

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081822\
 Data File : VN074012.D
 Acq On : 18 Aug 2022 18:15
 Operator : JC\MD
 Sample : N4224-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP2-0816

Quant Time: Aug 19 00:02:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081522W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 16 00:45:21 2022
 Response via : Initial Calibration

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

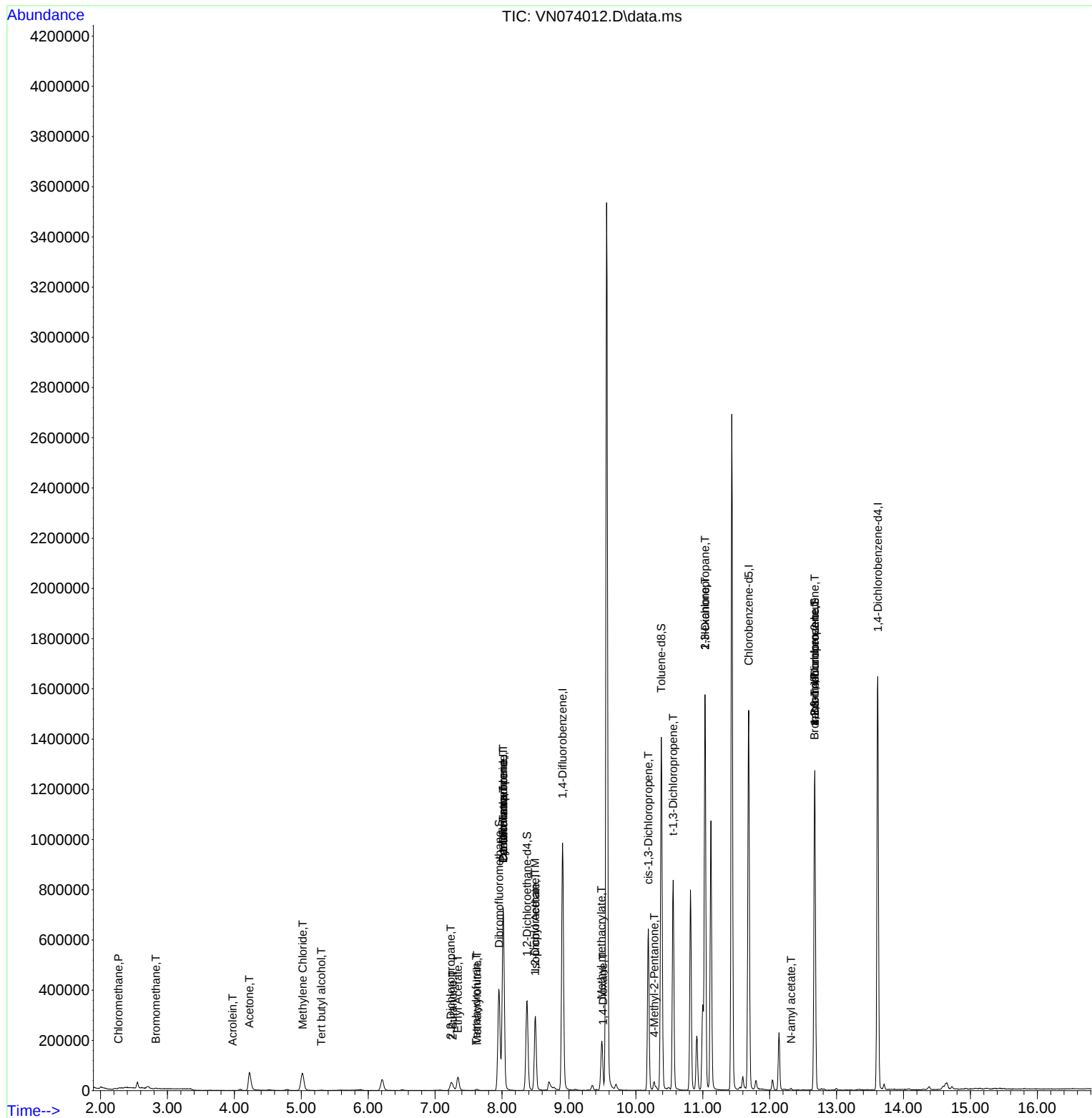
Internal Standards						
1) Pentafluorobenzene	8.016	168	617933	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	919360	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	915609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	489900	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	304619	50.613	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.220%			
35) Dibromofluoromethane	7.957	113	294040	54.081	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.160%			
50) Toluene-d8	10.381	98	999715	47.476	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.960%			
62) 4-Bromofluorobenzene	12.675	95	426455	61.023	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 122.040%			
Target Compounds						Qvalue
3) Chloromethane	2.269	50	1215	0.223	ug/l	90
5) Bromomethane	2.828	94	975	0.223	ug/l #	50
11) Tert butyl alcohol	5.299	59	2739	2.035	ug/l #	78
13) Acrolein	3.975	56	364	0.386	ug/l #	54
16) Acetone	4.222	43	134175	47.253	ug/l	99
18) Methyl Acetate	4.799	43	7694	Below Cal	#	73
20) Methylene Chloride	5.022	84	61444	10.255	ug/l	96
25) 2-Butanone	7.263	43	19636	4.361	ug/l	95
26) 2,2-Dichloropropane	7.234	77	1995	0.223	ug/l #	53
29) Tetrahydrofuran	7.616	42	1711	0.592	ug/l #	56
31) Cyclohexane	8.016	56	10312	1.229	ug/l #	1
36) 1,1-Dichloropropene	8.016	75	38940	5.156	ug/l #	50
37) Ethyl Acetate	7.340	43	82639	9.033	ug/l	98
38) Carbon Tetrachloride	8.016	117	54663	6.333	ug/l #	17
41) Methacrylonitrile	7.628	41	2084	0.504	ug/l #	31
42) 1,2-Dichloroethane	8.492	62	2162	0.264	ug/l #	74
43) Isopropyl Acetate	8.498	43	328730	25.222	ug/l #	93
48) Methyl methacrylate	9.486	41	11306	2.027	ug/l #	38
49) 1,4-Dioxane	9.510	88	198	1.194	ug/l #	25
51) 4-Methyl-2-Pentanone	10.275	43	19566	2.220	ug/l	98
53) t-1,3-Dichloropropene	10.557	75	2342	0.269	ug/l #	44
54) cis-1,3-Dichloropropene	10.186	75	125938	13.213	ug/l #	59
57) 1,3-Dichloropropane	11.033	76	17752	1.717	ug/l #	42
59) 2-Hexanone	11.033	43	206177	30.402	ug/l #	50
71) Bromoform	12.669	173	2184	0.332	ug/l #	28
74) N-amyl acetate	12.322	43	3618	0.268	ug/l #	41
76) 1,2,3-Trichloropropane	12.675	75	210274	20.650	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.675	75	210274	58.734	ug/l #	10

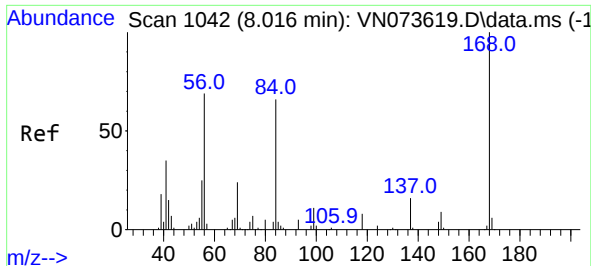
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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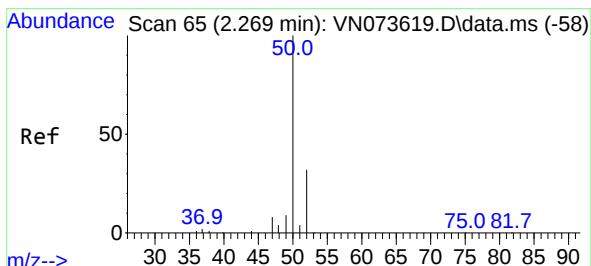
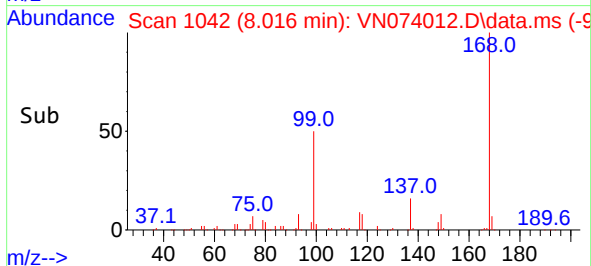
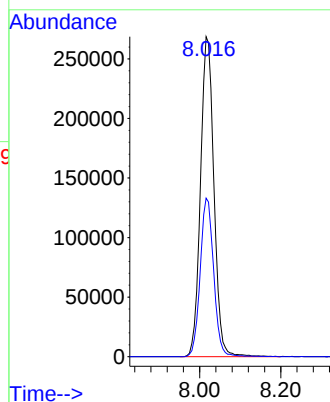
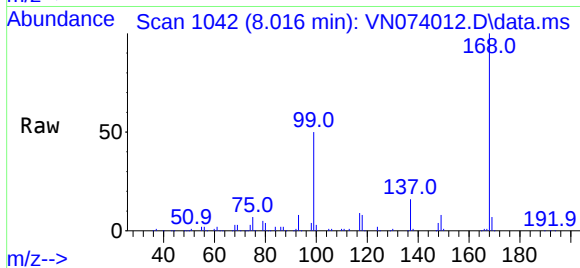




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

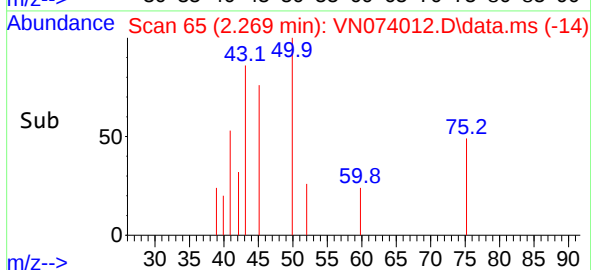
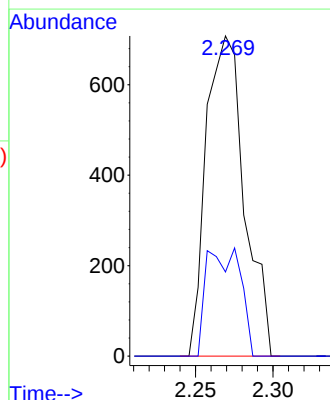
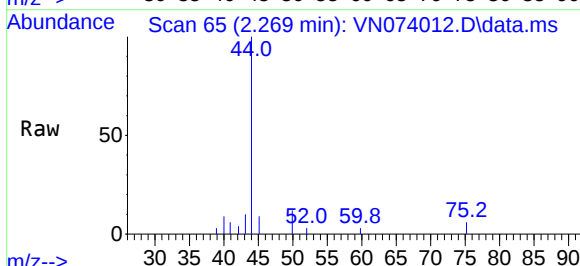
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

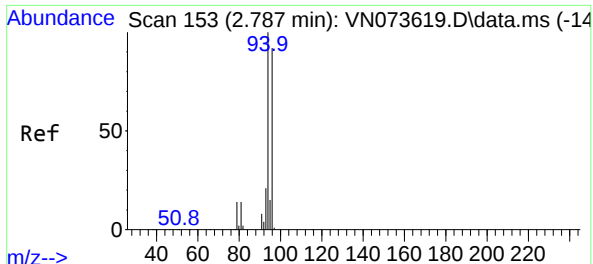
Tgt Ion:168 Resp: 617933
Ion Ratio Lower Upper
168 100
99 49.5 42.3 63.5



#3
Chloromethane
Concen: 0.223 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 50 Resp: 1215
Ion Ratio Lower Upper
50 100
52 26.3 25.7 38.5

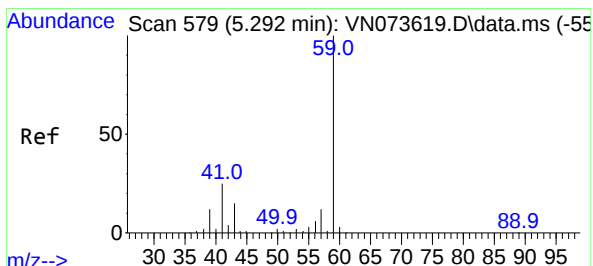
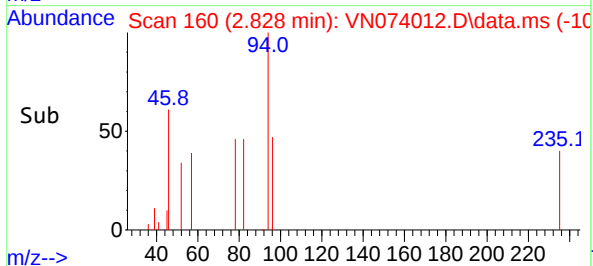
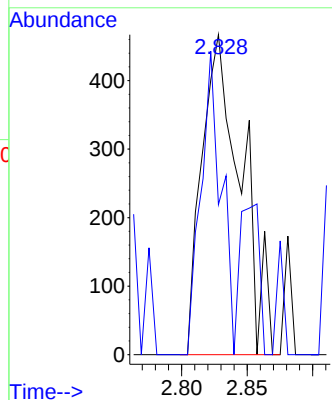
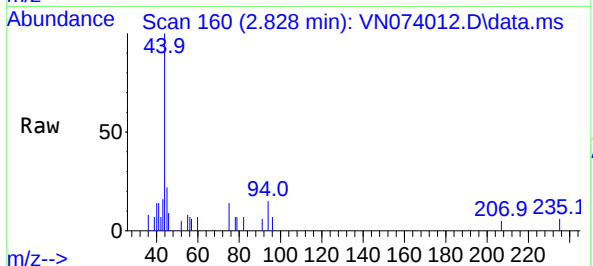




#5
Bromomethane
Concen: 0.223 ug/l
RT: 2.828 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

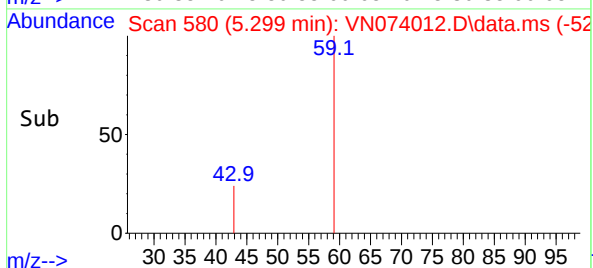
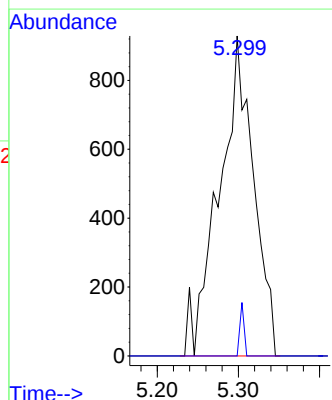
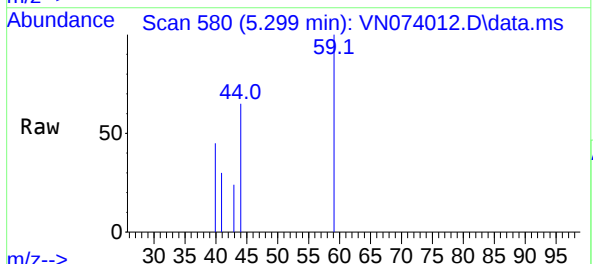
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

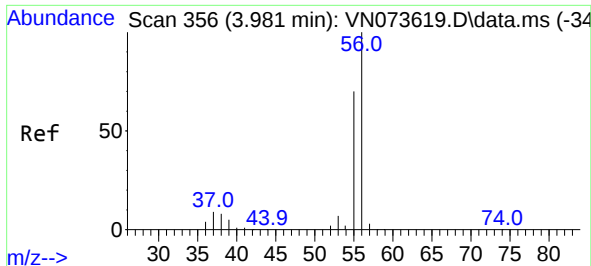
Tgt Ion: 94 Resp: 975
Ion Ratio Lower Upper
94 100
96 46.9 76.0 114.0#



#11
Tert butyl alcohol
Concen: 2.035 ug/l
RT: 5.299 min Scan# 580
Delta R.T. 0.007 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 59 Resp: 2739
Ion Ratio Lower Upper
59 100
57 2.0 8.3 12.5#

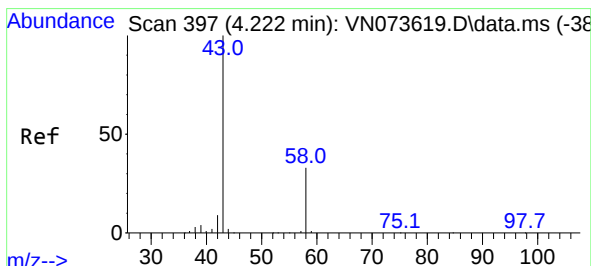
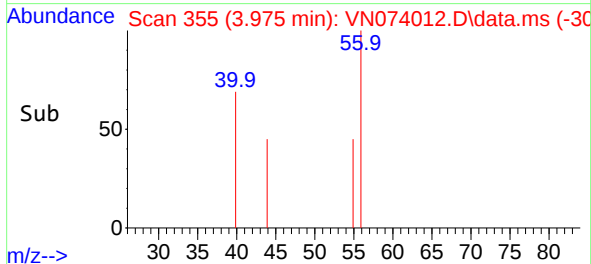
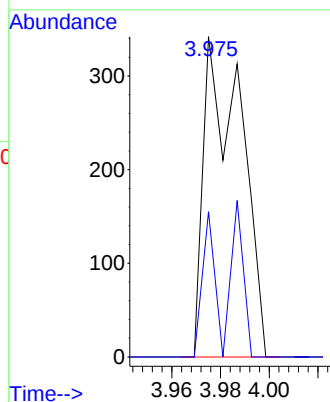
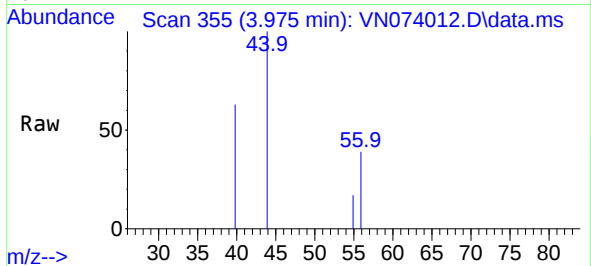




#13
Acrolein
Concen: 0.386 ug/l
RT: 3.975 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

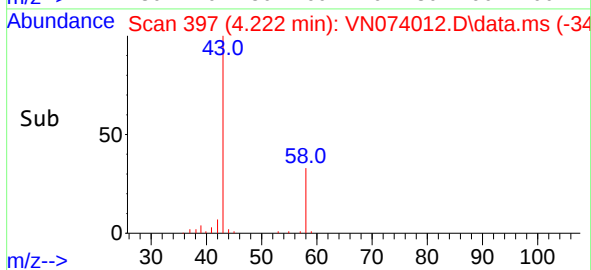
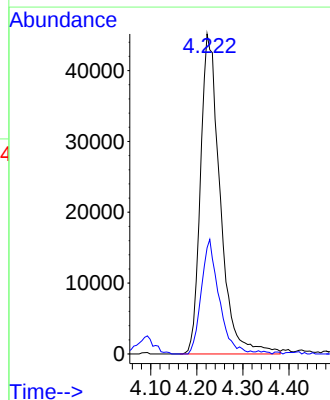
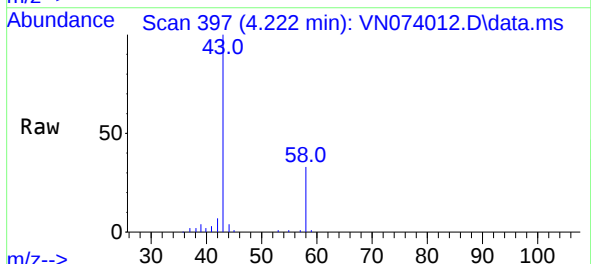
Instrument :
MSVOA_N
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TP2-0816

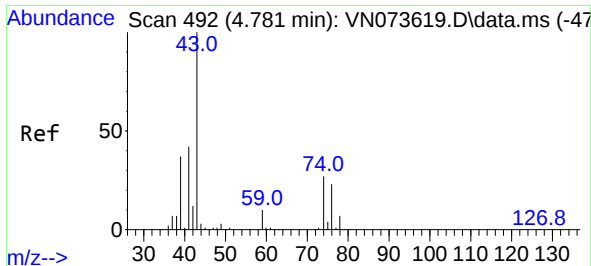
Tgt Ion: 56 Resp: 364
Ion Ratio Lower Upper
56 100
55 31.3 54.8 82.2#



#16
Acetone
Concen: 47.253 ug/l
RT: 4.222 min Scan# 397
Delta R.T. 0.000 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 43 Resp: 134175
Ion Ratio Lower Upper
43 100
58 33.2 26.0 39.0

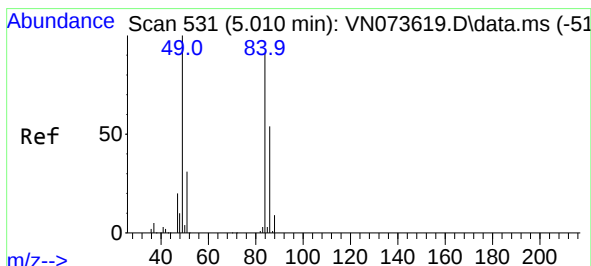
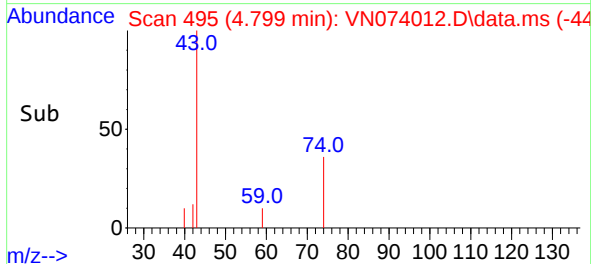
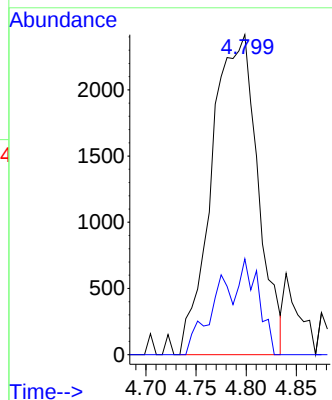
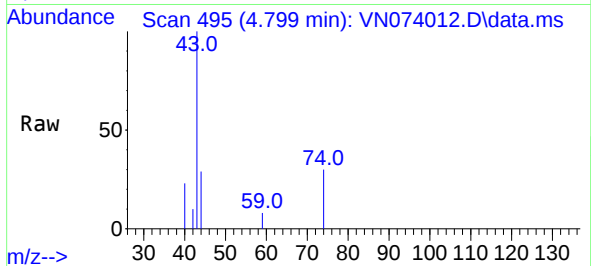




#18
Methyl Acetate
Concen: Below Cal
RT: 4.799 min Scan# 495
Delta R.T. 0.018 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

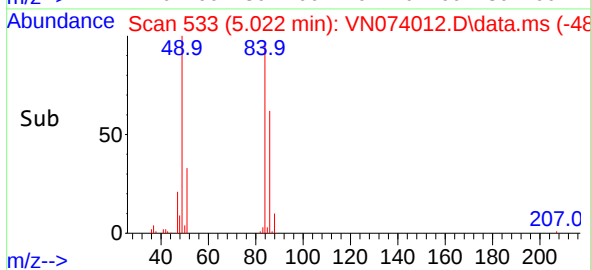
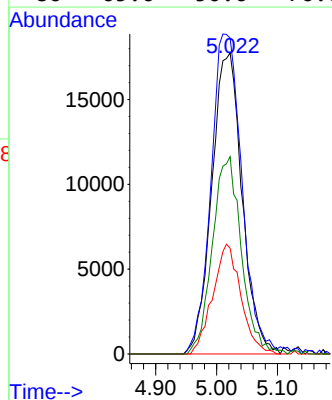
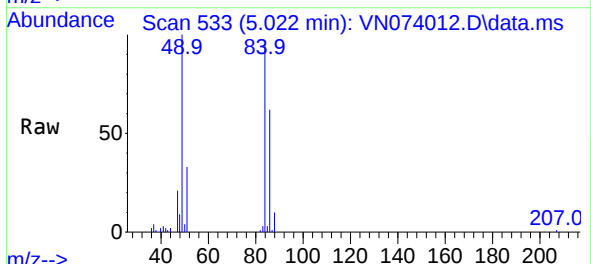
Instrument :
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ClientSampleId :
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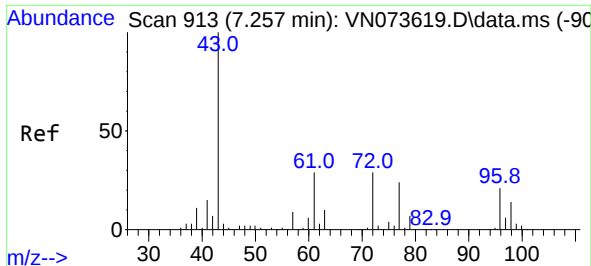
Tgt Ion: 43 Resp: 7694
Ion Ratio Lower Upper
43 100
74 13.2 21.6 32.4#



#20
Methylene Chloride
Concen: 10.255 ug/l
RT: 5.022 min Scan# 533
Delta R.T. 0.012 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 84 Resp: 61444
Ion Ratio Lower Upper
84 100
49 104.9 88.3 132.5
51 35.1 28.2 42.2
86 65.6 50.6 76.0

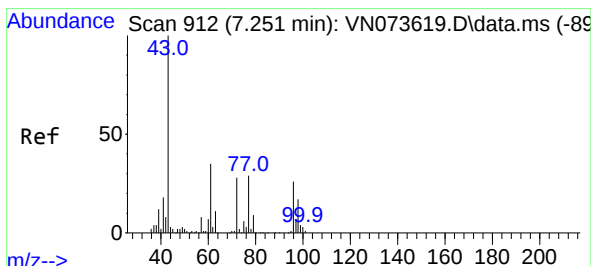
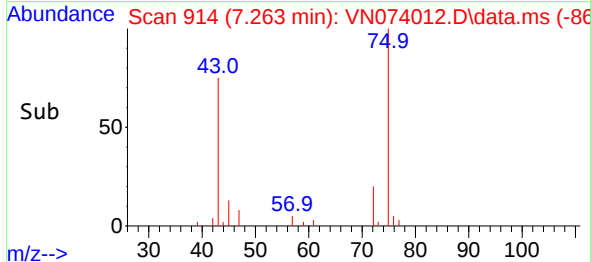
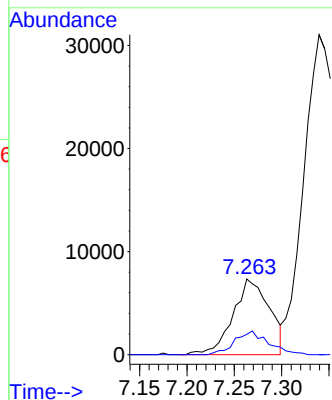
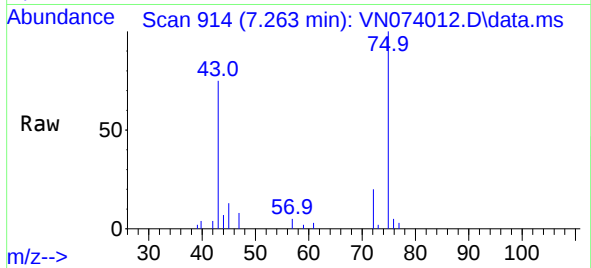




#25
2-Butanone
Concen: 4.361 ug/l
RT: 7.263 min Scan# 913
Delta R.T. 0.006 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

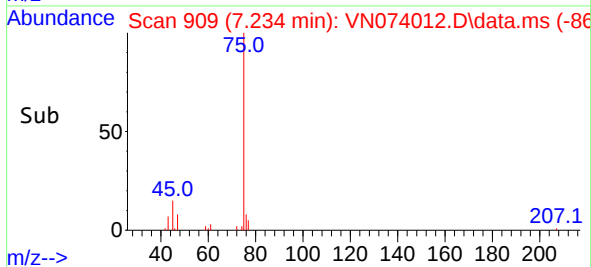
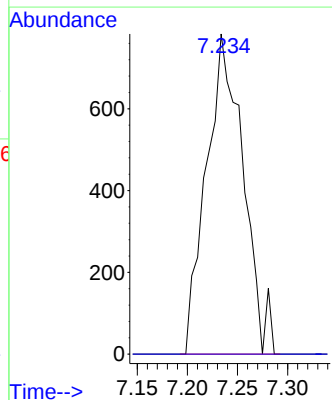
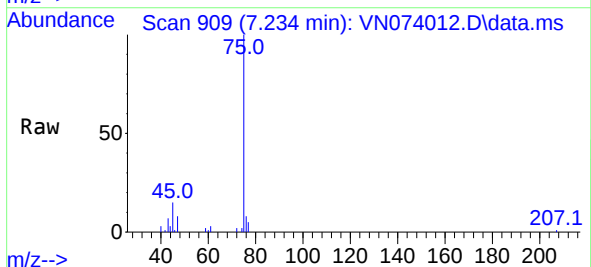
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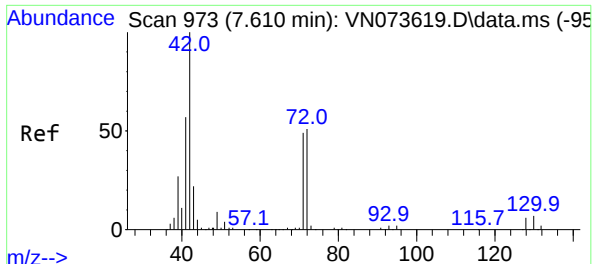
Tgt Ion: 43 Resp: 19636
Ion Ratio Lower Upper
43 100
72 26.9 23.7 35.5



#26
2,2-Dichloropropane
Concen: 0.223 ug/l
RT: 7.234 min Scan# 909
Delta R.T. -0.017 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 77 Resp: 1995
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#

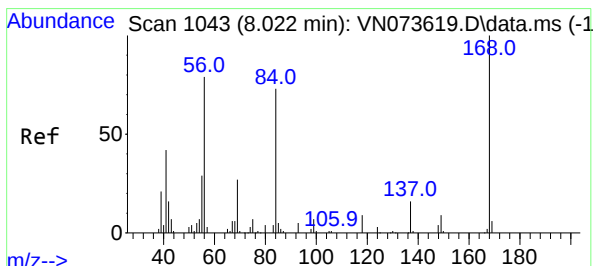
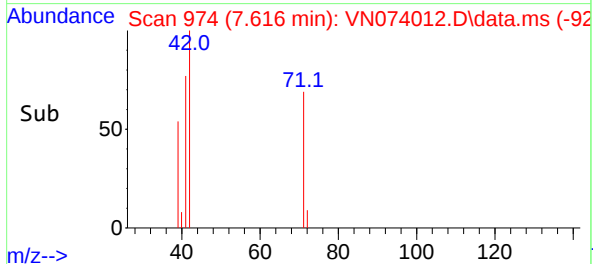
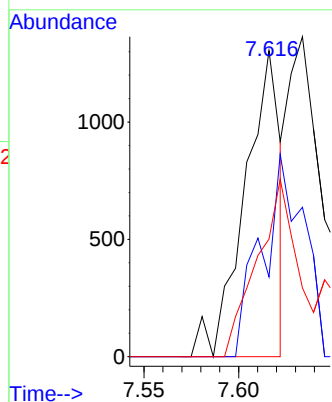
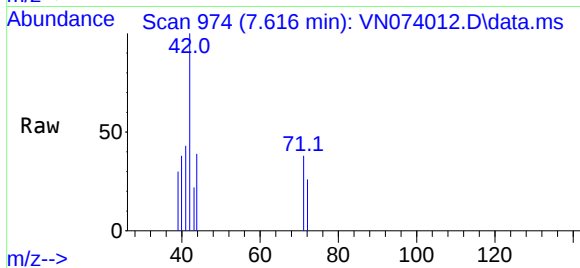




#29
Tetrahydrofuran
Concen: 0.592 ug/l
RT: 7.616 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

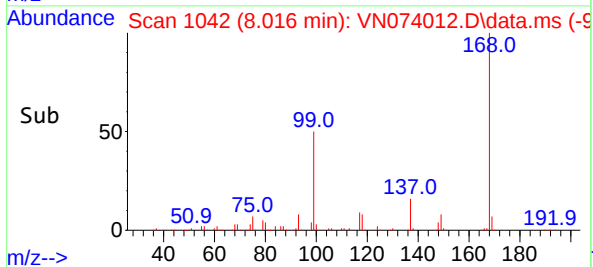
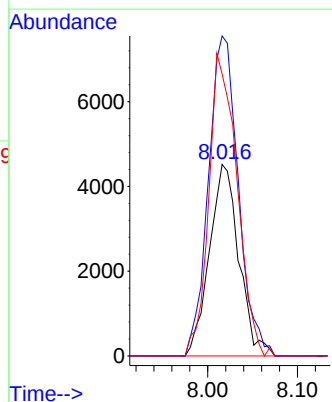
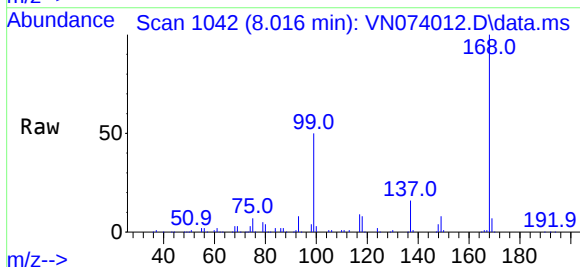
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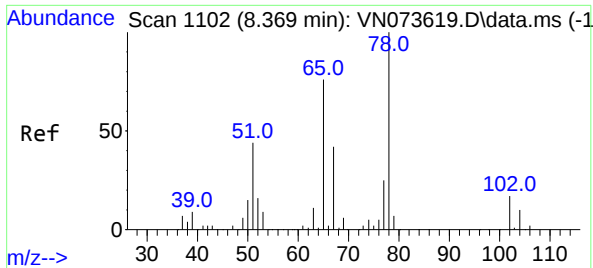
Tgt Ion: 42 Resp: 1711
Ion Ratio Lower Upper
42 100
72 77.3 39.7 59.5#
71 77.2 36.6 55.0#



#31
Cyclohexane
Concen: 1.229 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 56 Resp: 10312
Ion Ratio Lower Upper
56 100
69 167.0 27.8 41.8#
84 147.1 76.9 115.3#

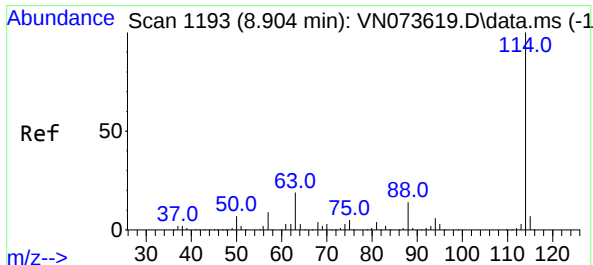
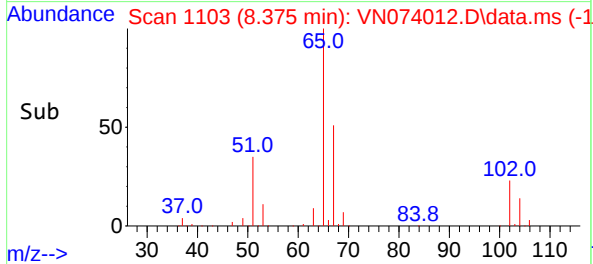
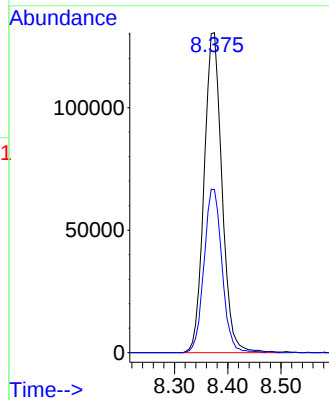
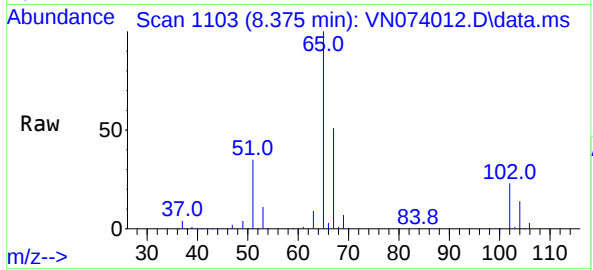




#33
1,2-Dichloroethane-d4
Concen: 50.613 ug/l
RT: 8.375 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

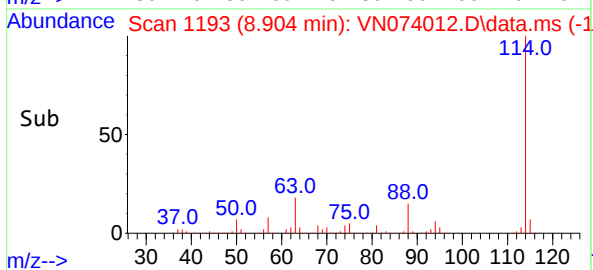
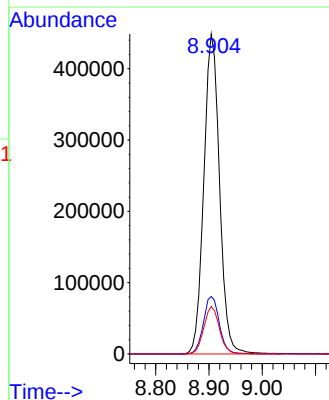
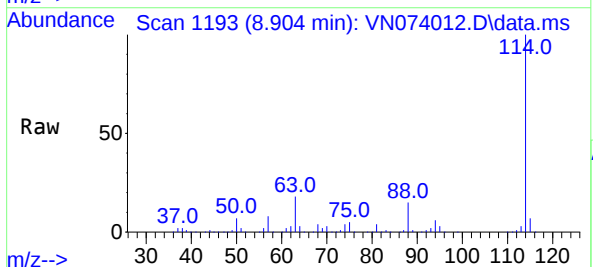
Instrument :
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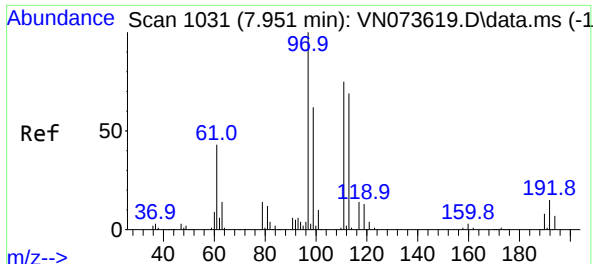
Tgt Ion: 65 Resp: 304619
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.904 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 114 Resp: 919360
Ion Ratio Lower Upper
114 100
63 17.9 0.0 40.0
88 14.9 0.0 32.6

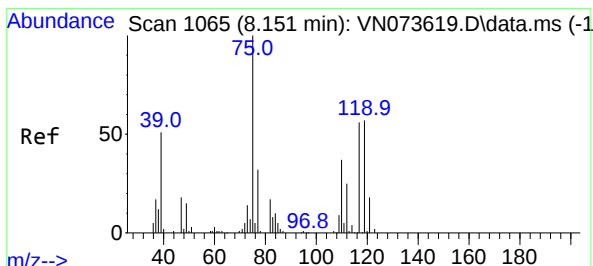
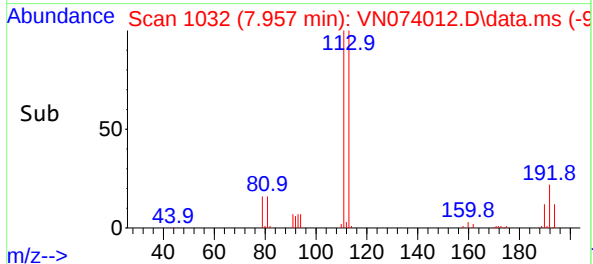
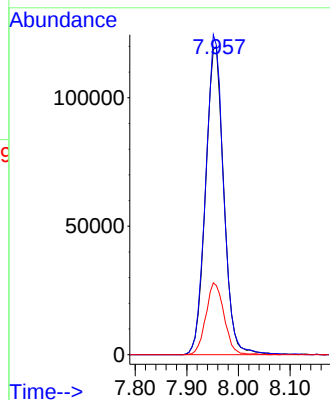
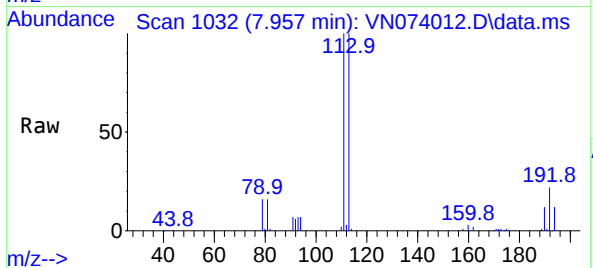




#35
Dibromofluoromethane
Concen: 54.081 ug/l
RT: 7.957 min Scan# 1031
Delta R.T. 0.006 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

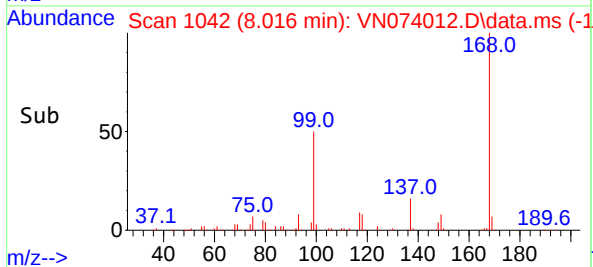
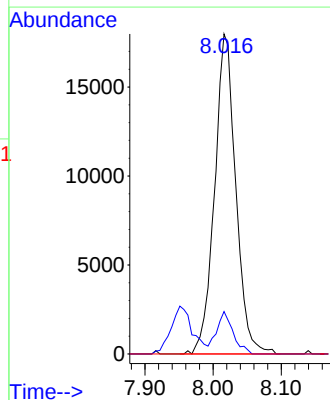
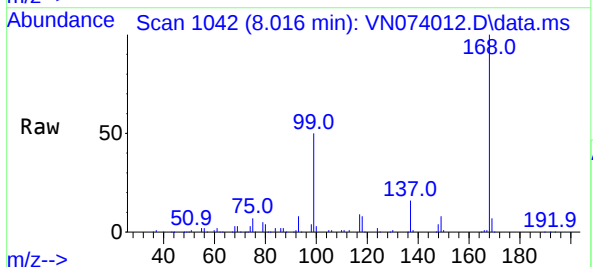
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

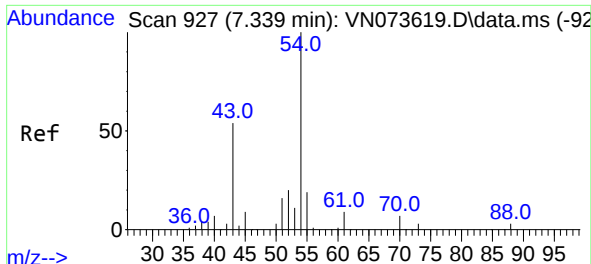
Tgt Ion:113 Resp: 294040
Ion Ratio Lower Upper
113 100
111 101.9 81.4 122.0
192 23.2 17.0 25.6



#36
1,1-Dichloropropene
Concen: 5.156 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.135 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 75 Resp: 38940
Ion Ratio Lower Upper
75 100
110 10.3 18.3 54.8#
77 0.0 25.1 37.7#

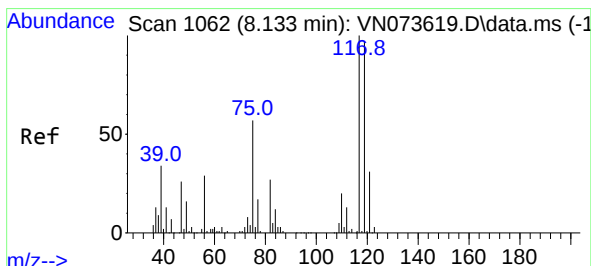
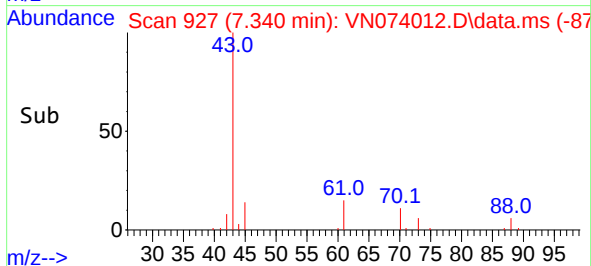
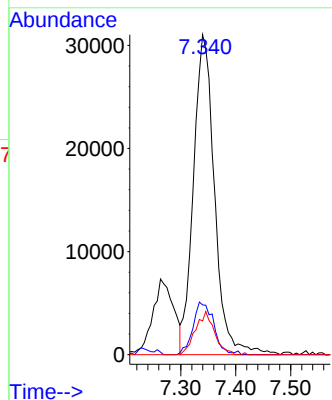
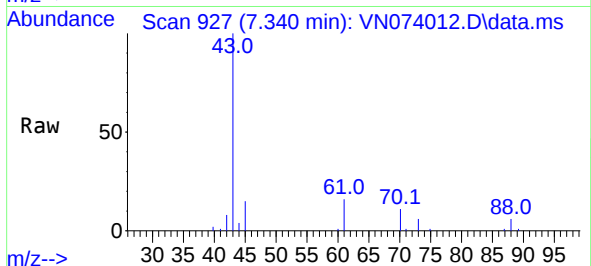




#37
Ethyl Acetate
Concen: 9.033 ug/l
RT: 7.340 min Scan# 91
Delta R.T. 0.001 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

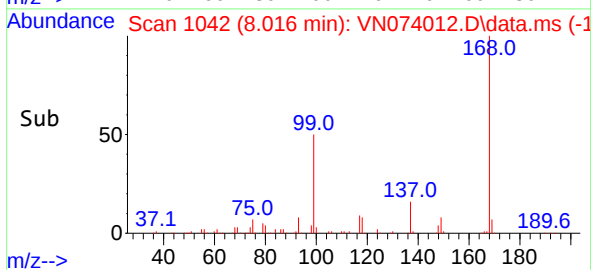
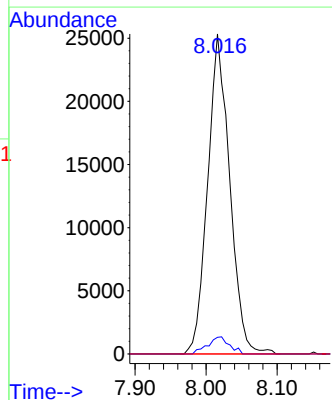
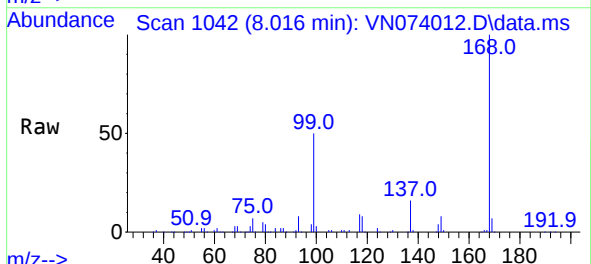
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

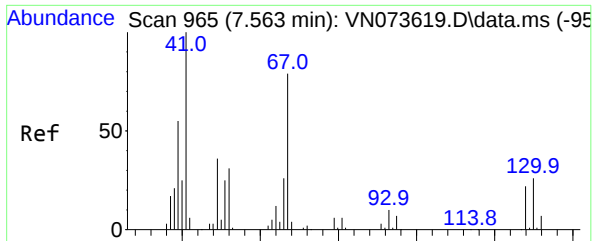
Tgt Ion:	43	Resp:	82639
Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.8	17.6
70	12.2	9.3	13.9



#38
Carbon Tetrachloride
Concen: 6.333 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.117 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

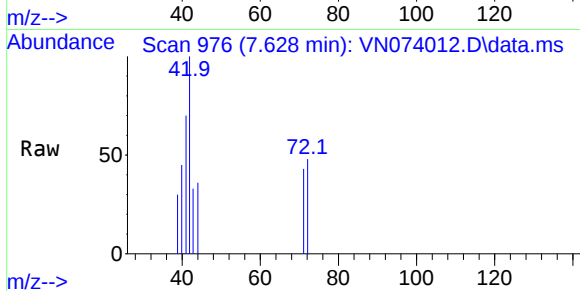
Tgt Ion:	117	Resp:	54663
Ion	Ratio	Lower	Upper
117	100		
119	5.2	75.8	113.8#
121	0.0	24.6	37.0#





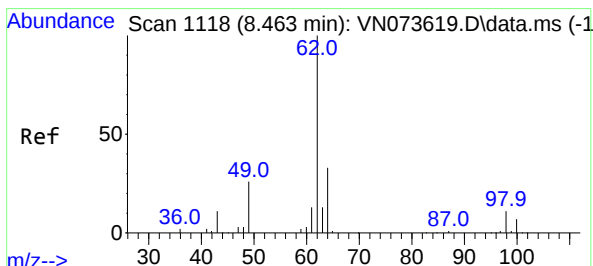
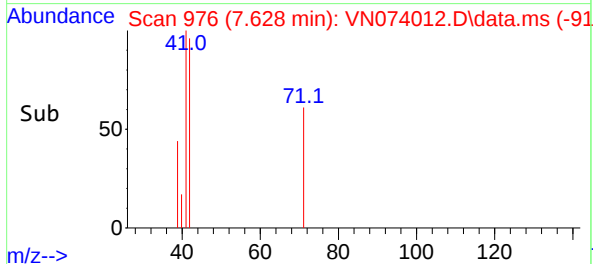
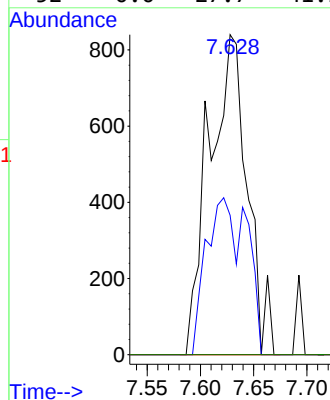
#41
Methacrylonitrile
Concen: 0.504 ug/l
RT: 7.628 min Scan# 91
Delta R.T. 0.065 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Instrument :
MSVOA_N
ClientSampleId :
TP2-0816



Tgt Ion: 41 Resp: 2084

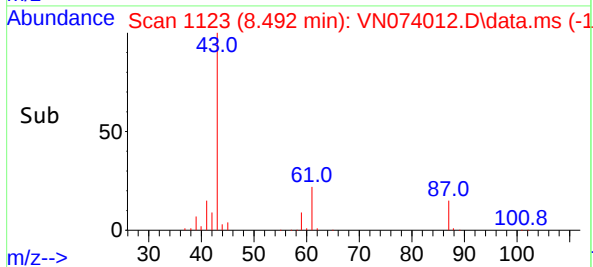
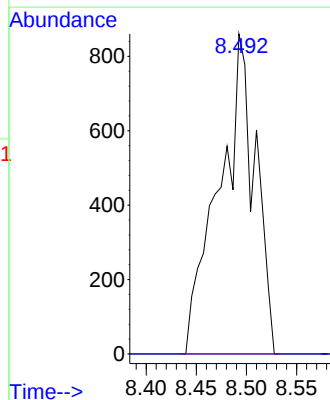
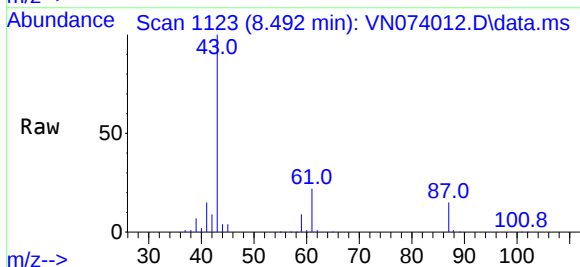
Ion	Ratio	Lower	Upper
41	100		
39	36.4	48.6	73.0#
67	0.0	73.4	110.2#
52	0.0	27.7	41.5#

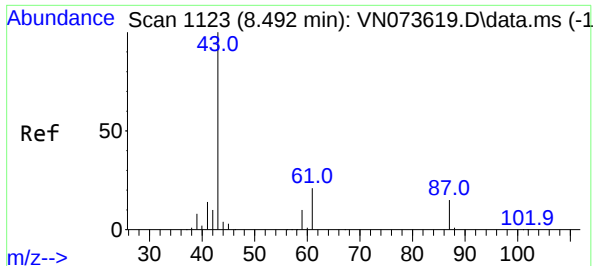


#42
1,2-Dichloroethane
Concen: 0.264 ug/l
RT: 8.492 min Scan# 1123
Delta R.T. 0.029 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 62 Resp: 2162

Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	19.4

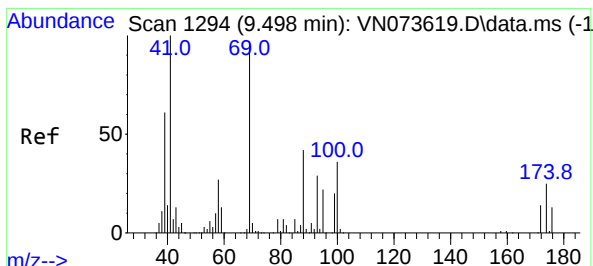
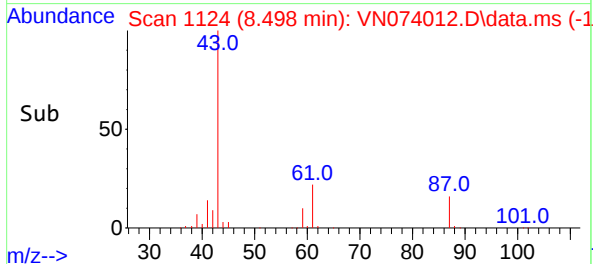
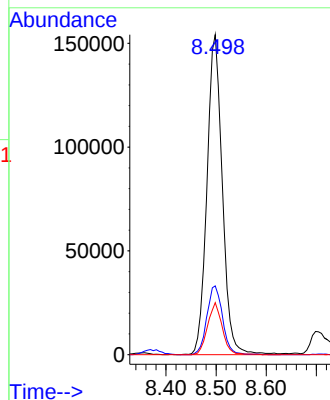
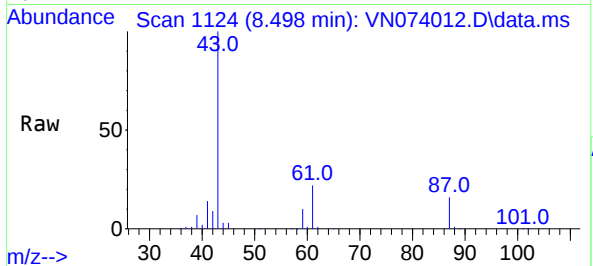




#43
Isopropyl Acetate
Concen: 25.222 ug/l
RT: 8.498 min Scan# 1123
Delta R.T. 0.006 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

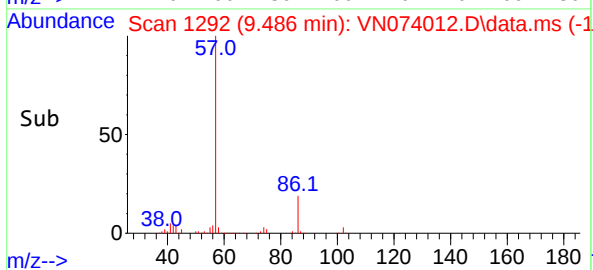
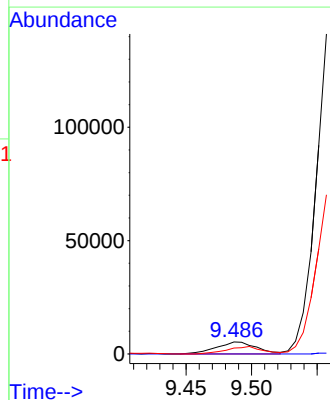
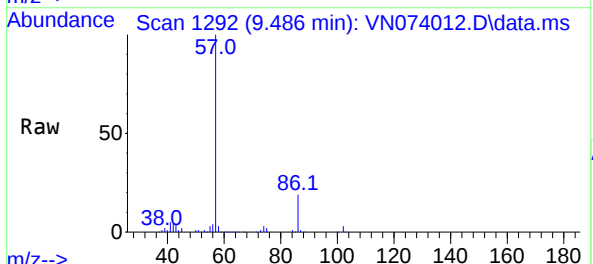
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

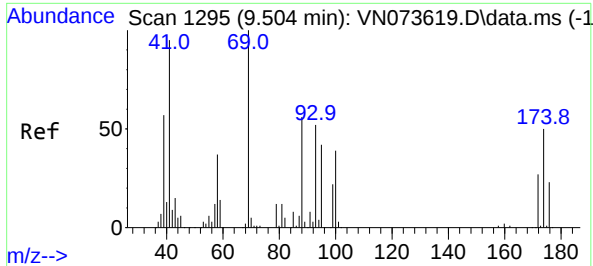
Tgt Ion: 43 Resp: 328730
Ion Ratio Lower Upper
43 100
61 21.8 21.9 32.9#
87 15.4 12.0 18.0



#48
Methyl methacrylate
Concen: 2.027 ug/l
RT: 9.486 min Scan# 1292
Delta R.T. -0.012 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 41 Resp: 11306
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 54.3 45.6 68.4

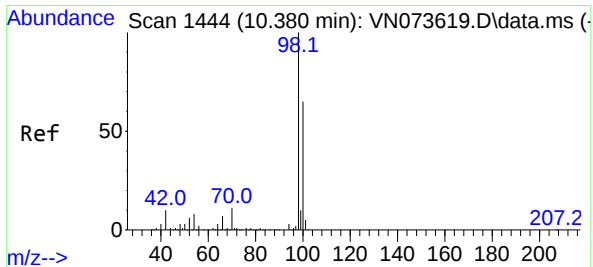
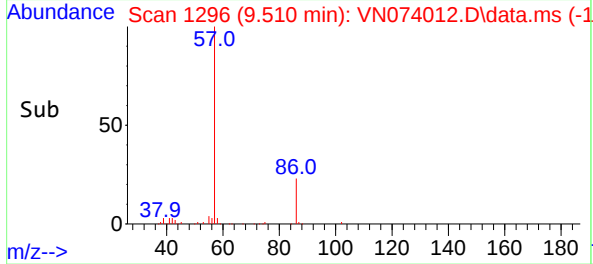
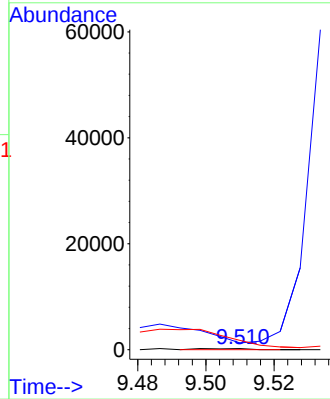
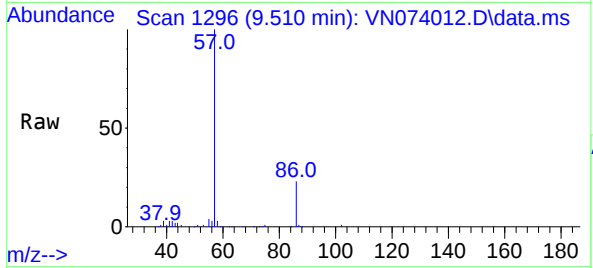




#49
1,4-Dioxane
Concen: 1.194 ug/l
RT: 9.510 min Scan# 1295
Delta R.T. 0.006 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

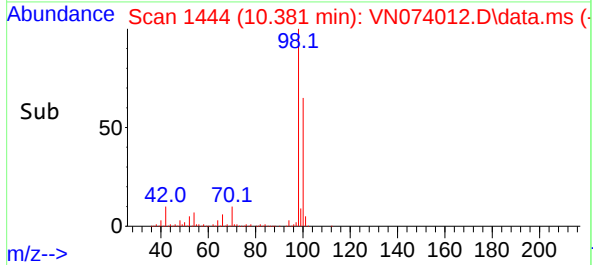
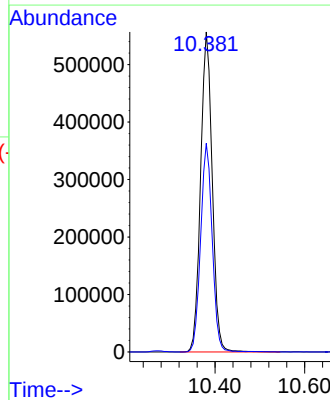
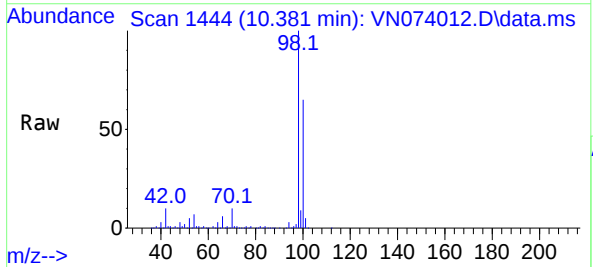
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

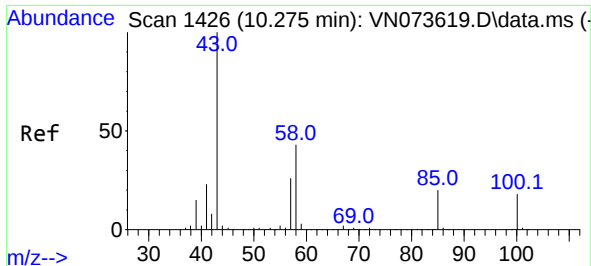
Tgt Ion: 88 Resp: 198
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 0.0 54.2 81.4#



#50
Toluene-d8
Concen: 47.476 ug/l
RT: 10.381 min Scan# 1444
Delta R.T. 0.001 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 98 Resp: 999715
Ion Ratio Lower Upper
98 100
100 64.8 52.6 78.8

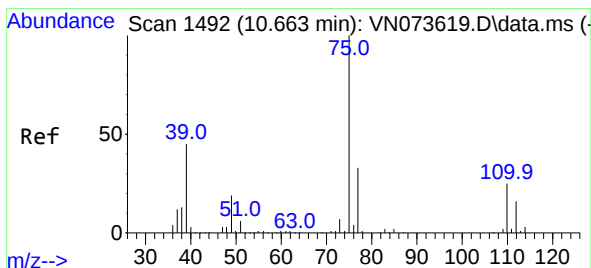
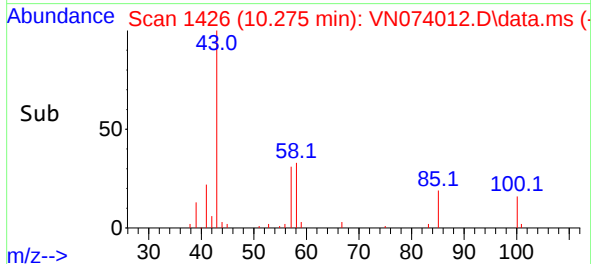
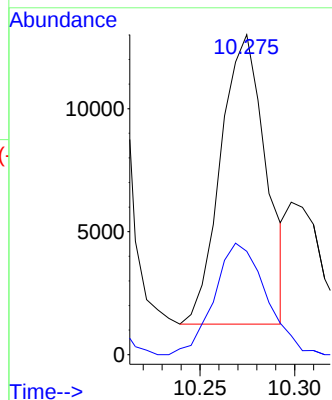
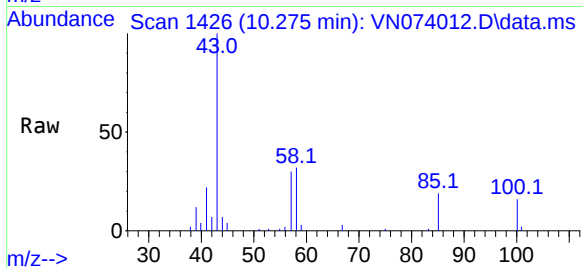




#51
4-Methyl-2-Pentanone
Concen: 2.220 ug/l
RT: 10.275 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

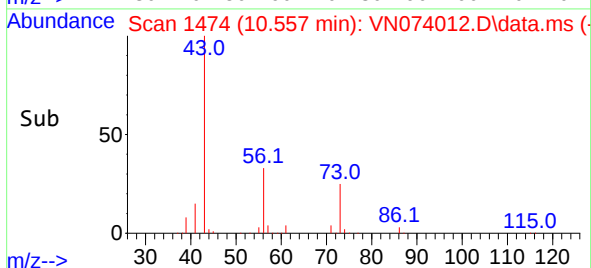
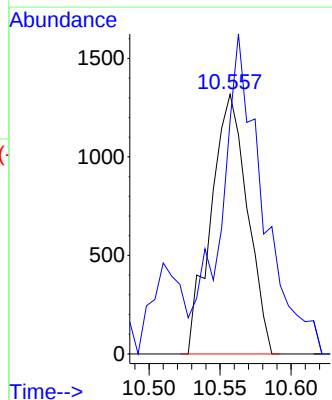
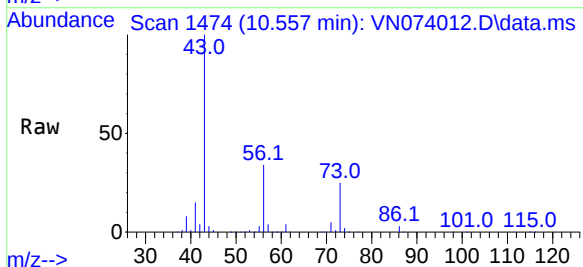
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

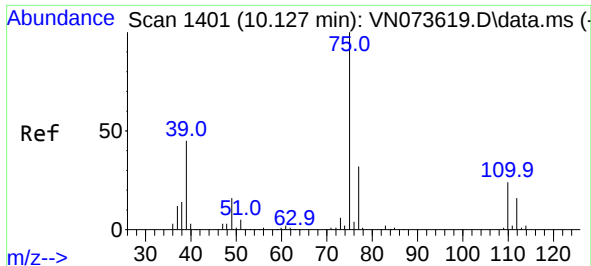
Tgt Ion: 43 Resp: 19566
Ion Ratio Lower Upper
43 100
58 44.1 34.1 51.1



#53
t-1,3-Dichloropropene
Concen: 0.269 ug/l
RT: 10.557 min Scan# 1474
Delta R.T. -0.106 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 75 Resp: 2342
Ion Ratio Lower Upper
75 100
77 63.4 25.6 38.4#

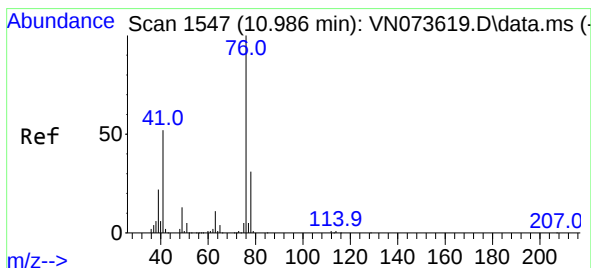
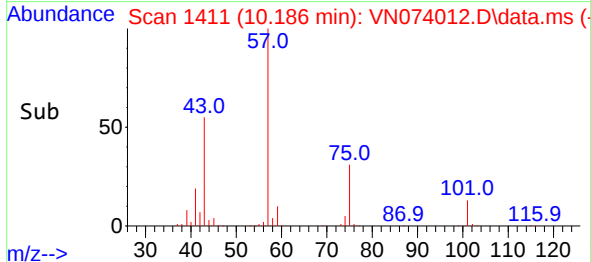
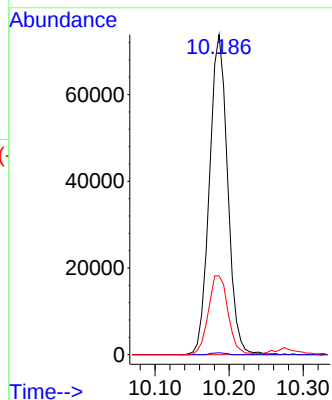
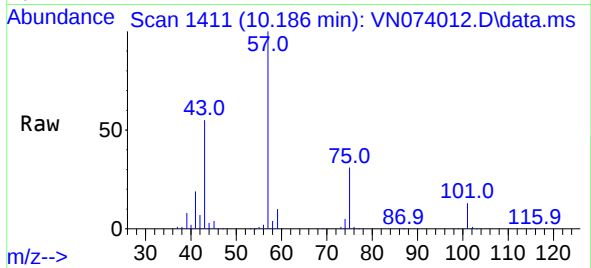




#54
cis-1,3-Dichloropropene
Concen: 13.213 ug/l
RT: 10.186 min Scan# 14
Delta R.T. 0.059 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

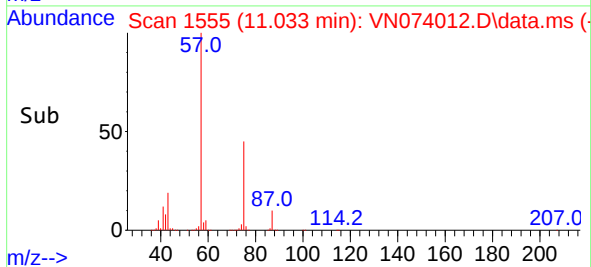
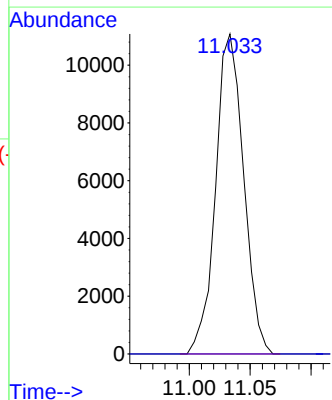
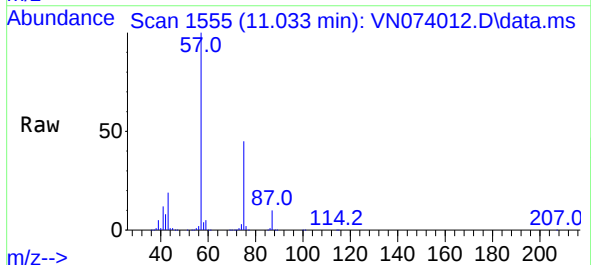
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

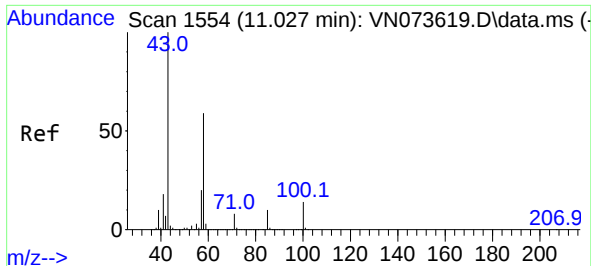
Tgt Ion: 75 Resp: 125938
Ion Ratio Lower Upper
75 100
77 0.6 25.2 37.8#
39 24.7 35.7 53.5#



#57
1,3-Dichloropropane
Concen: 1.717 ug/l
RT: 11.033 min Scan# 1555
Delta R.T. 0.047 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 76 Resp: 17752
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#

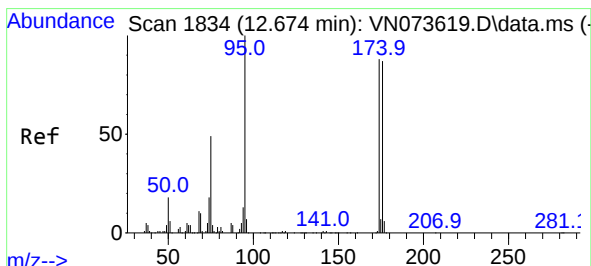
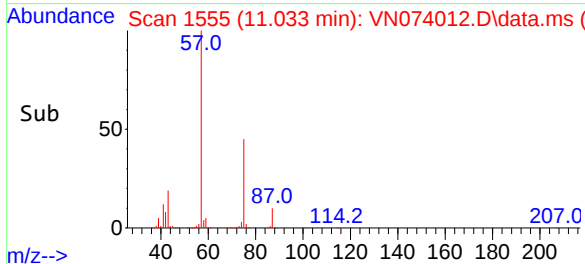
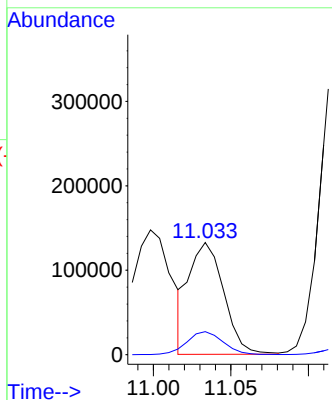
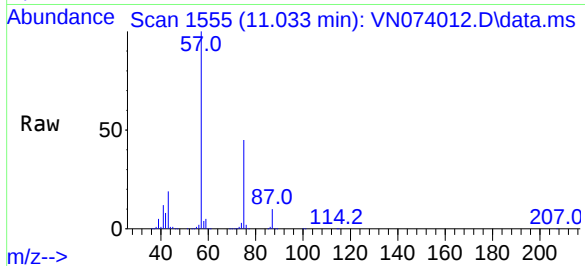




#59
2-Hexanone
Concen: 30.402 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

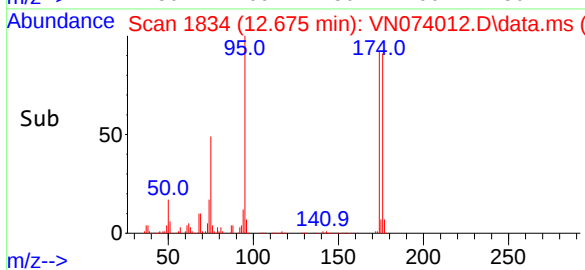
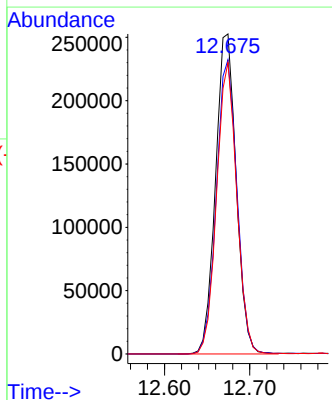
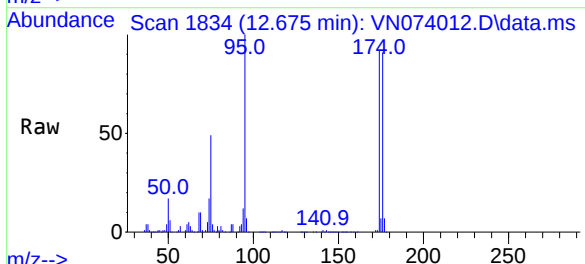
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

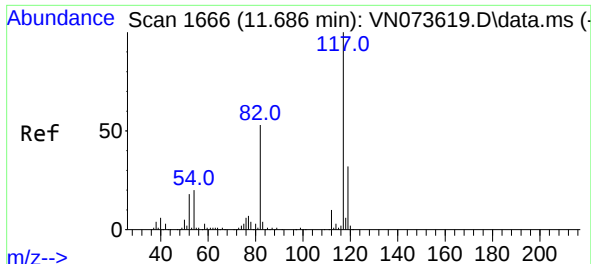
Tgt Ion: 43 Resp: 206177
Ion Ratio Lower Upper
43 100
58 21.8 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 61.023 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. 0.001 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

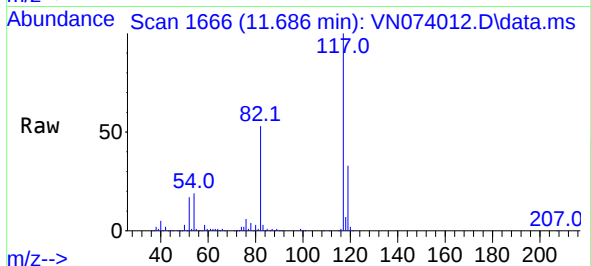
Tgt Ion: 95 Resp: 426455
Ion Ratio Lower Upper
95 100
174 91.7 0.0 167.6
176 88.5 0.0 163.4



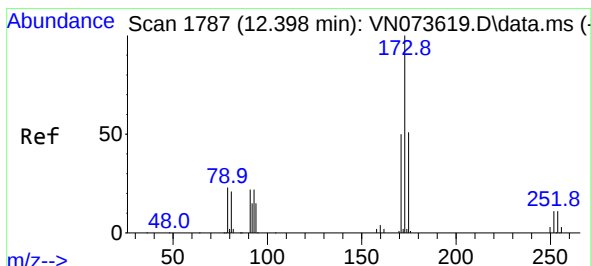
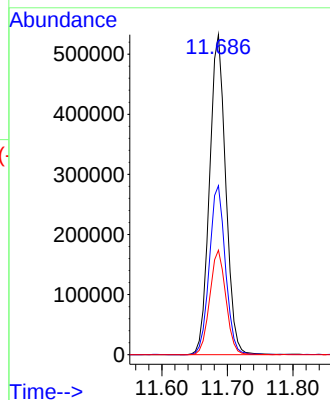
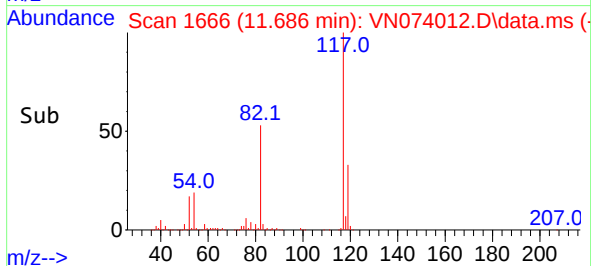


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

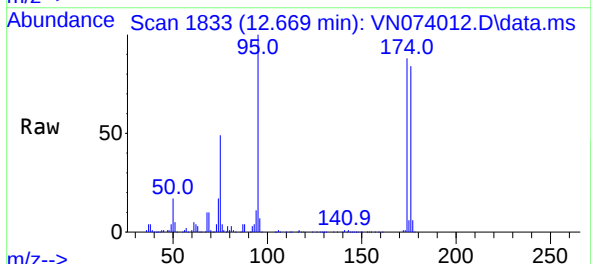
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816



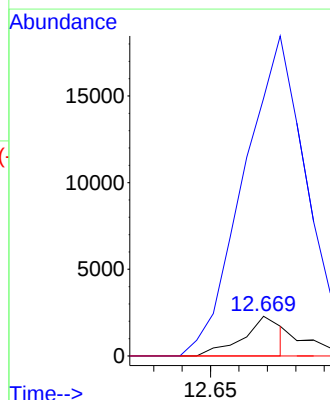
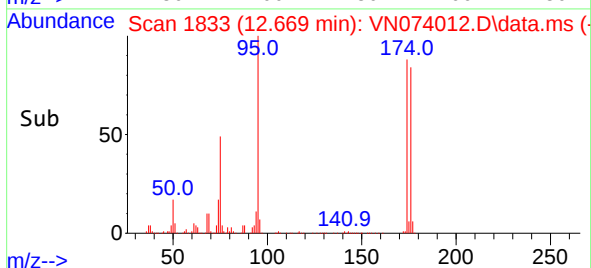
Tgt Ion:117 Resp: 915609
Ion Ratio Lower Upper
117 100
82 52.8 44.2 66.2
119 32.6 25.4 38.0

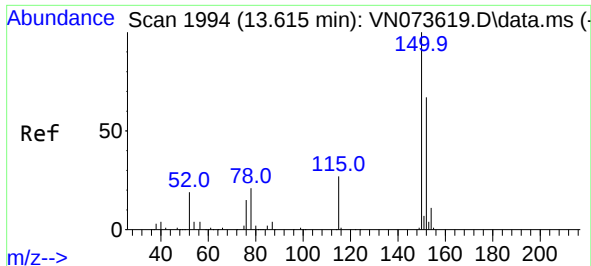


#71
Bromoform
Concen: 0.332 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15



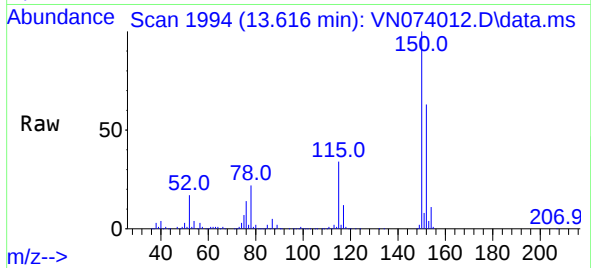
Tgt Ion:173 Resp: 2184
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#



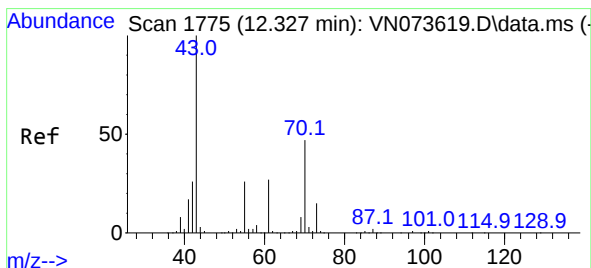
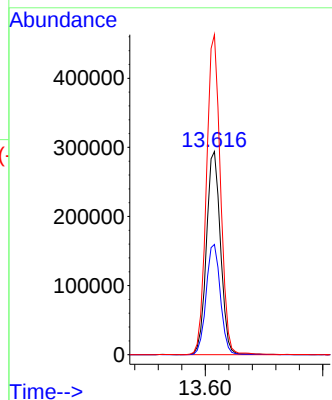
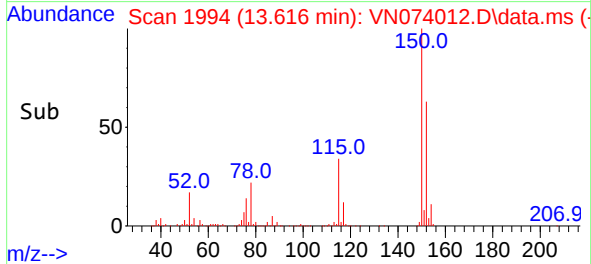


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.001 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

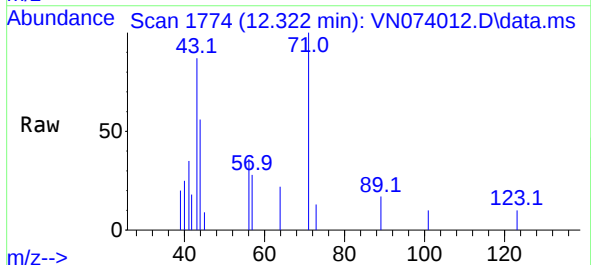
Instrument :
MSVOA_N
ClientSampleId :
TP2-0816



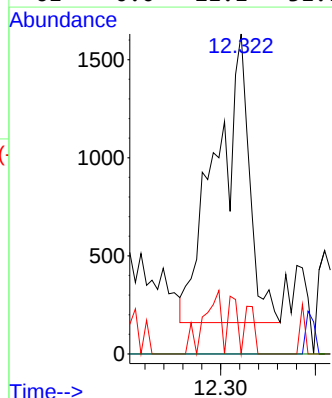
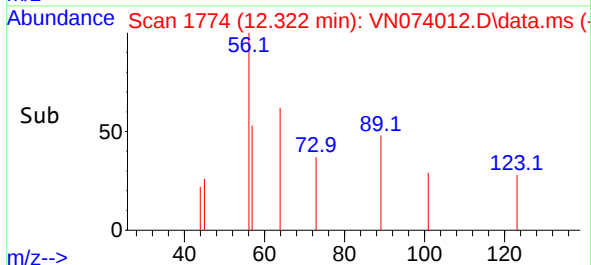
Tgt Ion:152 Resp: 489900
Ion Ratio Lower Upper
152 100
115 55.0 28.9 86.7
150 156.7 0.0 356.2

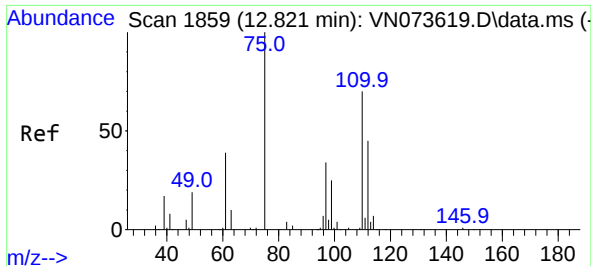


#74
N-ethyl acetate
Concen: 0.268 ug/l
RT: 12.322 min Scan# 1774
Delta R.T. -0.005 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15



Tgt Ion: 43 Resp: 3618
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 4.7 21.1 31.7#
61 0.0 21.1 31.7#

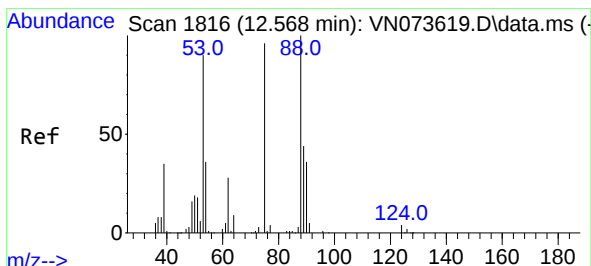
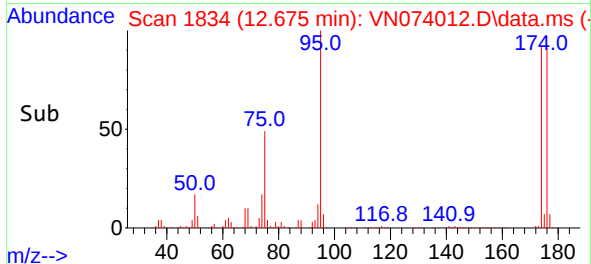
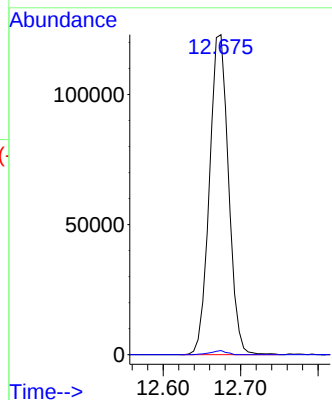
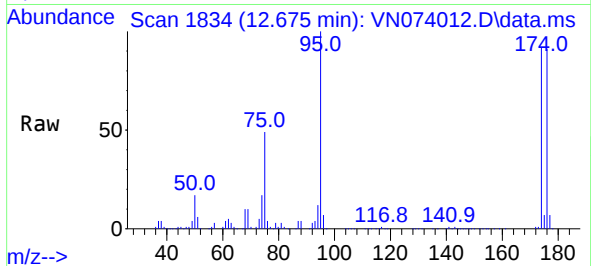




#76
1,2,3-Trichloropropane
Concen: 20.650 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. -0.146 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Instrument :
MSVOA_N
ClientSampleId :
TP2-0816

Tgt Ion: 75 Resp: 210274
Ion Ratio Lower Upper
75 100
77 1.1 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.734 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. 0.107 min
Lab File: VN074012.D
Acq: 18 Aug 2022 18:15

Tgt Ion: 75 Resp: 210274
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#

