

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042621\
 Data File : VN066765.D
 Acq On : 26 Apr 2021 16:40
 Operator : JC/MD
 Sample : PB135974ZHE#01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 27 06:13:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042121W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 22 08:25:55 2021
 Response via : Initial Calibration

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

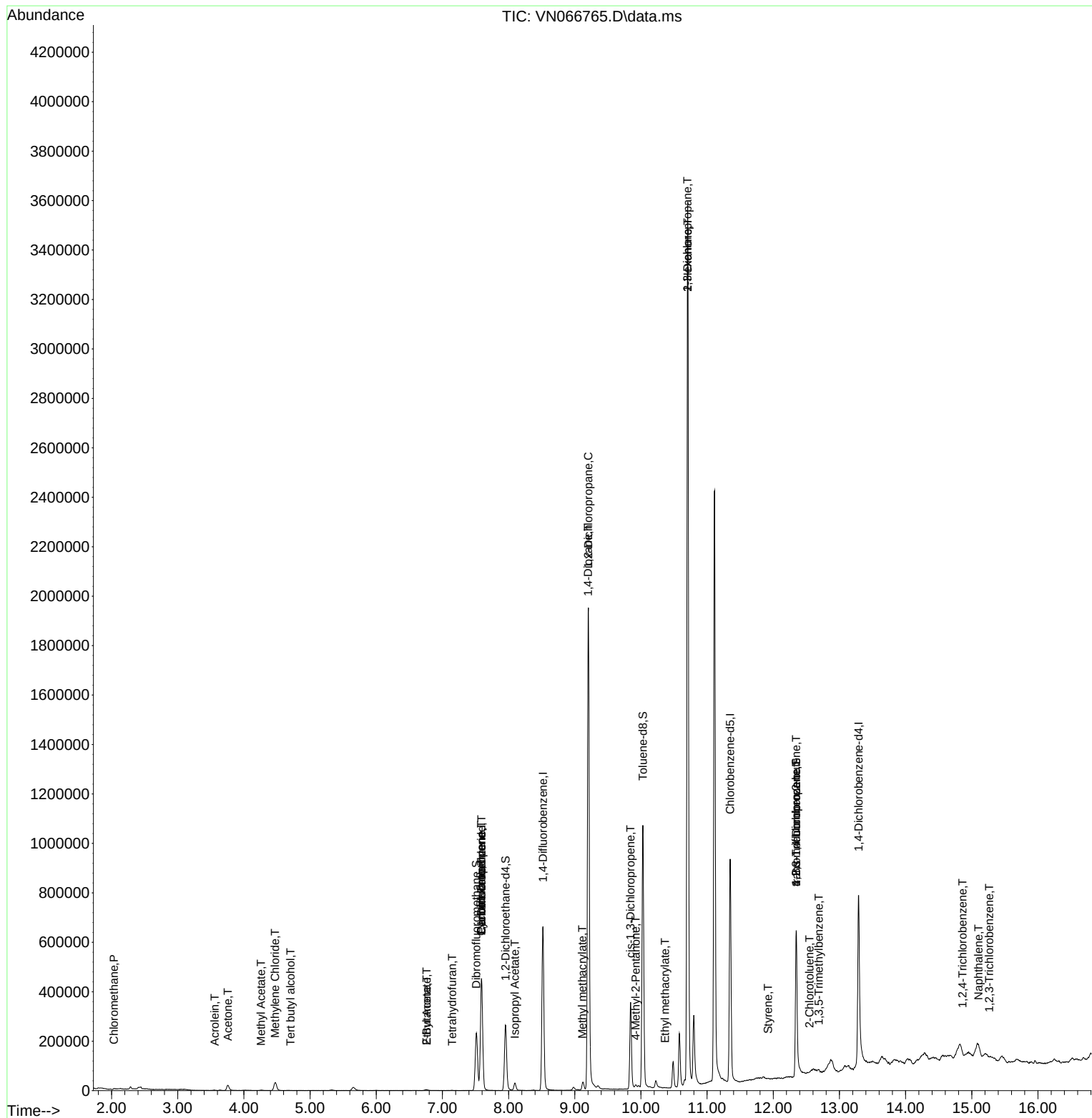
Internal Standards						
1) Pentafluorobenzene	7.591	168	394380	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.519	114	616186	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.348	117	557395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.290	152	245738	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.953	65	230106	47.76	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.52%		
35) Dibromofluoromethane	7.513	113	188067	48.74	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	97.48%		
50) Toluene-d8	10.029	98	755878	50.23	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.46%		
62) 4-Bromofluorobenzene	12.346	95	258286	50.12	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	100.24%		
Target Compounds						Qvalue
3) Chloromethane	2.034	50	1626	0.26	ug/l	99
11) Tert butyl alcohol	4.705	59	181	0.30	ug/l #	73
13) Acrolein	3.560	56	1025	1.52	ug/l #	66
16) Acetone	3.758	43	37323	20.69	ug/l	97
18) Methyl Acetate	4.260	43	2358	0.47	ug/l #	76
20) Methylene Chloride	4.472	84	25293	4.72	ug/l	99
25) 2-Butanone	6.762	43	5859	2.26	ug/l #	84
29) Tetrahydrofuran	7.146	42	902	0.51	ug/l #	38
31) Cyclohexane	7.588	56	7631	0.97	ug/l #	1
36) 1,1-Dichloropropene	7.588	75	28116	4.91	ug/l #	48
37) Ethyl Acetate	6.762	43	5859	0.97	ug/l #	68
38) Carbon Tetrachloride	7.591	117	34665	6.36	ug/l #	16
43) Isopropyl Acetate	8.093	43	38595	4.02	ug/l #	88
45) 1,2-Dichloropropane	9.203	63	2592	0.52	ug/l #	44
48) Methyl methacrylate	9.114	41	8022	1.90	ug/l #	11
49) 1,4-Dioxane	9.200	88	199	3.91	ug/l #	1
51) 4-Methyl-2-Pentanone	9.922	43	10679	1.99	ug/l	95
54) cis-1,3-Dichloropropene	9.844	75	68248	9.22	ug/l #	59
56) Ethyl methacrylate	10.364	69	298	3.19	ug/l #	27
57) 1,3-Dichloropropane	10.705	76	38388	5.32	ug/l #	44
59) 2-Hexanone	10.707	43	528684	138.96	ug/l #	49
70) Styrene	11.920	104	107	2.99	ug/l #	1
76) 1,2,3-Trichloropropane	12.346	75	124971	23.77	ug/l #	100
79) 2-Chlorotoluene	12.547	91	197	0.95	ug/l	83
80) 1,3,5-Trimethylbenzene	12.687	105	6342	0.43	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.346	75	124971	70.27	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.859	180	295	2.06	ug/l #	1
95) Naphthalene	15.101	128	2834	2.09	ug/l	97
96) 1,2,3-Trichlorobenzene	15.264	180	385	1.44	ug/l #	85

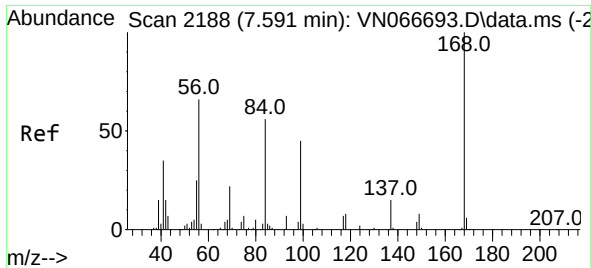
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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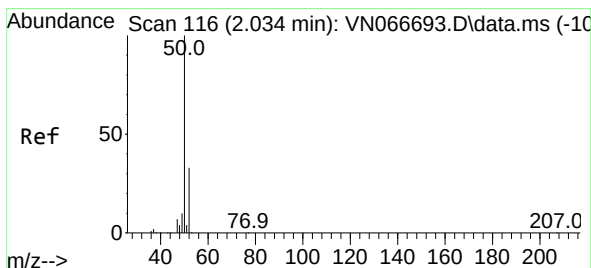
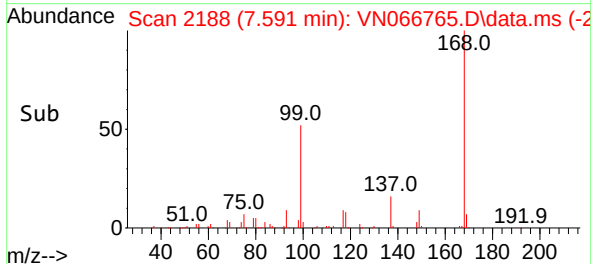
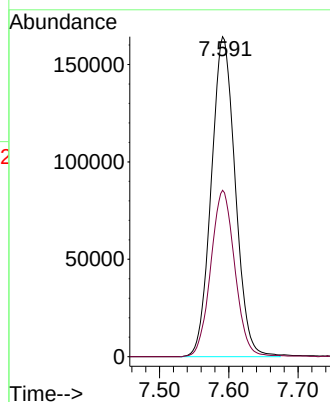
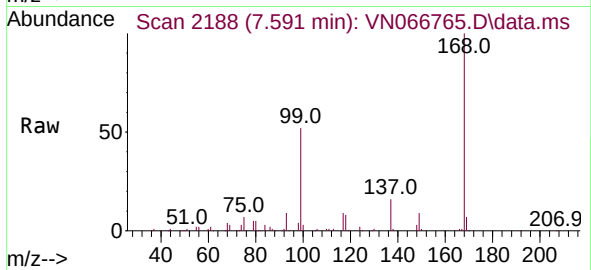




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.591 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

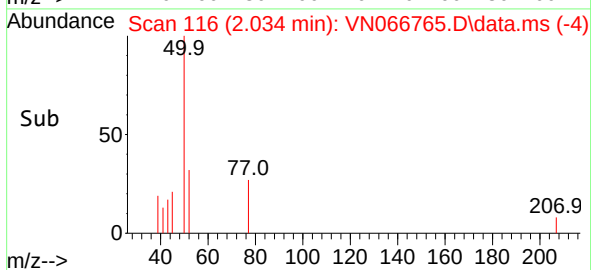
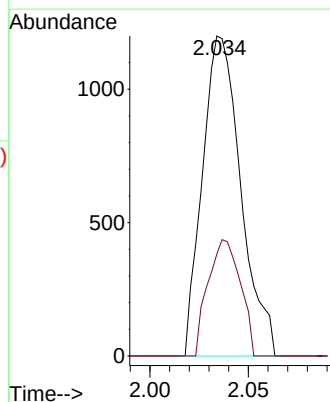
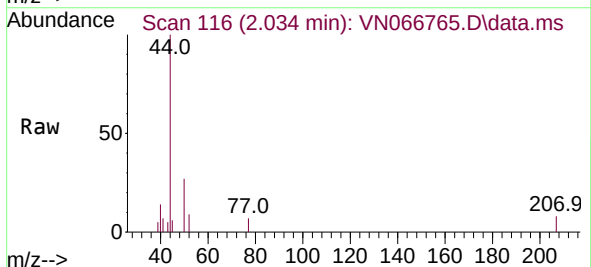
Instrument :
MSVOA_N
ClientSampleId :

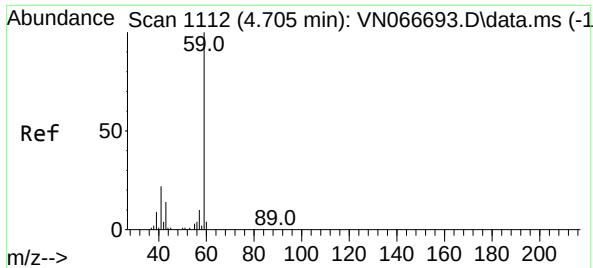
Tgt Ion:168 Resp: 394380
Ion Ratio Lower Upper
168 100
99 52.0 42.6 63.8



#3
Chloromethane
Concen: 0.26 ug/l
RT: 2.034 min Scan# 116
Delta R.T. -0.000 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 50 Resp: 1626
Ion Ratio Lower Upper
50 100
52 31.8 25.8 38.8

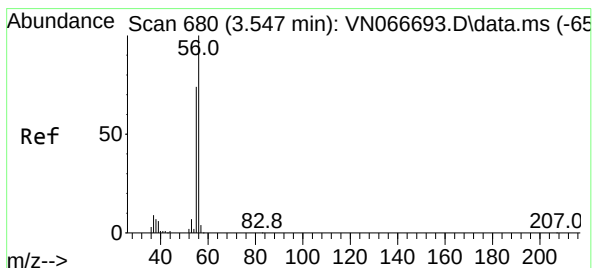
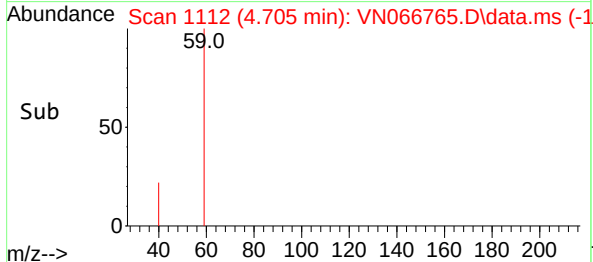
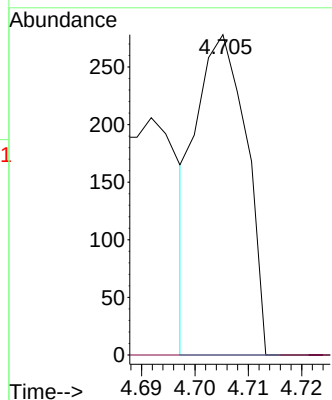
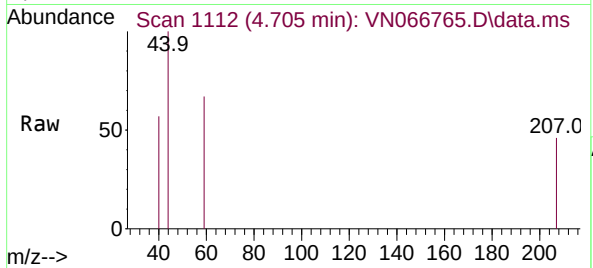




#11
Tert butyl alcohol
Concen: 0.30 ug/l
RT: 4.705 min Scan# 1112
Delta R.T. 0.000 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

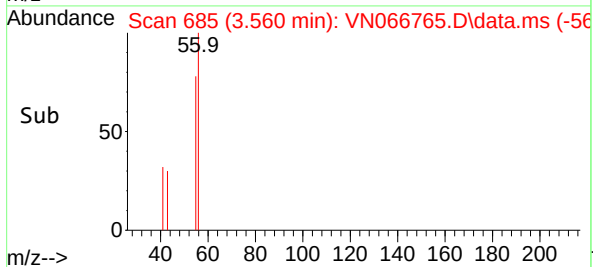
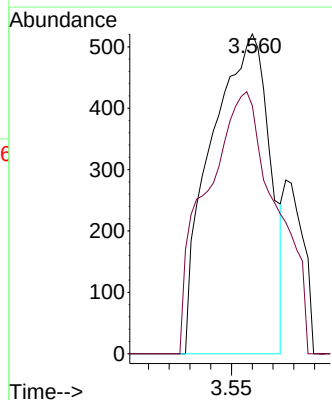
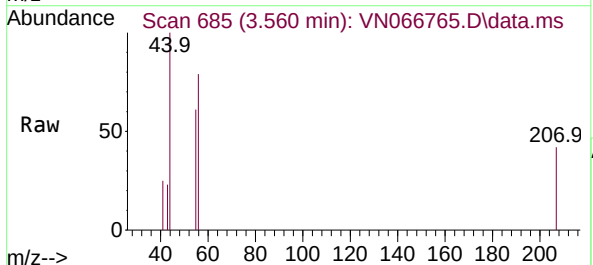
Instrument :
MSVOA_N
ClientSampled :

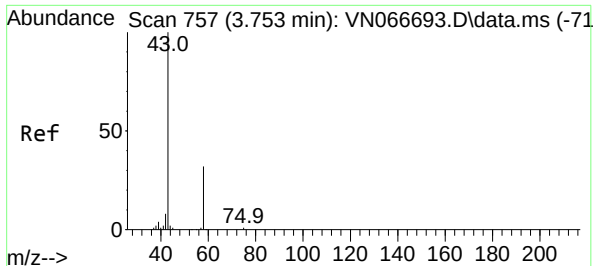
Tgt Ion: 59 Resp: 181
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#13
Acrolein
Concen: 1.52 ug/l
RT: 3.560 min Scan# 685
Delta R.T. 0.013 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 56 Resp: 1025
Ion Ratio Lower Upper
56 100
55 97.7 56.0 84.0#

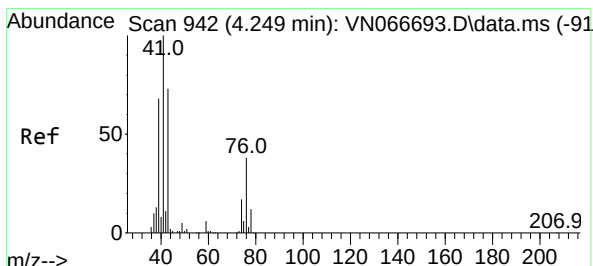
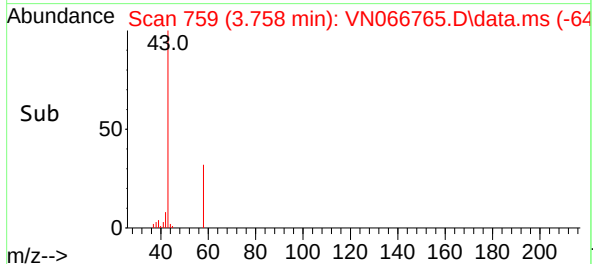
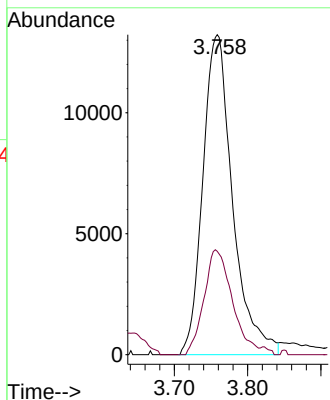
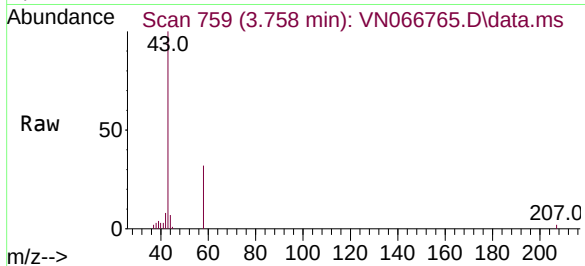




#16
Acetone
Concen: 20.69 ug/l
RT: 3.758 min Scan# 759
Delta R.T. 0.005 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

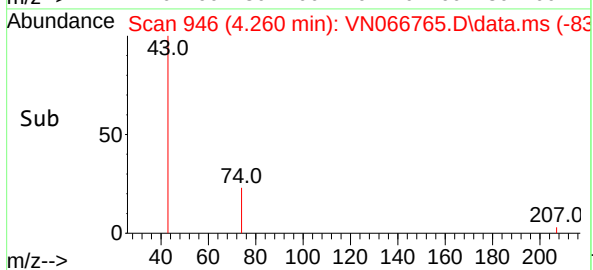
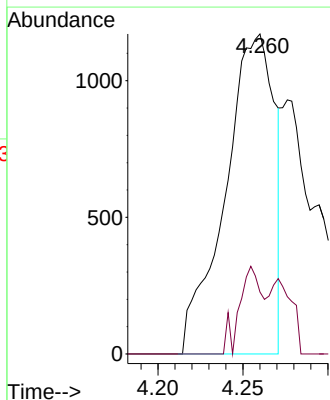
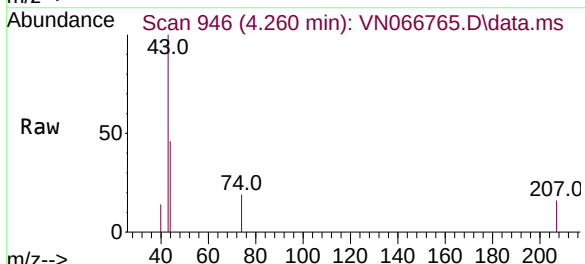
Instrument :
MSVOA_N
ClientSampled :

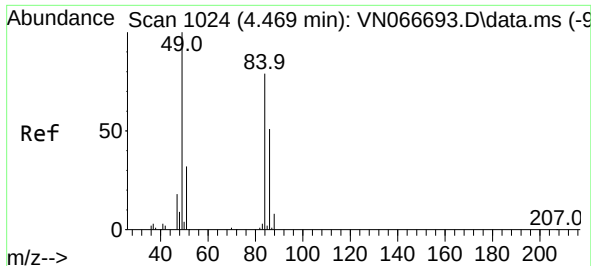
Tgt Ion: 43 Resp: 37323
Ion Ratio Lower Upper
43 100
58 32.3 27.0 40.6



#18
Methyl Acetate
Concen: 0.47 ug/l
RT: 4.260 min Scan# 946
Delta R.T. 0.011 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 43 Resp: 2358
Ion Ratio Lower Upper
43 100
74 12.4 19.5 29.3#





#20

Methylene Chloride

Concen: 4.72 ug/l

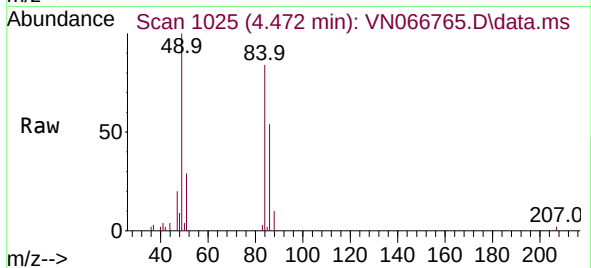
RT: 4.472 min Scan# 1025

Delta R.T. 0.003 min

Lab File: VN066765.D

Acq: 26 Apr 2021 16:40

Instrument :
MSVOA_N
ClientSampled :



Tgt Ion: 84 Resp: 25293

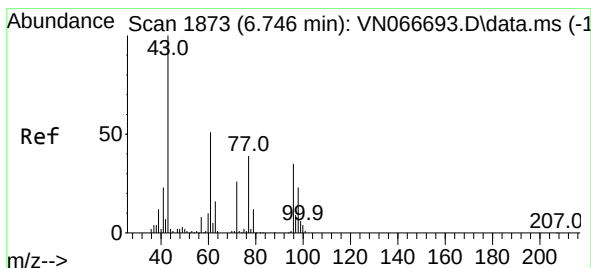
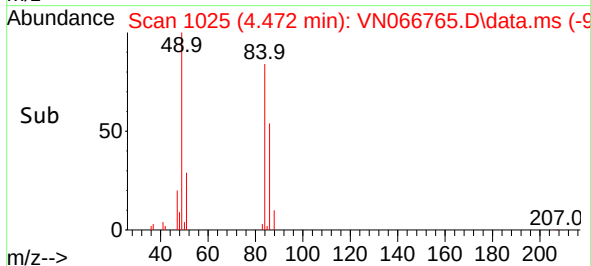
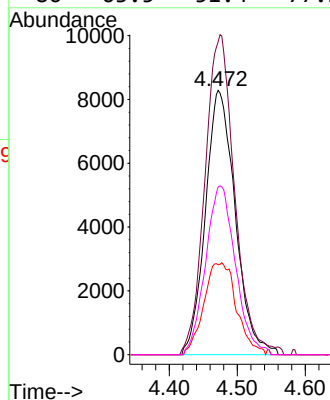
Ion Ratio Lower Upper

84 100

49 118.4 94.6 141.8

51 34.0 29.9 44.9

86 63.5 51.4 77.2



#25

2-Butanone

Concen: 2.26 ug/l

RT: 6.762 min Scan# 1879

Delta R.T. 0.016 min

Lab File: VN066765.D

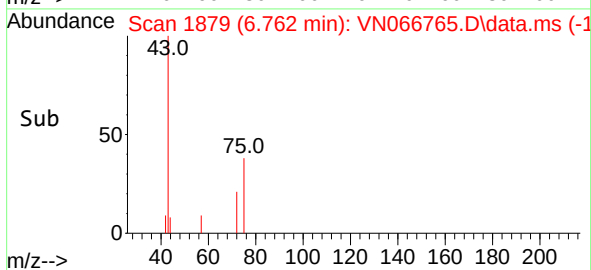
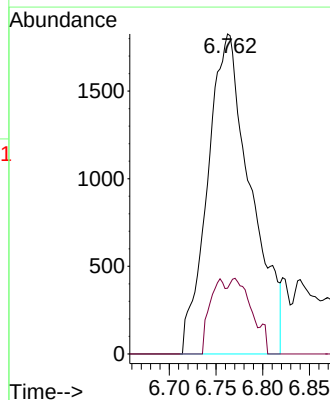
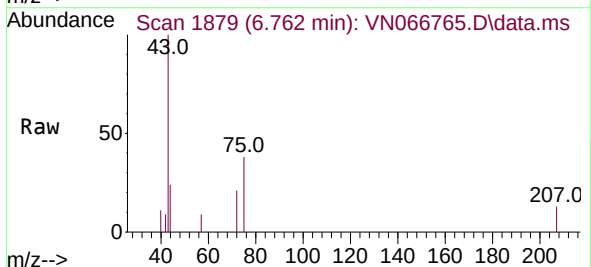
Acq: 26 Apr 2021 16:40

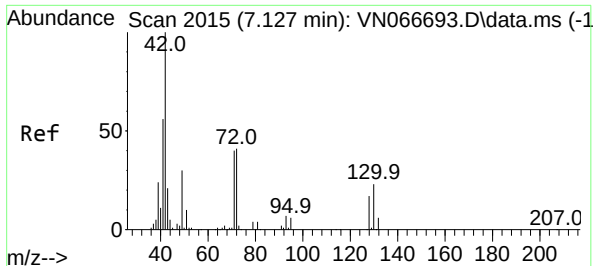
Tgt Ion: 43 Resp: 5859

Ion Ratio Lower Upper

43 100

72 20.5 23.1 34.7#





#29

Tetrahydrofuran

Concen: 0.51 ug/l

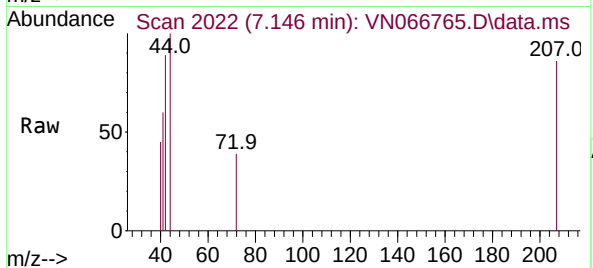
RT: 7.146 min Scan# 2022

Delta R.T. 0.019 min

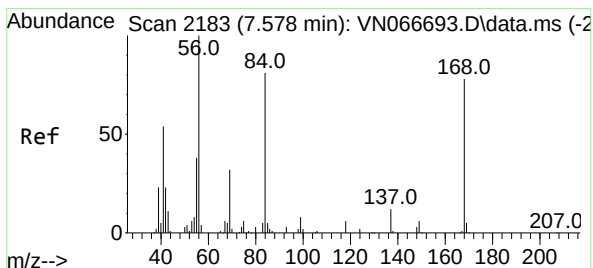
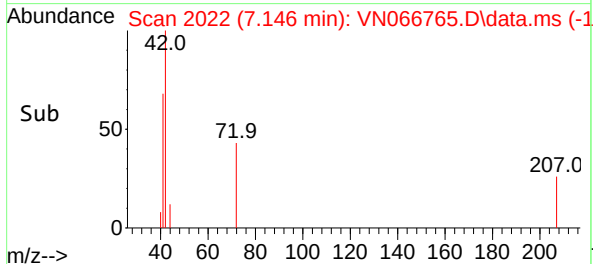
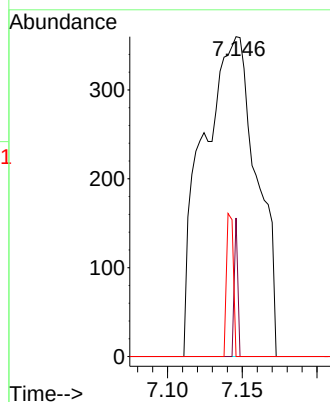
Lab File: VN066765.D

Acq: 26 Apr 2021 16:40

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	42	Resp:	902
Ion Ratio	Lower	Upper	
42	100		
72	2.8	36.6	55.0#
71	5.7	34.3	51.5#



#31

Cyclohexane

Concen: 0.97 ug/l

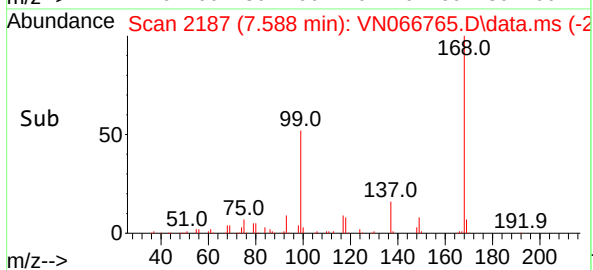
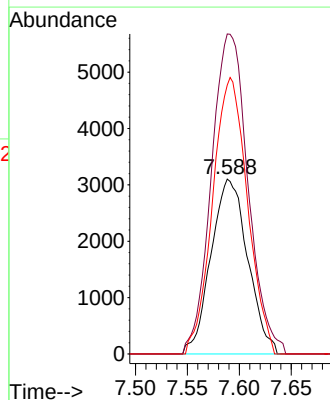
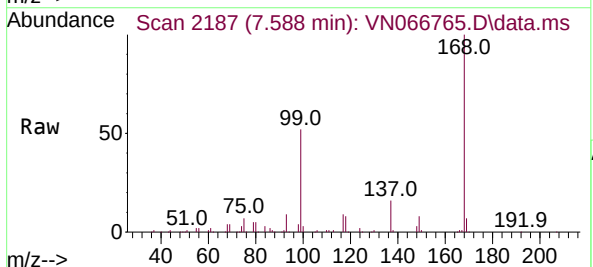
RT: 7.588 min Scan# 2187

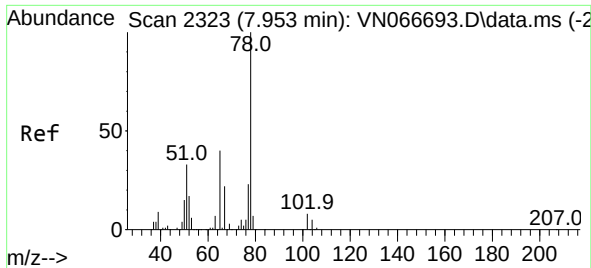
Delta R.T. 0.010 min

Lab File: VN066765.D

Acq: 26 Apr 2021 16:40

Tgt Ion:	56	Resp:	7631
Ion Ratio	Lower	Upper	
56	100		
69	183.0	26.6	39.8#
84	153.8	70.4	105.6#

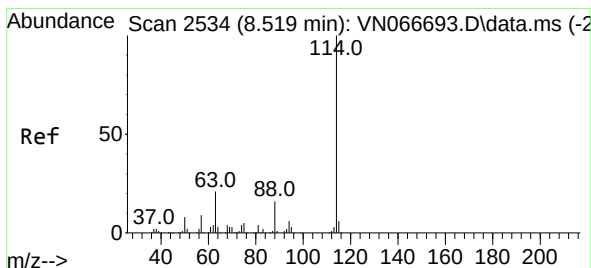
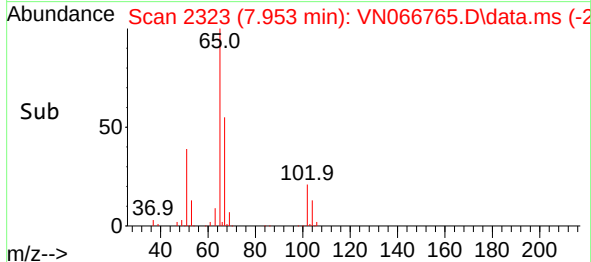
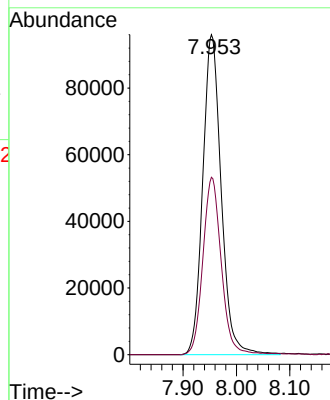
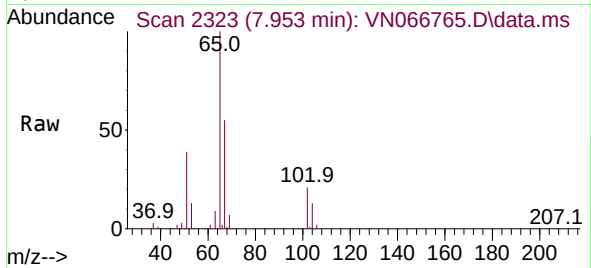




#33
 1,2-Dichloroethane-d4
 Concen: 47.76 ug/l
 RT: 7.953 min Scan# 2323
 Delta R.T. 0.000 min
 Lab File: VN066765.D
 Acq: 26 Apr 2021 16:40

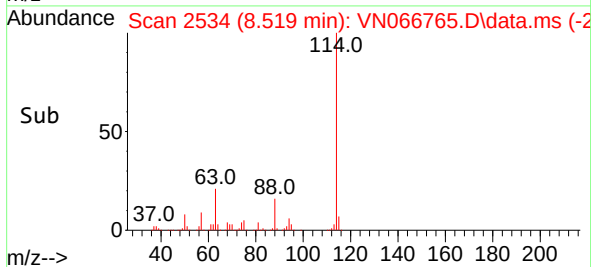
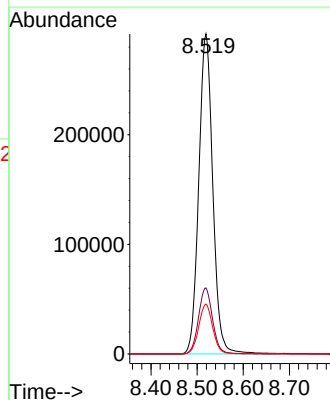
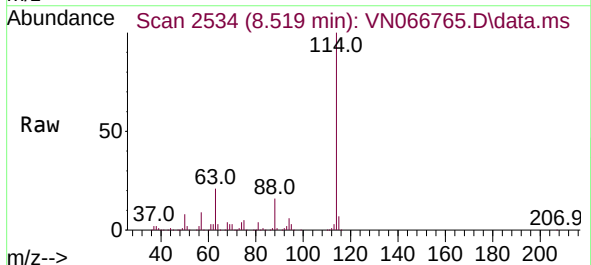
Instrument :
 MSVOA_N
 ClientSampleId :

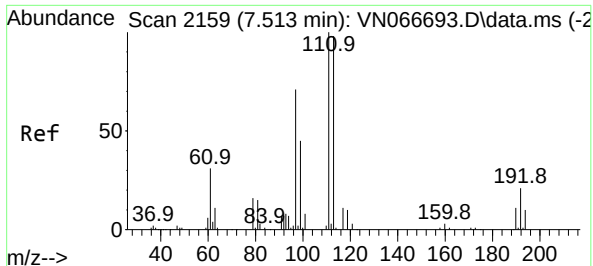
Tgt Ion: 65 Resp: 230106
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.519 min Scan# 2534
 Delta R.T. -0.000 min
 Lab File: VN066765.D
 Acq: 26 Apr 2021 16:40

Tgt Ion: 114 Resp: 616186
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 38.6
 88 15.6 0.0 30.6

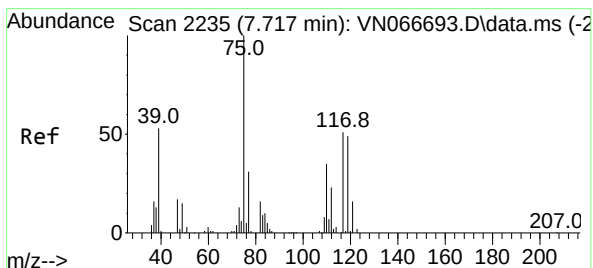
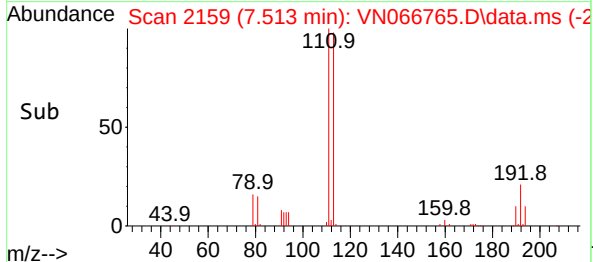
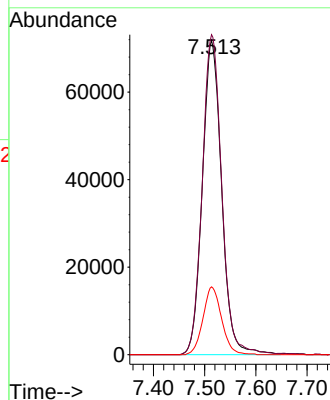
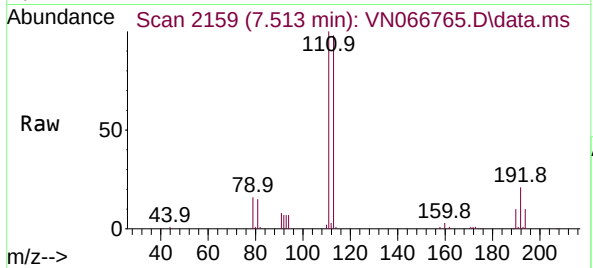




#35
Dibromofluoromethane
Concen: 48.74 ug/l
RT: 7.513 min Scan# 2159
Delta R.T. 0.000 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

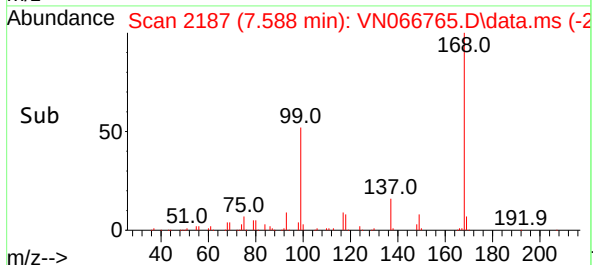
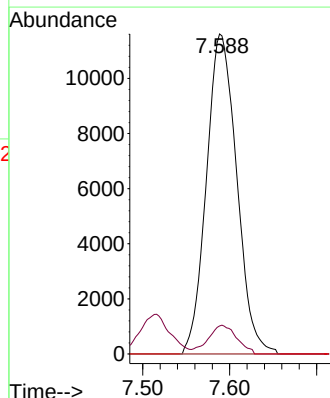
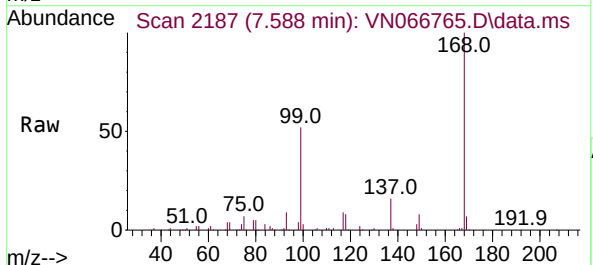
Instrument :
MSVOA_N
ClientSampleId :

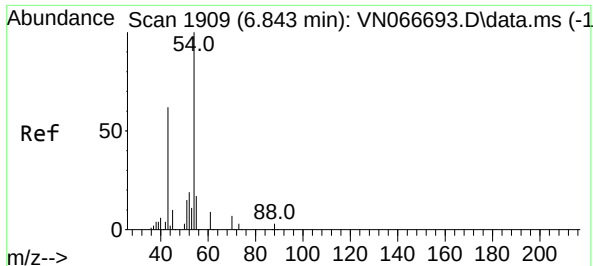
Tgt Ion:113 Resp: 188067
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.2
192 20.9 15.4 23.0



#36
1,1-Dichloropropene
Concen: 4.91 ug/l
RT: 7.588 min Scan# 2187
Delta R.T. -0.129 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 75 Resp: 28116
Ion Ratio Lower Upper
75 100
110 8.5 18.2 54.6#
77 0.0 24.9 37.3#

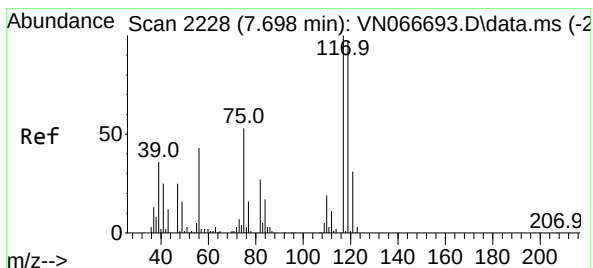
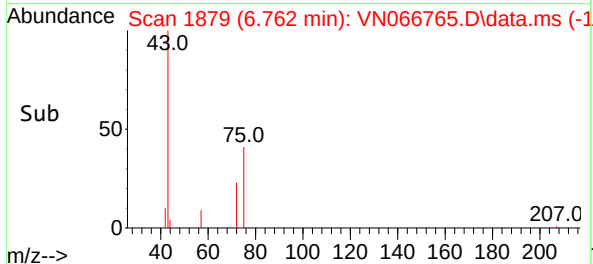
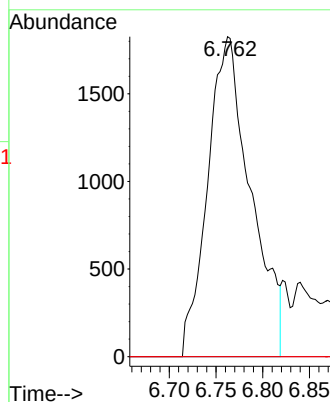
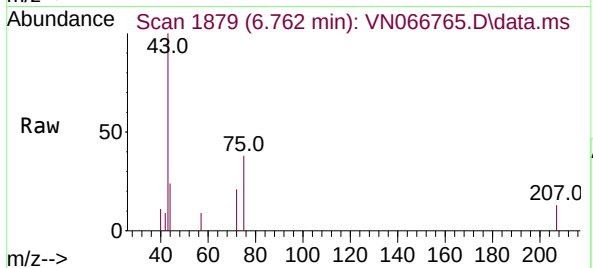




#37
Ethyl Acetate
Concen: 0.97 ug/l
RT: 6.762 min Scan# 1879
Delta R.T. -0.081 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

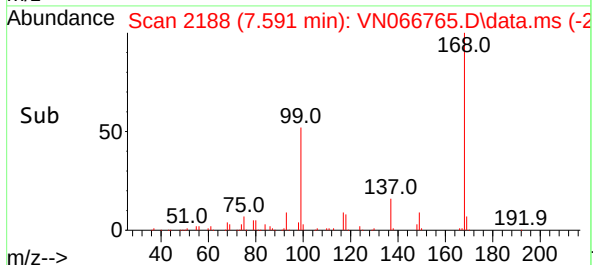
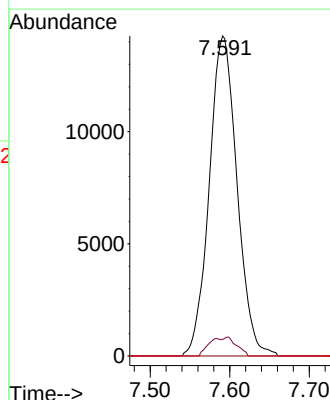
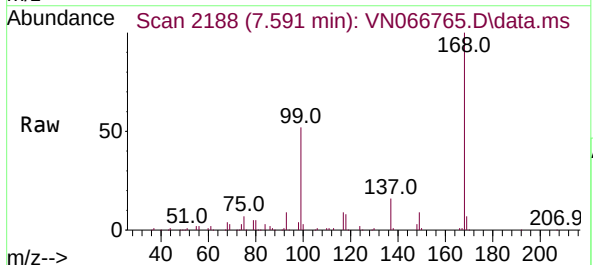
Instrument :
MSVOA_N
ClientSampleId :

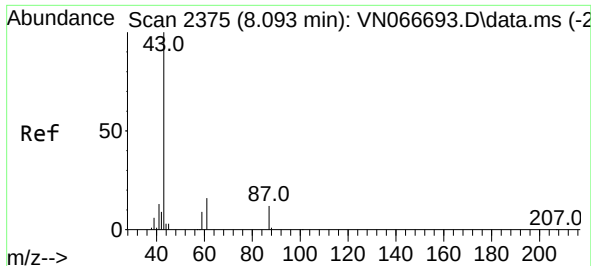
Tgt Ion: 43 Resp: 5859
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 8.6 13.0#



#38
Carbon Tetrachloride
Concen: 6.36 ug/l
RT: 7.591 min Scan# 2188
Delta R.T. -0.107 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 117 Resp: 34665
Ion Ratio Lower Upper
117 100
119 5.2 76.0 114.0#
121 0.0 24.5 36.7#

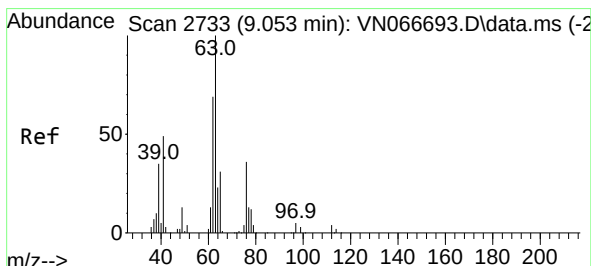
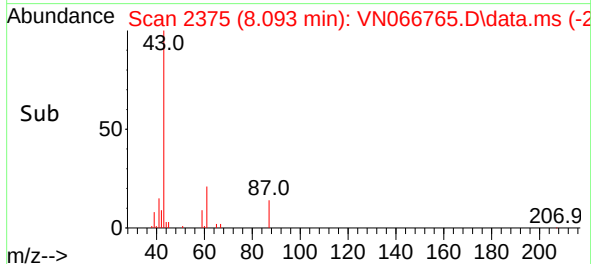
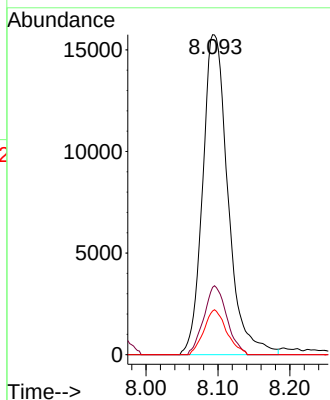
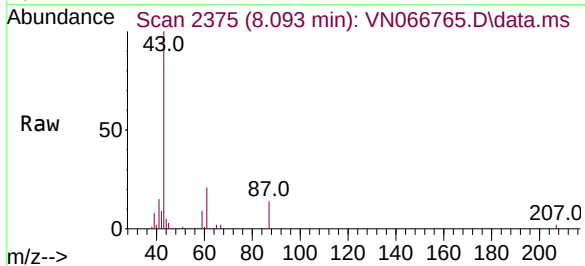




#43
Isopropyl Acetate
Concen: 4.02 ug/l
RT: 8.093 min Scan# 2375
Delta R.T. -0.000 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

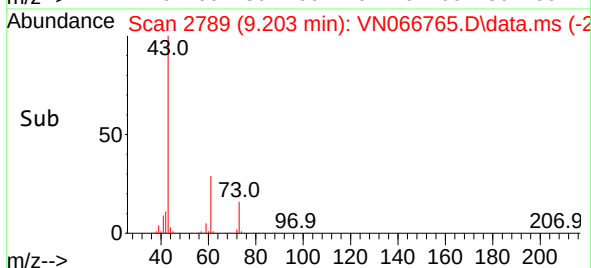
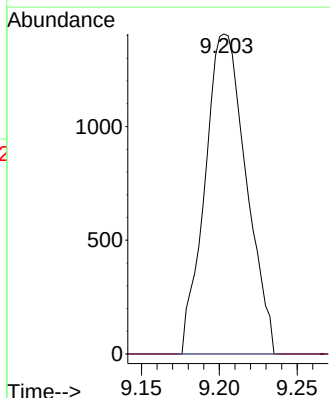
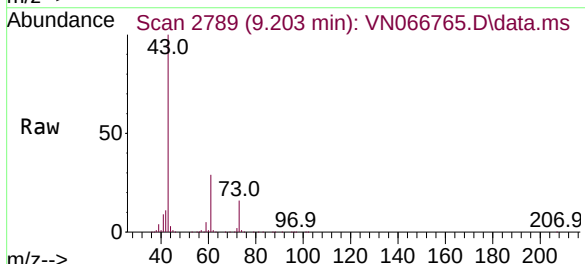
Instrument :
MSVOA_N
ClientSampled :

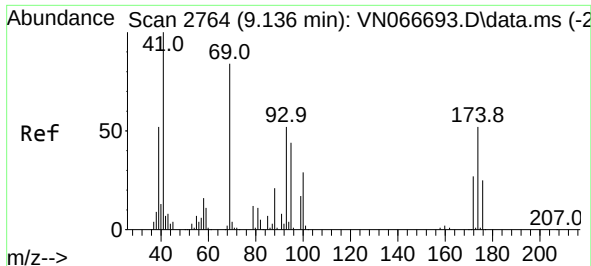
Tgt Ion	Ratio	Lower	Upper
43	100		
61	19.6	22.5	33.7#
87	12.6	11.1	16.7



#45
1,2-Dichloropropane
Concen: 0.52 ug/l
RT: 9.203 min Scan# 2789
Delta R.T. 0.150 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

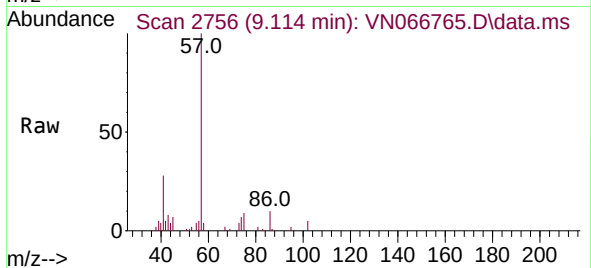
Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.9	37.3#



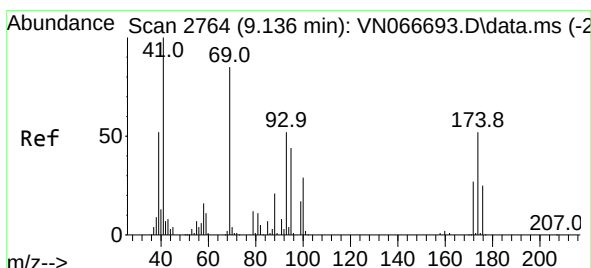
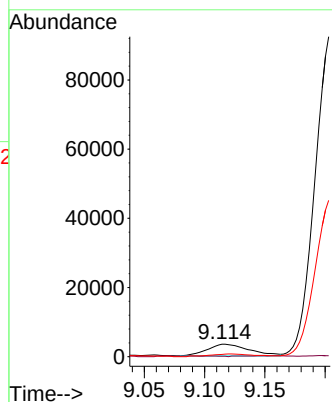
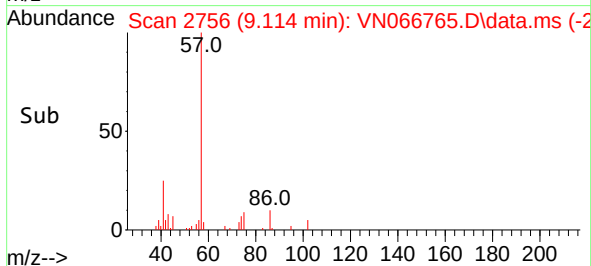


#48
Methyl methacrylate
Concen: 1.90 ug/l
RT: 9.114 min Scan# 2756
Delta R.T. -0.022 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

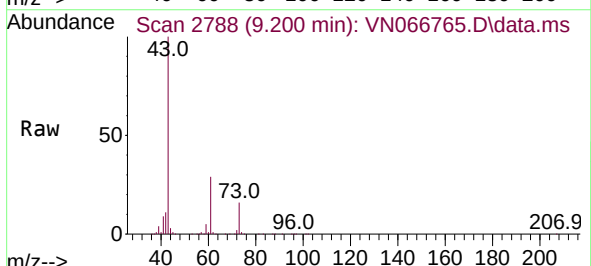
Instrument :
MSVOA_N
ClientSampled :



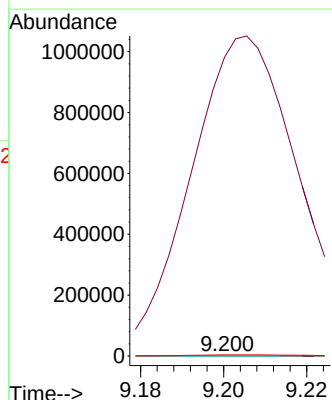
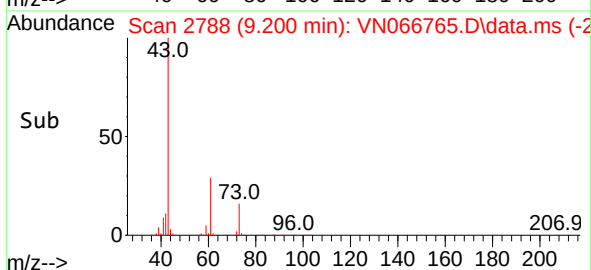
Tgt Ion: 41 Resp: 8022
Ion Ratio Lower Upper
41 100
69 2.5 75.9 113.9#
39 0.0 46.6 69.8#

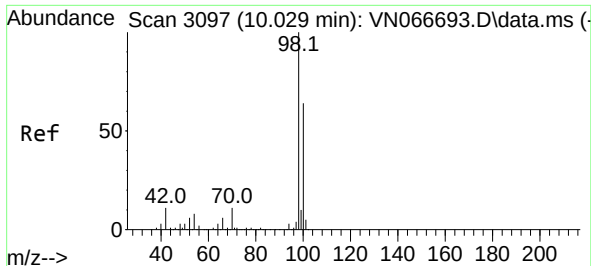


#49
1,4-Dioxane
Concen: 3.91 ug/l
RT: 9.200 min Scan# 2788
Delta R.T. 0.064 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40



Tgt Ion: 88 Resp: 199
Ion Ratio Lower Upper
88 100
43 1017549.7 24.7 37.1#
58 3815.1 52.6 78.8#

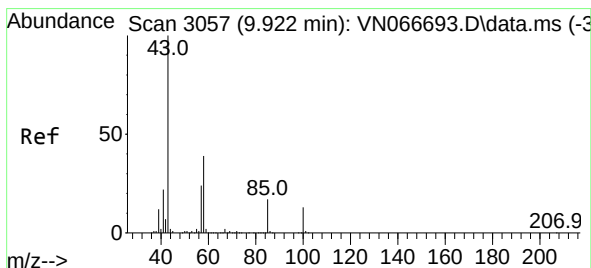
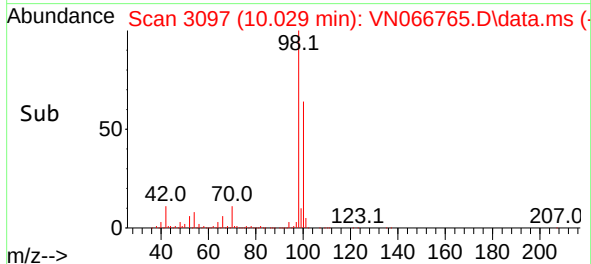
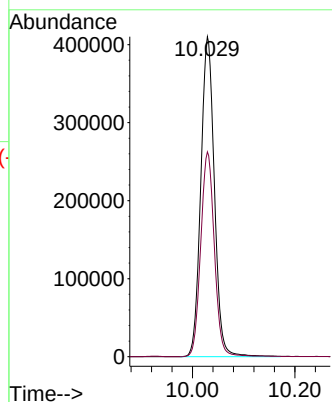
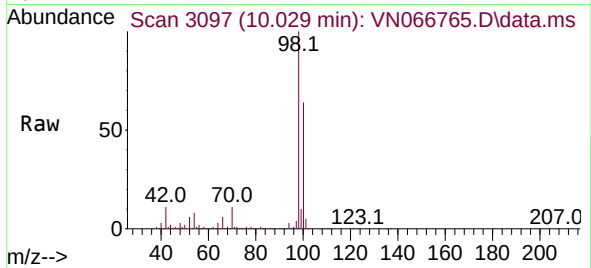




#50
Toluene-d8
Concen: 50.23 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

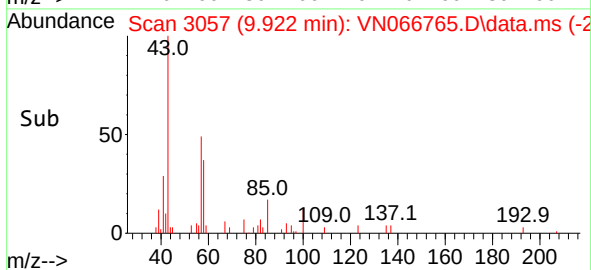
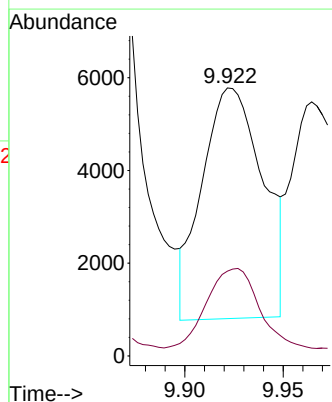
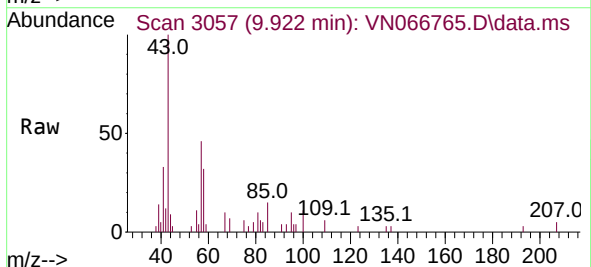
Instrument :
MSVOA_N
ClientSampled :

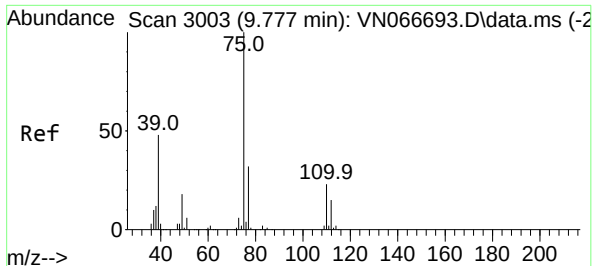
Tgt Ion: 98 Resp: 755878
Ion Ratio Lower Upper
98 100
100 64.1 50.5 75.7



#51
4-Methyl-2-Pentanone
Concen: 1.99 ug/l
RT: 9.922 min Scan# 3057
Delta R.T. -0.000 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 43 Resp: 10679
Ion Ratio Lower Upper
43 100
58 37.6 32.5 48.7

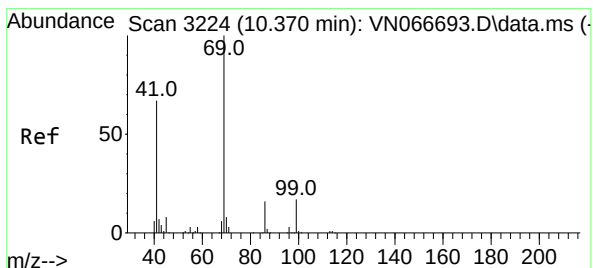
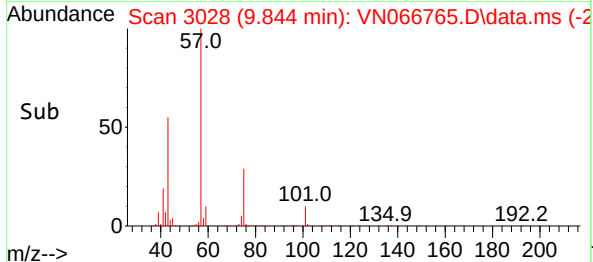
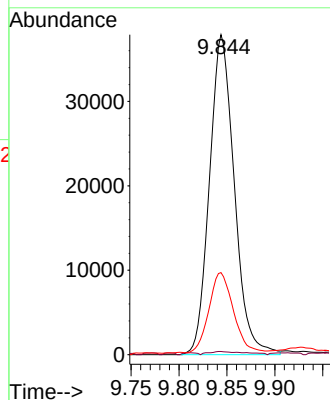
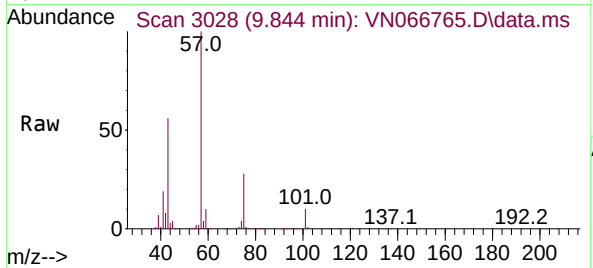




#54
cis-1,3-Dichloropropene
Concen: 9.22 ug/l
RT: 9.844 min Scan# 3028
Delta R.T. 0.067 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

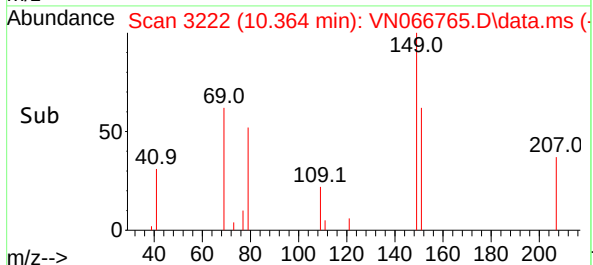
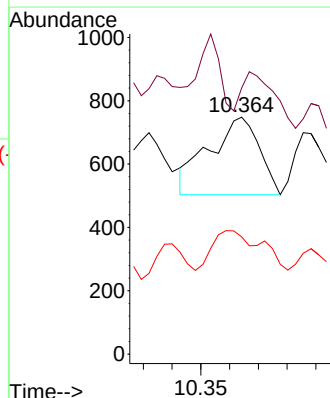
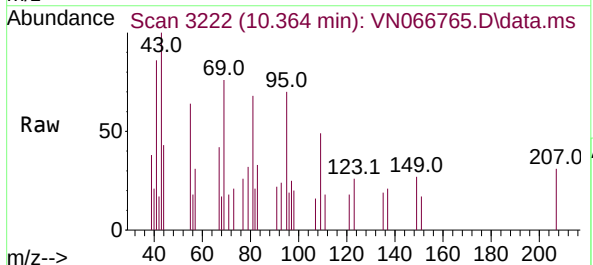
Instrument :
MSVOA_N
ClientSampled :

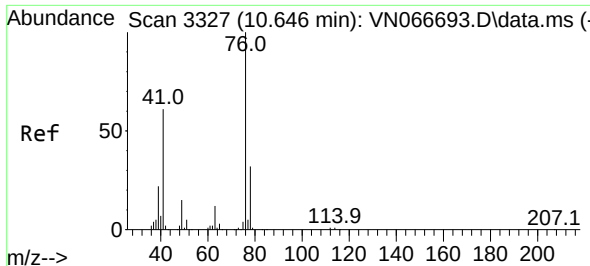
Tgt Ion: 75 Resp: 68248
Ion Ratio Lower Upper
75 100
77 1.0 24.9 37.3#
39 24.9 36.2 54.4#



#56
Ethyl methacrylate
Concen: 3.19 ug/l
RT: 10.364 min Scan# 3222
Delta R.T. -0.006 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 69 Resp: 298
Ion Ratio Lower Upper
69 100
41 0.0 49.6 74.4#
39 0.0 28.0 42.0#

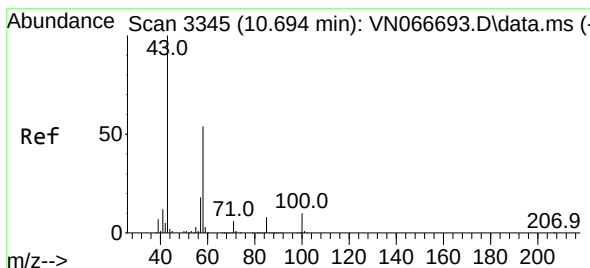
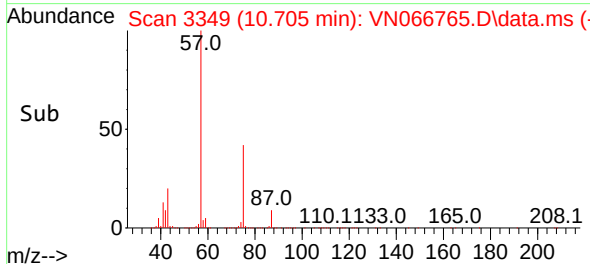
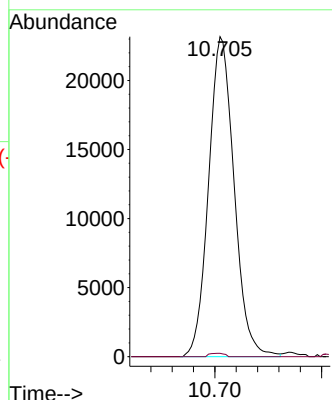
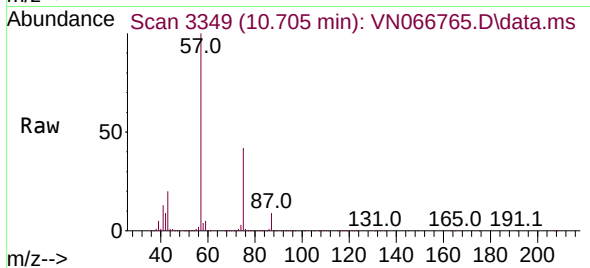




#57
1,3-Dichloropropane
Concen: 5.32 ug/l
RT: 10.705 min Scan# 3349
Delta R.T. 0.059 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

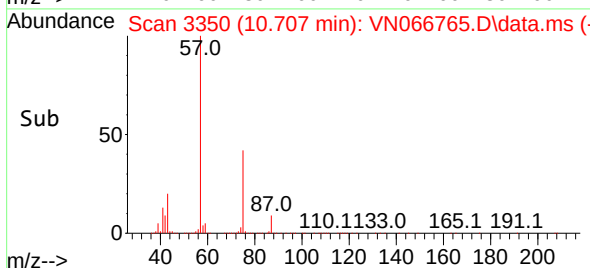
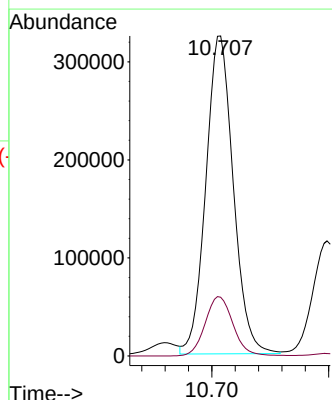
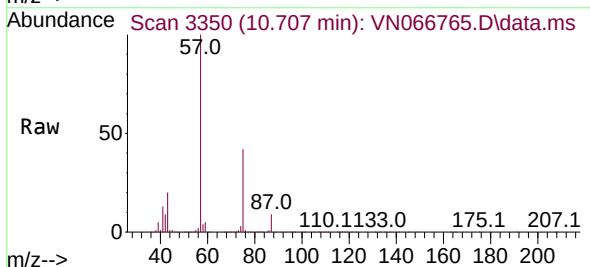
Instrument :
MSVOA_N
ClientSampled :

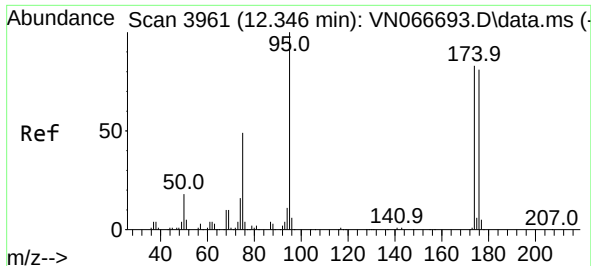
Tgt Ion: 76 Resp: 38388
Ion Ratio Lower Upper
76 100
78 0.6 25.7 38.5#



#59
2-Hexanone
Concen: 138.96 ug/l
RT: 10.707 min Scan# 3350
Delta R.T. 0.013 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 43 Resp: 528684
Ion Ratio Lower Upper
43 100
58 19.1 28.1 84.3#

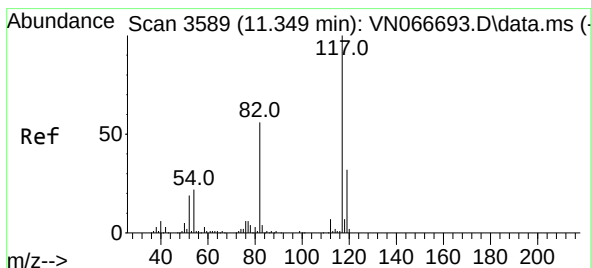
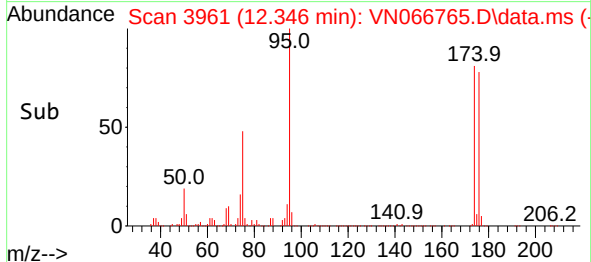
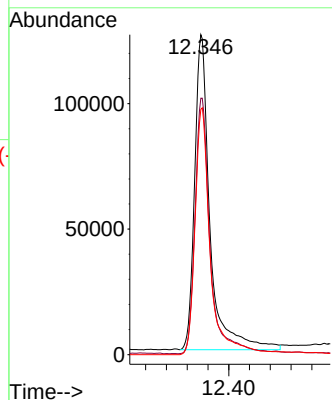
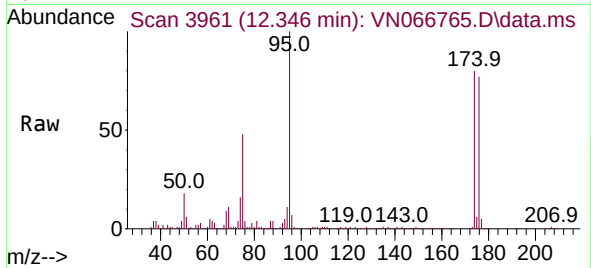




#62
4-Bromofluorobenzene
Concen: 50.12 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. 0.000 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

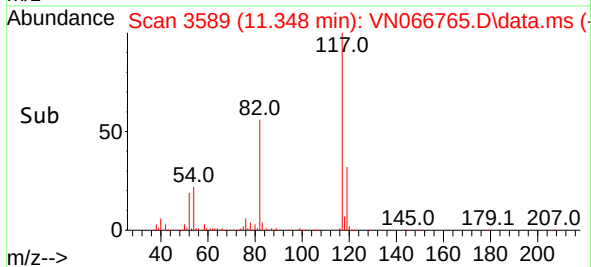
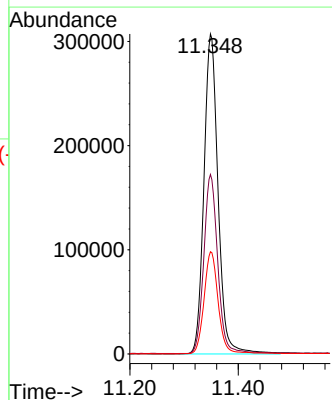
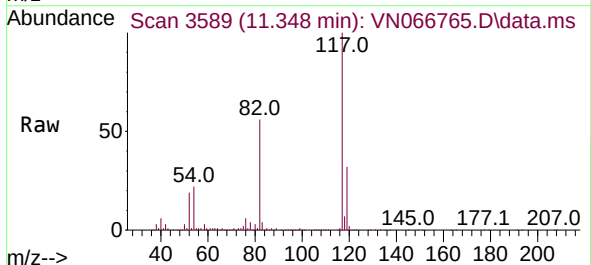
Instrument :
MSVOA_N
ClientSampleId :

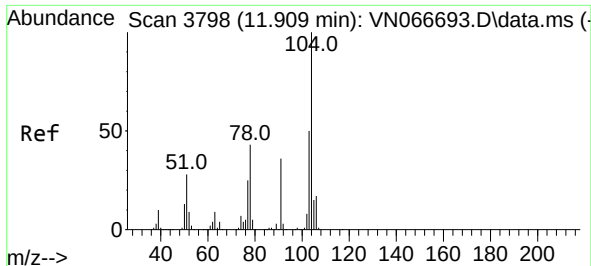
Tgt Ion: 95 Resp: 258286
Ion Ratio Lower Upper
95 100
174 79.0 0.0 169.0
176 78.3 0.0 162.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.348 min Scan# 3589
Delta R.T. -0.001 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 117 Resp: 557395
Ion Ratio Lower Upper
117 100
82 55.9 43.7 65.5
119 31.9 26.1 39.1

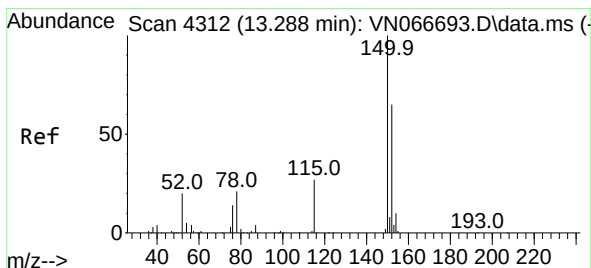
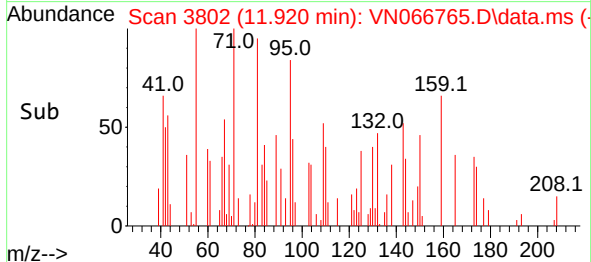
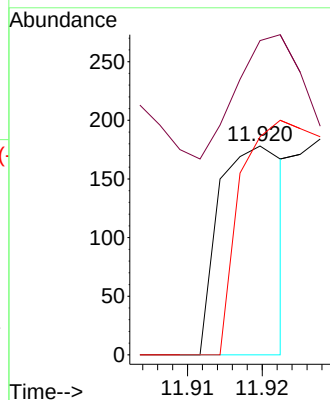
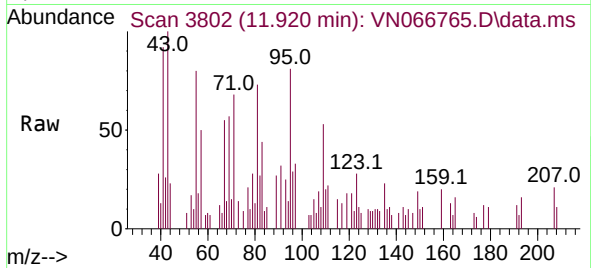




#70
Styrene
Concen: 2.99 ug/l
RT: 11.920 min Scan# 3802
Delta R.T. 0.011 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

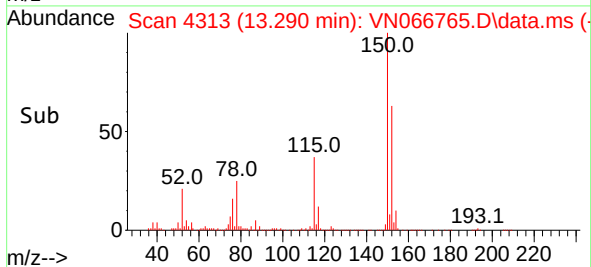
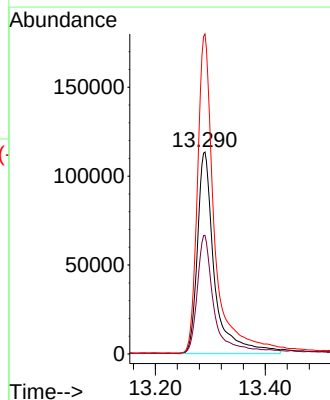
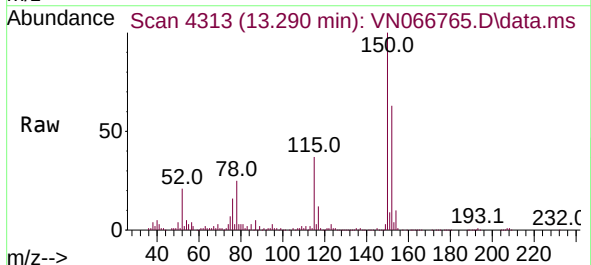
Instrument :
MSVOA_N
ClientSampleId :

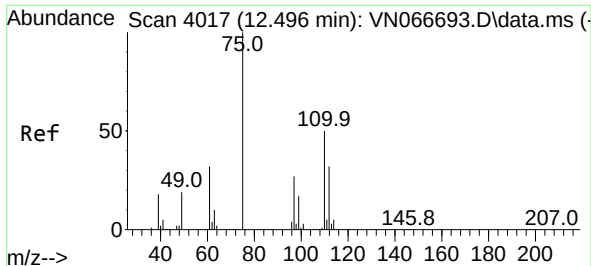
Tgt Ion:104 Resp: 107
Ion Ratio Lower Upper
104 100
78 61.7 39.0 58.4#
103 219.6 44.5 66.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.290 min Scan# 4313
Delta R.T. 0.002 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

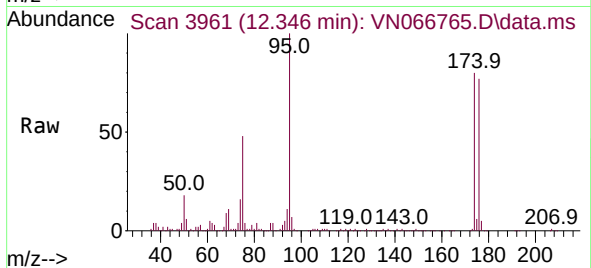
Tgt Ion:152 Resp: 245738
Ion Ratio Lower Upper
152 100
115 57.2 28.5 85.6
150 159.2 0.0 347.6



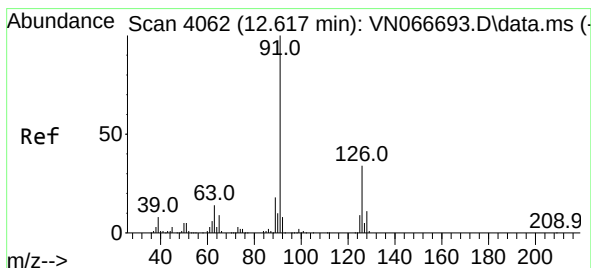
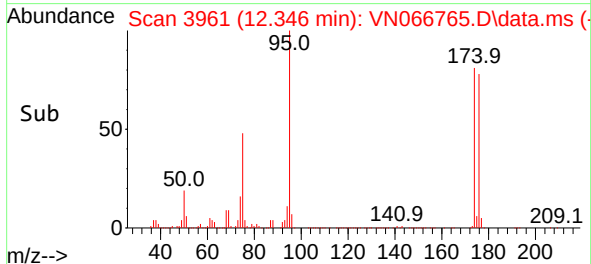
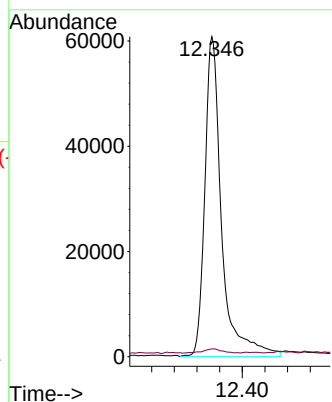


#76
1,2,3-Trichloropropane
Concen: 23.77 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. -0.150 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Instrument :
MSVOA_N
ClientSampleId :

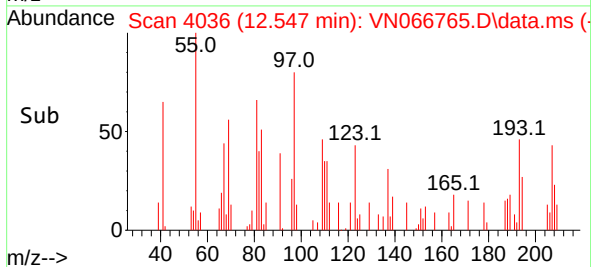
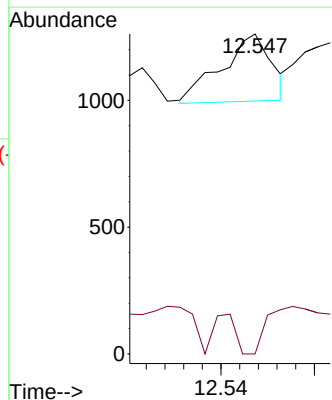
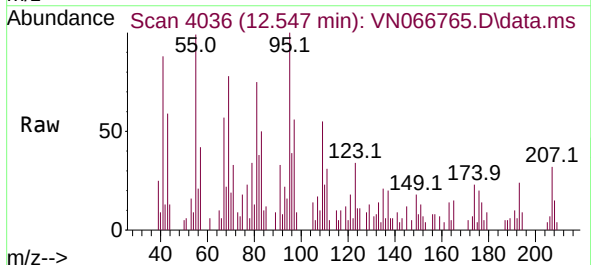


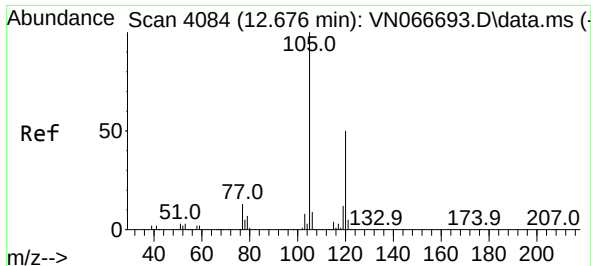
Tgt Ion: 75 Resp: 124971
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#79
2-Chlorotoluene
Concen: 0.95 ug/l
RT: 12.547 min Scan# 4036
Delta R.T. -0.070 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 91 Resp: 197
Ion Ratio Lower Upper
91 100
126 24.9 17.4 52.3

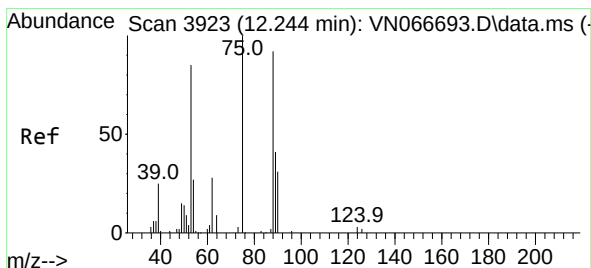
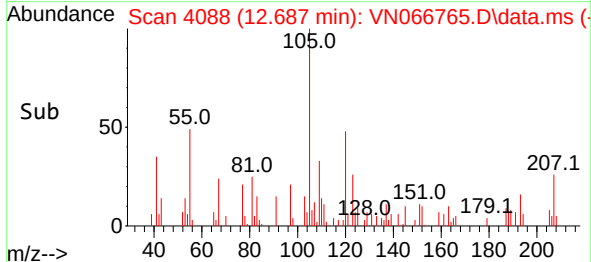
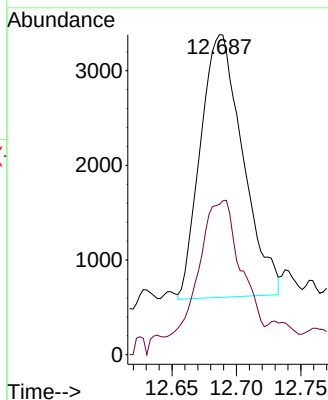
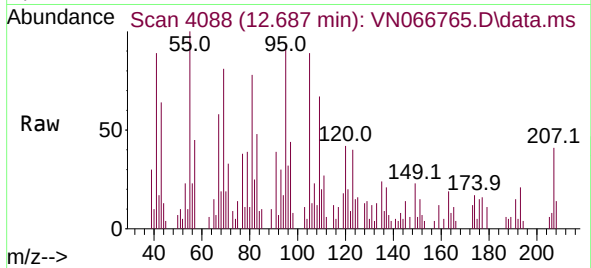




#80
1,3,5-Trimethylbenzene
Concen: 0.43 ug/l
RT: 12.687 min Scan# 4088
Delta R.T. 0.011 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

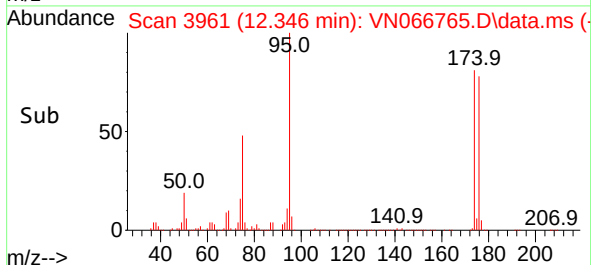
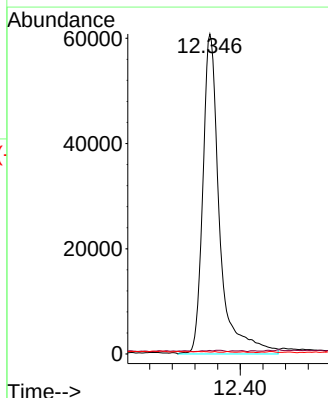
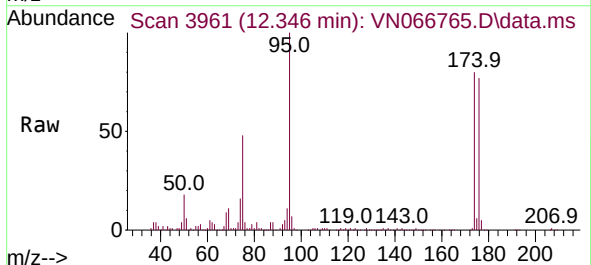
Instrument :
MSVOA_N
ClientSampled :

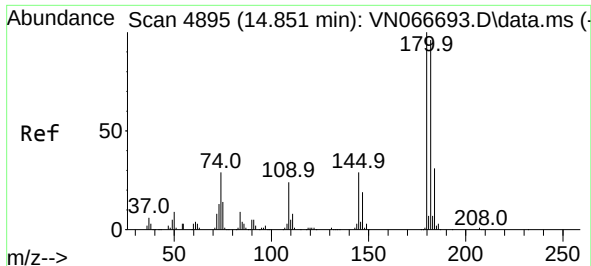
Tgt Ion:105 Resp: 6342
Ion Ratio Lower Upper
105 100
120 51.6 24.3 72.8



#81
trans-1,4-Dichloro-2-butene
Concen: 70.27 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. 0.102 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion: 75 Resp: 124971
Ion Ratio Lower Upper
75 100
53 0.1 74.6 111.8#
89 0.0 35.8 53.8#

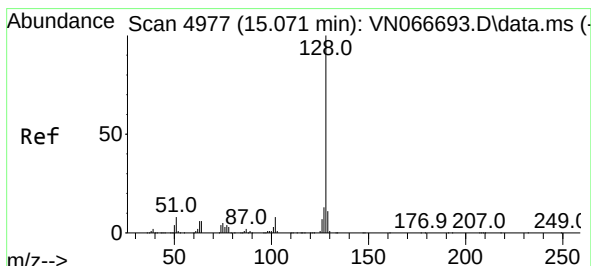
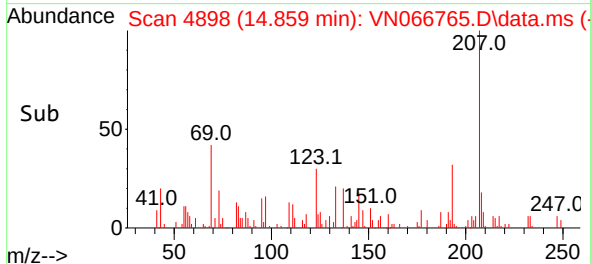
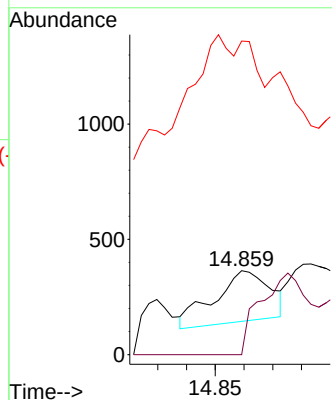
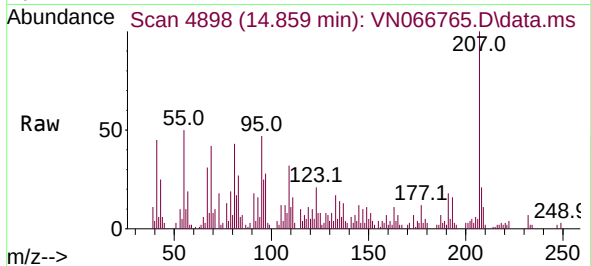




#93
1,2,4-Trichlorobenzene
Concen: 2.06 ug/l
RT: 14.859 min Scan# 4898
Delta R.T. 0.008 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

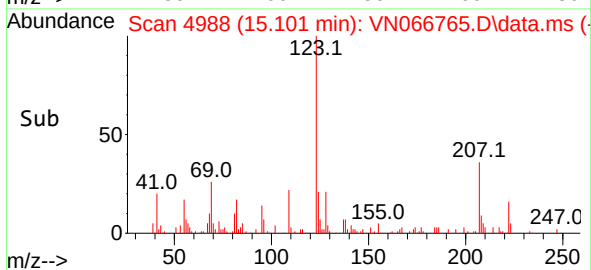
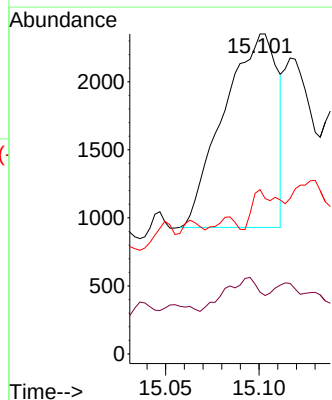
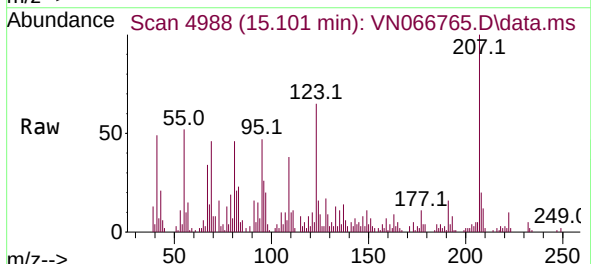
Instrument :
MSVOA_N
ClientSampled :

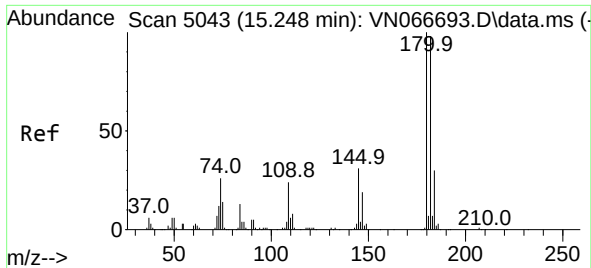
Tgt Ion:180 Resp: 295
Ion Ratio Lower Upper
180 100
182 0.0 47.3 142.0#
145 373.9 15.6 46.8#



#95
Naphthalene
Concen: 2.09 ug/l
RT: 15.101 min Scan# 4988
Delta R.T. 0.030 min
Lab File: VN066765.D
Acq: 26 Apr 2021 16:40

Tgt Ion:128 Resp: 2834
Ion Ratio Lower Upper
128 100
127 11.1 10.2 15.2
129 10.1 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 1.44 ug/l
 RT: 15.264 min Scan# 5049
 Delta R.T. 0.016 min
 Lab File: VN066765.D
 Acq: 26 Apr 2021 16:40

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion:180 Resp: 385
 Ion Ratio Lower Upper
 180 100
 182 95.3 47.4 142.3
 145 0.0 16.5 49.5#

