

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120722\
 Data File : VN075617.D
 Acq On : 07 Dec 2022 19:31
 Operator : JC\MD
 Sample : N5897-18
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 21G4

Quant Time: Dec 08 00:23:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112122W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 23 00:18:03 2022
 Response via : Initial Calibration

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

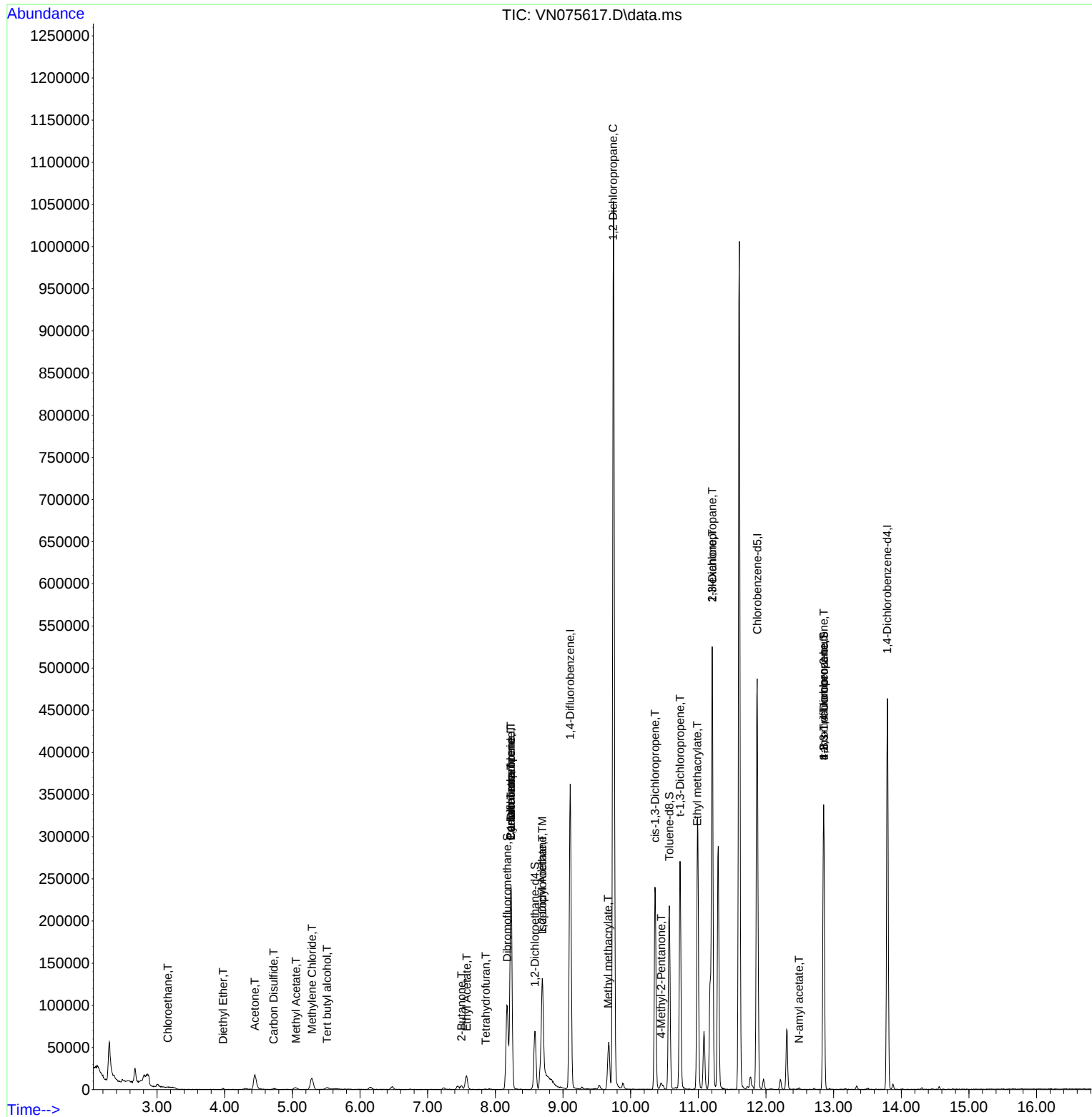
Internal Standards						
1) Pentafluorobenzene	8.230	168	195488	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	332353	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	303303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	134576	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	57191	54.501	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.000%			
35) Dibromofluoromethane	8.177	113	71815	55.006	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.020%			
50) Toluene-d8	10.571	98	158294	53.831	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.660%			
62) 4-Bromofluorobenzene	12.853	95	114558	52.781	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.560%			
Target Compounds					Qvalue	
6) Chloroethane	3.159	64	552	0.311	ug/l #	45
8) Diethyl Ether	3.977	74	472	0.402	ug/l	56
11) Tert butyl alcohol	5.512	59	1862	4.227	ug/l #	72
16) Acetone	4.447	43	33401	34.125	ug/l	99
17) Carbon Disulfide	4.724	76	1746	0.371	ug/l #	74
18) Methyl Acetate	5.053	43	4933	0.723	ug/l	99
20) Methylene Chloride	5.289	84	11208	4.483	ug/l	91
25) 2-Butanone	7.500	43	7000	5.123	ug/l	98
29) Tetrahydrofuran	7.859	42	519	0.624	ug/l #	26
31) Cyclohexane	8.230	56	3528	1.058	ug/l #	7
36) 1,1-Dichloropropene	8.230	75	13763	4.834	ug/l #	49
37) Ethyl Acetate	7.577	43	24751	9.654	ug/l	97
38) Carbon Tetrachloride	8.230	117	18996	6.073	ug/l #	15
42) 1,2-Dichloroethane	8.694	62	620	0.212	ug/l #	75
43) Isopropyl Acetate	8.694	43	182746	44.409	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	1289	0.620	ug/l #	42
48) Methyl methacrylate	9.665	41	3334	1.752	ug/l #	33
51) 4-Methyl-2-Pentanone	10.453	43	8330	3.178	ug/l #	69
53) t-1,3-Dichloropropene	10.729	75	710	0.232	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	48442	14.601	ug/l #	60
56) Ethyl methacrylate	10.982	69	839	0.272	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6112	1.638	ug/l #	42
59) 2-Hexanone	11.206	43	56212	28.562	ug/l #	55
74) N-amyl acetate	12.488	43	882	0.292	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	57430	22.570	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	57430	66.781	ug/l #	10

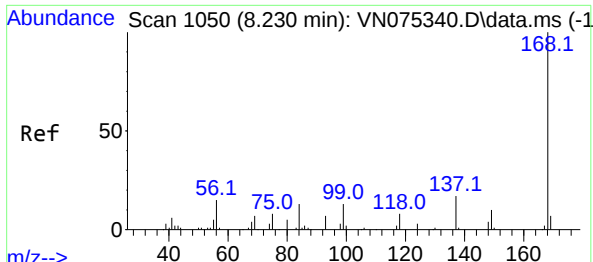
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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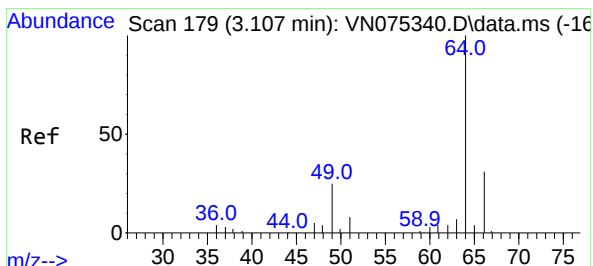
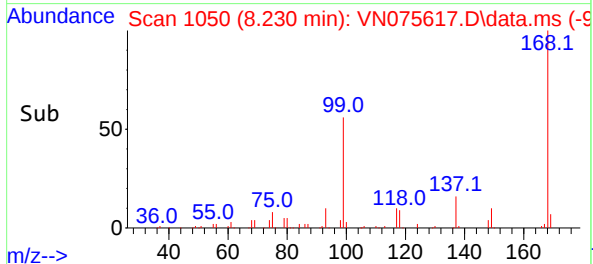
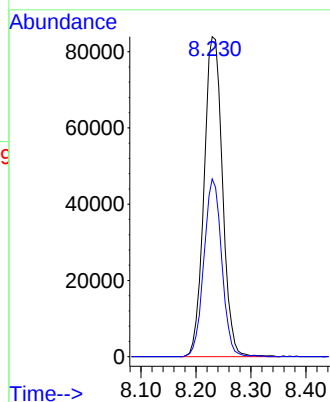
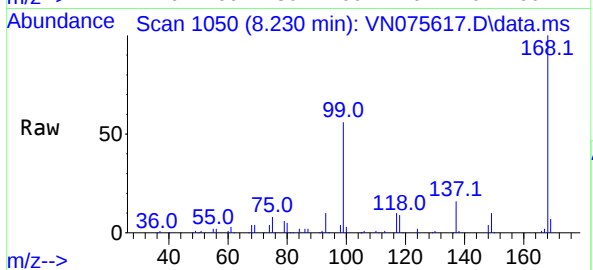




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

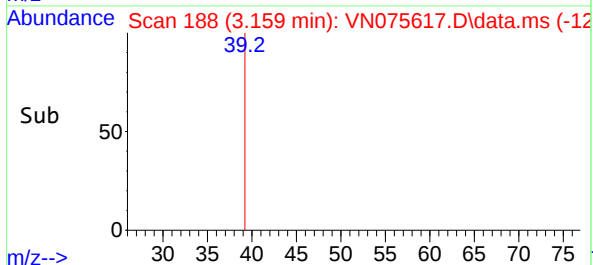
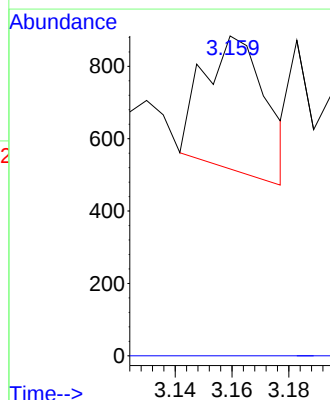
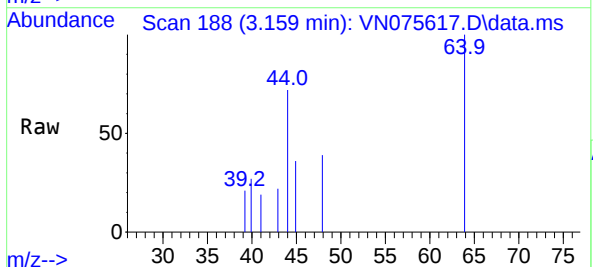
Instrument :
MSVOA_N
ClientSampleId :
21G4

Tgt Ion:168 Resp: 195488
Ion Ratio Lower Upper
168 100
99 55.5 51.6 77.4

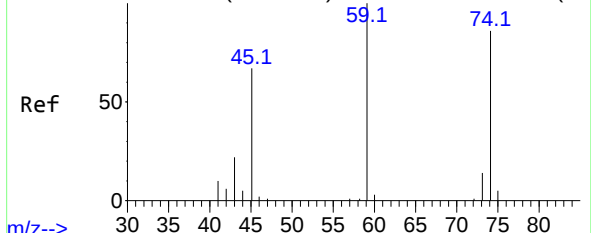


#6
Chloroethane
Concen: 0.311 ug/l
RT: 3.159 min Scan# 188
Delta R.T. 0.052 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

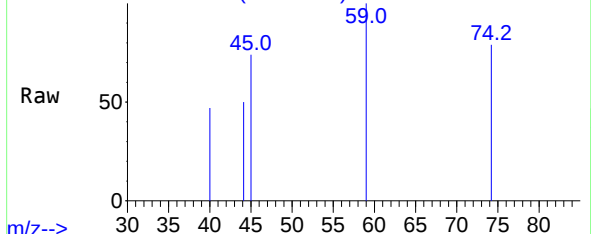
Tgt Ion: 64 Resp: 552
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#



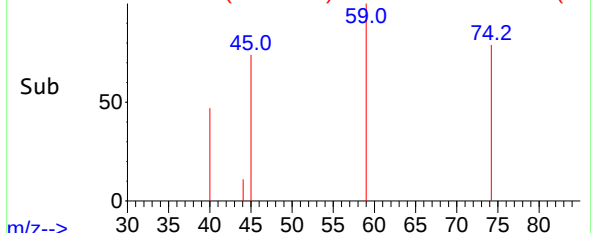
Abundance Scan 325 (3.965 min): VN075340.D\data.ms (-31



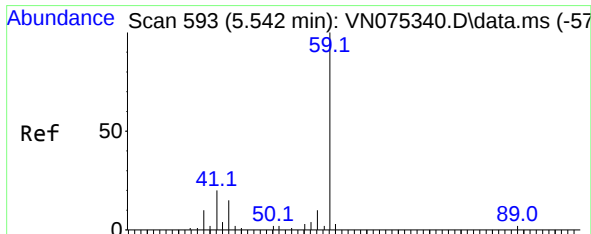
m/z--> Scan 327 (3.977 min): VN075617.D\data.ms



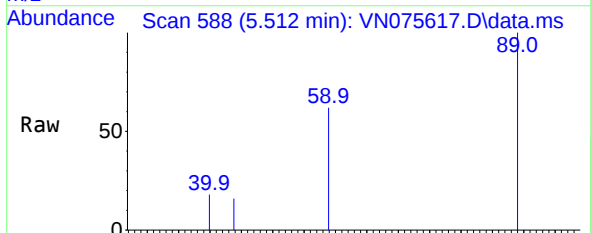
Abundance Scan 327 (3.977 min): VN075617.D\data.ms (-27



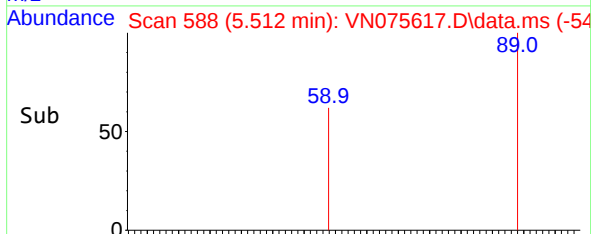
m/z--> Scan 593 (5.542 min): VN075340.D\data.ms (-57



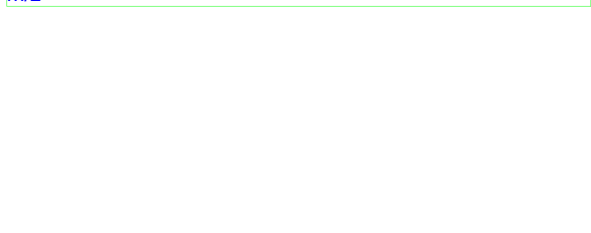
m/z--> Scan 588 (5.512 min): VN075617.D\data.ms



Abundance Scan 588 (5.512 min): VN075617.D\data.ms (-54



m/z--> Scan 588 (5.512 min): VN075617.D\data.ms (-54



m/z--> Scan 588 (5.512 min): VN075617.D\data.ms (-54

m/z--> Scan 588 (5.512 min): VN075617.D\data.ms (-54

#8

Diethyl Ether

Concen: 0.402 ug/l

RT: 3.977 min Scan# 31

Delta R.T. 0.012 min

Lab File: VN075617.D

Acq: 07 Dec 2022 19:31

Instrument :

MSVOA_N

ClientSampleId :

21G4

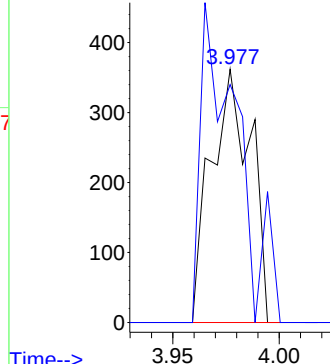
Tgt Ion: 74 Resp: 472

Ion Ratio Lower Upper

74 100

45 116.9 39.3 117.9

Abundance



Time-->

#11

Tert butyl alcohol

Concen: 4.227 ug/l

RT: 5.512 min Scan# 588

Delta R.T. -0.030 min

Lab File: VN075617.D

Acq: 07 Dec 2022 19:31

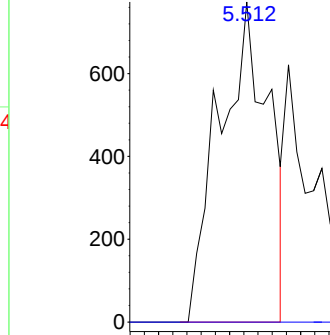
Tgt Ion: 59 Resp: 1862

Ion Ratio Lower Upper

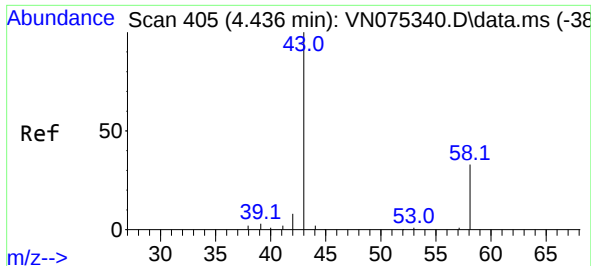
59 100

57 0.0 8.5 12.7#

Abundance



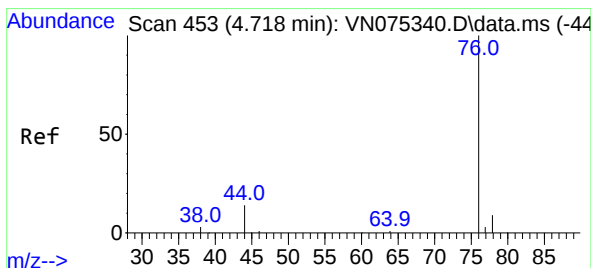
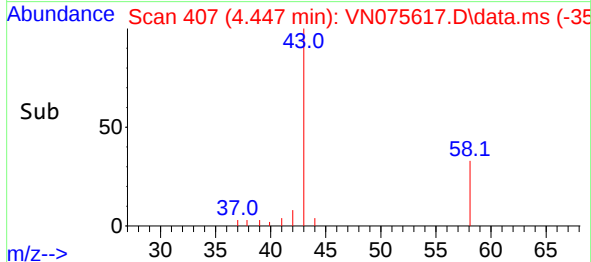
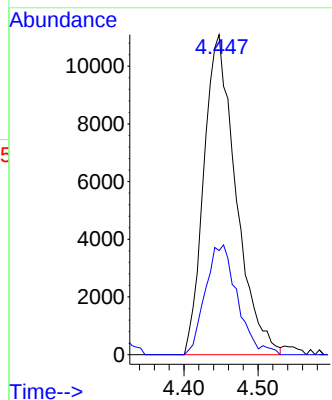
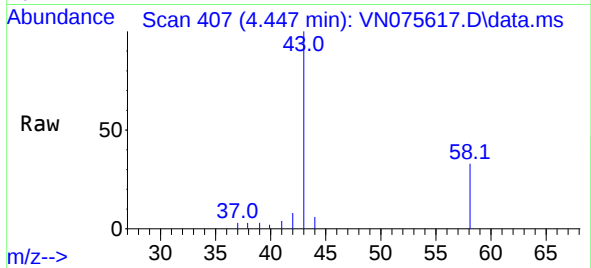
Time-->



#16
Acetone
Concen: 34.125 ug/l
RT: 4.447 min Scan# 405
Delta R.T. 0.011 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

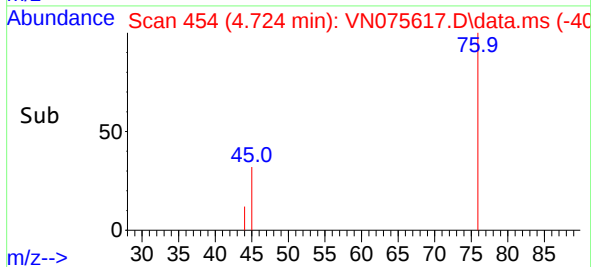
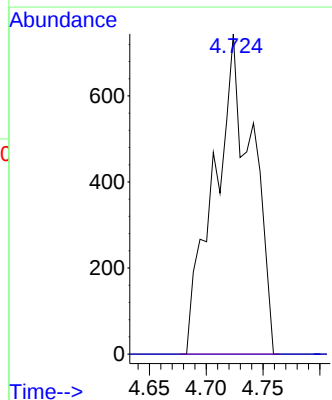
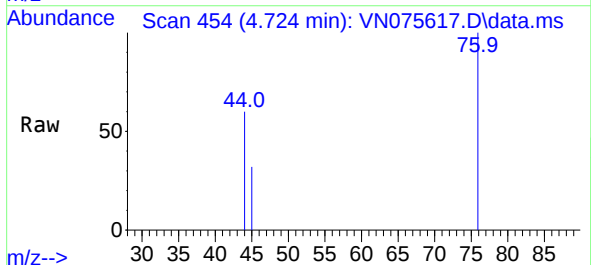
Instrument :
MSVOA_N
ClientSampleId :
21G4

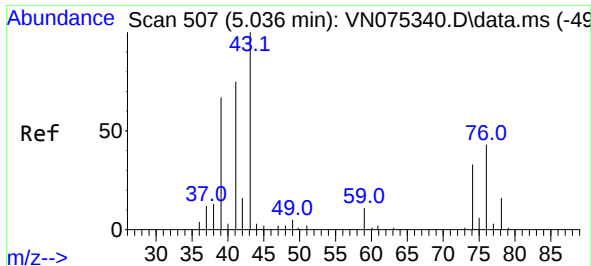
Tgt Ion: 43 Resp: 33401
Ion Ratio Lower Upper
43 100
58 32.5 25.5 38.3



#17
Carbon Disulfide
Concen: 0.371 ug/l
RT: 4.724 min Scan# 454
Delta R.T. 0.006 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 76 Resp: 1746
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#

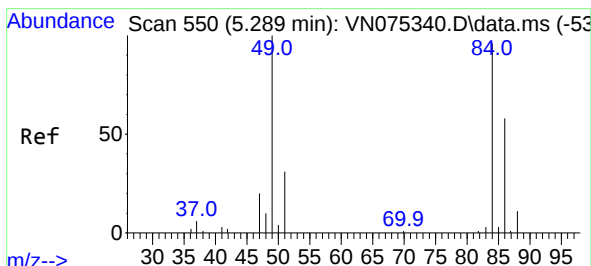
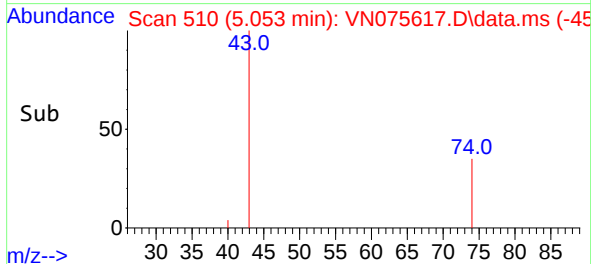
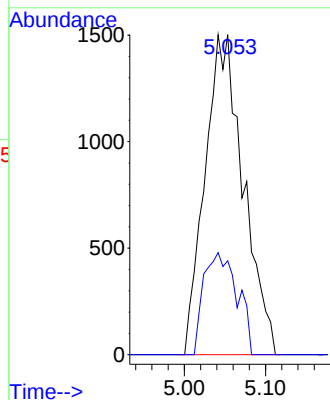
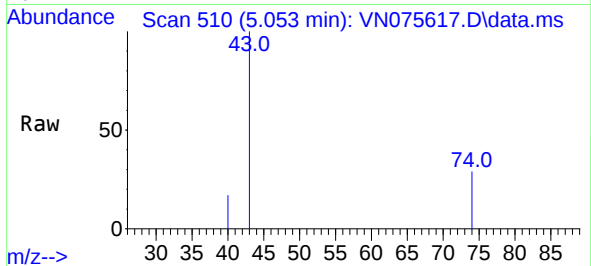




#18
Methyl Acetate
Concen: 0.723 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

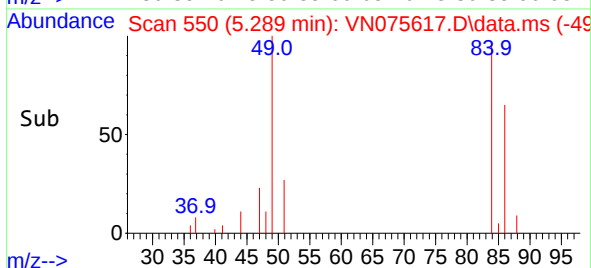
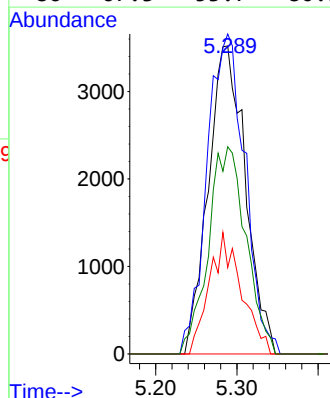
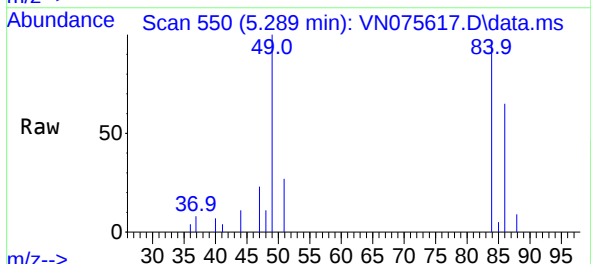
Instrument :
MSVOA_N
ClientSampleId :
21G4

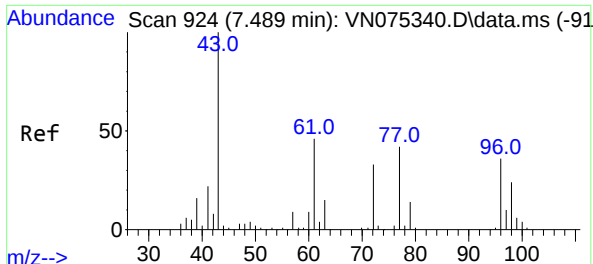
Tgt Ion: 43 Resp: 4933
Ion Ratio Lower Upper
43 100
74 27.8 22.0 33.0



#20
Methylene Chloride
Concen: 4.483 ug/l
RT: 5.289 min Scan# 550
Delta R.T. -0.000 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 84 Resp: 11208
Ion Ratio Lower Upper
84 100
49 103.9 94.9 142.3
51 28.1 26.8 40.2
86 67.3 53.7 80.5

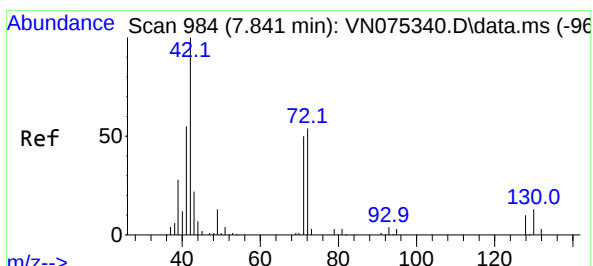
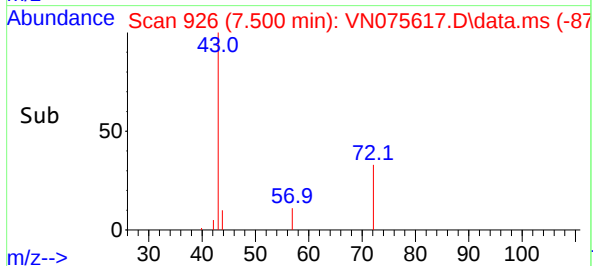
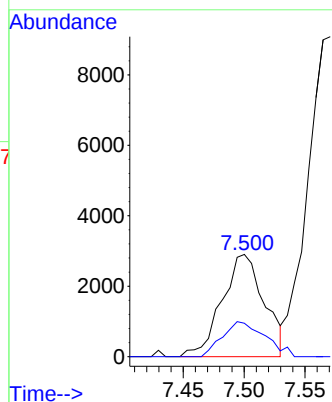
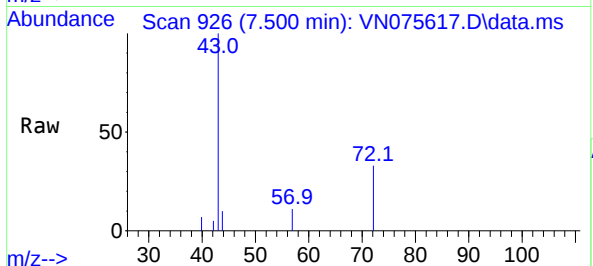




#25
2-Butanone
Concen: 5.123 ug/l
RT: 7.500 min Scan# 91
Delta R.T. 0.011 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

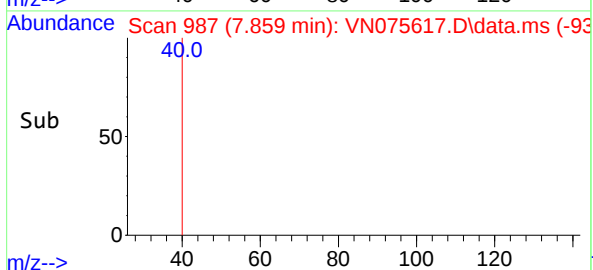
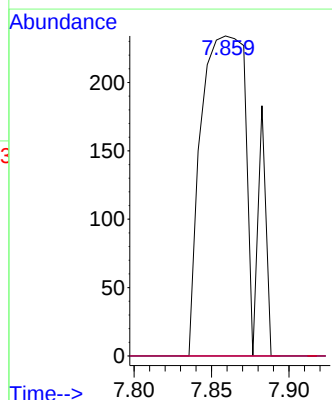
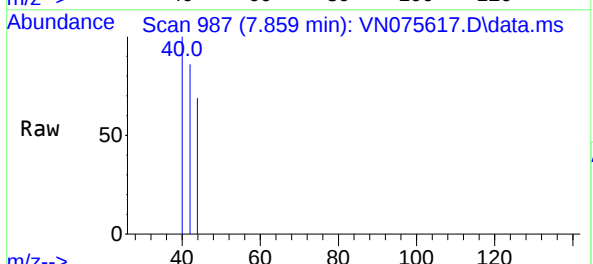
Instrument :
MSVOA_N
ClientSampleId :
21G4

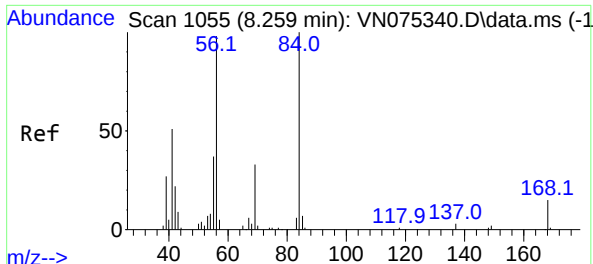
Tgt Ion: 43 Resp: 7000
Ion Ratio Lower Upper
43 100
72 32.8 25.5 38.3



#29
Tetrahydrofuran
Concen: 0.624 ug/l
RT: 7.859 min Scan# 987
Delta R.T. 0.018 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 42 Resp: 519
Ion Ratio Lower Upper
42 100
72 0.0 43.0 64.6#
71 0.0 39.9 59.9#





#31

Cyclohexane

Concen: 1.058 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.029 min

Lab File: VN075617.D

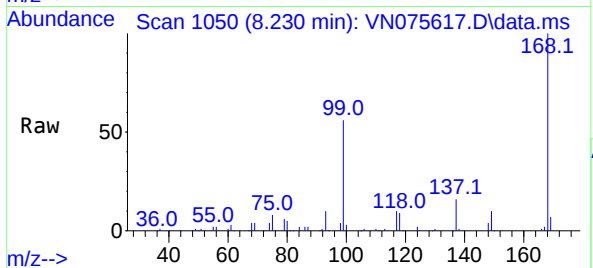
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Instrument :

MSVOA_N

ClientSampleId :

21G4



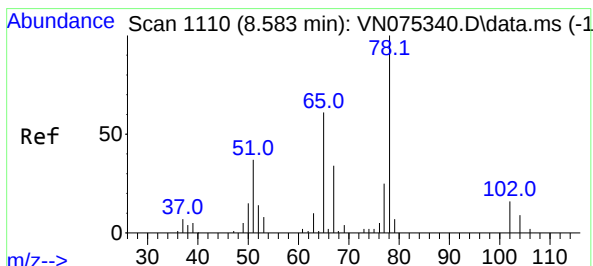
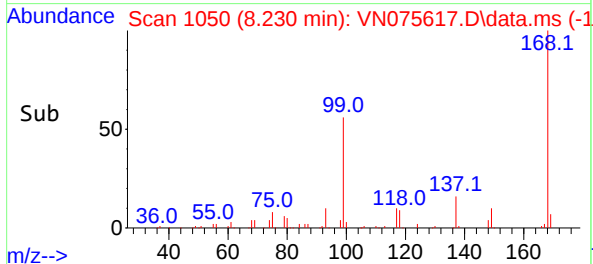
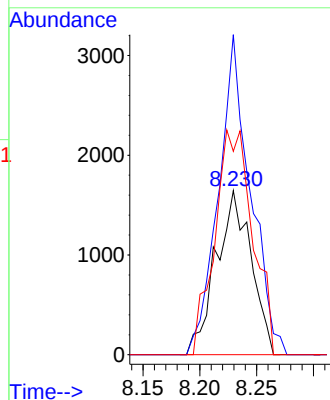
Tgt Ion: 56 Resp: 3528

Ion Ratio Lower Upper

56 100

69 195.2 25.2 37.8#

84 124.1 77.8 116.8#



#33

1,2-Dichloroethane-d4

Concen: 54.501 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.001 min

Lab File: VN075617.D

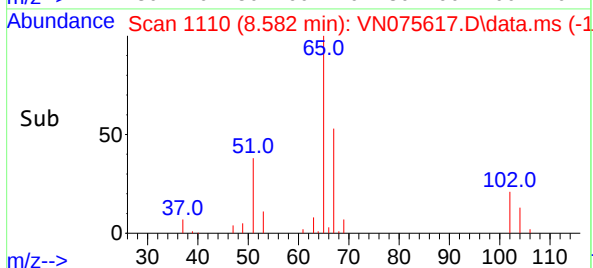
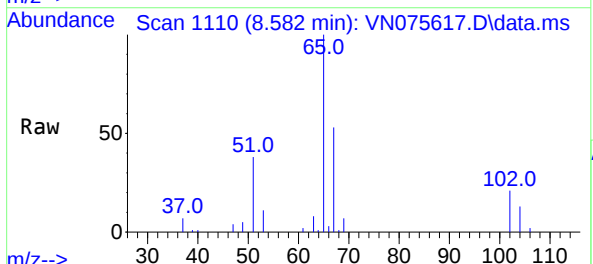
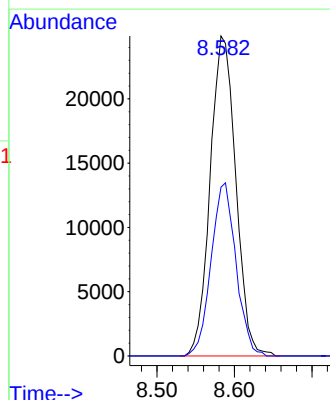
Acq: 07 Dec 2022 19:31

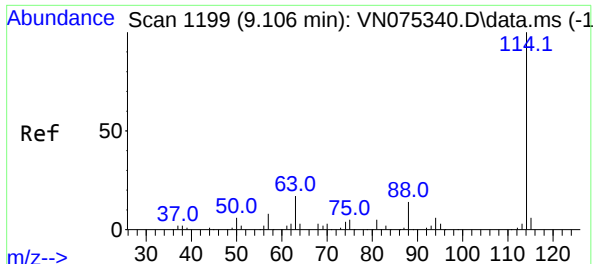
Tgt Ion: 65 Resp: 57191

Ion Ratio Lower Upper

65 100

67 52.5 0.0 102.0

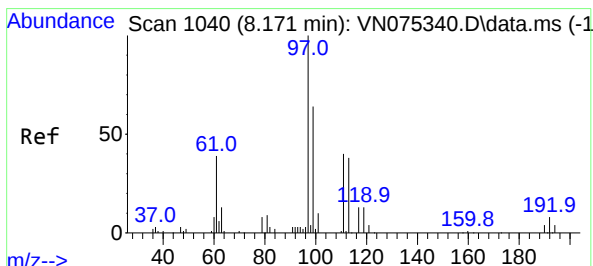
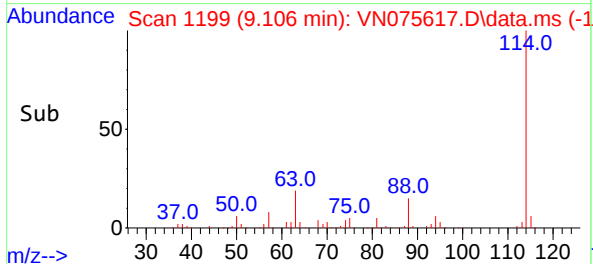
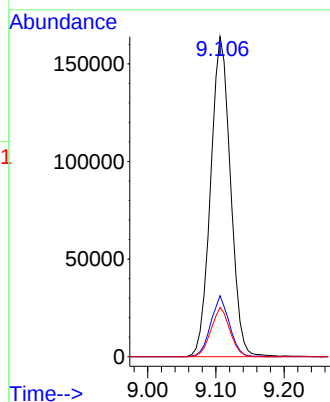
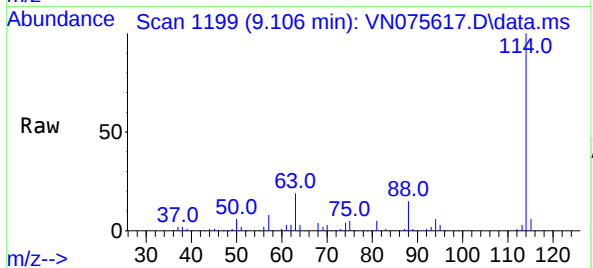




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. -0.000 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

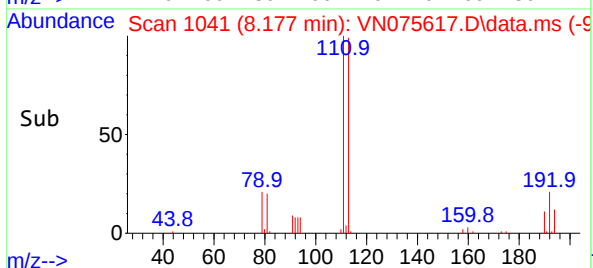
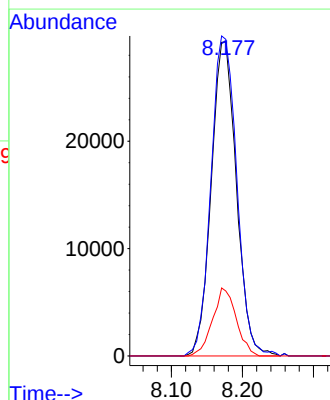
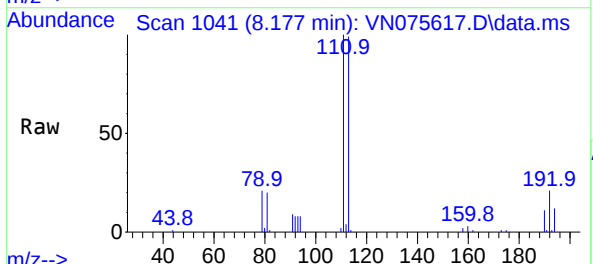
Instrument :
MSVOA_N
ClientSampleId :
21G4

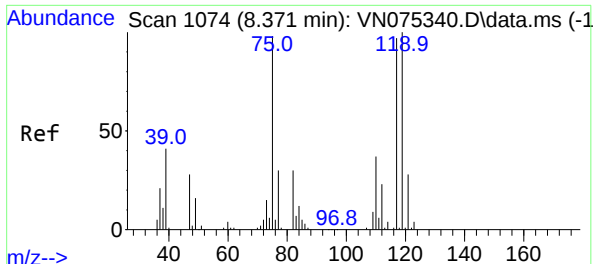
Tgt Ion:114 Resp: 332353
Ion Ratio Lower Upper
114 100
63 19.1 0.0 39.6
88 15.4 0.0 29.0



#35
Dibromofluoromethane
Concen: 55.006 ug/l
RT: 8.177 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

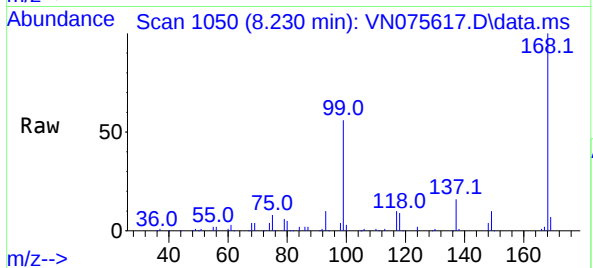
Tgt Ion:113 Resp: 71815
Ion Ratio Lower Upper
113 100
111 104.3 80.5 120.7
192 20.4 13.2 19.8#



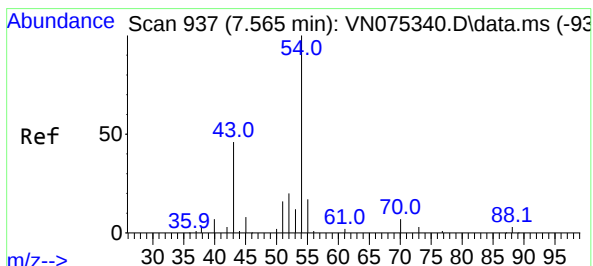
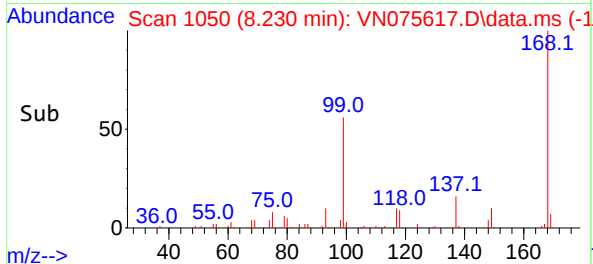
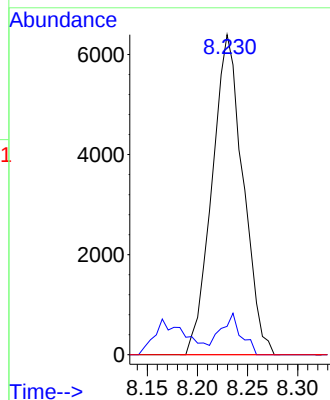


#36
1,1-Dichloropropene
Concen: 4.834 ug/l
RT: 8.230 min Scan# 1074
Delta R.T. -0.141 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Instrument :
MSVOA_N
ClientSampleId :
21G4

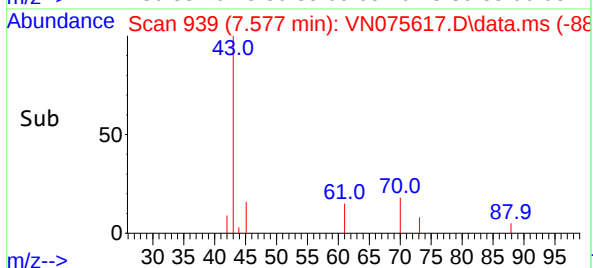
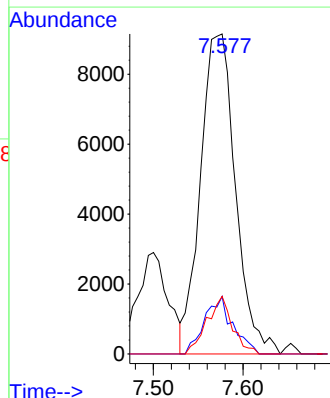
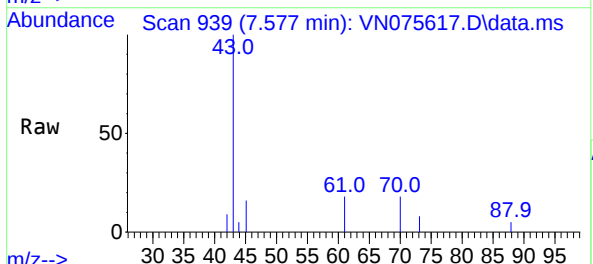


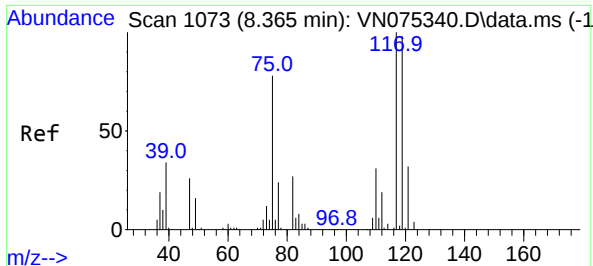
Tgt Ion: 75 Resp: 13763
Ion Ratio Lower Upper
75 100
110 8.5 17.8 53.3#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 9.654 ug/l
RT: 7.577 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

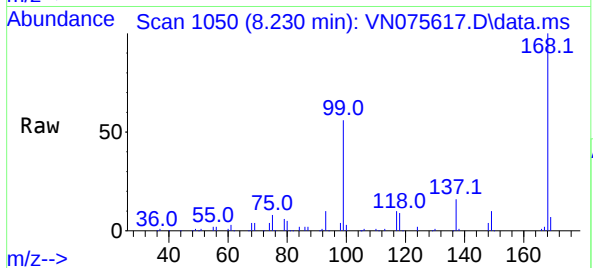
Tgt Ion: 43 Resp: 24751
Ion Ratio Lower Upper
43 100
61 14.5 12.2 18.4
70 13.2 9.4 14.2



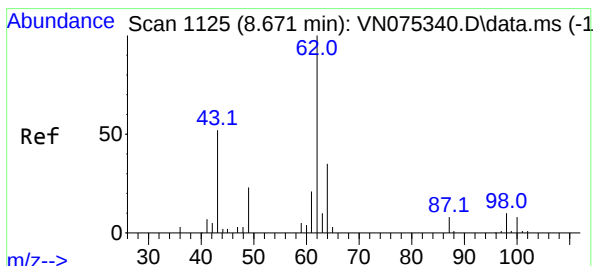
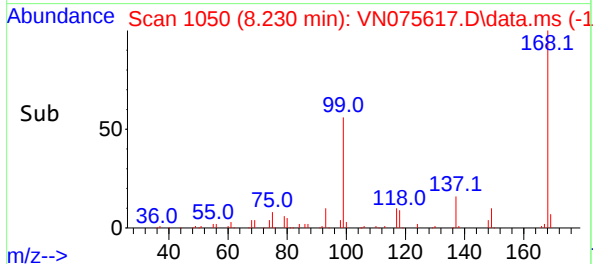
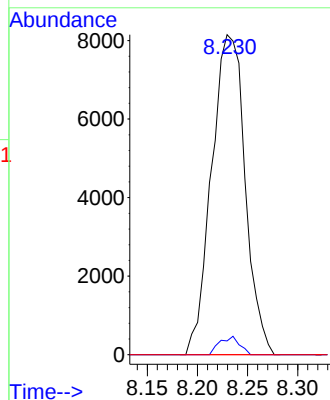


#38
Carbon Tetrachloride
Concen: 6.073 ug/l
RT: 8.230 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Instrument :
MSVOA_N
ClientSampleId :
21G4

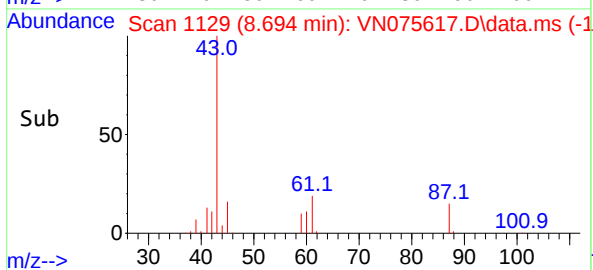
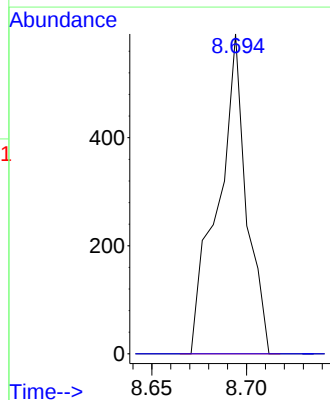
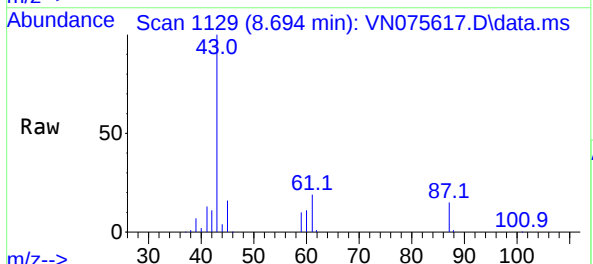


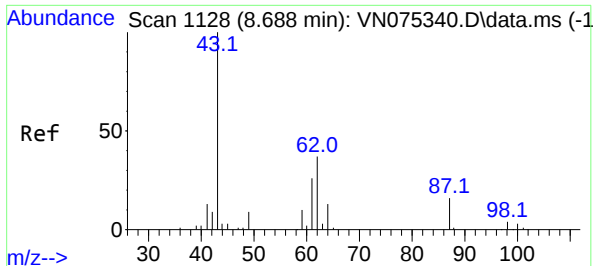
Tgt Ion:117 Resp: 18996
Ion Ratio Lower Upper
117 100
119 4.3 76.7 115.1#
121 0.0 23.9 35.9#



#42
1,2-Dichloroethane
Concen: 0.212 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.023 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 62 Resp: 620
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2

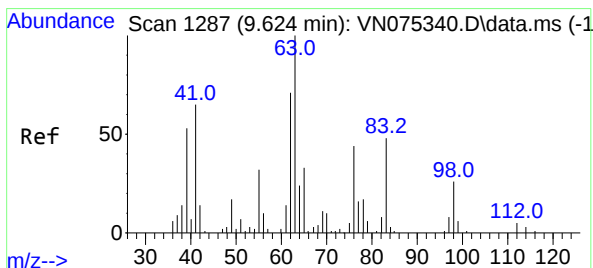
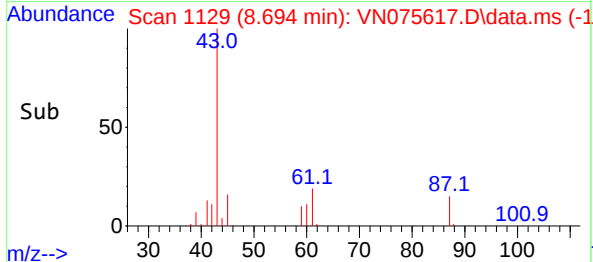
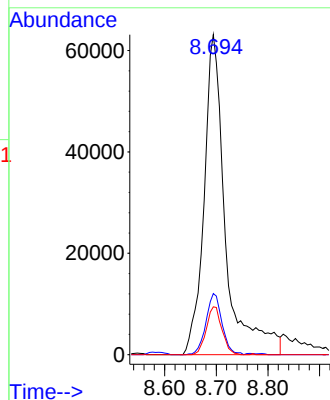
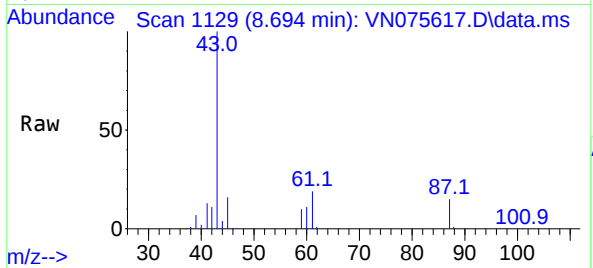




#43
Isopropyl Acetate
Concen: 44.409 ug/l
RT: 8.694 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

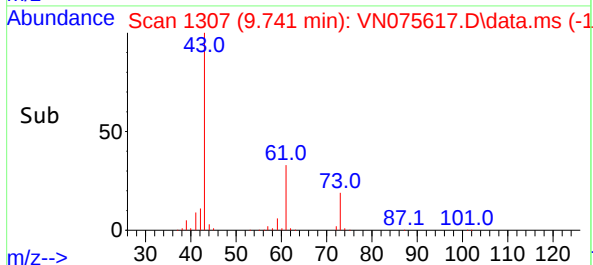
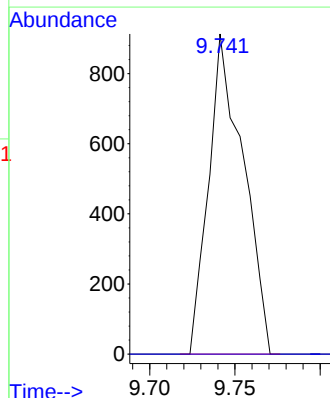
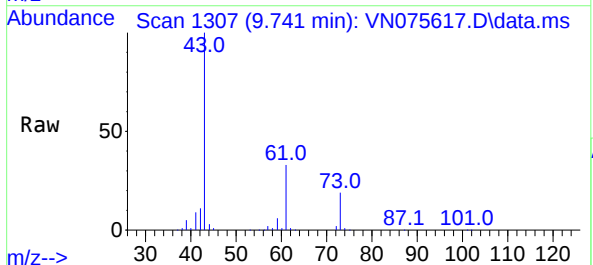
Instrument :
MSVOA_N
ClientSampleId :
21G4

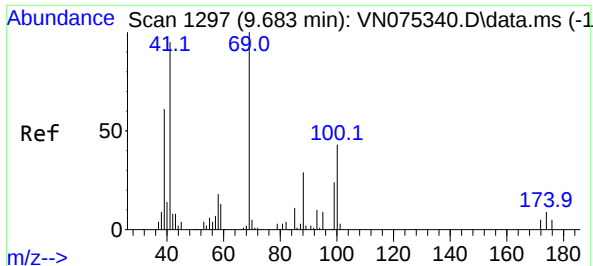
Tgt Ion: 43 Resp: 182746
Ion Ratio Lower Upper
43 100
61 14.2 22.4 33.6#
87 10.8 12.5 18.7#



#45
1,2-Dichloropropane
Concen: 0.620 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.117 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 63 Resp: 1289
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#

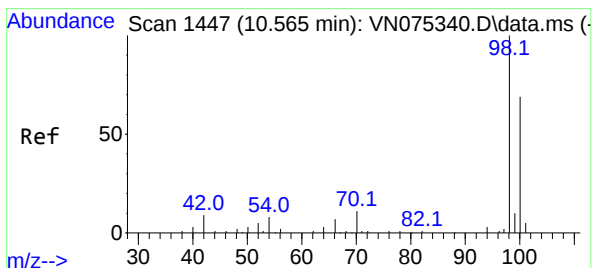
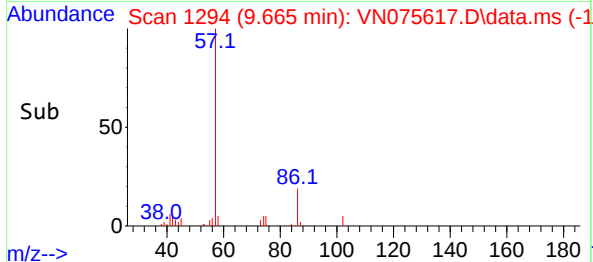
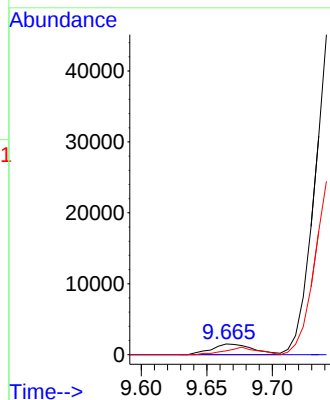
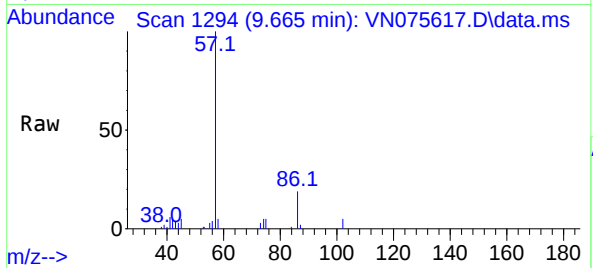




#48
Methyl methacrylate
Concen: 1.752 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

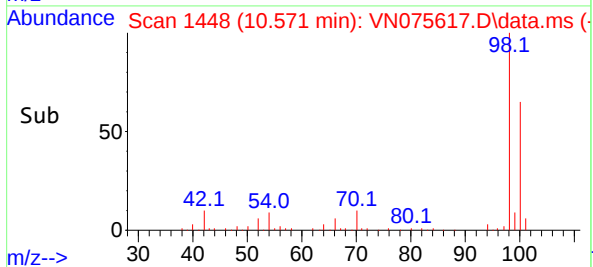
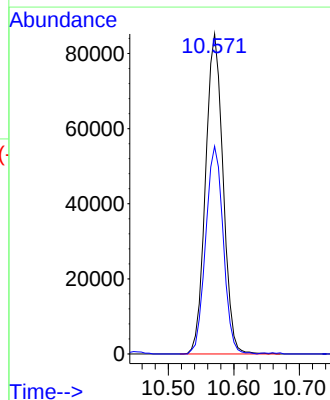
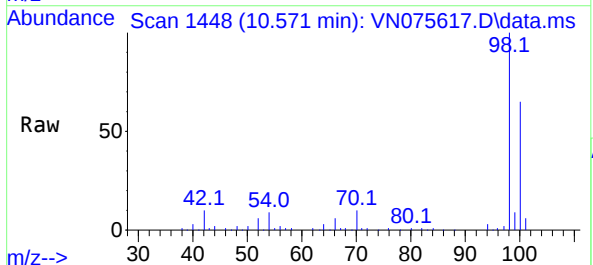
Instrument :
MSVOA_N
ClientSampleId :
21G4

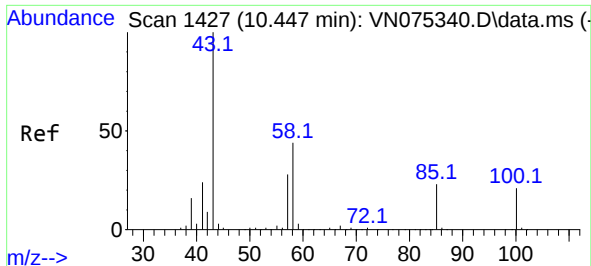
Tgt Ion: 41 Resp: 3334
Ion Ratio Lower Upper
41 100
69 0.0 80.2 120.2#
39 54.2 56.2 84.2#



#50
Toluene-d8
Concen: 53.831 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 98 Resp: 158294
Ion Ratio Lower Upper
98 100
100 65.0 53.0 79.6

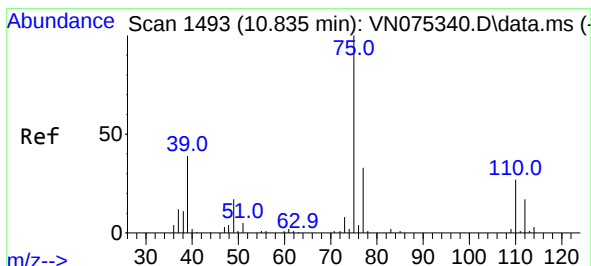
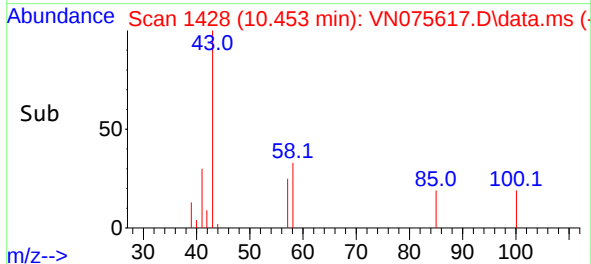
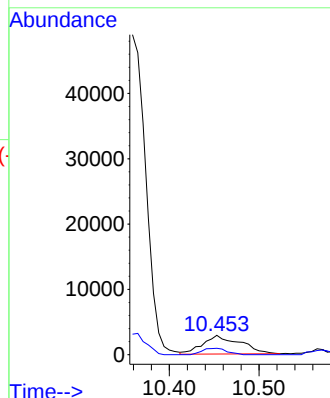
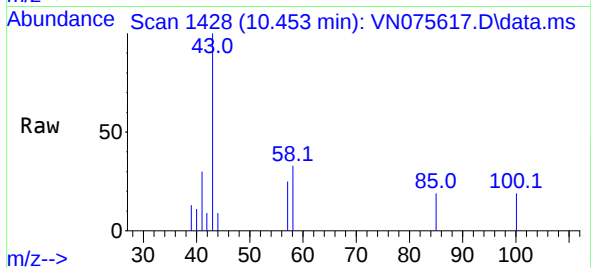




#51
4-Methyl-2-Pentanone
Concen: 3.178 ug/l
RT: 10.453 min Scan# 1427
Delta R.T. 0.006 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

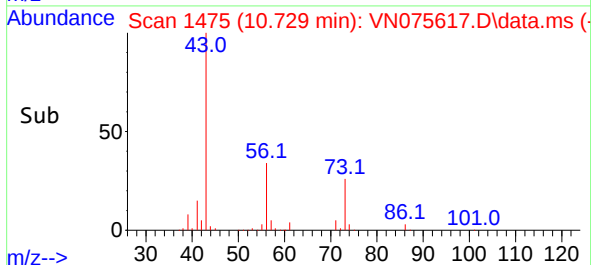
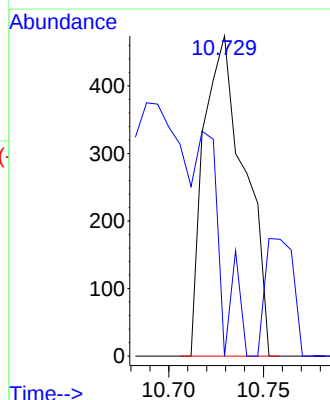
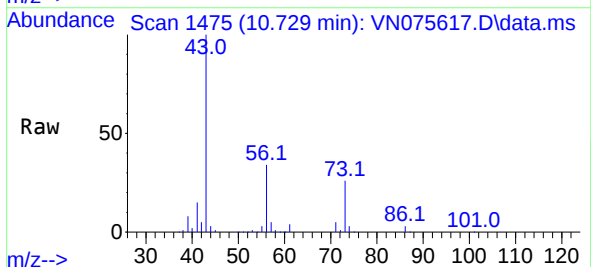
Instrument :
MSVOA_N
ClientSampleId :
21G4

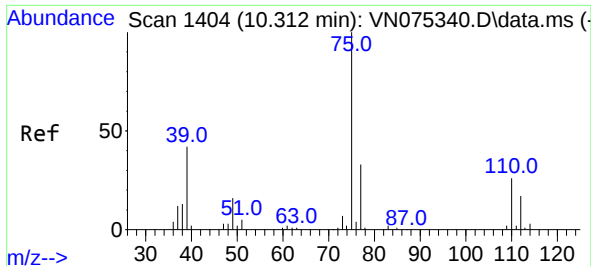
Tgt Ion: 43 Resp: 8330
Ion Ratio Lower Upper
43 100
58 22.4 33.6 50.4#



#53
t-1,3-Dichloropropene
Concen: 0.232 ug/l
RT: 10.729 min Scan# 1475
Delta R.T. -0.106 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 75 Resp: 710
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#

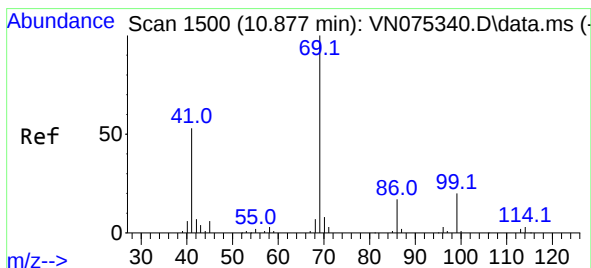
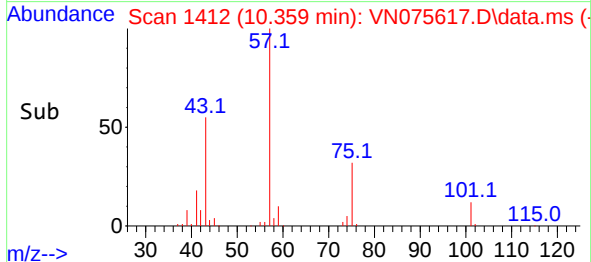
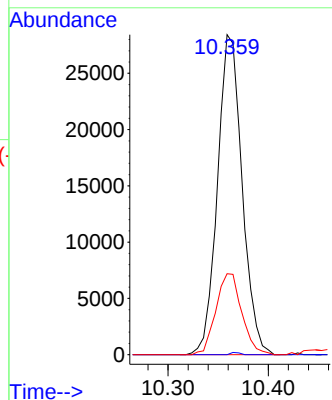
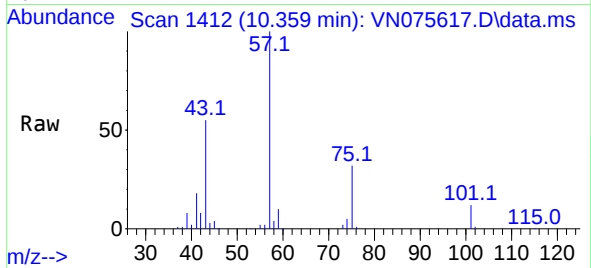




#54
 cis-1,3-Dichloropropene
 Concen: 14.601 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN075617.D
 Acq: 07 Dec 2022 19:31

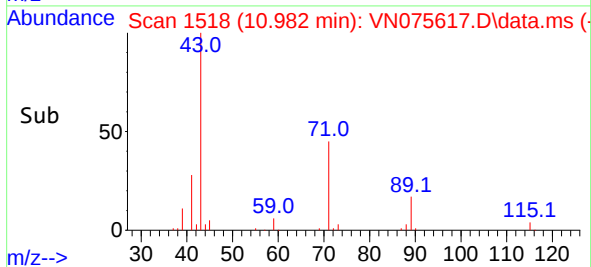
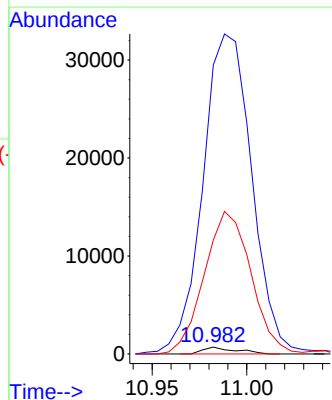
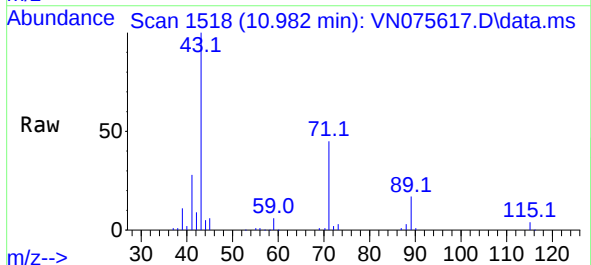
Instrument :
 MSVOA_N
 ClientSampleId :
 21G4

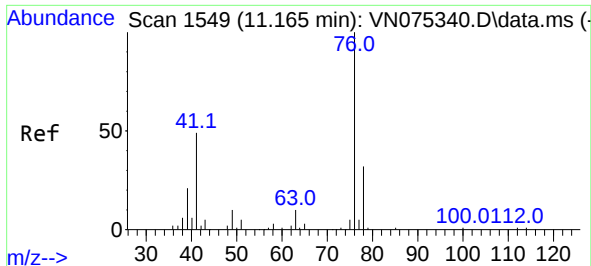
Tgt Ion: 75 Resp: 48442
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.7 35.5#
 39 25.3 35.8 53.6#



#56
 Ethyl methacrylate
 Concen: 0.272 ug/l
 RT: 10.982 min Scan# 1518
 Delta R.T. 0.105 min
 Lab File: VN075617.D
 Acq: 07 Dec 2022 19:31

Tgt Ion: 69 Resp: 839
 Ion Ratio Lower Upper
 69 100
 41 7044.9 45.6 68.4#
 39 2982.1 28.5 42.7#





#57

1,3-Dichloropropane

Concen: 1.638 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.041 min

Lab File: VN075617.D

Acq: 07 Dec 2022 19:31

Instrument :

MSVOA_N

ClientSampleId :

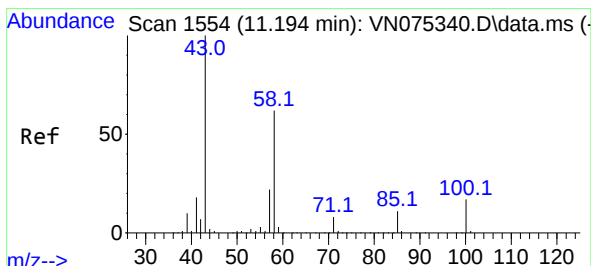
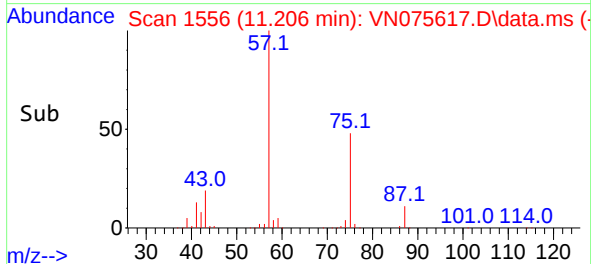
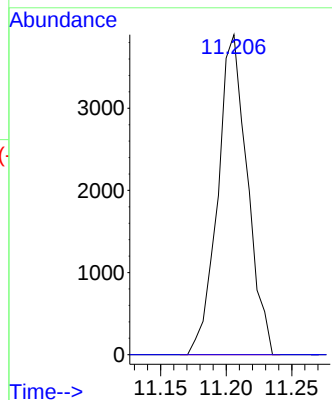
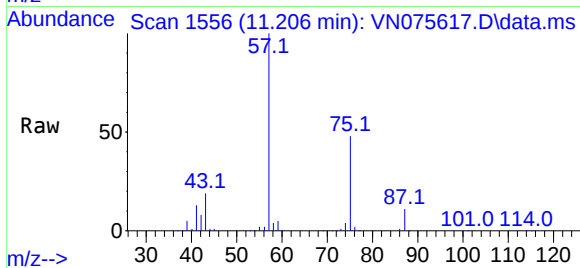
21G4

Tgt Ion: 76 Resp: 6112

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 28.562 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.012 min

Lab File: VN075617.D

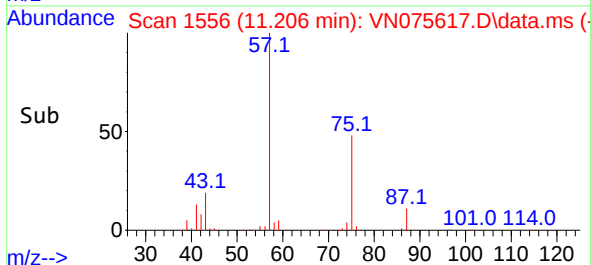
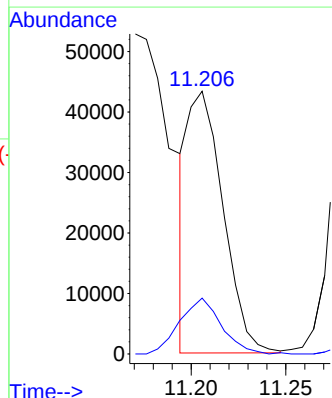
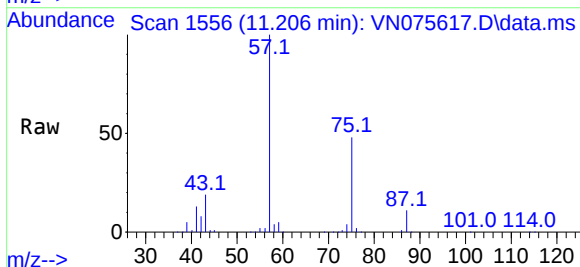
Acq: 07 Dec 2022 19:31

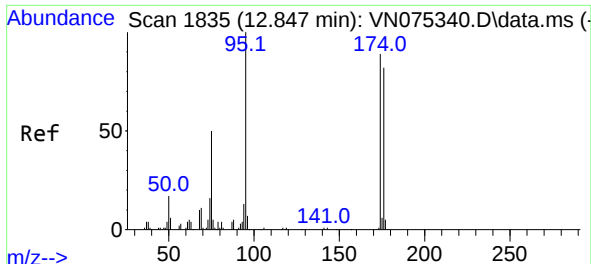
Tgt Ion: 43 Resp: 56212

Ion Ratio Lower Upper

43 100

58 25.2 29.6 88.8#

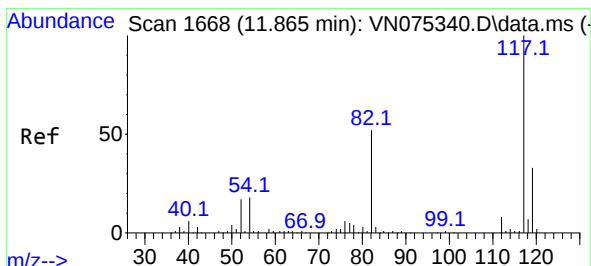
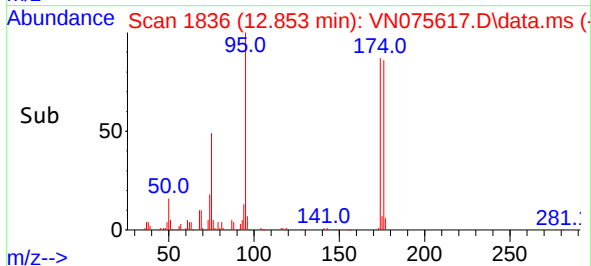
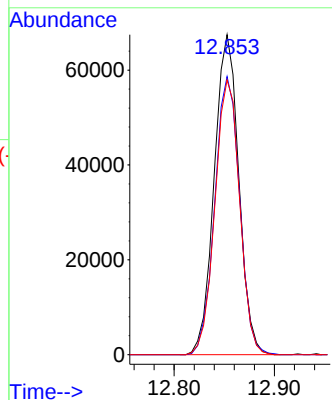
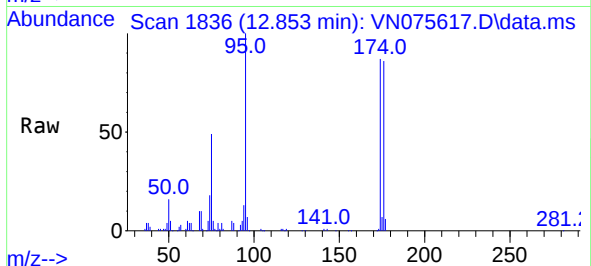




#62
4-Bromofluorobenzene
Concen: 52.781 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

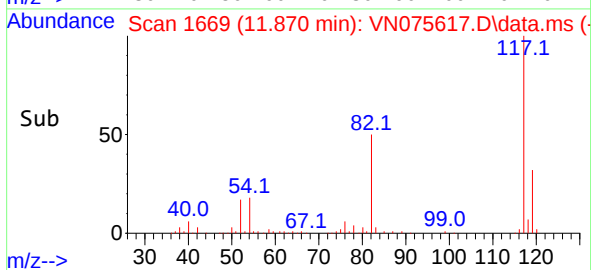
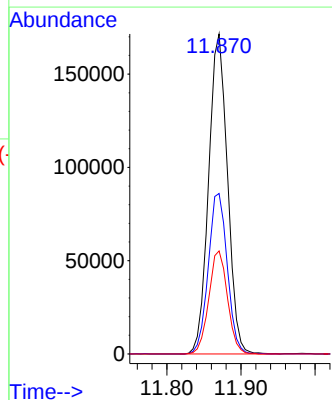
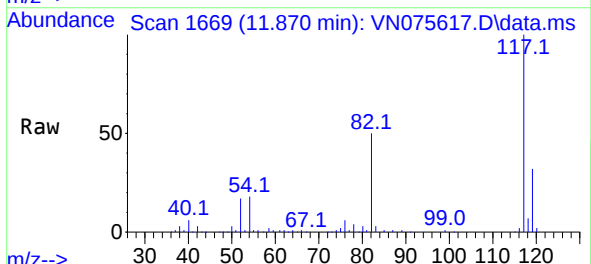
Instrument :
MSVOA_N
ClientSampleId :
21G4

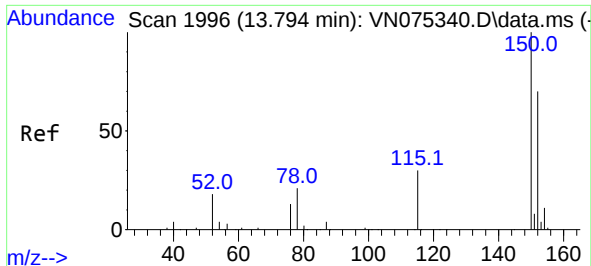
Tgt Ion: 95 Resp: 114558
Ion Ratio Lower Upper
95 100
174 88.0 0.0 147.4
176 86.3 0.0 142.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1669
Delta R.T. 0.005 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 117 Resp: 303303
Ion Ratio Lower Upper
117 100
82 50.1 43.1 64.7
119 32.2 25.5 38.3

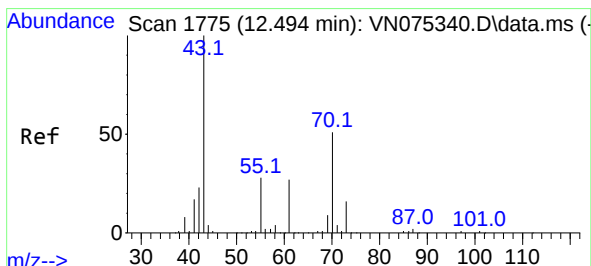
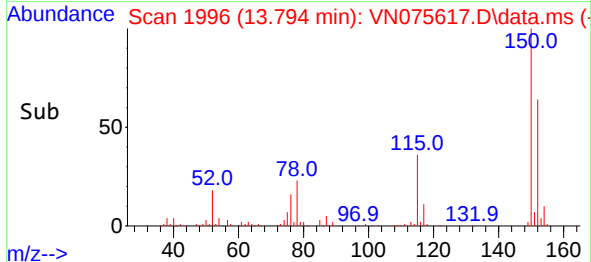
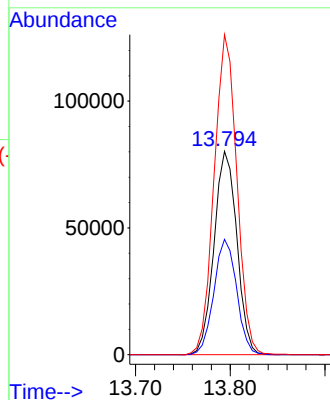
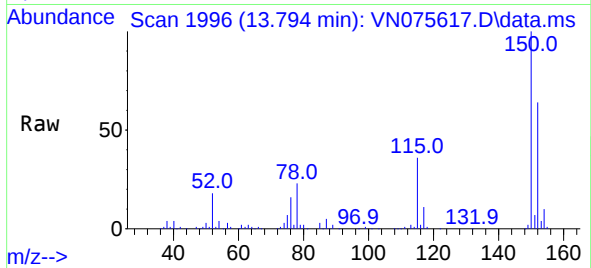




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

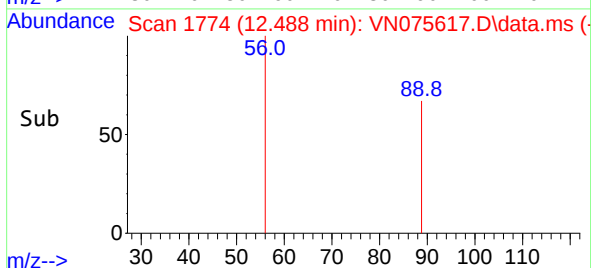
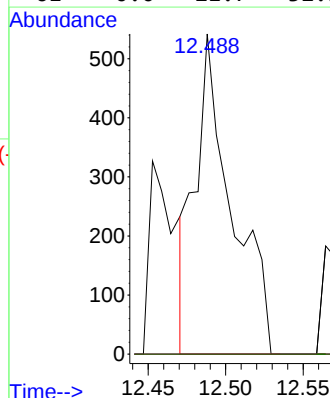
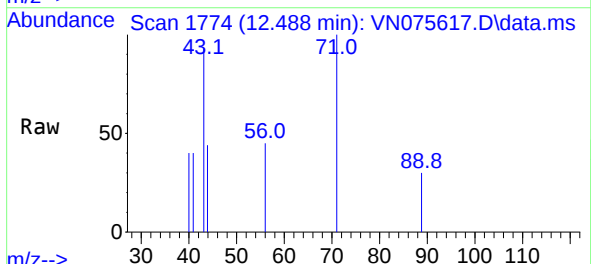
Instrument :
MSVOA_N
ClientSampleId :
21G4

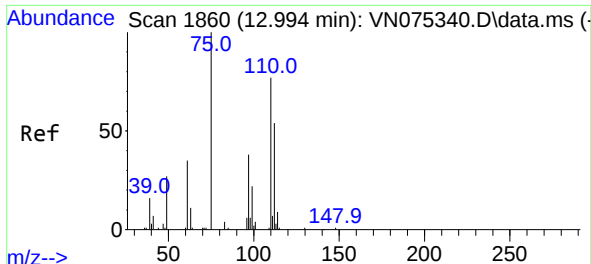
Tgt Ion:152 Resp: 134576
Ion Ratio Lower Upper
152 100
115 56.6 30.2 90.6
150 156.6 0.0 348.4



#74
N-ethyl acetate
Concen: 0.292 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 43 Resp: 882
Ion Ratio Lower Upper
43 100
70 0.0 39.8 59.8#
55 0.0 19.9 29.9#
61 0.0 21.7 32.5#

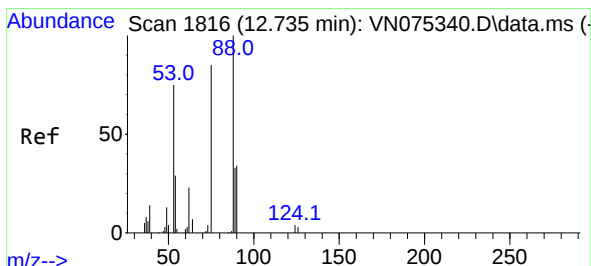
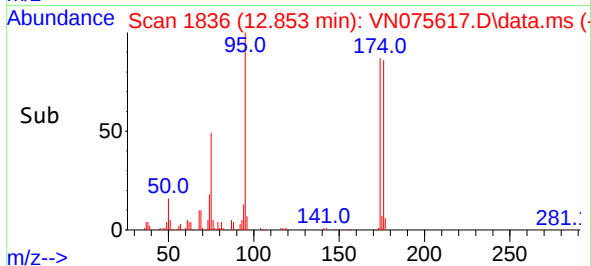
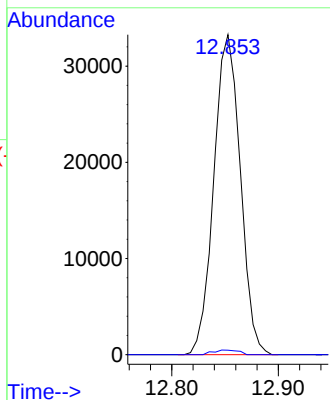
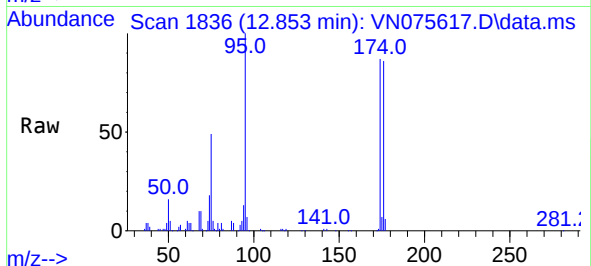




#76
1,2,3-Trichloropropane
Concen: 22.570 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Instrument :
MSVOA_N
ClientSampleId :
21G4

Tgt Ion: 75 Resp: 57430
Ion Ratio Lower Upper
75 100
77 1.4 75.6 226.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.781 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN075617.D
Acq: 07 Dec 2022 19:31

Tgt Ion: 75 Resp: 57430
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#

