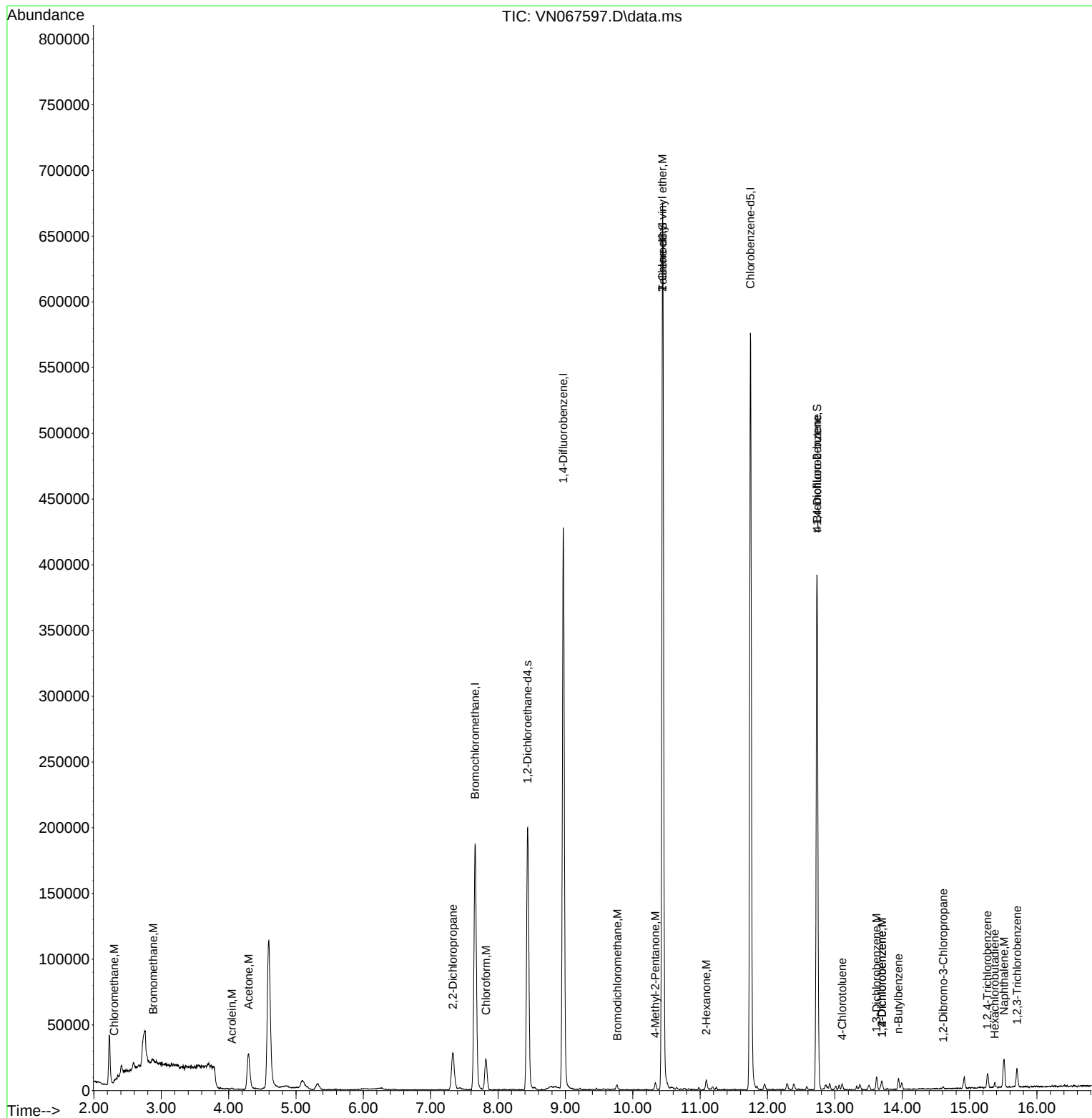
Quant Time: Jul 02 06:46:31 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N070121W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 01 12:09:22 2021
 Response via : Initial Calibration

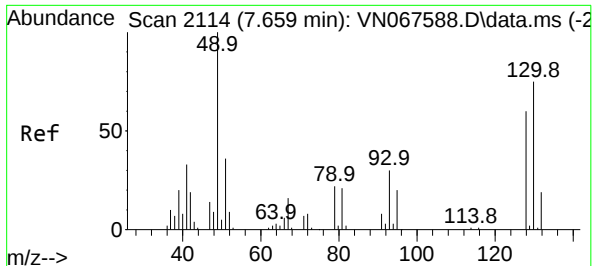
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.659	128	64060	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	375465	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	325090	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	167719	32.399	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.000%
60) 4-Bromofluorobenzene	12.736	95	137031	25.911	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.367%
63) Toluene-d8	10.443	98	468346	31.485	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.933%
Target Compounds						
					Qvalue	
3) Chloromethane	2.301	50	1325	0.277	ug/l #	82
5) Bromomethane	2.880	94	1838	0.303	ug/l	97
13) Acrolein	4.049	56	219	0.389	ug/l	93
15) Acetone	4.296	58	13898	31.979	ug/l	84
25) Chloroform	7.820	83	23332	2.920	ug/l	99
31) 2,2-Dichloropropane	7.329	77	1691	0.270	ug/l #	56
41) Bromodichloromethane	9.770	83	2593	0.398	ug/l #	93
55) 2-Chloroethyl vinyl ether	10.440	63	397	0.250	ug/l #	16
58) 4-Methyl-2-Pentanone	10.336	43	3886	0.687	ug/l #	92
59) 2-Hexanone	11.092	43	5376	1.364	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	77185	45.109	ug/l #	6
78) 4-Chlorotoluene	13.109	91	3000	0.213	ug/l	87
83) 1,3-Dichlorobenzene	13.619	146	2638	0.301	ug/l	79
84) 1,4-Dichlorobenzene	13.699	146	2932	0.345	ug/l	89
85) n-Butylbenzene	13.946	91	5310	0.393	ug/l	98
87) 1,2-Dichlorobenzene	13.699	146	2932	0.347	ug/l	87
88) 1,2-Dibromo-3-Chloropr...	14.608	75	422	0.394	ug/l #	76
89) 1,2,4-Trichlorobenzene	15.265	180	3681	1.011	ug/l #	86
90) Hexachlorobutadiene	15.373	225	449	0.266	ug/l	51
91) Naphthalene	15.512	128	19837	1.769	ug/l	98
92) 1,2,3-Trichlorobenzene	15.705	180	4719	1.359	ug/l	80

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

Quant Time: Jul 02 06:46:31 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N070121W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 01 12:09:22 2021
Response via : Initial Calibration

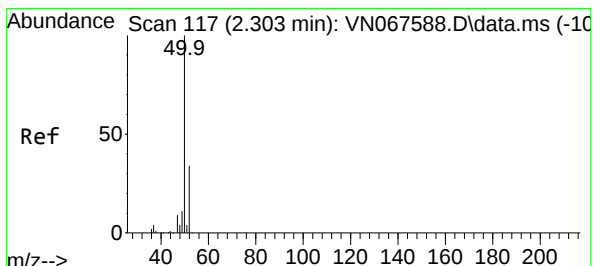
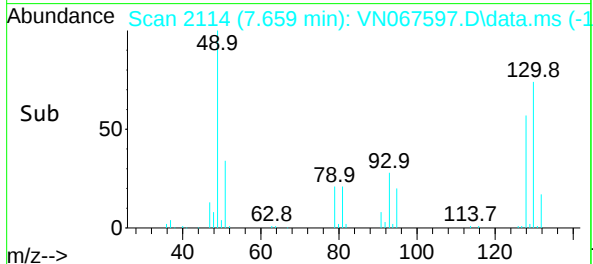
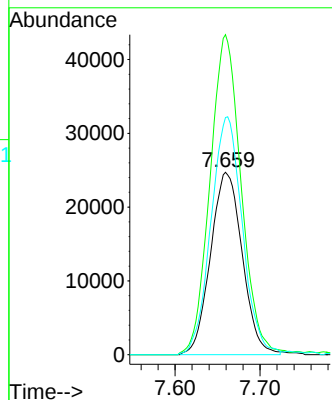
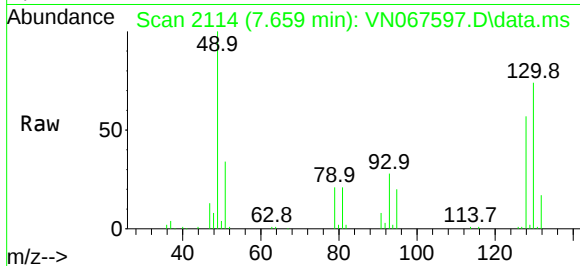




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

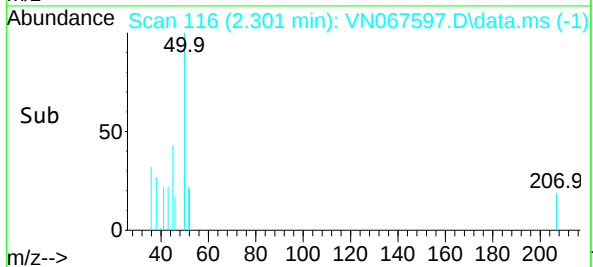
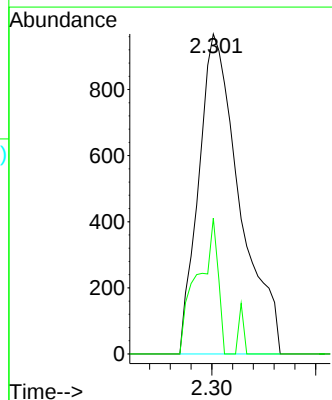
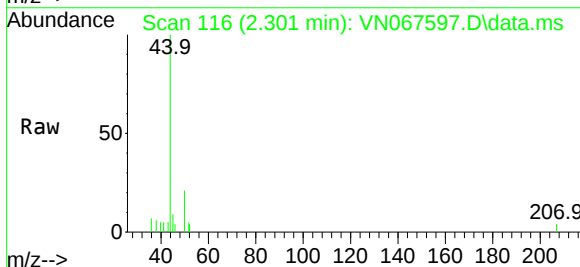
Instrument :
MSVOA_N
ClientSampleId :

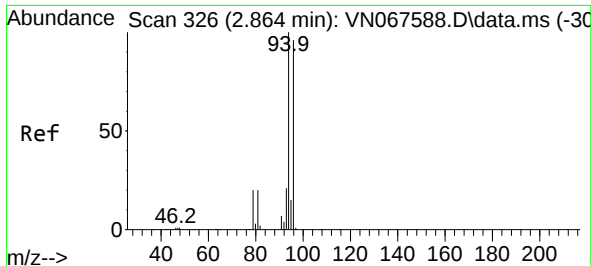
Tgt Ion:128 Resp: 64060
Ion Ratio Lower Upper
128 100
49 171.8 0.0 517.5
130 129.2 0.0 325.8



#3
Chloromethane
Concen: 0.277 ug/l
RT: 2.301 min Scan# 116
Delta R.T. -0.002 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion: 50 Resp: 1325
Ion Ratio Lower Upper
50 100
52 42.5 26.0 39.0#

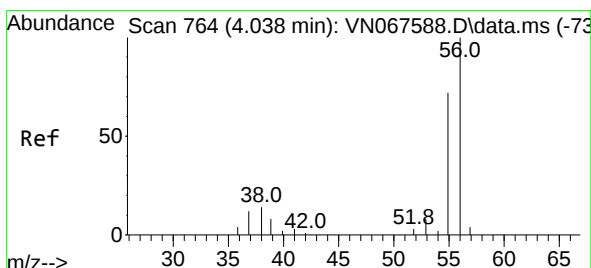
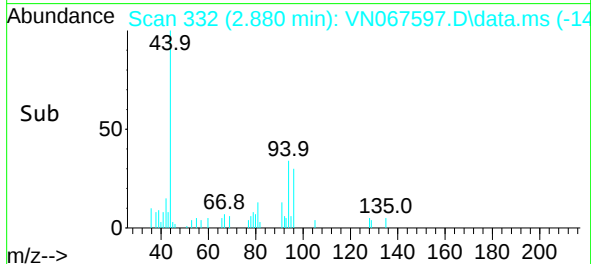
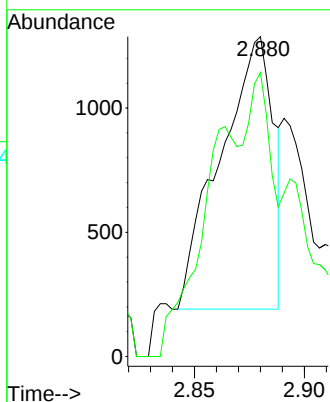
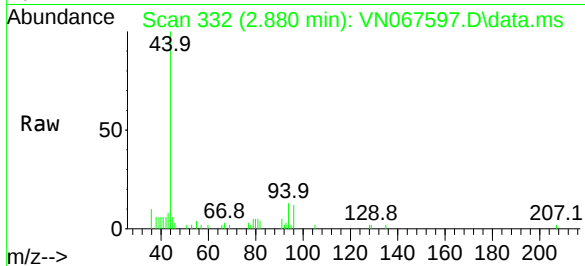




#5
Bromomethane
Concen: 0.303 ug/l
RT: 2.880 min Scan# 332
Delta R.T. 0.016 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

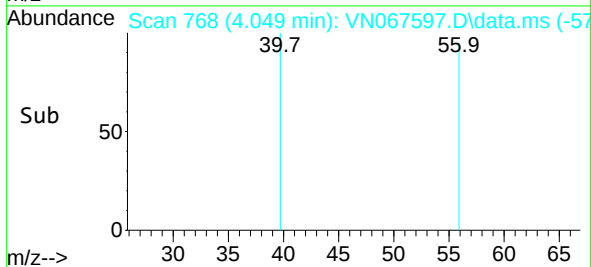
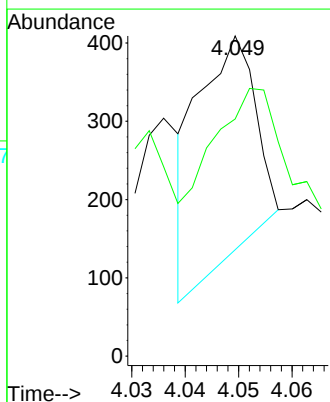
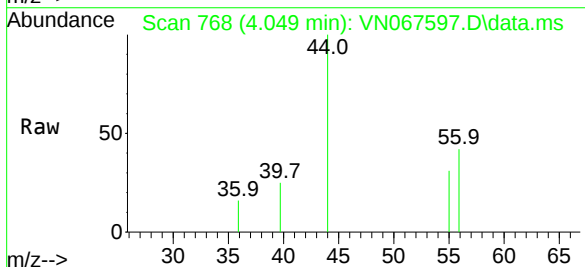
Instrument :
MSVOA_N
ClientSampled :

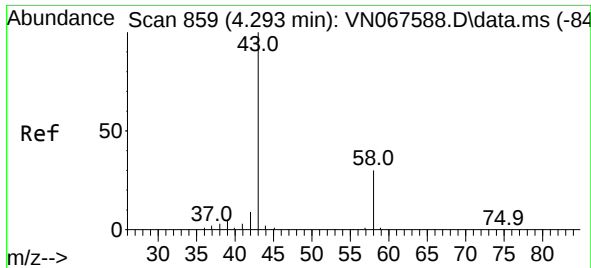
Tgt Ion: 94 Resp: 1838
Ion Ratio Lower Upper
94 100
96 84.4 69.4 104.2



#13
Acrolein
Concen: 0.389 ug/l
RT: 4.049 min Scan# 768
Delta R.T. 0.011 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion: 56 Resp: 219
Ion Ratio Lower Upper
56 100
55 78.1 57.5 86.3

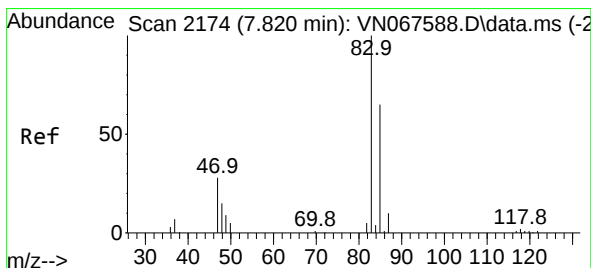
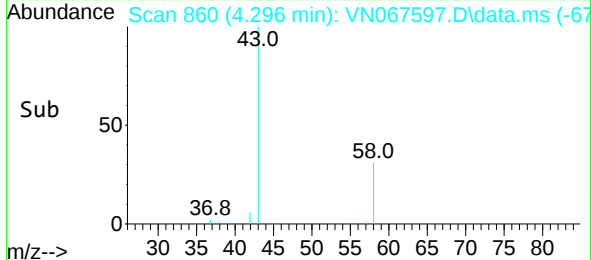
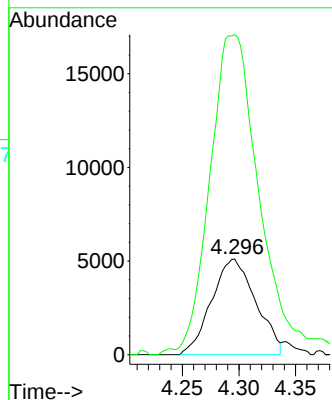
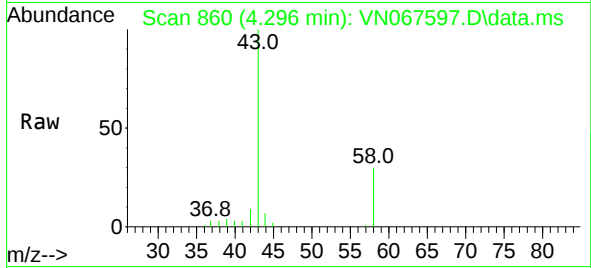




#15
Acetone
Concen: 31.979 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.003 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

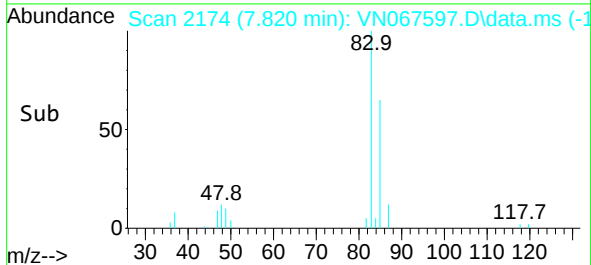
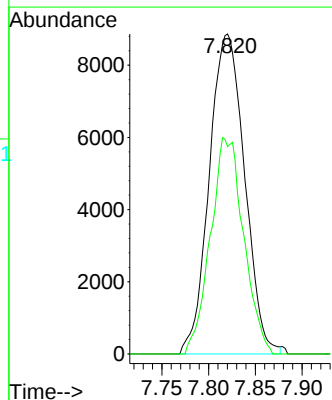
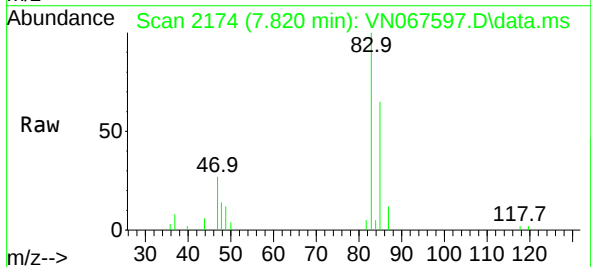
Instrument :
MSVOA_N
ClientSampled :

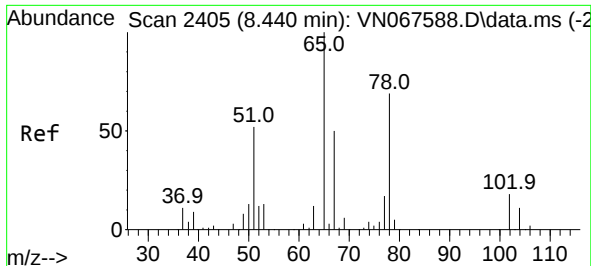
Tgt Ion: 58 Resp: 13898
Ion Ratio Lower Upper
58 100
43 326.2 289.6 434.4



#25
Chloroform
Concen: 2.920 ug/l
RT: 7.820 min Scan# 2174
Delta R.T. 0.000 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion: 83 Resp: 23332
Ion Ratio Lower Upper
83 100
85 64.8 51.5 77.3



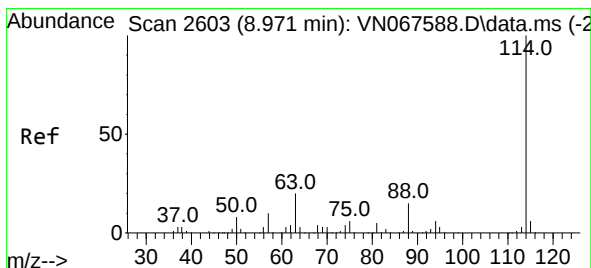
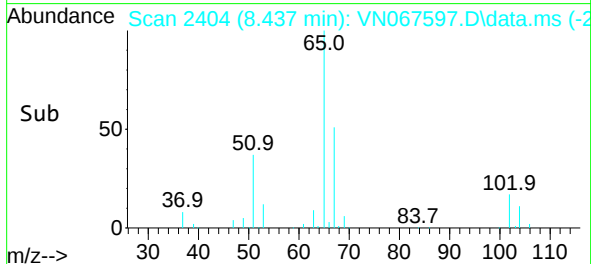
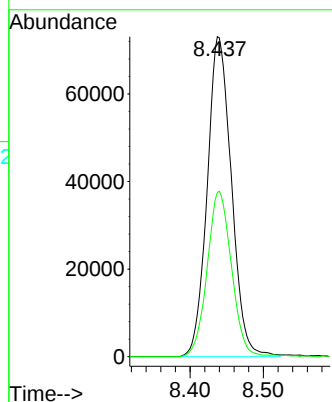
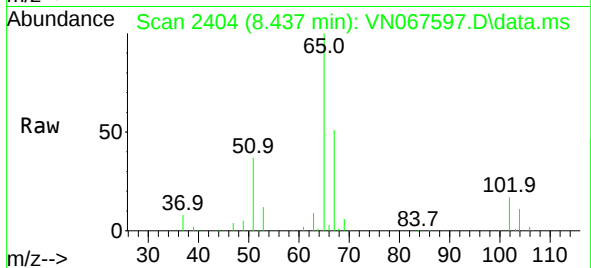


#27

1,2-Dichloroethane-d4
Concen: 32.399 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. -0.002 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Instrument :
MSVOA_N
ClientSampleId :

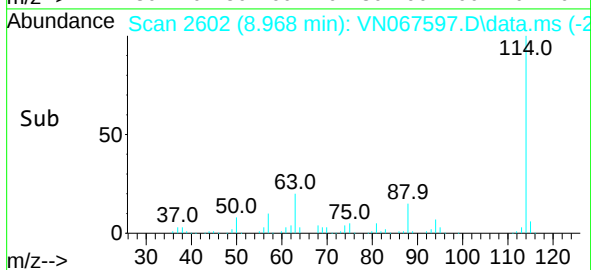
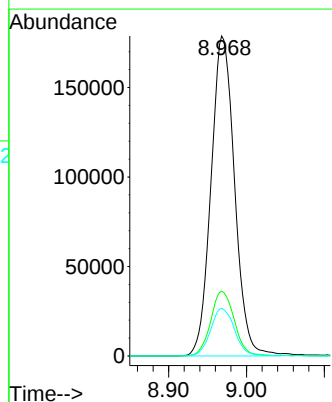
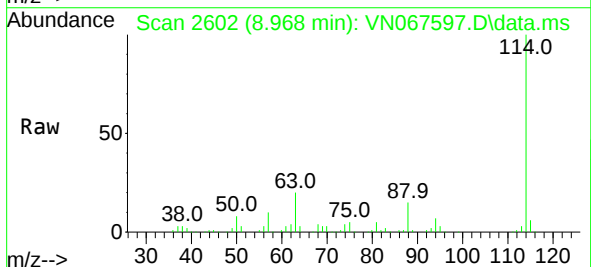
Tgt Ion: 65 Resp: 167719
Ion Ratio Lower Upper
65 100
67 51.6 39.8 59.8

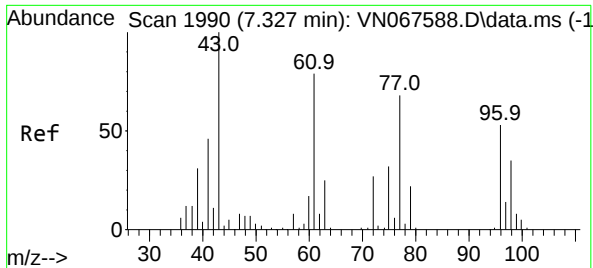


#28

1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.003 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion: 114 Resp: 375465
Ion Ratio Lower Upper
114 100
63 20.3 20.3 30.5
88 15.1 14.6 22.0

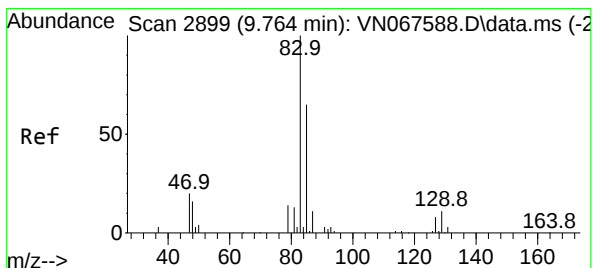
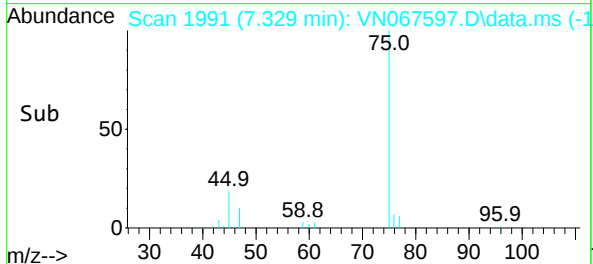
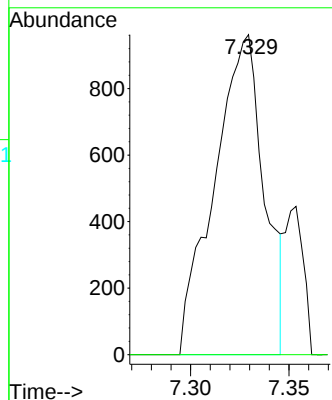
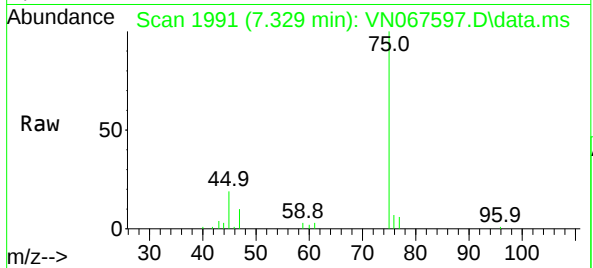




#31
2,2-Dichloropropane
Concen: 0.270 ug/l
RT: 7.329 min Scan# 1991
Delta R.T. 0.003 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

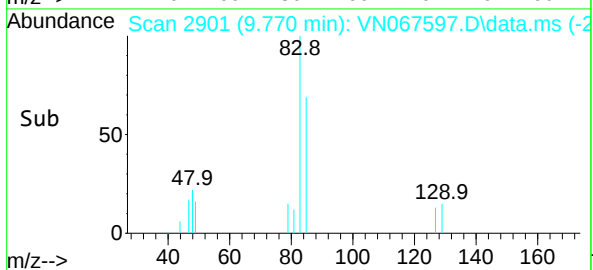
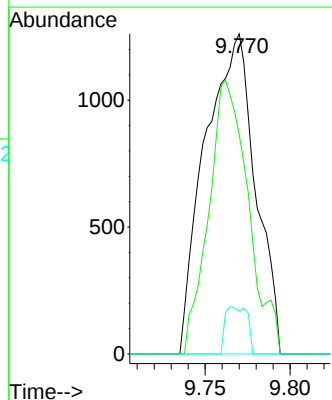
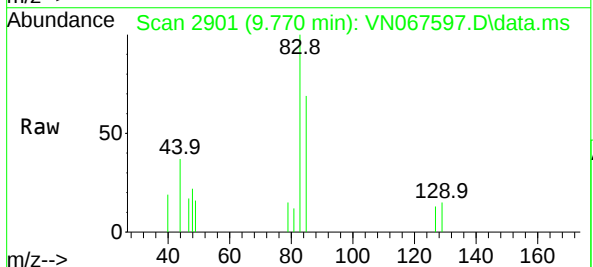
Instrument :
MSVOA_N
ClientSampled :

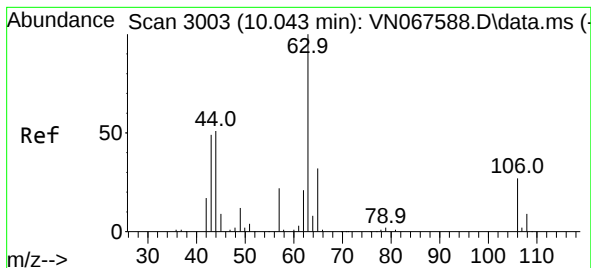
Tgt Ion: 77 Resp: 1691
Ion Ratio Lower Upper
77 100
97 0.0 16.3 24.5#



#41
Bromodichloromethane
Concen: 0.398 ug/l
RT: 9.770 min Scan# 2901
Delta R.T. 0.006 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion: 83 Resp: 2593
Ion Ratio Lower Upper
83 100
85 68.5 51.2 76.8
127 13.3 6.6 9.8#

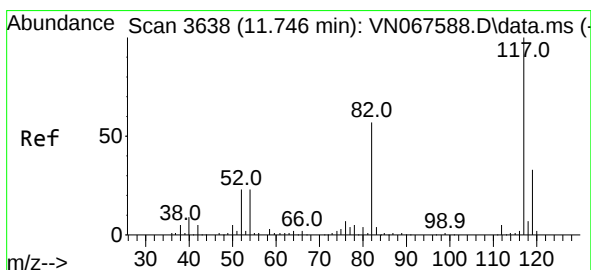
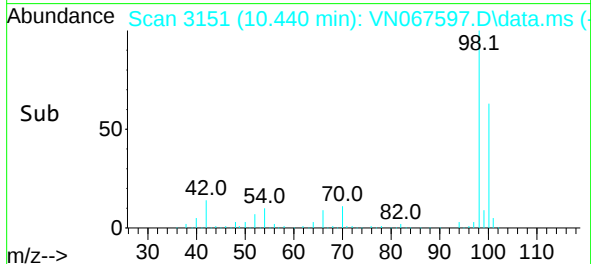
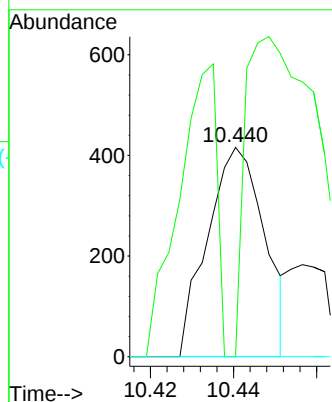
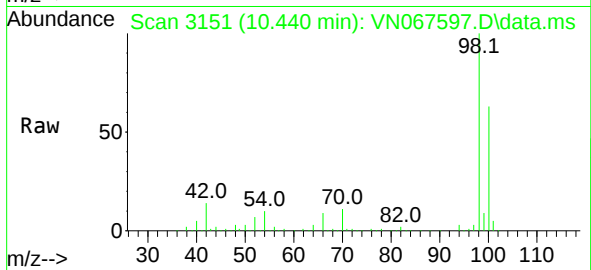




#55
2-Chloroethyl vinyl ether
Concen: 0.250 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. 0.397 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

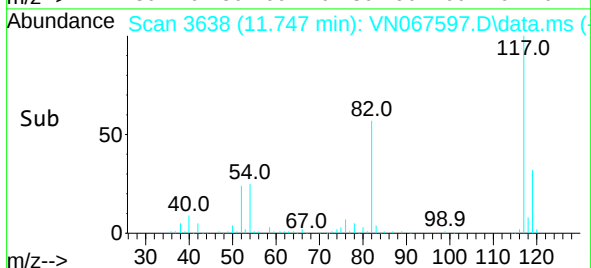
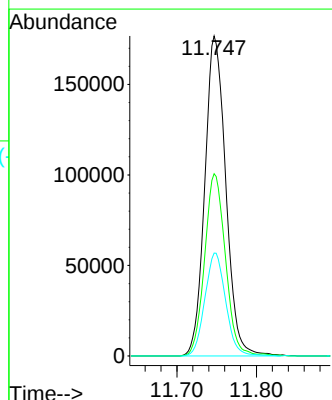
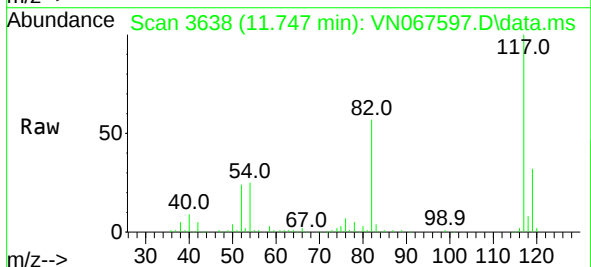
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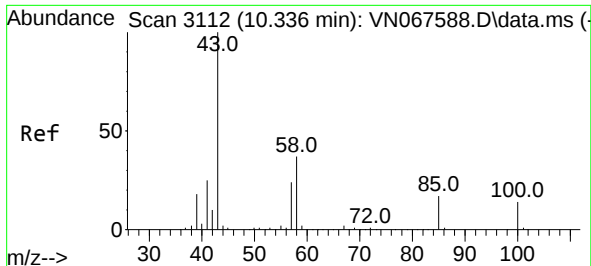
Tgt Ion: 63 Resp: 397
Ion Ratio Lower Upper
63 100
65 93.5 25.6 38.4#
106 0.0 20.0 30.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion: 117 Resp: 325090
Ion Ratio Lower Upper
117 100
82 56.2 52.5 78.7
119 32.0 25.8 38.8

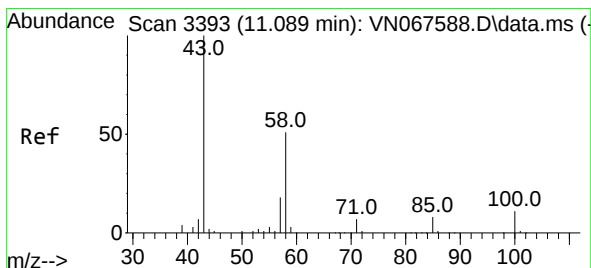
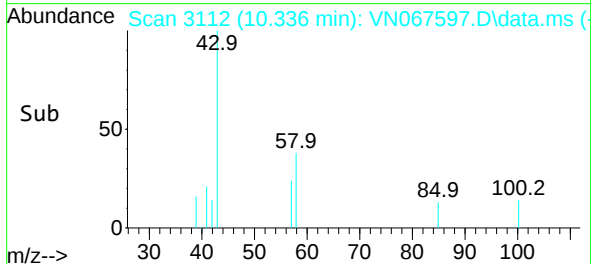
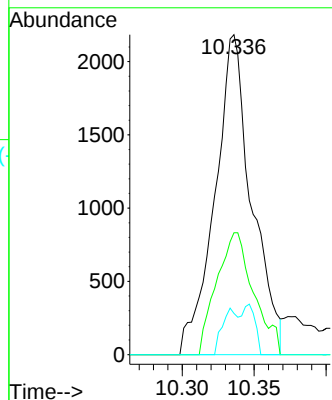
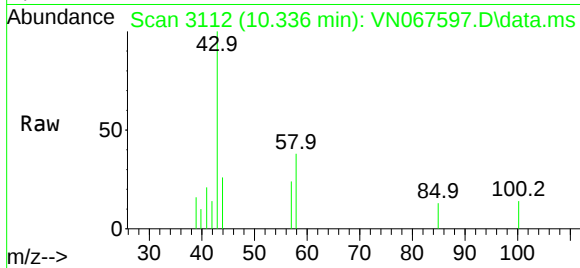




#58
4-Methyl-2-Pentanone
Concen: 0.687 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.000 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

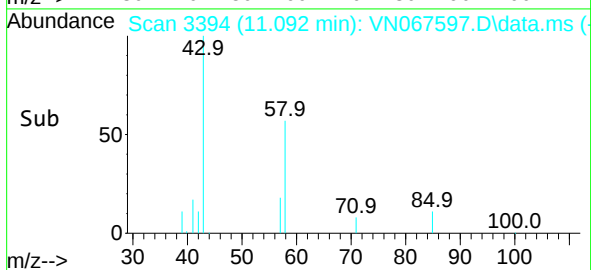
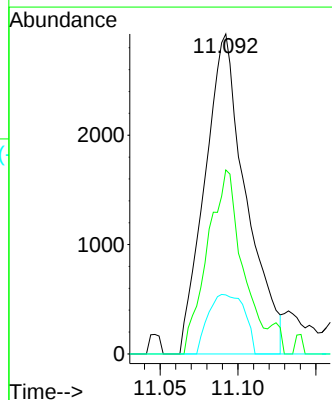
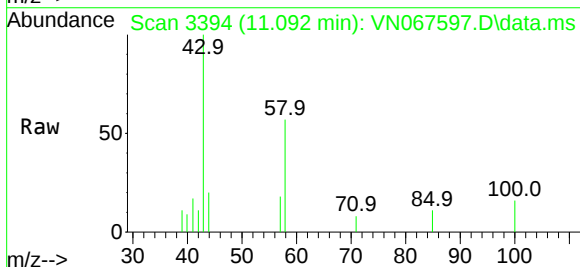
Instrument :
MSVOA_N
ClientSampled :

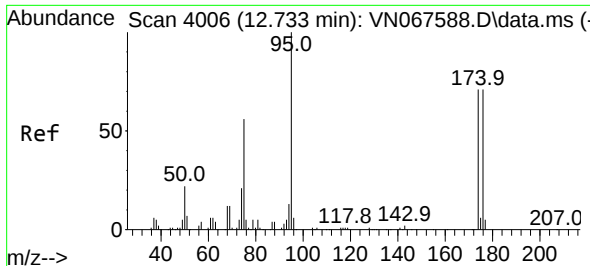
Tgt Ion: 43 Resp: 3886
Ion Ratio Lower Upper
43 100
58 36.7 29.0 43.4
85 6.0 13.2 19.8#



#59
2-Hexanone
Concen: 1.364 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.003 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion: 43 Resp: 5376
Ion Ratio Lower Upper
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58 49.0 39.4 59.0
57 16.3 14.4 21.6

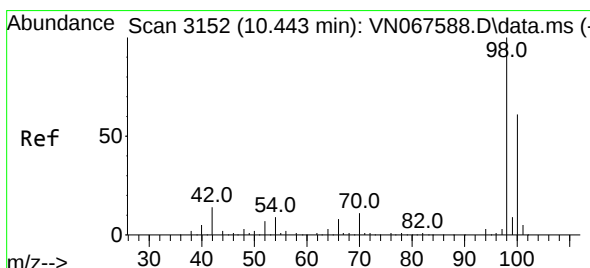
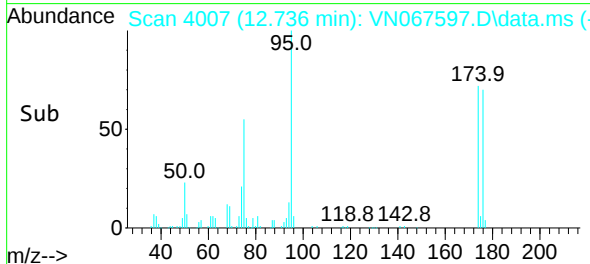
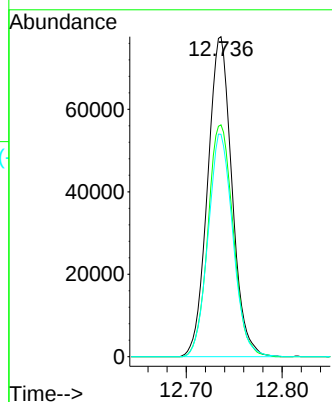
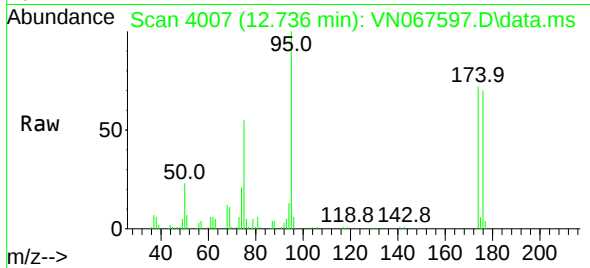




#60
4-Bromofluorobenzene
Concen: 25.911 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.003 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

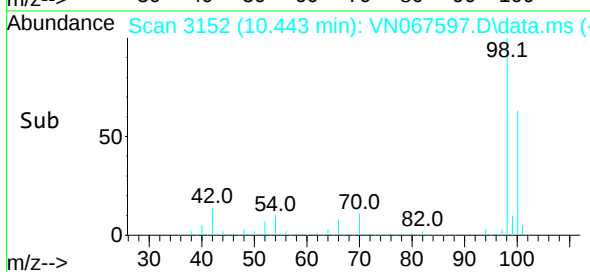
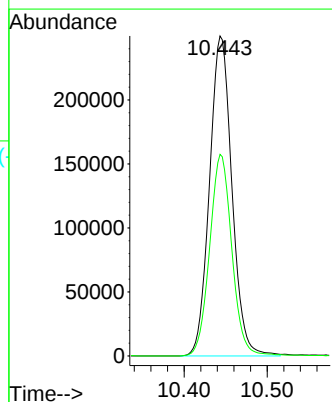
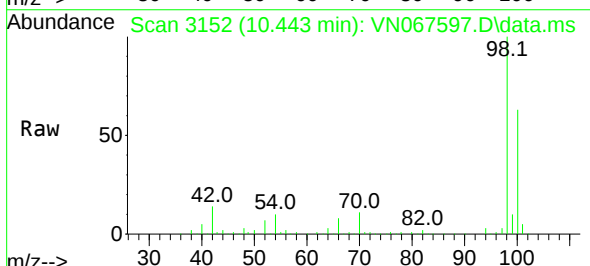
Instrument :
MSVOA_N
ClientSampleId :

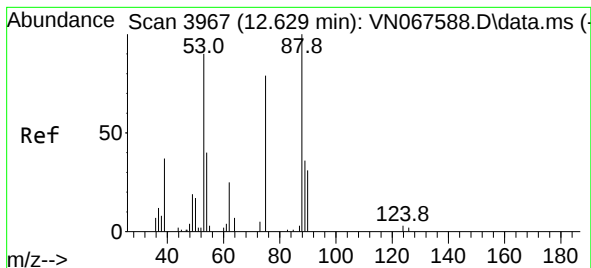
Tgt Ion: 95 Resp: 137031
Ion Ratio Lower Upper
95 100
174 75.1 47.7 71.5#
176 71.0 45.7 68.5#



#63
Toluene-d8
Concen: 31.485 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion: 98 Resp: 468346
Ion Ratio Lower Upper
98 100
100 62.3 51.2 76.8

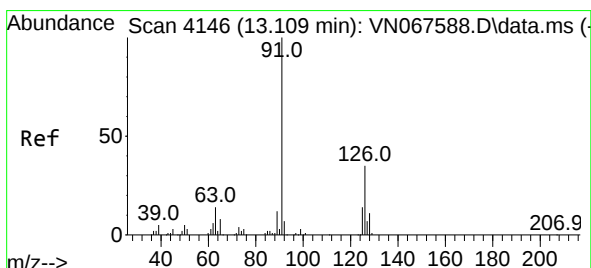
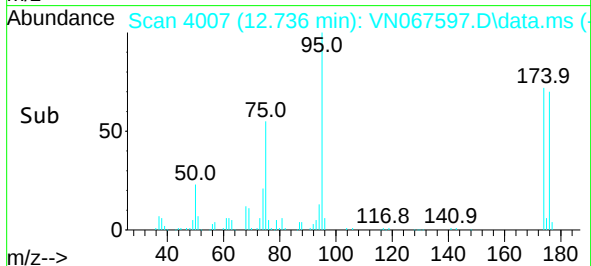
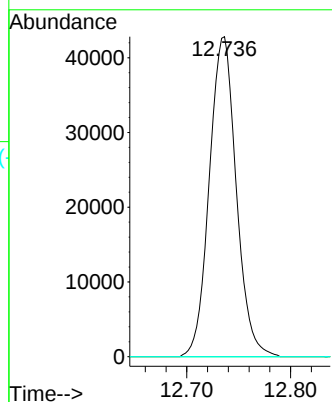
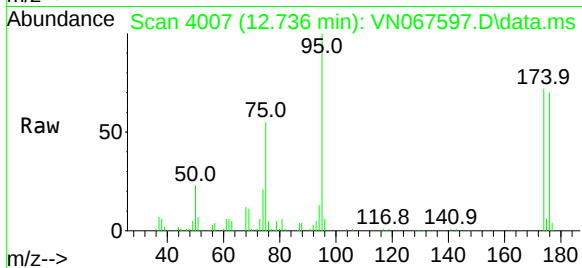




#77
t-1,4-Dichloro-2-butene
Concen: 45.109 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.107 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

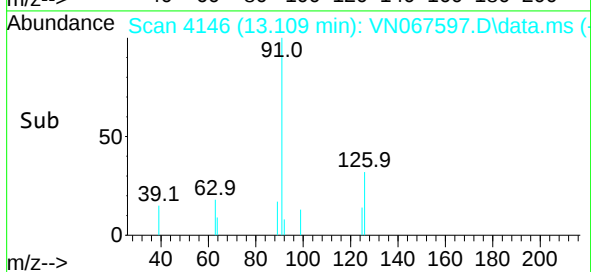
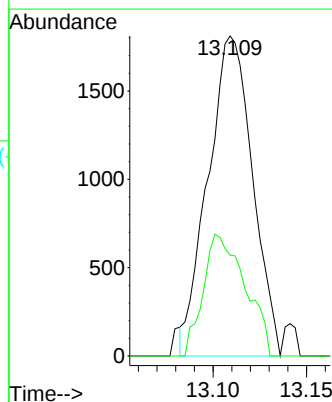
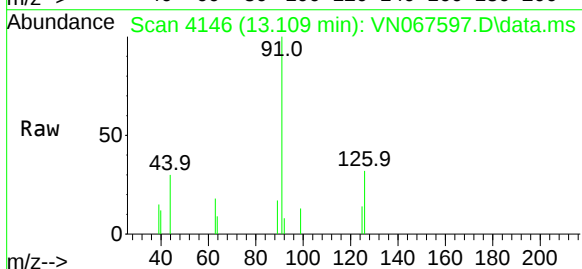
Instrument :
MSVOA_N
ClientSampled :

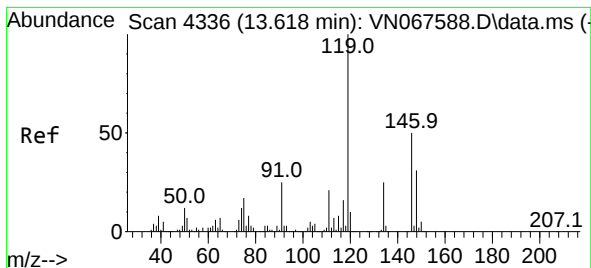
Tgt Ion: 75 Resp: 77185
Ion Ratio Lower Upper
75 100
53 0.0 55.2 165.6#
89 0.0 24.5 73.5#



#78
4-Chlorotoluene
Concen: 0.213 ug/l
RT: 13.109 min Scan# 4146
Delta R.T. 0.000 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion: 91 Resp: 3000
Ion Ratio Lower Upper
91 100
126 35.8 0.0 57.6





#83

1,3-Dichlorobenzene

Concen: 0.301 ug/l

RT: 13.619 min Scan# 4336

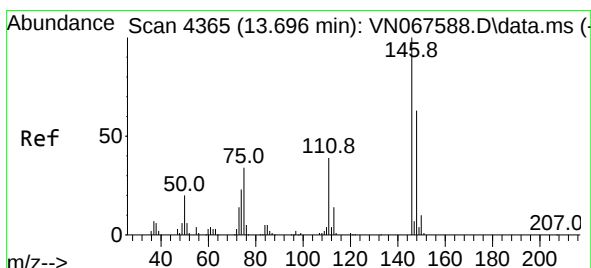
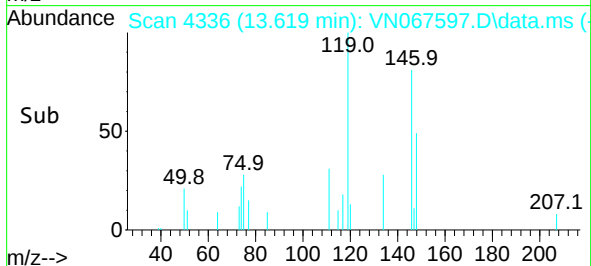
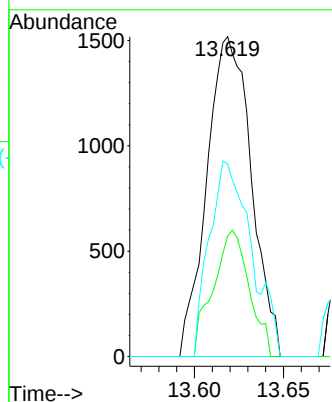
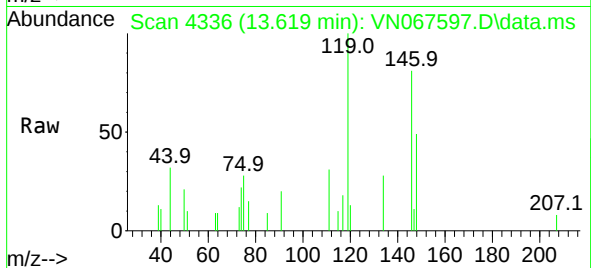
Delta R.T. 0.000 min

Lab File: VN067597.D

Acq: 1 Jul 2021 15:30

Tgt Ion:	146	Resp:	2638
Ion	Ratio	Lower	Upper
146	100		
111	31.2	25.0	75.0
148	52.8	32.6	97.7

Instrument :
MSVOA_N
ClientSampled :



#84

1,4-Dichlorobenzene

Concen: 0.345 ug/l

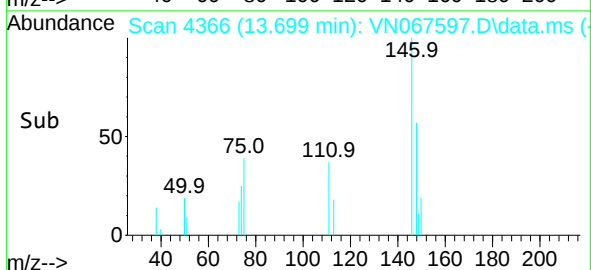
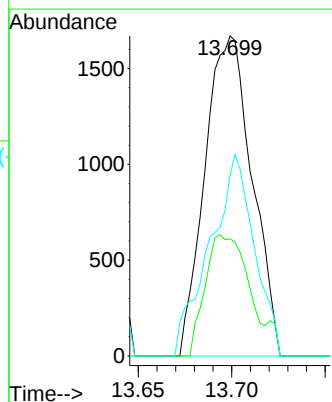
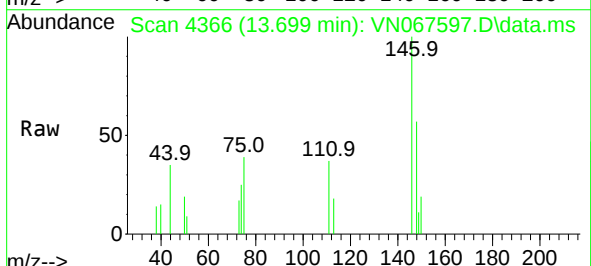
RT: 13.699 min Scan# 4366

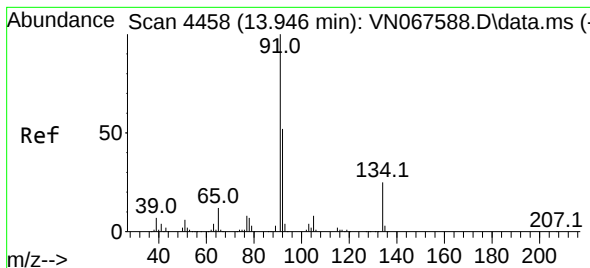
Delta R.T. 0.003 min

Lab File: VN067597.D

Acq: 1 Jul 2021 15:30

Tgt Ion:	146	Resp:	2932
Ion	Ratio	Lower	Upper
146	100		
111	34.4	23.6	71.0
148	59.5	31.8	95.3

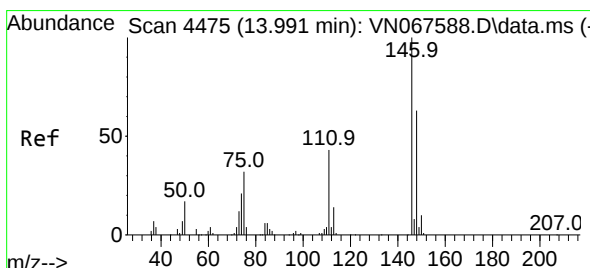
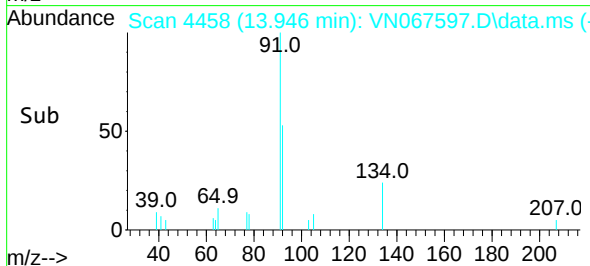
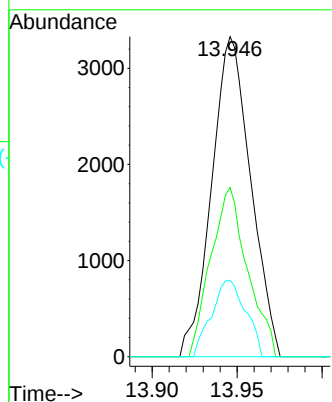
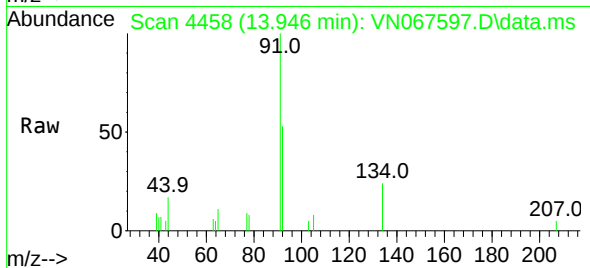




#85
n-Butylbenzene
Concen: 0.393 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.000 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

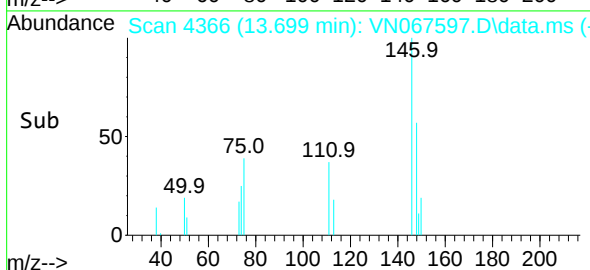
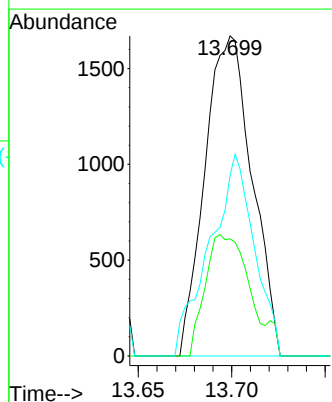
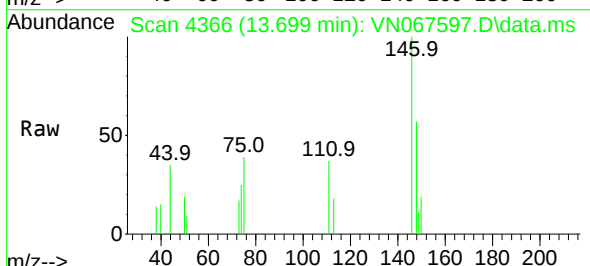
Instrument :
MSVOA_N
ClientSampleId :

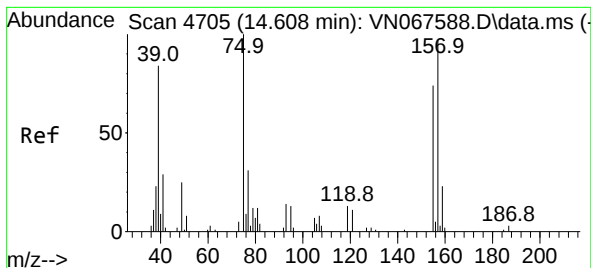
Tgt Ion: 91	Resp: 5310
Ion Ratio	Lower Upper
91 100	
92 49.8	0.0 103.0
134 21.0	0.0 43.6



#87
1,2-Dichlorobenzene
Concen: 0.347 ug/l
RT: 13.699 min Scan# 4366
Delta R.T. -0.292 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion:146	Resp:	2932	
Ion	Ratio	Lower	Upper
146	100		
111	34.4	25.0	75.0
148	59.5	32.0	96.0

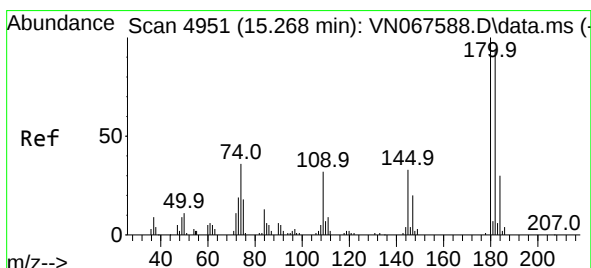
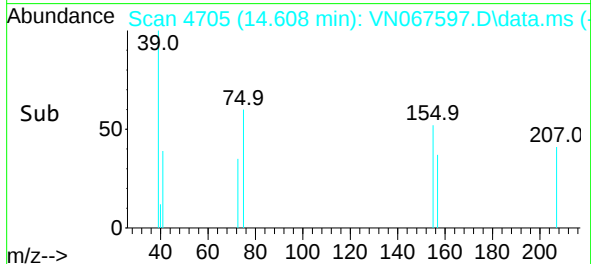
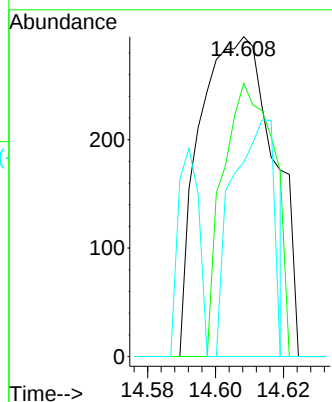
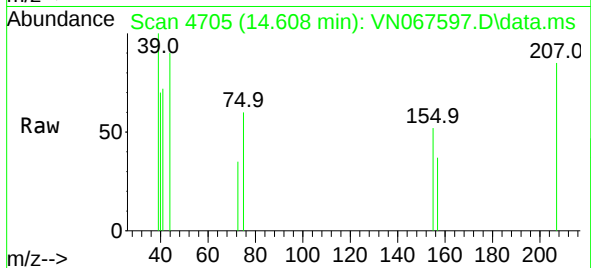




#88
1,2-Dibromo-3-Chloropropane
Concen: 0.394 ug/l
RT: 14.608 min Scan# 4705
Delta R.T. 0.000 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

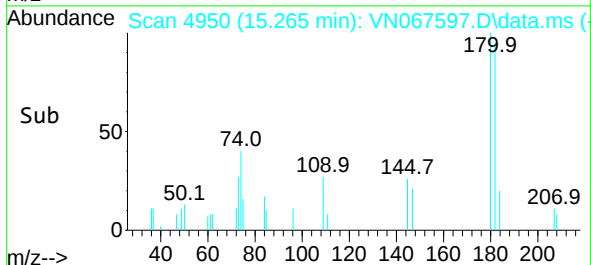
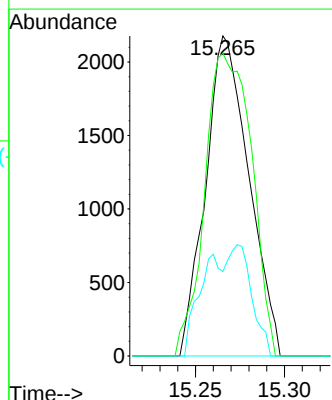
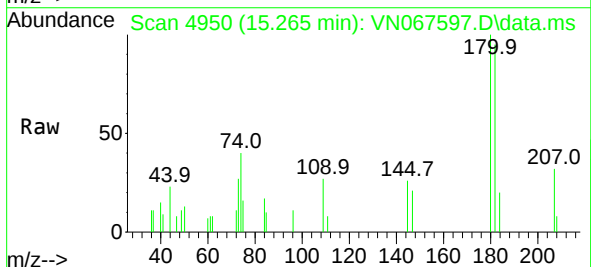
Instrument :
MSVOA_N
ClientSampleId :

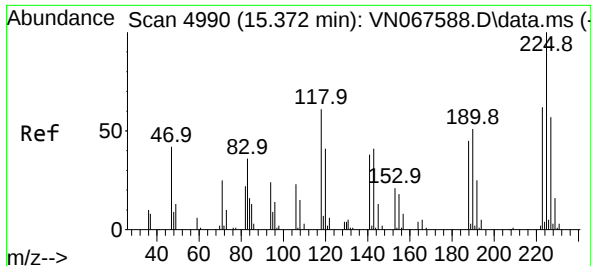
Tgt Ion: 75 Resp: 422
Ion Ratio Lower Upper
75 100
155 62.3 45.3 67.9
157 43.1 58.6 87.8#



#89
1,2,4-Trichlorobenzene
Concen: 1.011 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. -0.002 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

Tgt Ion:180 Resp: 3681
Ion Ratio Lower Upper
180 100
182 102.3 75.9 113.9
145 17.8 28.8 43.2#

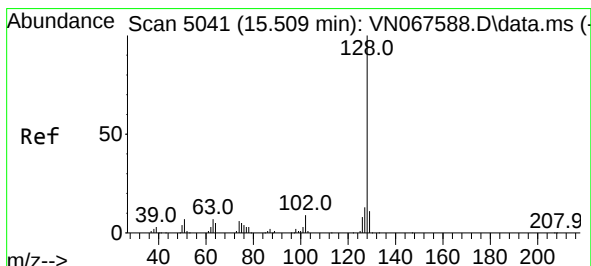
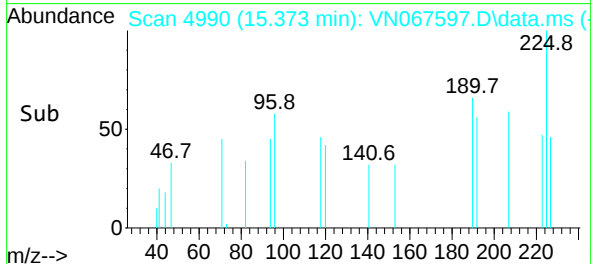
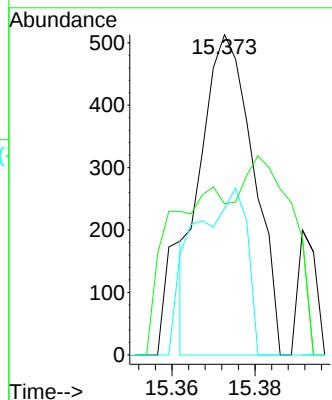
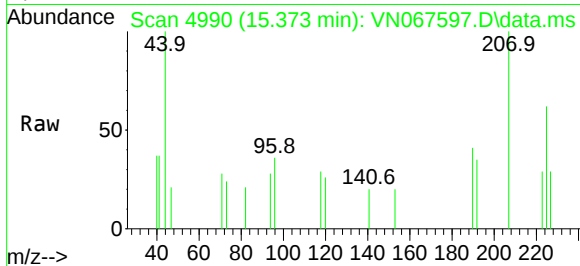




#90
Hexachlorobutadiene
Concen: 0.266 ug/l
RT: 15.373 min Scan# 4990
Delta R.T. 0.000 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

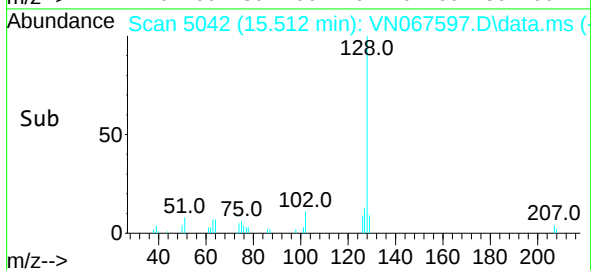
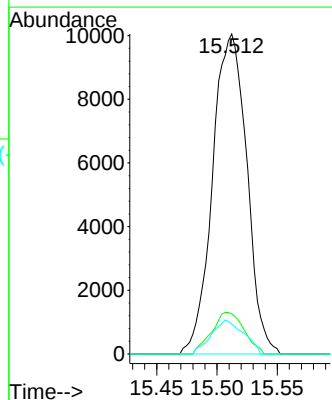
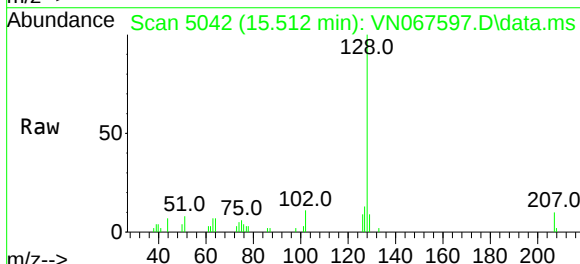
Instrument :
MSVOA_N
ClientSampled :

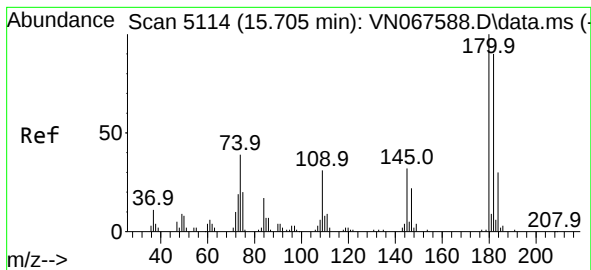
Tgt Ion:225 Resp: 449
Ion Ratio Lower Upper
225 100
223 27.4 0.0 129.6
227 25.6 0.0 131.2



#91
Naphthalene
Concen: 1.769 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.003 min
Lab File: VN067597.D
Acq: 1 Jul 2021 15:30

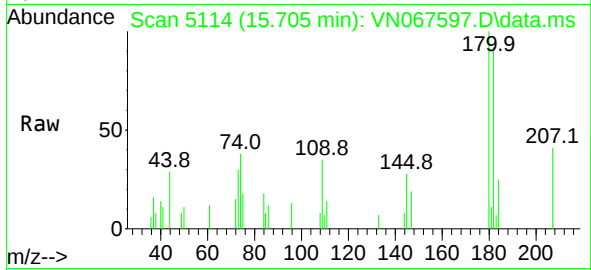
Tgt Ion:128 Resp: 19837
Ion Ratio Lower Upper
128 100
127 12.3 10.1 15.1
129 10.0 8.9 13.3





#92
 1,2,3-Trichlorobenzene
 Concen: 1.359 ug/l
 RT: 15.705 min Scan# 5114
 Delta R.T. 0.000 min
 Lab File: VN067597.D
 Acq: 1 Jul 2021 15:30

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	4719
Ion Ratio	Lower	Upper	
180	100		
182	89.5	0.0	184.6
145	1.3	0.0	76.0

