

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067735.D
 Acq On : 14 Jul 2021 11:17
 Operator : JC/MD
 Sample : VN0714WBL02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0714WBL02

Quant Time: Jul 14 17:15:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

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

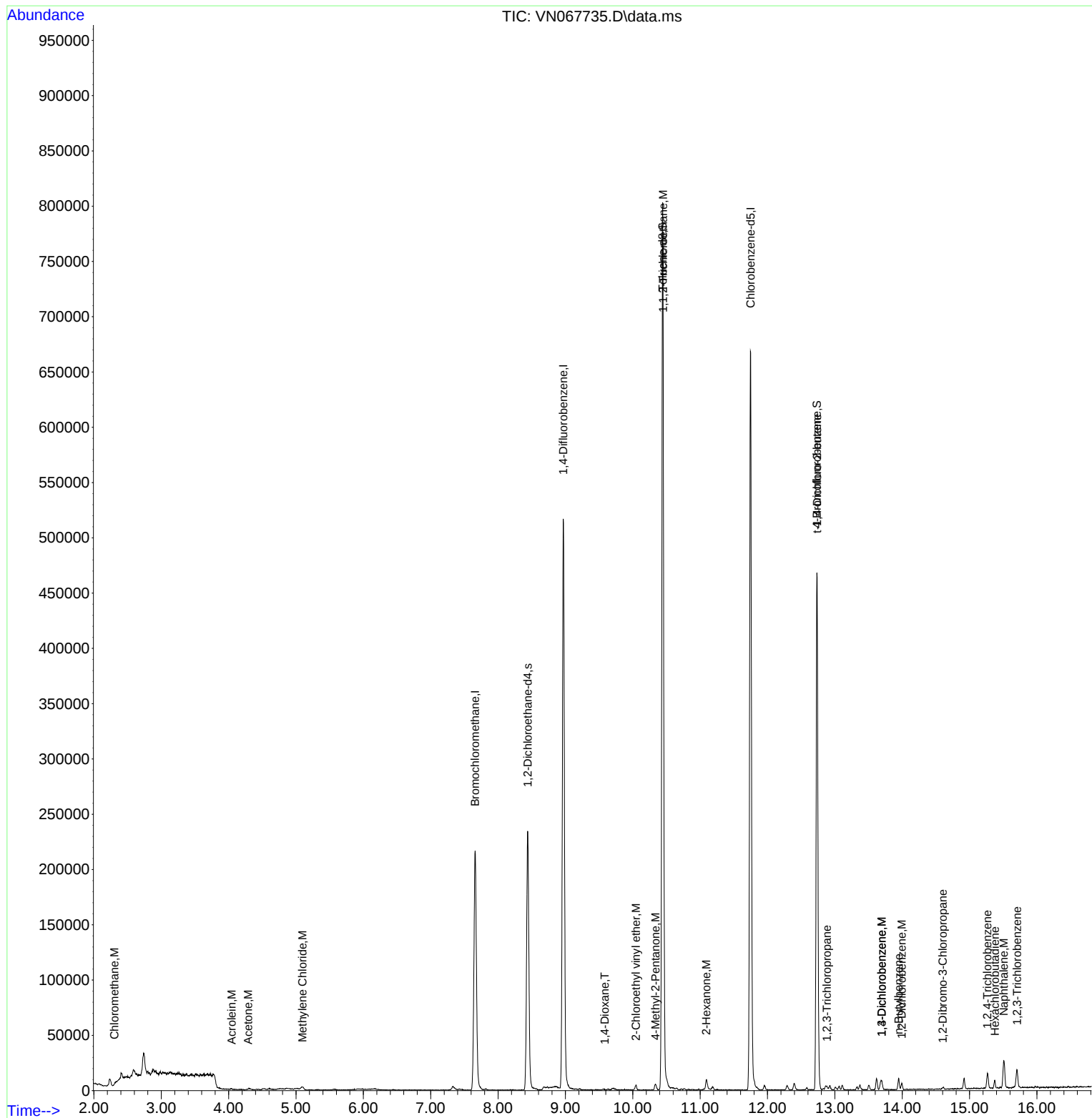
Internal Standards						
1) Bromochloromethane	7.659	128	76424	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	458934	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.749	117	394649	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	200519	32.477	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.267%
60) 4-Bromofluorobenzene	12.734	95	166049	25.908	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.367%
63) Toluene-d8	10.443	98	567964	31.290	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.300%
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	979	0.201	ug/l	96
13) Acrolein	4.044	56	531	1.002	ug/l #	50
15) Acetone	4.291	58	129	0.234	ug/l #	1
18) Methylene Chloride	5.095	84	1543	0.301	ug/l #	71
45) 1,4-Dioxane	9.582	88	53	0.572	ug/l #	5
50) 1,1,2-Trichloroethane	10.451	97	20947	3.719	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.046	63	2109	1.245	ug/l #	87
58) 4-Methyl-2-Pentanone	10.339	43	4272	0.630	ug/l #	72
59) 2-Hexanone	11.092	43	7500	1.579	ug/l #	92
72) 1,2,3-Trichloropropane	12.881	75	1500	0.255	ug/l	69
77) t-1,4-Dichloro-2-butene	12.736	75	96161	48.368	ug/l #	4
83) 1,3-Dichlorobenzene	13.696	146	2964	0.277	ug/l	81
84) 1,4-Dichlorobenzene	13.696	146	2964	0.284	ug/l	79
85) n-Butylbenzene	13.946	91	6392	0.378	ug/l	96
87) 1,2-Dichlorobenzene	13.994	146	2431	0.238	ug/l	89
88) 1,2-Dibromo-3-Chloropr...	14.603	75	352	0.278	ug/l #	25
89) 1,2,4-Trichlorobenzene	15.265	180	4754	1.019	ug/l #	88
90) Hexachlorobutadiene	15.375	225	1323	0.590	ug/l	83
91) Naphthalene	15.507	128	24179	1.825	ug/l	99
92) 1,2,3-Trichlorobenzene	15.705	180	5561	1.245	ug/l	86

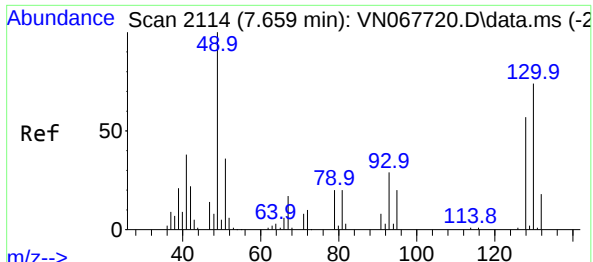
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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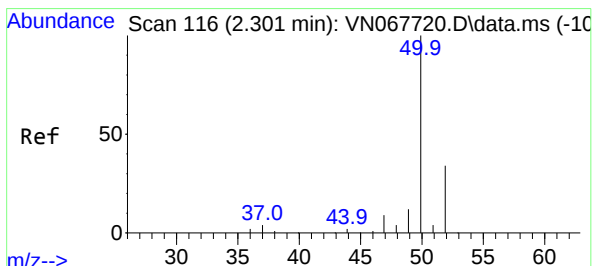
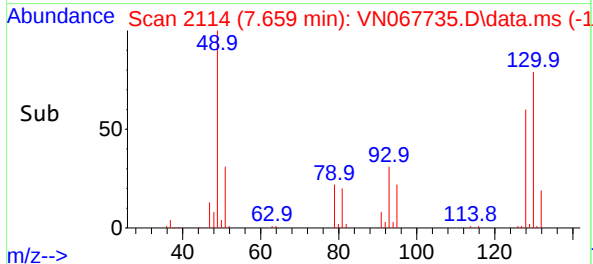
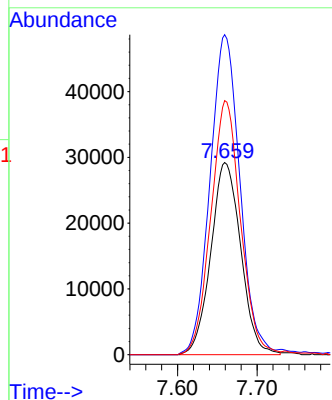
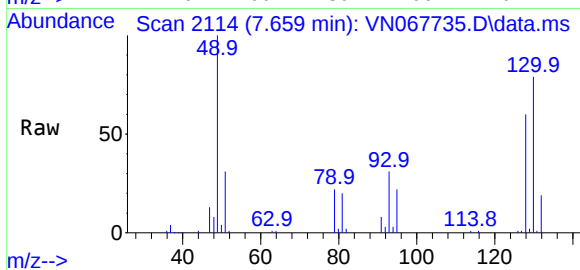




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

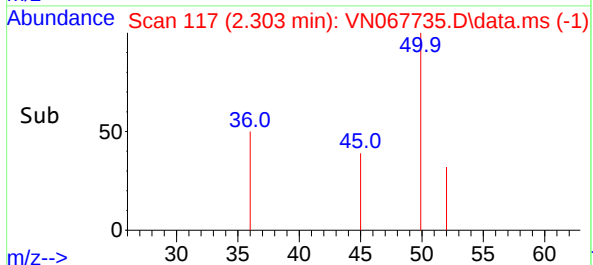
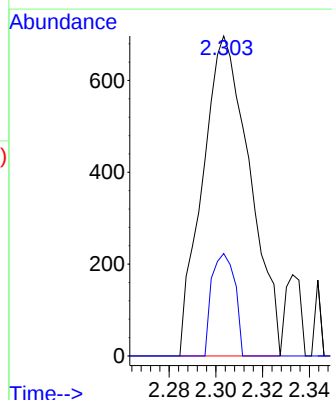
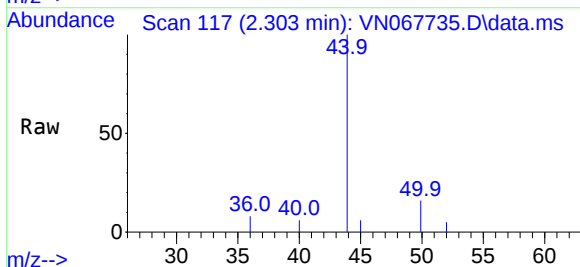
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL02

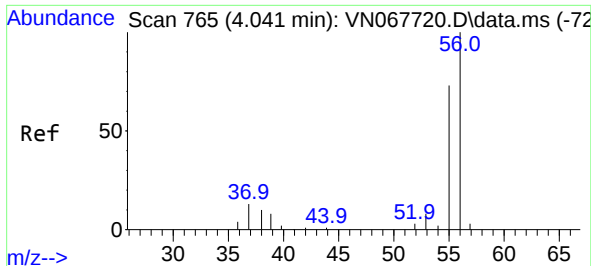
Tgt Ion:128 Resp: 76424
Ion Ratio Lower Upper
128 100
49 165.8 0.0 433.0
130 131.0 0.0 323.8



#3
Chloromethane
Concen: 0.201 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.003 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion: 50 Resp: 979
Ion Ratio Lower Upper
50 100
52 32.0 27.2 40.8

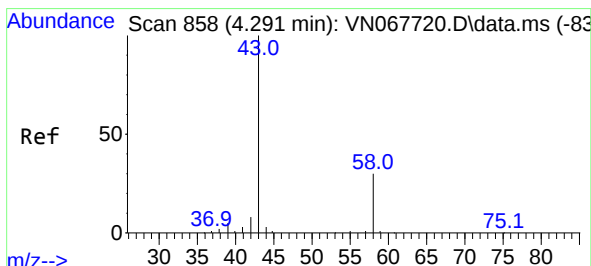
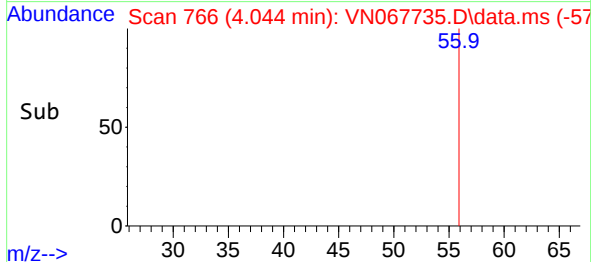
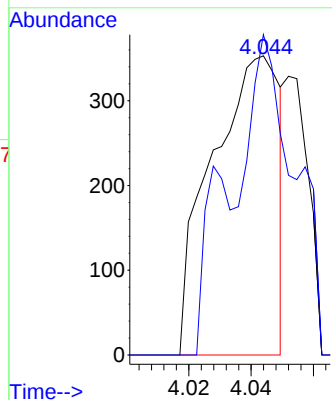
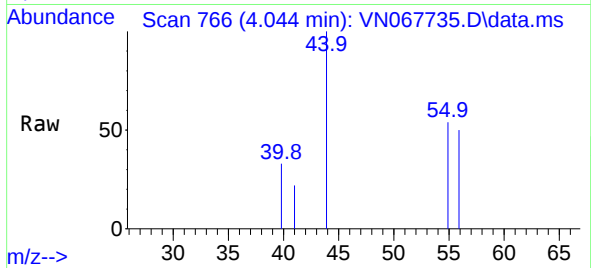




#13
Acrolein
Concen: 1.002 ug/l
RT: 4.044 min Scan# 766
Delta R.T. 0.003 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

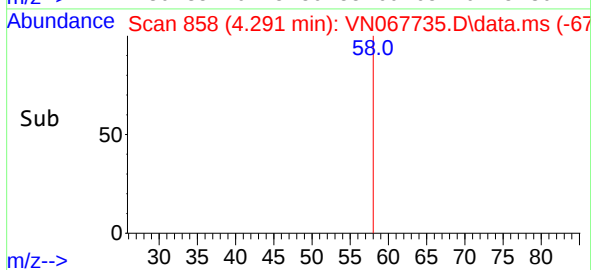
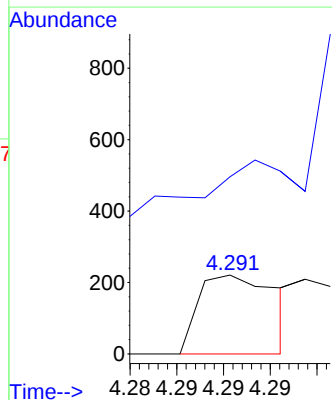
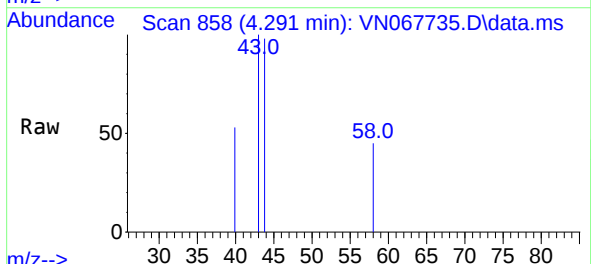
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL02

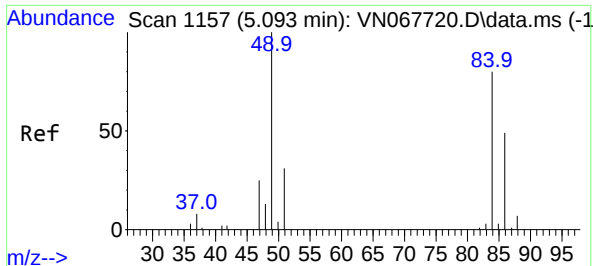
Tgt Ion: 56 Resp: 531
Ion Ratio Lower Upper
56 100
55 64.4 0.2 0.2#



#15
Acetone
Concen: 0.234 ug/l
RT: 4.291 min Scan# 858
Delta R.T. -0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion: 58 Resp: 129
Ion Ratio Lower Upper
58 100
43 25.8 268.2 402.4#



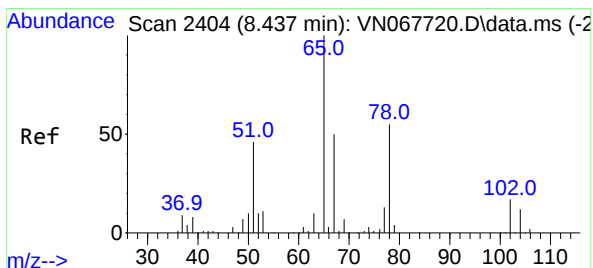
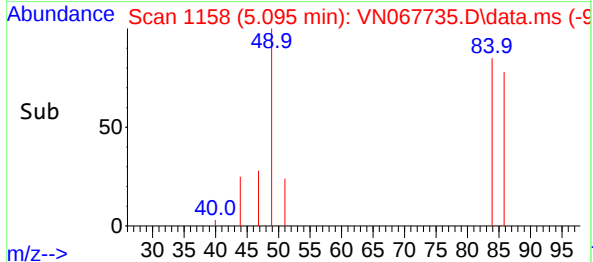
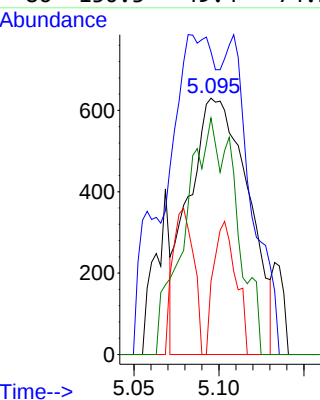
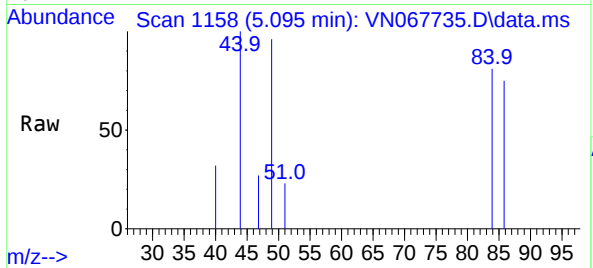


#18
Methylene Chloride
Concen: 0.301 ug/l
RT: 5.095 min Scan# 1158
Delta R.T. 0.003 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL02

Tgt Ion: 84 Resp: 1543

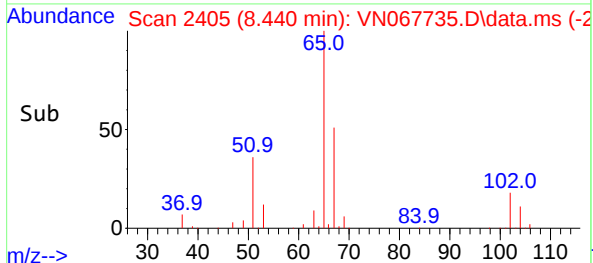
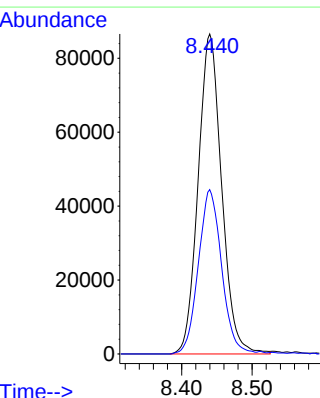
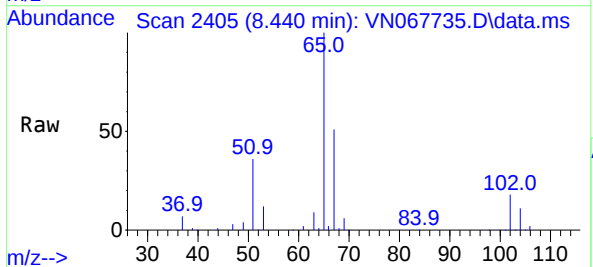
Ion	Ratio	Lower	Upper
84	100		
49	117.9	100.5	150.7
51	40.4	30.7	46.1
86	130.3	49.4	74.2#

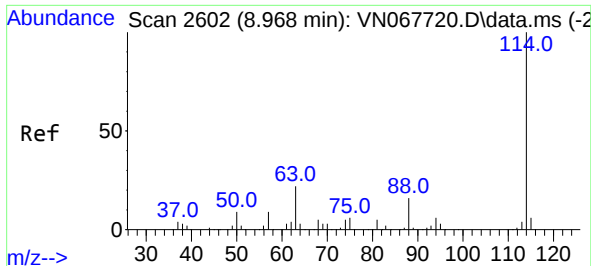


#27
1,2-Dichloroethane-d4
Concen: 32.477 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion: 65 Resp: 200519

Ion	Ratio	Lower	Upper
65	100		
67	50.8	40.6	60.8



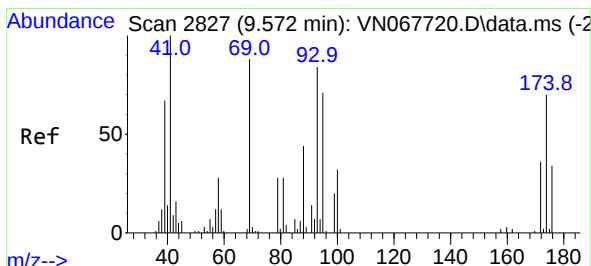
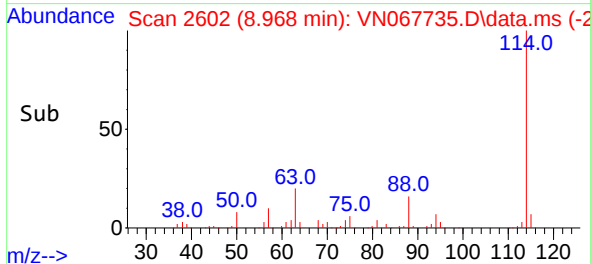
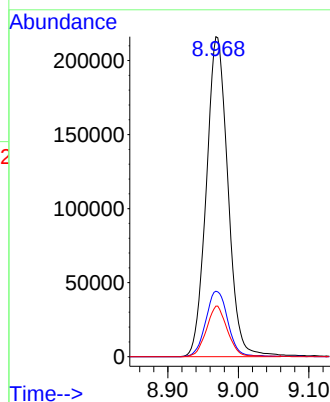
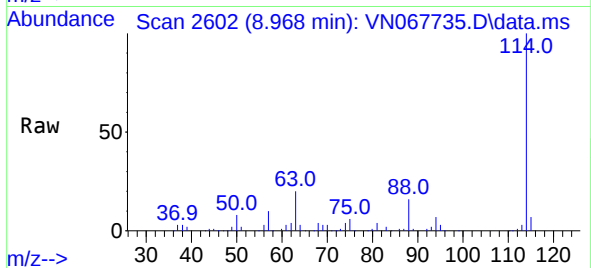


#28

1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Instrument :
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ClientSampleId :
VN0714WBL02

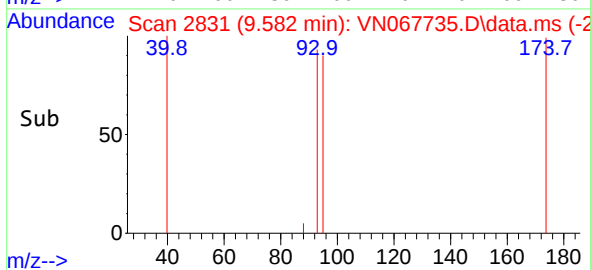
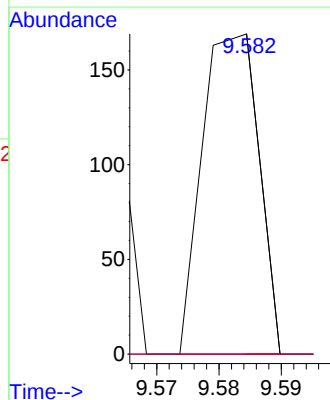
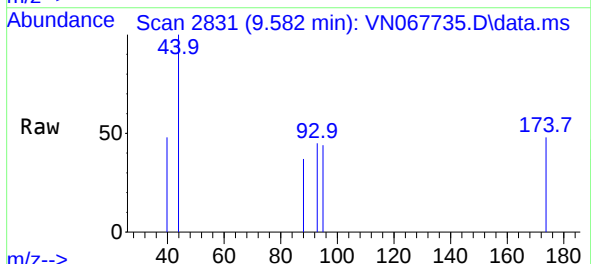
Tgt Ion:114 Resp: 458934
Ion Ratio Lower Upper
114 100
63 20.9 17.2 25.8
88 15.2 12.4 18.6

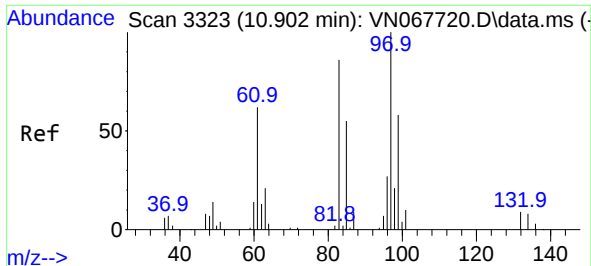


#45

1,4-Dioxane
Concen: 0.572 ug/l
RT: 9.582 min Scan# 2831
Delta R.T. 0.011 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion: 88 Resp: 53
Ion Ratio Lower Upper
88 100
43 101.9 26.9 40.3#
58 0.0 52.2 78.4#

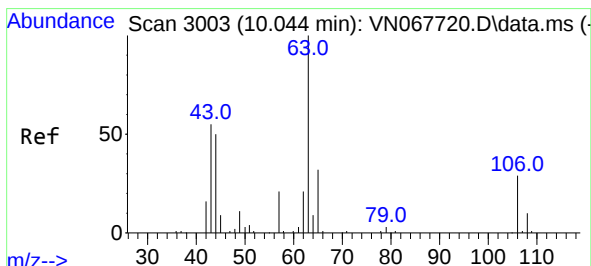
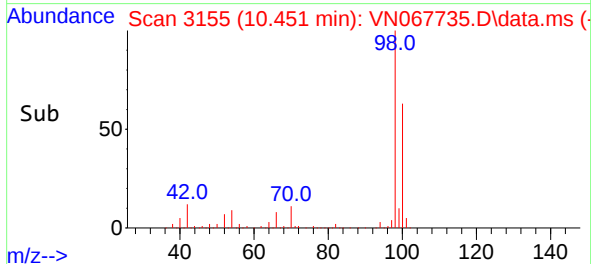
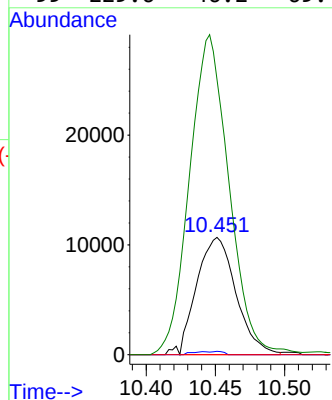
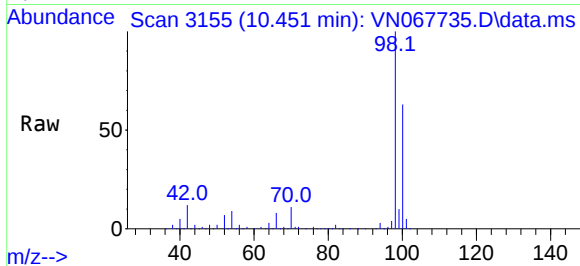




#50
1,1,2-Trichloroethane
Concen: 3.719 ug/l
RT: 10.451 min Scan# 3155
Delta R.T. -0.451 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

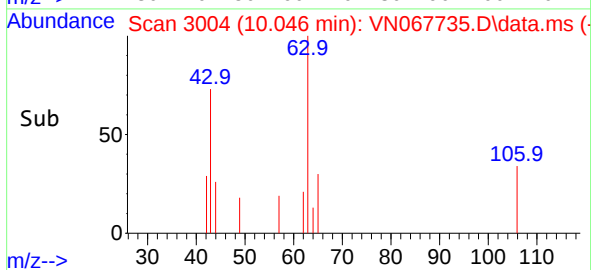
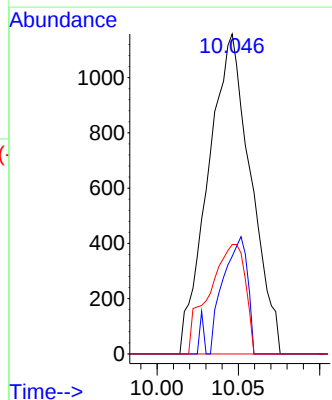
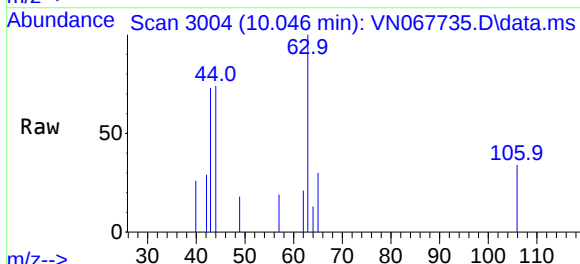
Instrument :
MSVOA_N
ClientSampleId :
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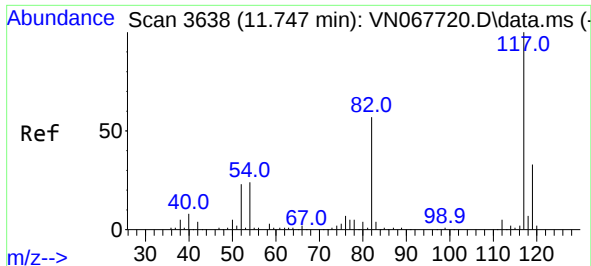
Tgt Ion:	97	Resp:	20947
Ion	Ratio	Lower	Upper
97	100		
83	2.9	69.0	103.4#
85	0.0	43.8	65.8#
99	229.6	46.2	69.4#



#55
2-Chloroethyl vinyl ether
Concen: 1.245 ug/l
RT: 10.046 min Scan# 3004
Delta R.T. 0.003 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion:	63	Resp:	2109
Ion	Ratio	Lower	Upper
63	100		
65	20.8	25.5	38.3#
106	25.2	22.1	33.1

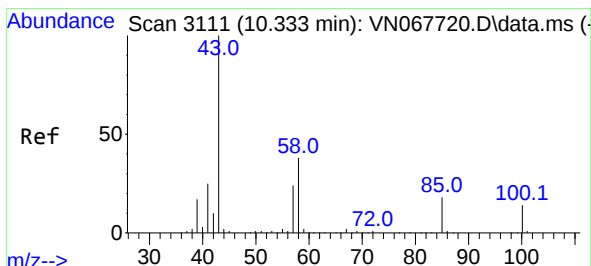
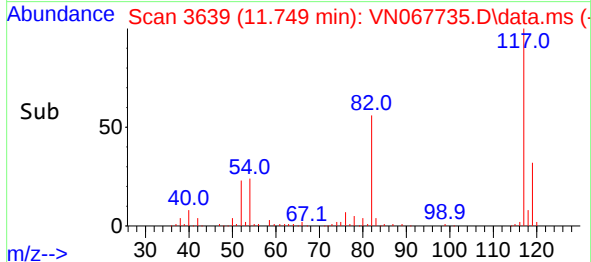
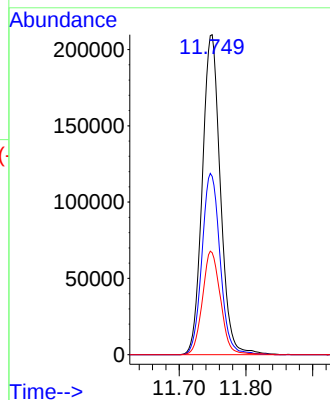
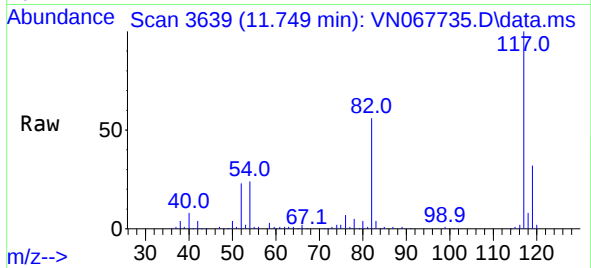




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

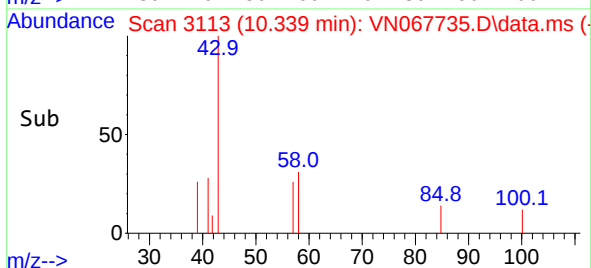
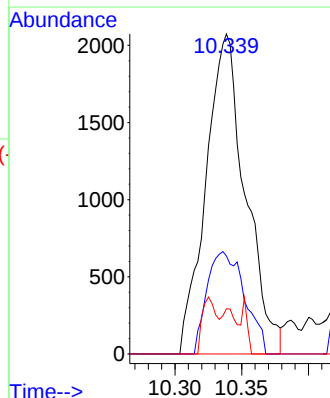
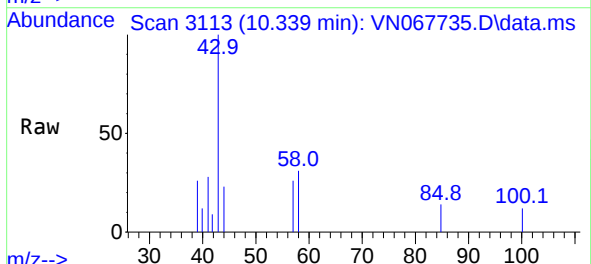
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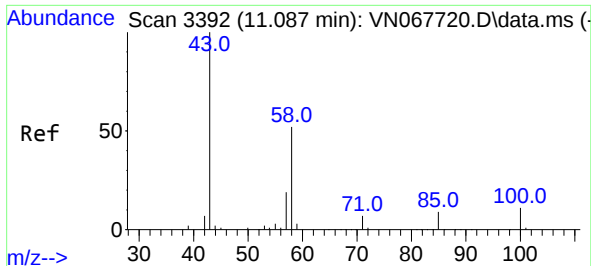
Tgt Ion:117 Resp: 394649
Ion Ratio Lower Upper
117 100
82 57.1 45.4 68.0
119 32.2 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.630 ug/l
RT: 10.339 min Scan# 3113
Delta R.T. 0.005 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion: 43 Resp: 4272
Ion Ratio Lower Upper
43 100
58 20.7 29.9 44.9#
85 5.4 14.1 21.1#

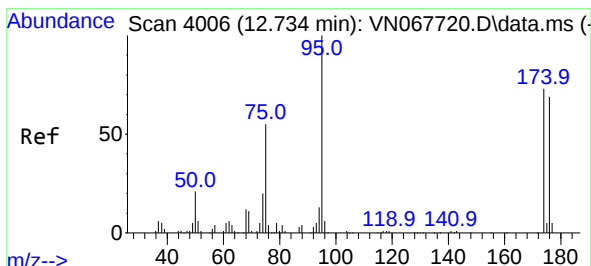
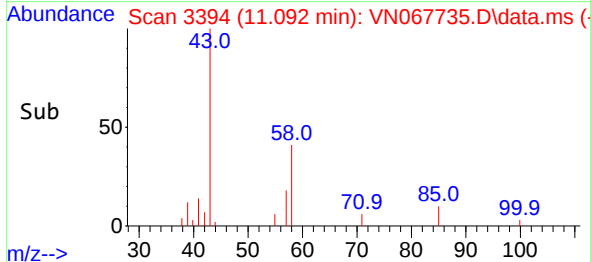
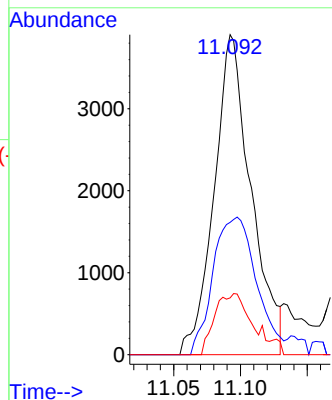
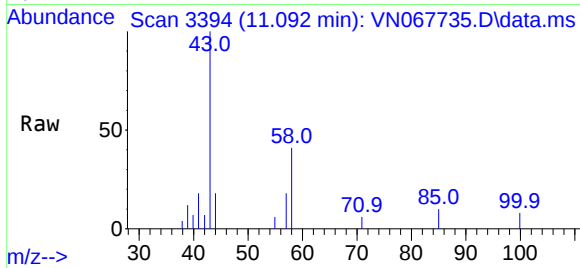




#59
2-Hexanone
Concen: 1.579 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

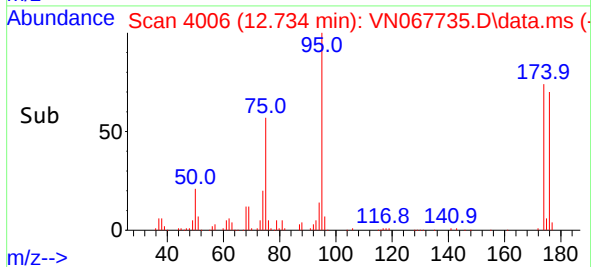
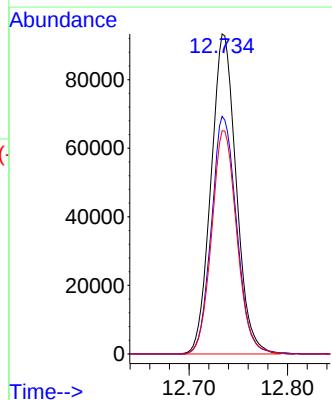
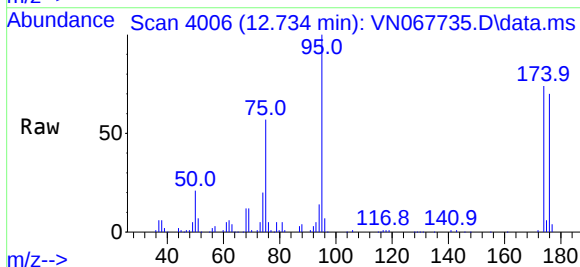
Instrument :
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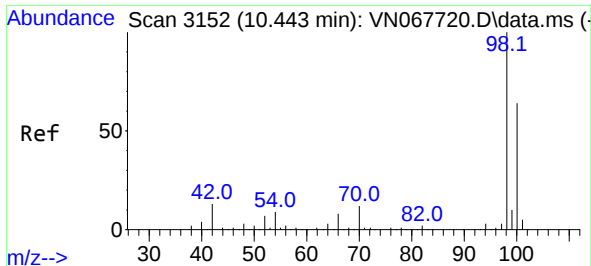
Tgt Ion: 43 Resp: 7500
Ion Ratio Lower Upper
43 100
58 50.5 41.5 62.3
57 7.3 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 25.908 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion: 95 Resp: 166049
Ion Ratio Lower Upper
95 100
174 74.5 57.1 85.7
176 69.8 54.6 81.8

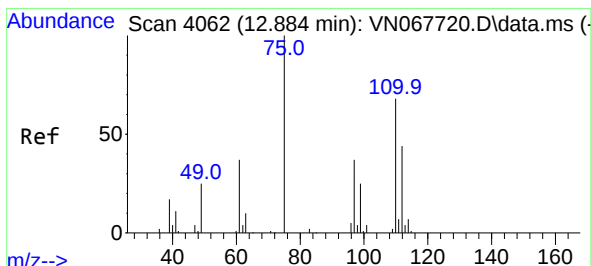
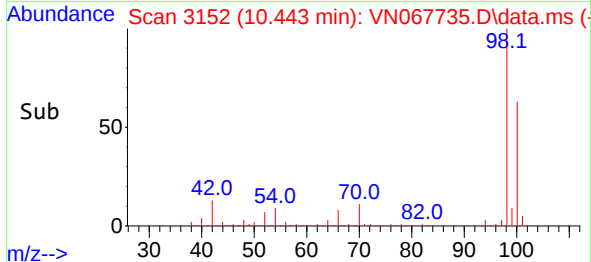
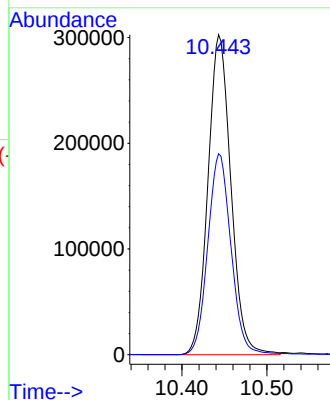
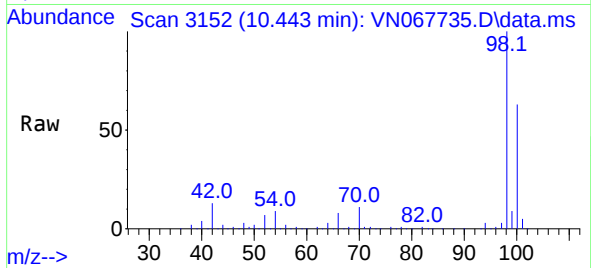




#63
Toluene-d8
Concen: 31.290 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

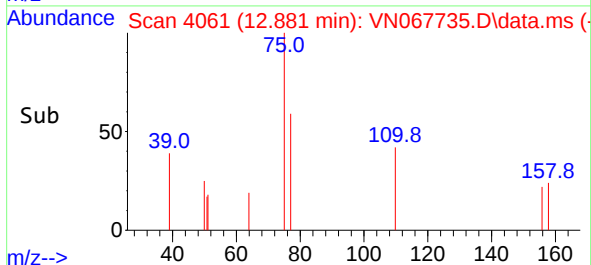
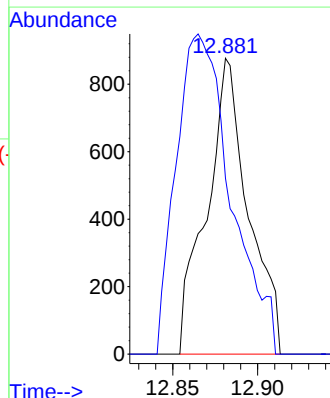
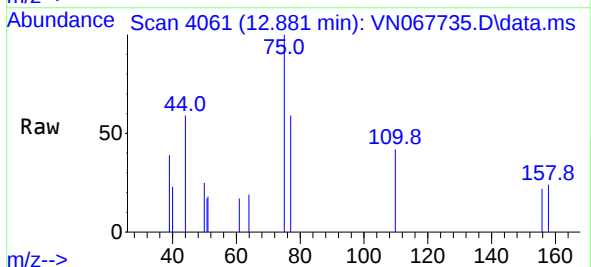
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL02

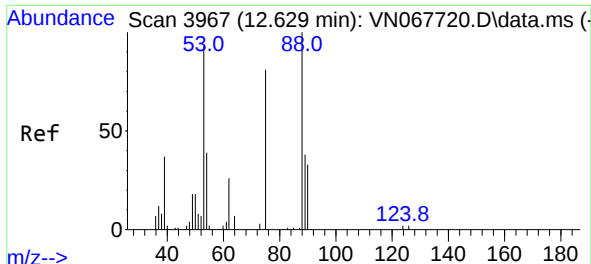
Tgt Ion: 98 Resp: 567964
Ion Ratio Lower Upper
98 100
100 63.6 51.0 76.4



#72
1,2,3-Trichloropropane
Concen: 0.255 ug/l
RT: 12.881 min Scan# 4061
Delta R.T. -0.003 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion: 75 Resp: 1500
Ion Ratio Lower Upper
75 100
77 138.1 0.0 365.2

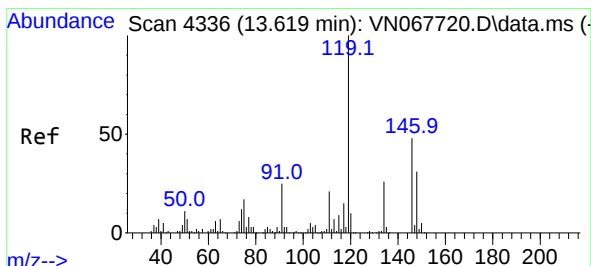
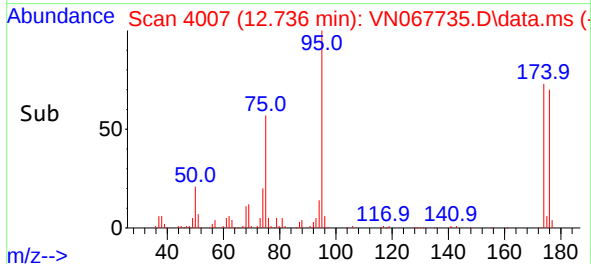
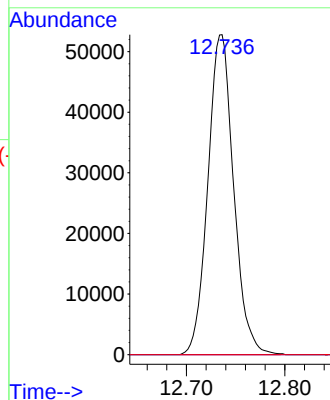
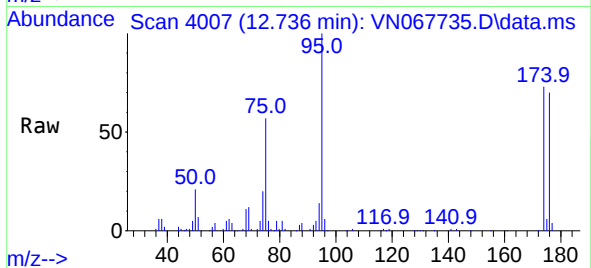




#77
t-1,4-Dichloro-2-butene
Concen: 48.368 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.107 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

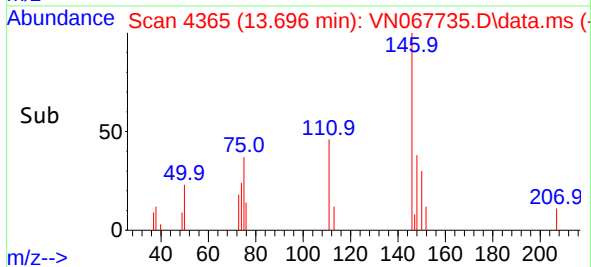
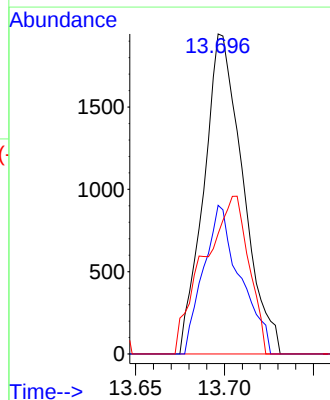
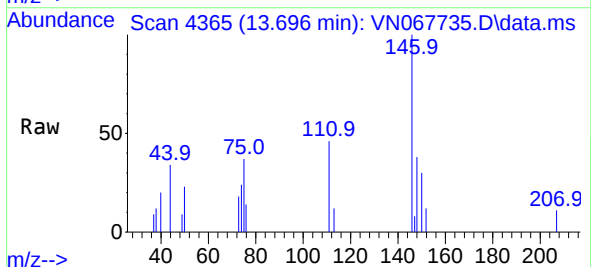
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL02

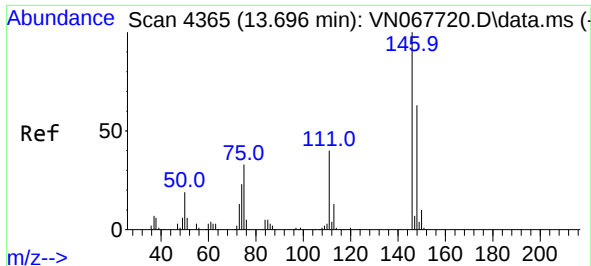
Tgt Ion: 75 Resp: 96161
Ion Ratio Lower Upper
75 100
53 0.0 57.0 171.0#
89 0.0 24.7 74.1#



#83
1,3-Dichlorobenzene
Concen: 0.277 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. 0.078 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion: 146 Resp: 2964
Ion Ratio Lower Upper
146 100
111 43.8 21.1 63.1
148 40.3 31.9 95.7

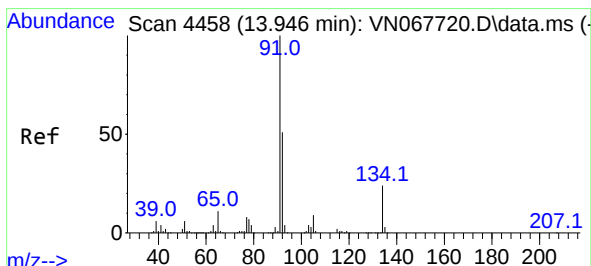
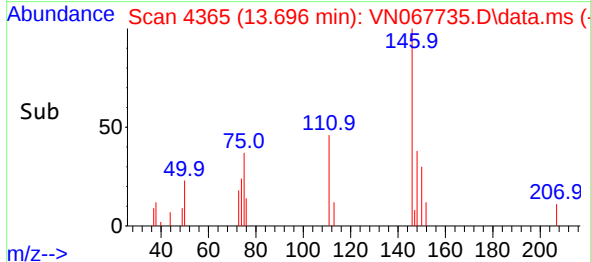
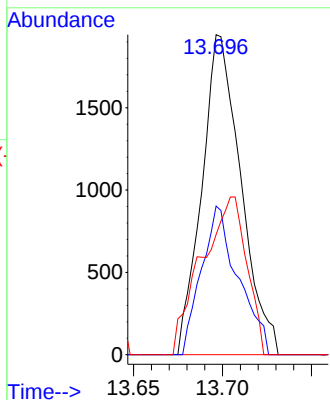
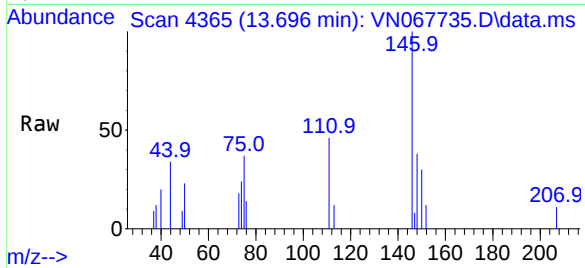




#84
1,4-Dichlorobenzene
Concen: 0.284 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. -0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

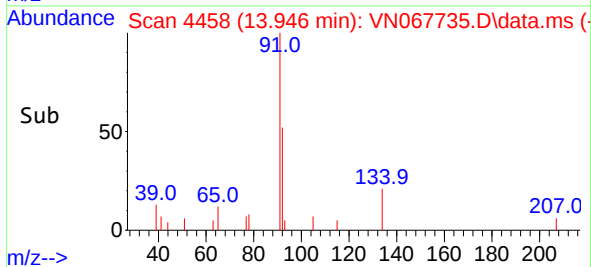
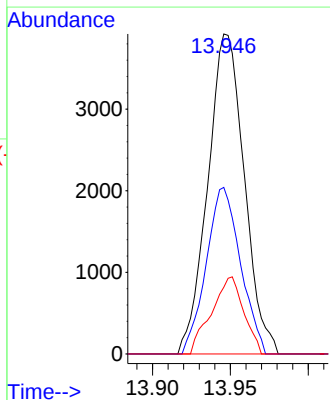
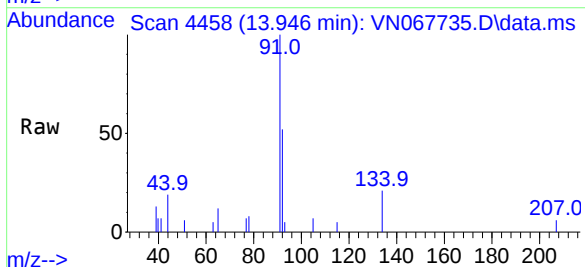
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL02

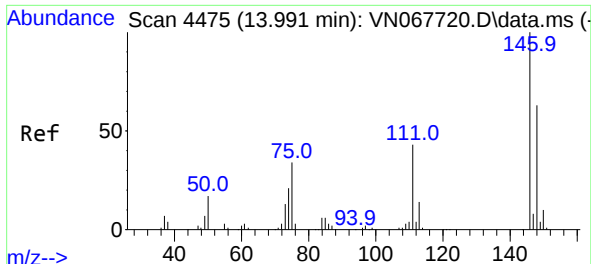
Tgt Ion:	146	Resp:	2964
Ion	Ratio	Lower	Upper
146	100		
111	43.8	20.0	59.9
148	40.3	31.8	95.3



#85
n-Butylbenzene
Concen: 0.378 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. -0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion:	91	Resp:	6392
Ion	Ratio	Lower	Upper
91	100		
92	48.8	0.0	102.6
134	21.2	0.0	48.6



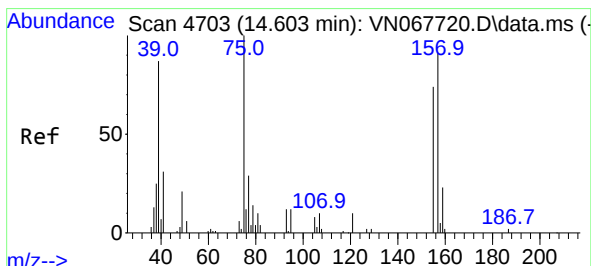
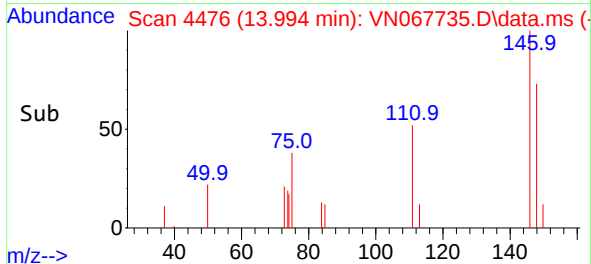
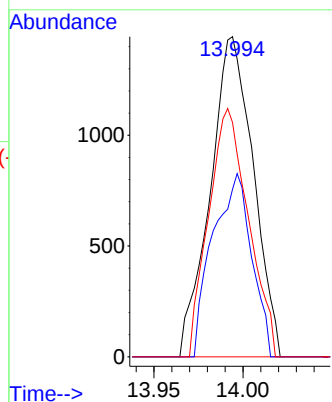
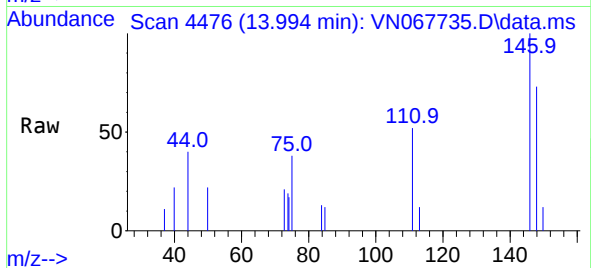


#87

1,2-Dichlorobenzene
Concen: 0.238 ug/l
RT: 13.994 min Scan# 4476
Delta R.T. 0.003 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL02

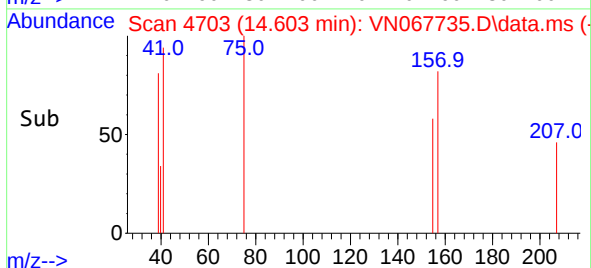
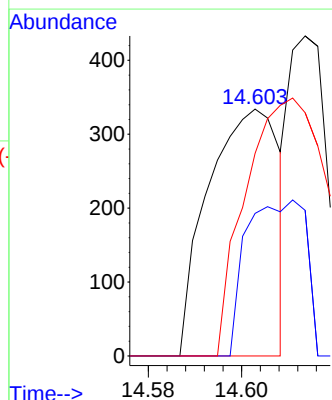
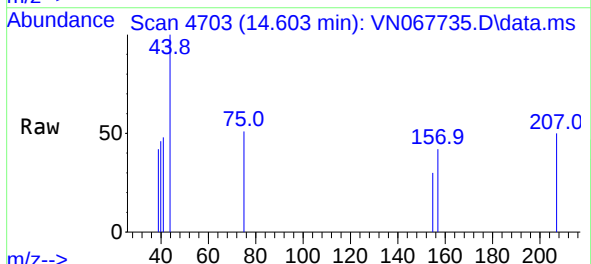
Tgt Ion:146 Resp: 2431
Ion Ratio Lower Upper
146 100
111 51.6 22.0 66.0
148 71.7 31.7 95.1

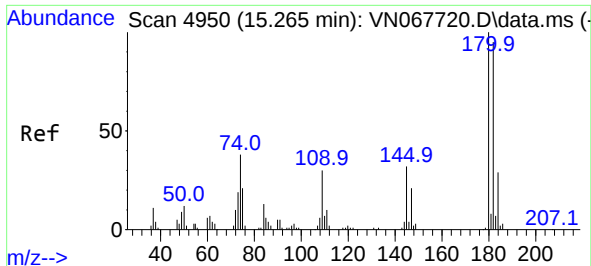


#88

1,2-Dibromo-3-Chloropropane
Concen: 0.278 ug/l
RT: 14.603 min Scan# 4703
Delta R.T. -0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion: 75 Resp: 352
Ion Ratio Lower Upper
75 100
155 34.4 59.2 88.8#
157 0.0 75.4 113.2#

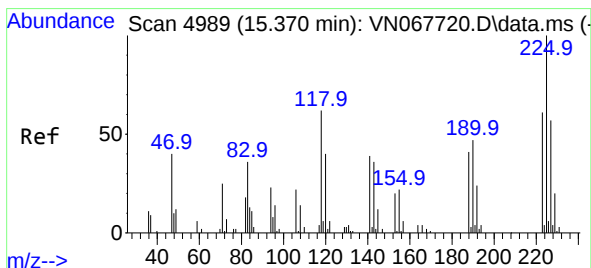
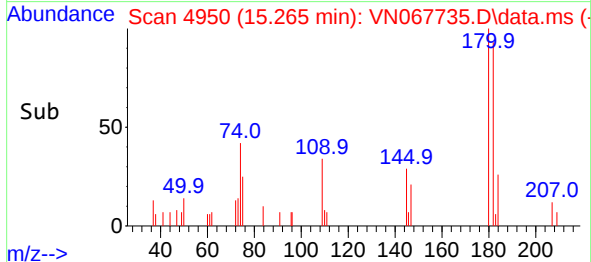
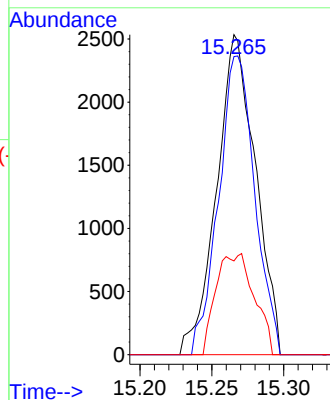
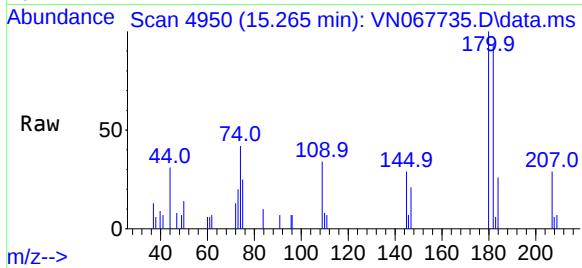




#89
1,2,4-Trichlorobenzene
Concen: 1.019 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. -0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

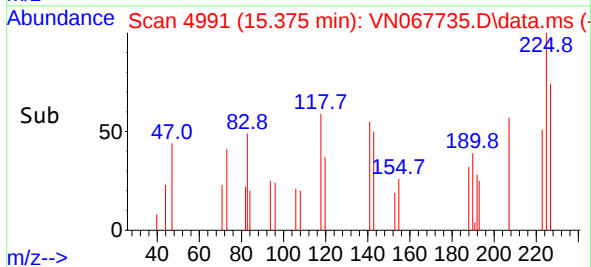
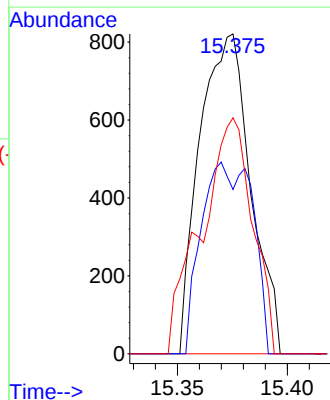
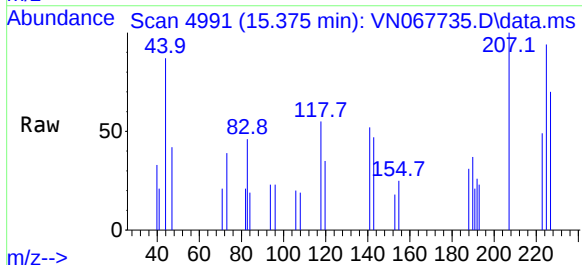
Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL02

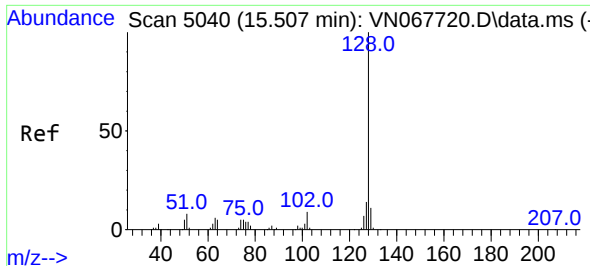
Tgt Ion:180 Resp: 4754
Ion Ratio Lower Upper
180 100
182 87.0 74.5 111.7
145 15.8 25.4 38.0#



#90
Hexachlorobutadiene
Concen: 0.590 ug/l
RT: 15.375 min Scan# 4991
Delta R.T. 0.005 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion:225 Resp: 1323
Ion Ratio Lower Upper
225 100
223 37.7 0.0 124.6
227 56.3 0.0 115.6

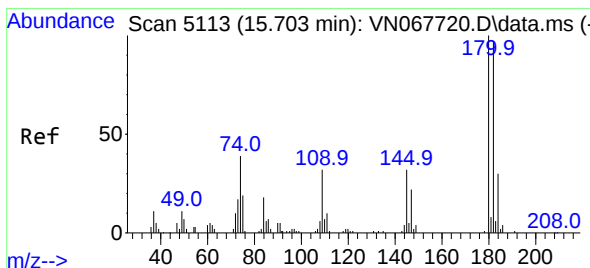
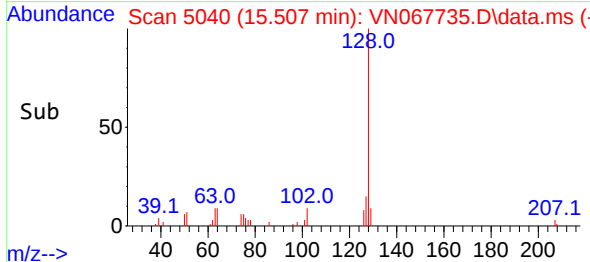
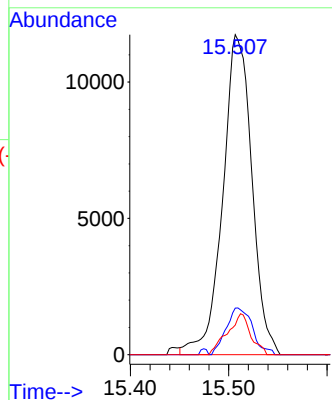
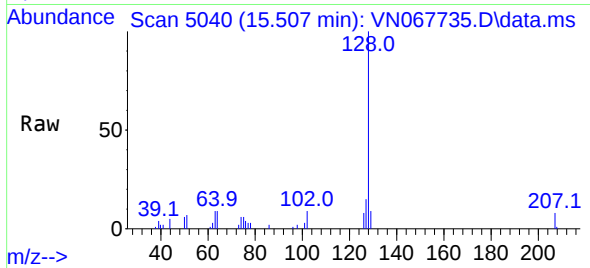




#91
Naphthalene
Concen: 1.825 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL02

Tgt Ion:	128	Resp:	24179
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.9	16.3
129	10.2	8.7	13.1



#92
1,2,3-Trichlorobenzene
Concen: 1.245 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.003 min
Lab File: VN067735.D
Acq: 14 Jul 2021 11:17

Tgt Ion:	180	Resp:	5561
Ion Ratio	Lower	Upper	
180	100		
182	101.4	0.0	190.8
145	13.6	0.0	68.2

