

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041824\
 Data File : VN081795.D
 Acq On : 18 Apr 2024 18:18
 Operator : JC\MD
 Sample : P2121-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 19 02:10:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041524W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 15:37:39 2024
 Response via : Initial Calibration

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

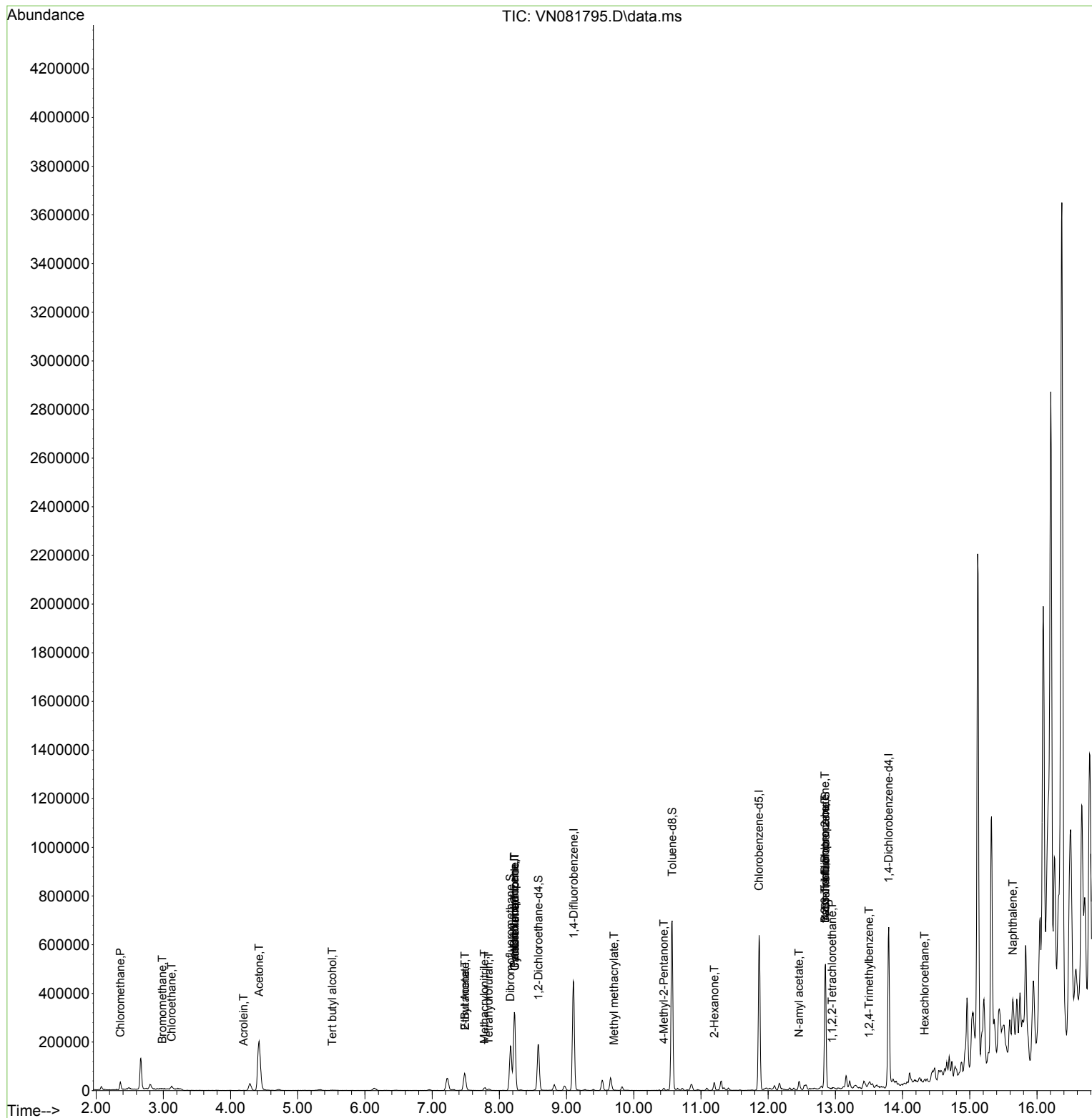
Internal Standards						
1) Pentafluorobenzene	8.224	168	223301	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	397764	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	363403	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	168847	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	157235	50.040	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.080%			
35) Dibromofluoromethane	8.165	113	126230	48.058	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.120%			
50) Toluene-d8	10.570	98	480686	49.676	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.360%			
62) 4-Bromofluorobenzene	12.853	95	177520	53.686	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 107.380%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	25535	8.341	ug/l	94
5) Bromomethane	2.983	94	1375	0.658	ug/l #	54
6) Chloroethane	3.124	64	9448	2.387	ug/l	90
11) Tert butyl alcohol	5.512	59	1811	4.225	ug/l #	71
13) Acrolein	4.194	56	105	0.230	ug/l #	1
16) Acetone	4.424	43	380075	434.593	ug/l	98
20) Methylene Chloride	5.265	84	961	Below Cal	#	69
25) 2-Butanone	7.488	43	106404	73.803	ug/l	89
29) Tetrahydrofuran	7.841	42	4254	4.561	ug/l	93
31) Cyclohexane	8.229	56	5861	1.360	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	19197	5.246	ug/l #	50
37) Ethyl Acetate	7.488	43	106404	35.384	ug/l #	68
38) Carbon Tetrachloride	8.229	117	23905	5.615	ug/l #	15
41) Methacrylonitrile	7.777	41	2337	1.432	ug/l #	42
48) Methyl methacrylate	9.706	41	483	0.211	ug/l #	8
51) 4-Methyl-2-Pentanone	10.447	43	6759	2.166	ug/l	95
59) 2-Hexanone	11.200	43	19771	8.752	ug/l	97
71) Bromoform	12.847	173	949	0.431	ug/l #	1
74) N-amyl acetate	12.459	43	20275	4.400	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.953	83	977	0.263	ug/l #	65
76) 1,2,3-Trichloropropane	12.847	75	93908	28.987	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	93908	68.052	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.500	105	5751	0.551	ug/l #	60
90) Hexachloroethane	14.329	117	1100	0.499	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.723	75	281	Below Cal	#	2
95) Naphthalene	15.641	128	124306	12.648	ug/l #	93

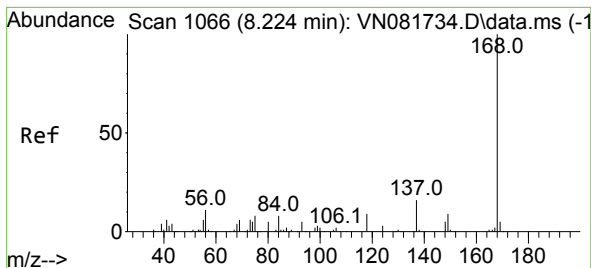
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN081795.D

Acq: 18 Apr 2024 18:18

Instrument :

MSVOA_N

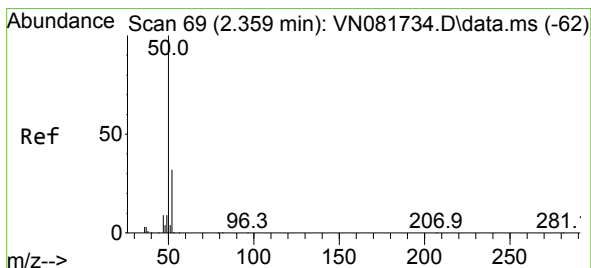
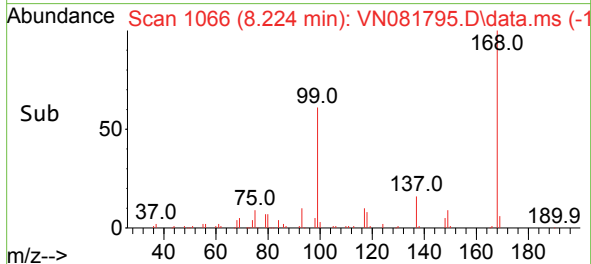
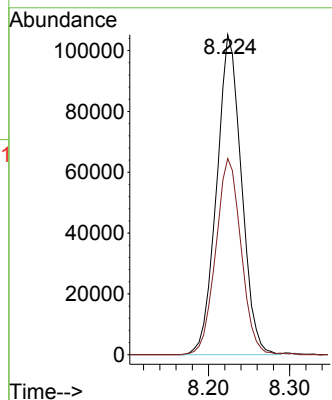
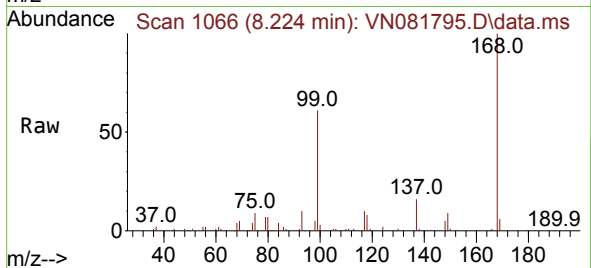
ClientSampleId :

Tgt Ion:168 Resp: 223301

Ion Ratio Lower Upper

168 100

99 61.3 48.2 72.4



#3

Chloromethane

Concen: 8.341 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN081795.D

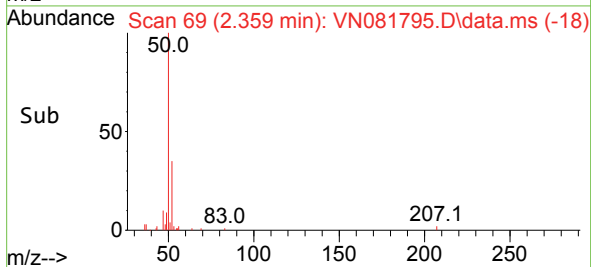
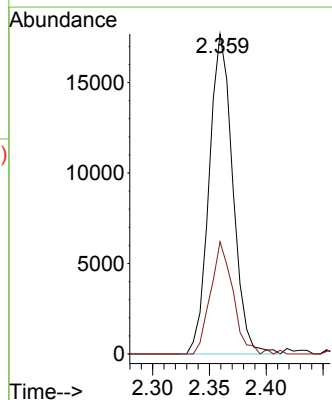
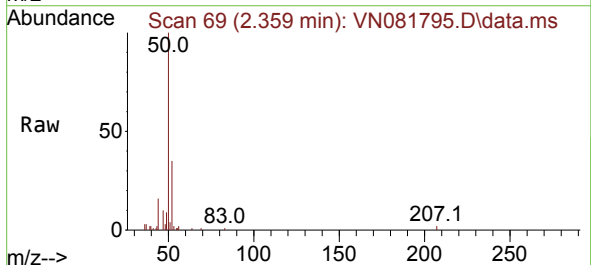
Acq: 18 Apr 2024 18:18

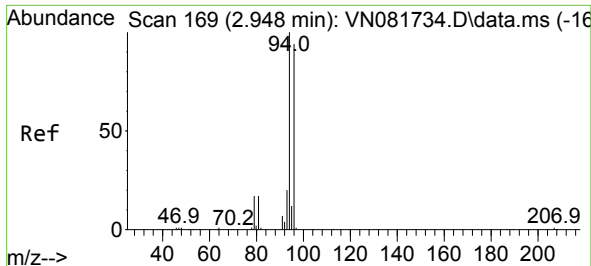
Tgt Ion: 50 Resp: 25535

Ion Ratio Lower Upper

50 100

52 35.0 25.5 38.3

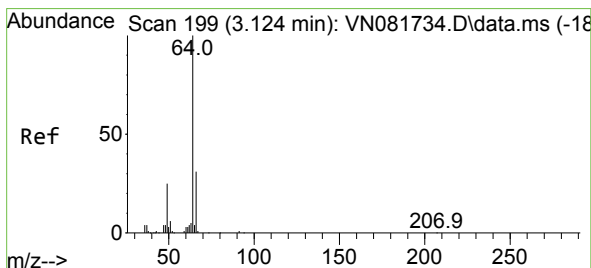
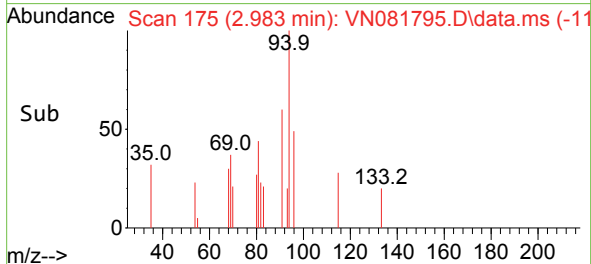
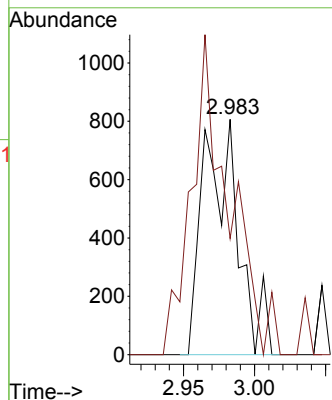
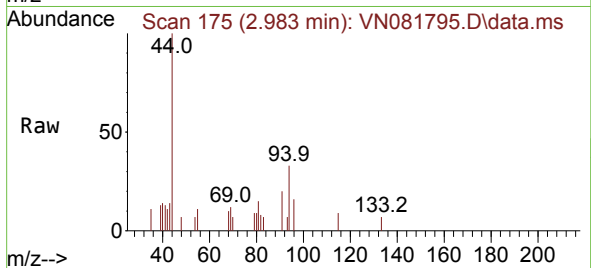




#5
Bromomethane
Concen: 0.658 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

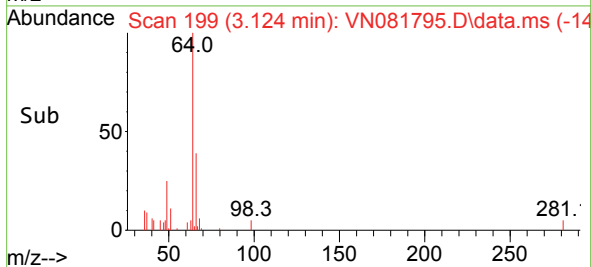
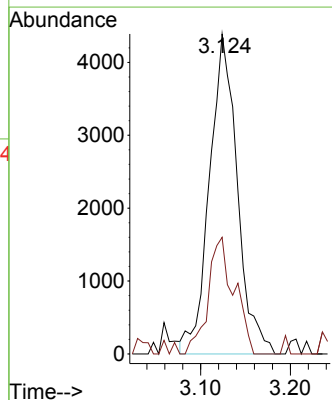
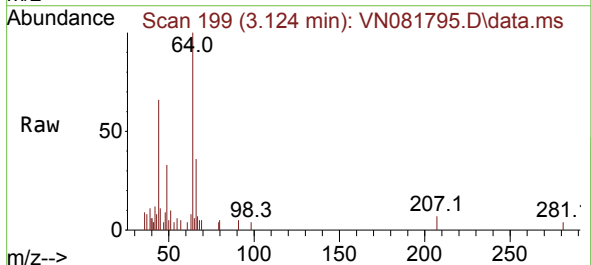
Instrument :
MSVOA_N
ClientSampleId :

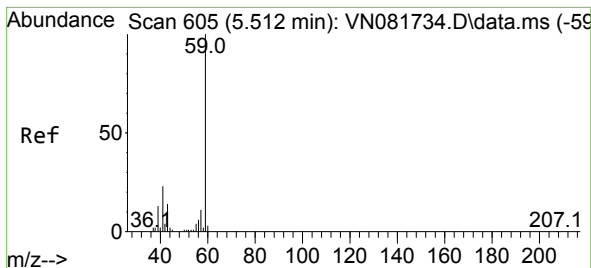
Tgt Ion: 94 Resp: 1375
Ion Ratio Lower Upper
94 100
96 49.3 74.8 112.2#



#6
Chloroethane
Concen: 2.387 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Tgt Ion: 64 Resp: 9448
Ion Ratio Lower Upper
64 100
66 36.4 24.7 37.1





#11

Tert butyl alcohol

Concen: 4.225 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.000 min

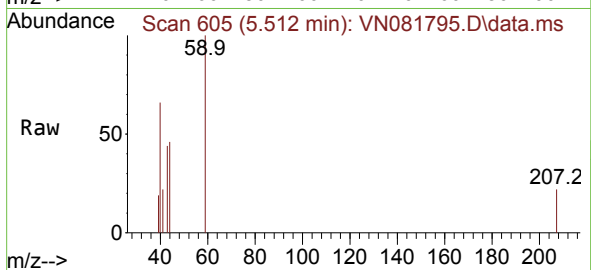
Lab File: VN081795.D

Acq: 18 Apr 2024 18:18

Instrument :

MSVOA_N

ClientSampleId :

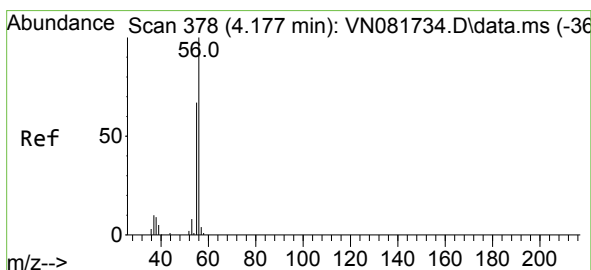
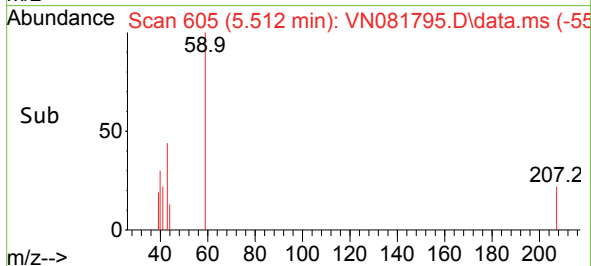
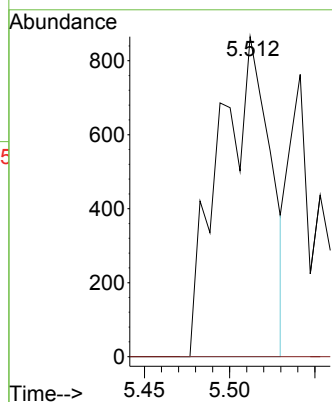


Tgt Ion: 59 Resp: 1811

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#



#13

Acrolein

Concen: 0.230 ug/l

RT: 4.194 min Scan# 381

Delta R.T. 0.017 min

Lab File: VN081795.D

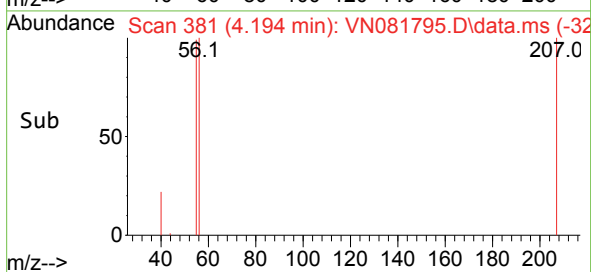
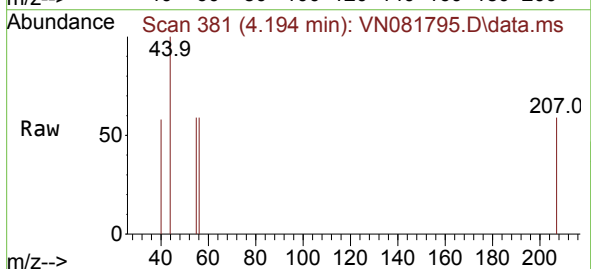
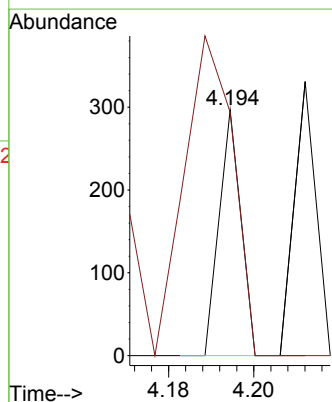
Acq: 18 Apr 2024 18:18

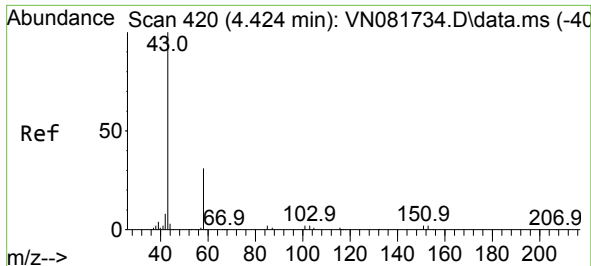
Tgt Ion: 56 Resp: 105

Ion Ratio Lower Upper

56 100

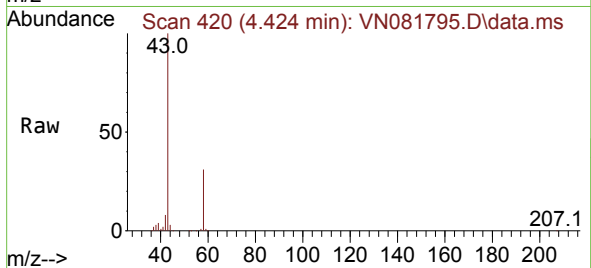
55 348.6 55.8 83.8#



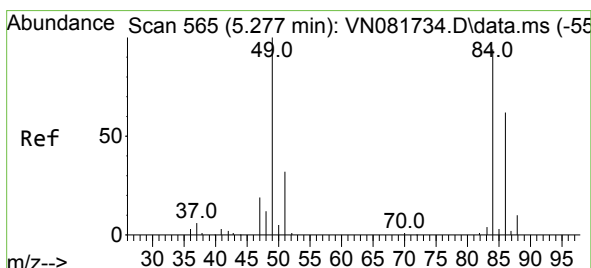
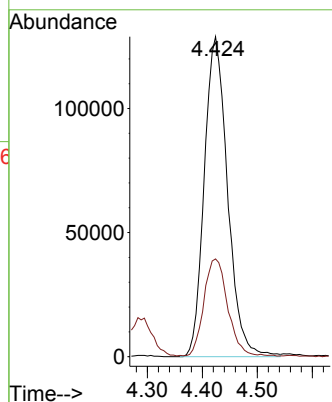
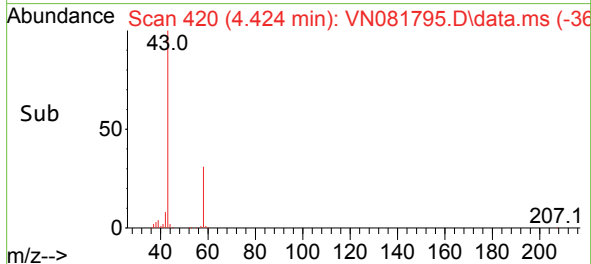


#16
Acetone
Concen: 434.593 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Instrument :
MSVOA_N
ClientSampleId :

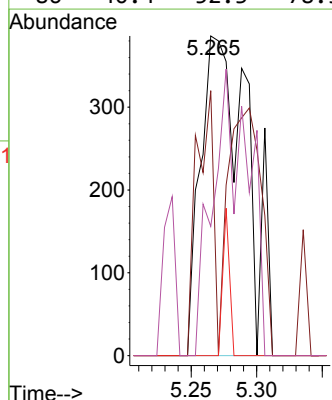
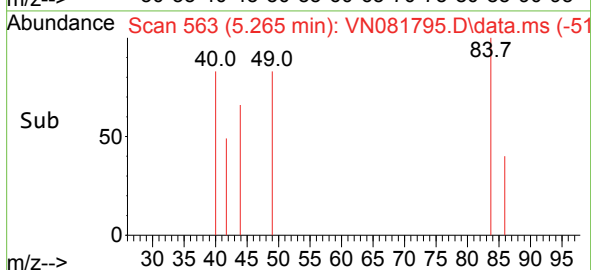
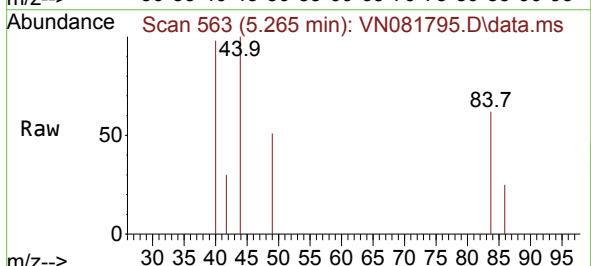


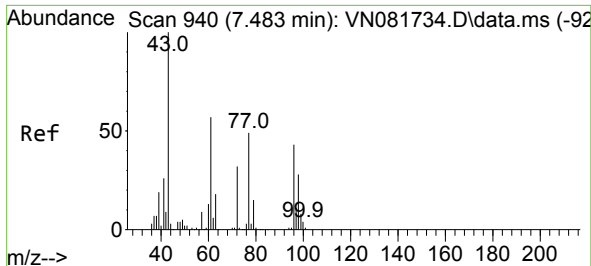
Tgt Ion: 43 Resp: 380075
Ion Ratio Lower Upper
43 100
58 30.3 25.2 37.8



#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 563
Delta R.T. -0.012 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Tgt Ion: 84 Resp: 961
Ion Ratio Lower Upper
84 100
49 82.9 84.9 127.3#
51 0.0 27.0 40.6#
86 40.4 52.3 78.5#

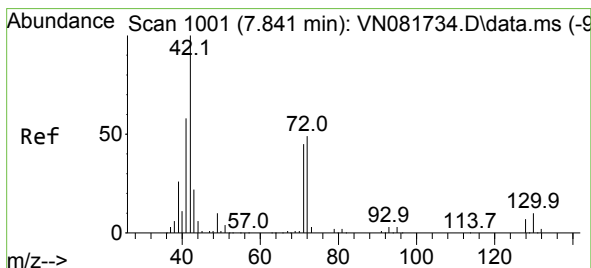
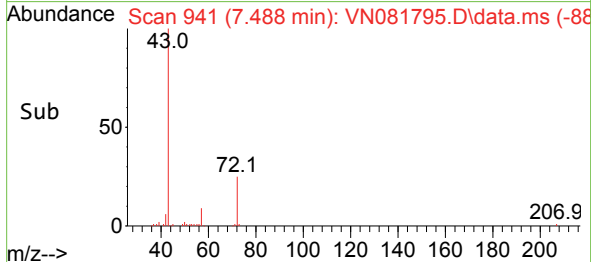
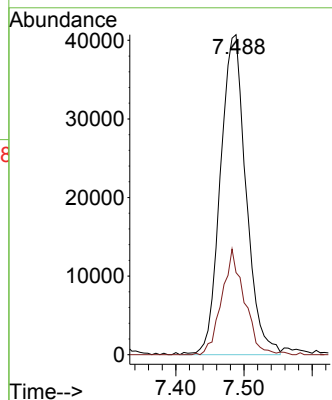
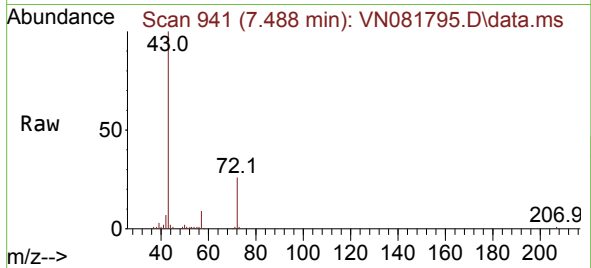




#25
2-Butanone
Concen: 73.803 ug/l
RT: 7.488 min Scan# 940
Delta R.T. 0.005 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

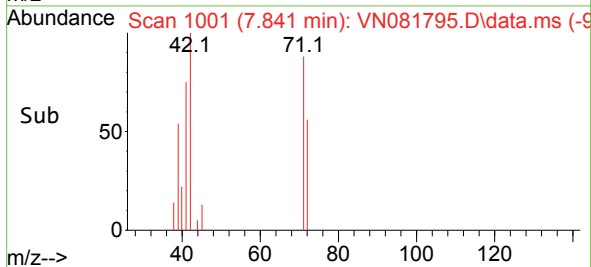
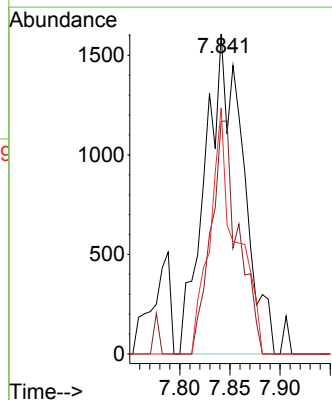
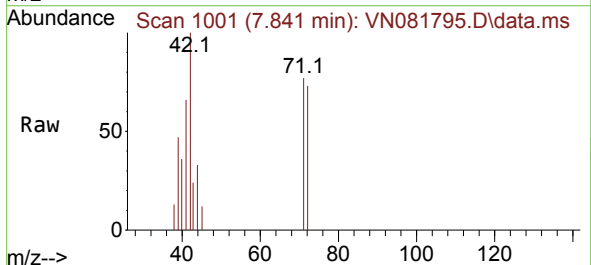
Instrument :
MSVOA_N
ClientSampleId :

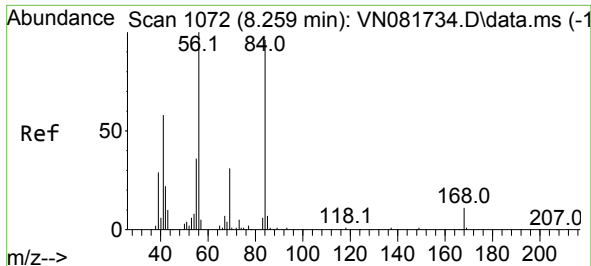
Tgt Ion: 43 Resp: 106404
Ion Ratio Lower Upper
43 100
72 25.6 25.3 37.9



#29
Tetrahydrofuran
Concen: 4.561 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

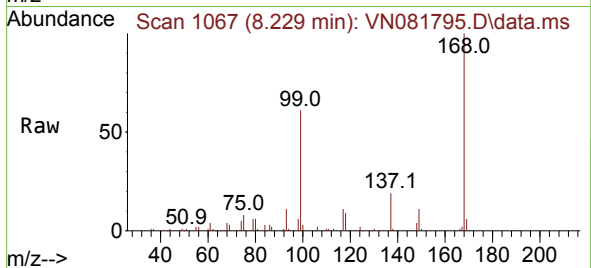
Tgt Ion: 42 Resp: 4254
Ion Ratio Lower Upper
42 100
72 52.4 39.3 58.9
71 52.8 37.4 56.0



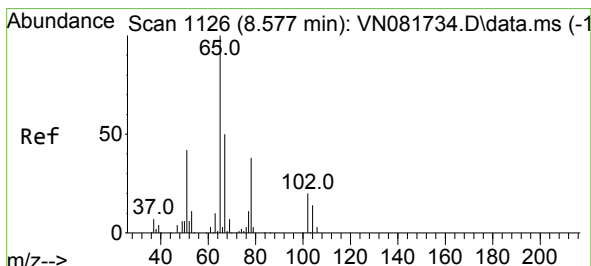
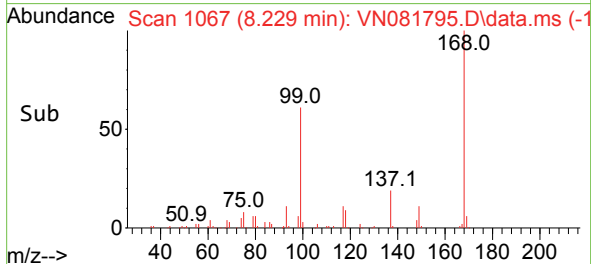
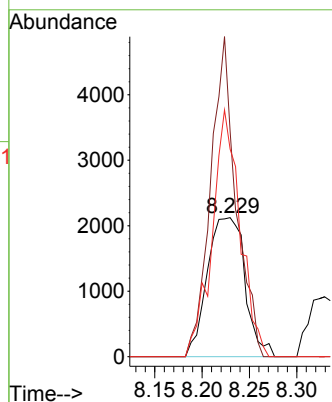


#31
Cyclohexane
Concen: 1.360 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN081795.D
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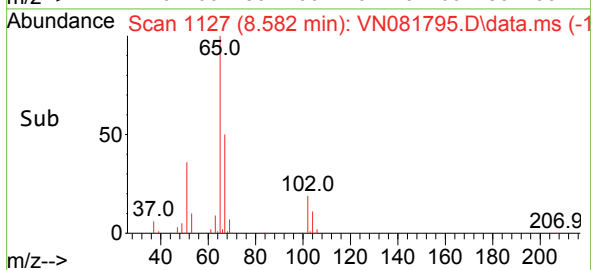
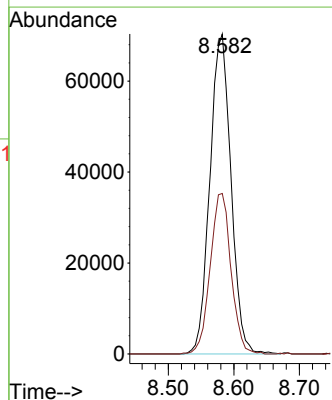
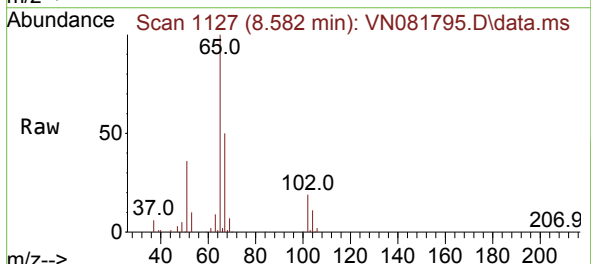


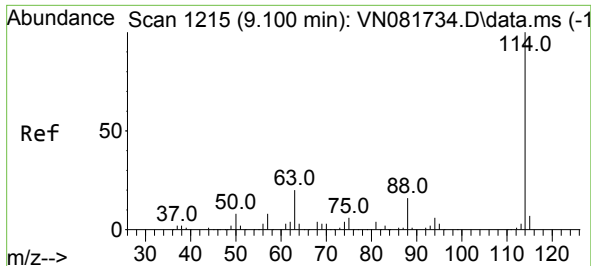
Tgt Ion: 56 Resp: 5861
Ion Ratio Lower Upper
56 100
69 162.2 24.4 36.6#
84 149.3 77.0 115.4#



#33
1,2-Dichloroethane-d4
Concen: 50.040 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.005 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Tgt Ion: 65 Resp: 157235
Ion Ratio Lower Upper
65 100
67 49.5 0.0 103.0

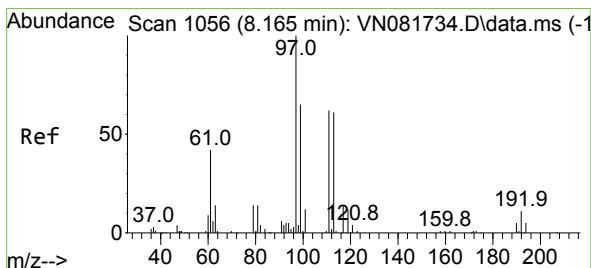
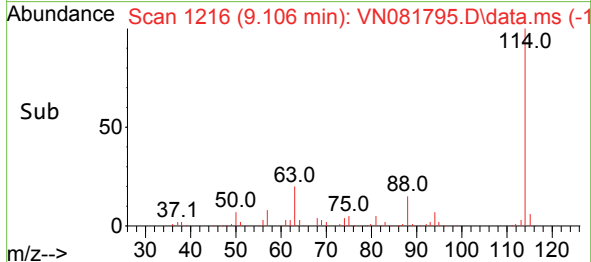
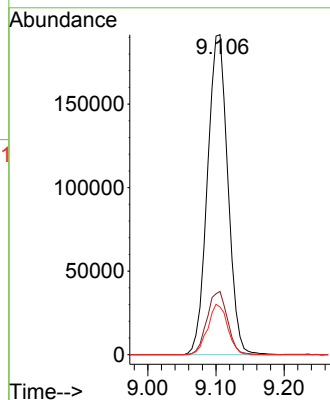
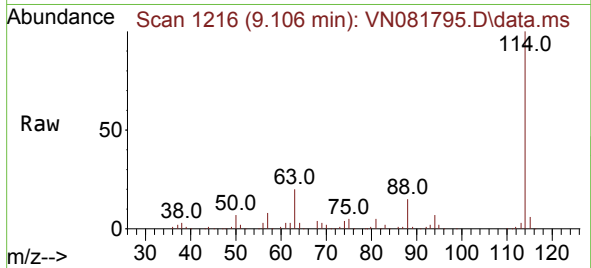




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

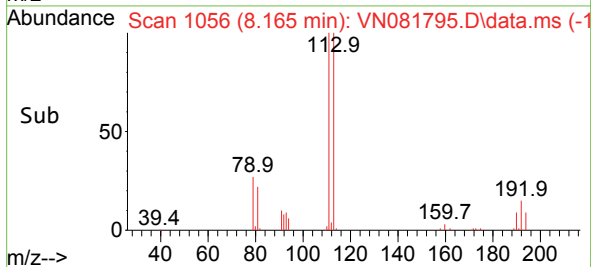
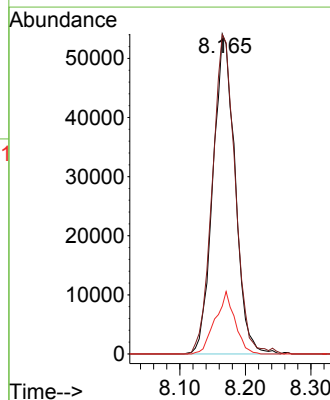
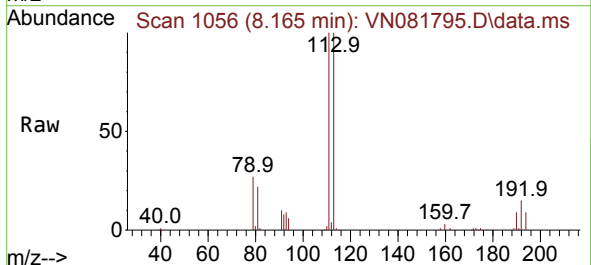
Instrument :
MSVOA_N
ClientSampleId :

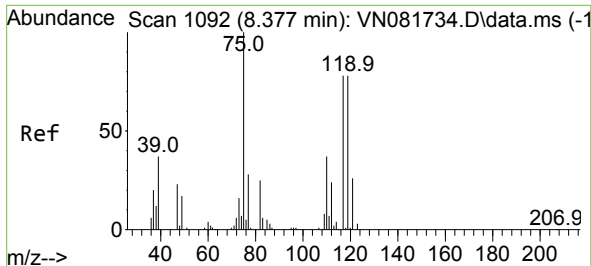
Tgt Ion:114 Resp: 397764
Ion Ratio Lower Upper
114 100
63 19.8 0.0 41.0
88 14.9 0.0 31.4



#35
Dibromofluoromethane
Concen: 48.058 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Tgt Ion:113 Resp: 126230
Ion Ratio Lower Upper
113 100
111 103.0 83.4 125.2
192 17.5 14.0 21.0





#36

1,1-Dichloropropene

Concen: 5.246 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

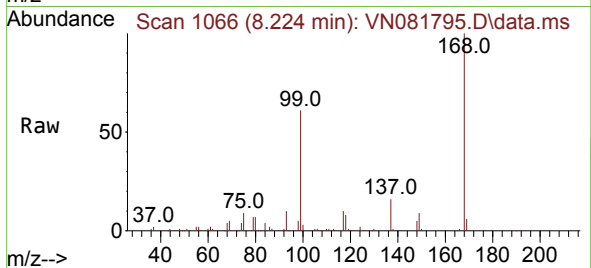
Lab File: VN081795.D

Acq: 18 Apr 2024 18:18

Instrument :

MSVOA_N

ClientSampleId :



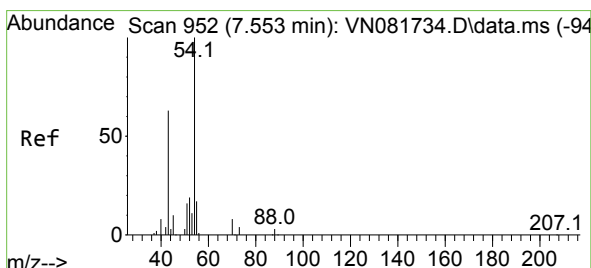
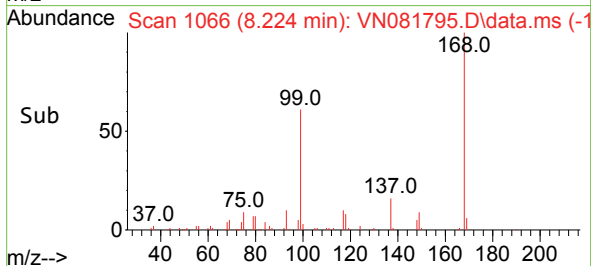
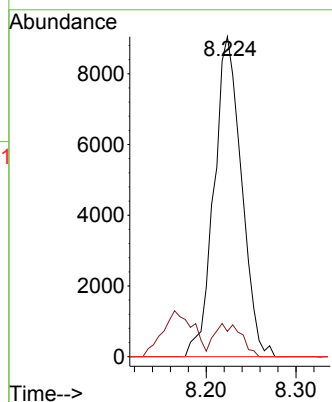
Tgt Ion: 75 Resp: 19197

Ion Ratio Lower Upper

75 100

110 10.1 17.8 53.5#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 35.384 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.065 min

Lab File: VN081795.D

Acq: 18 Apr 2024 18:18

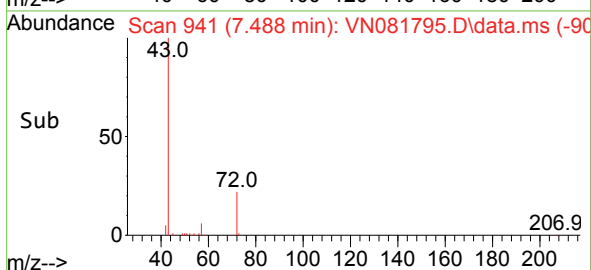
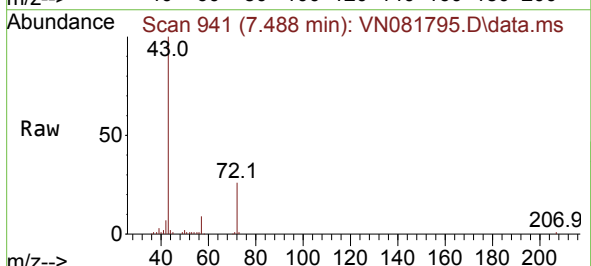
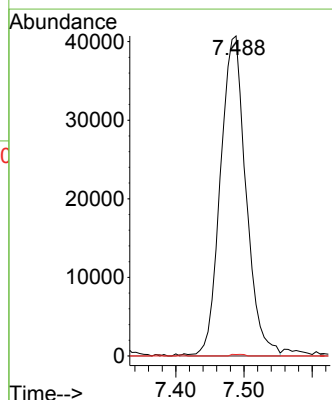
Tgt Ion: 43 Resp: 106404

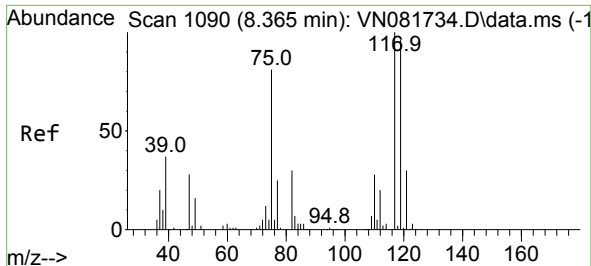
Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

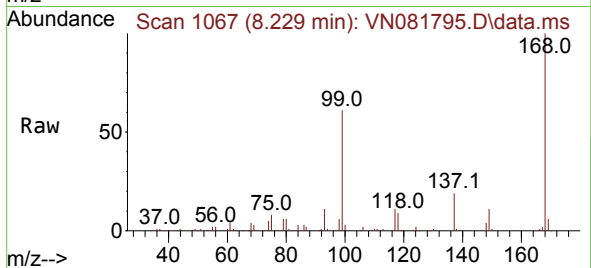
70 0.3 8.7 13.1#



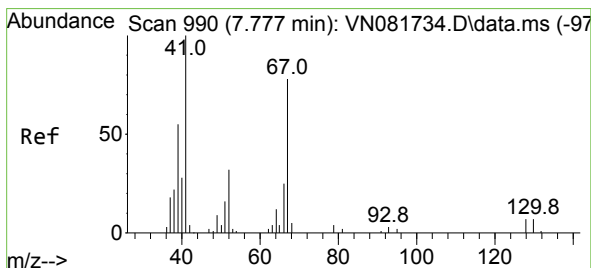
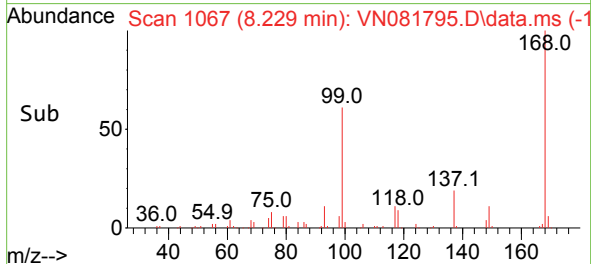
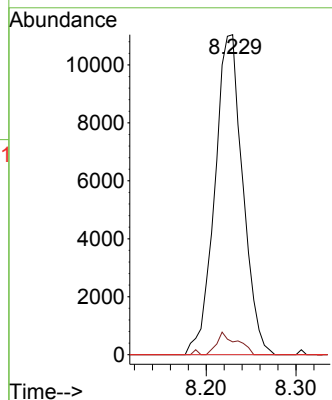


#38
Carbon Tetrachloride
Concen: 5.615 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.136 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Instrument :
MSVOA_N
ClientSampleId :

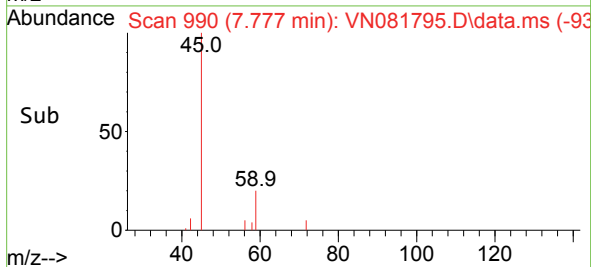
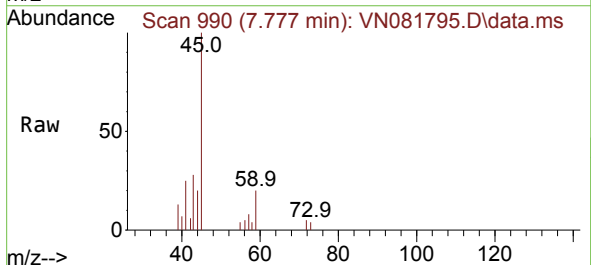
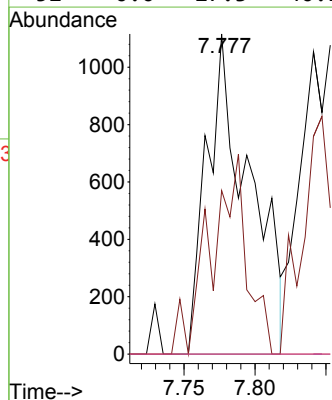


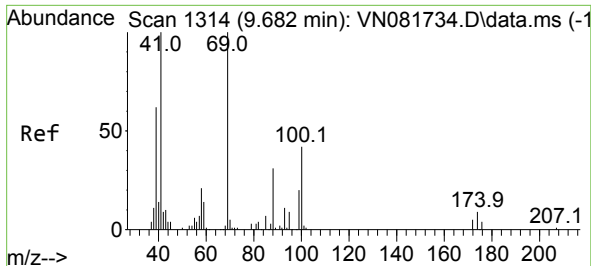
Tgt Ion:117 Resp: 23905
Ion Ratio Lower Upper
117 100
119 4.0 76.5 114.7#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 1.432 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

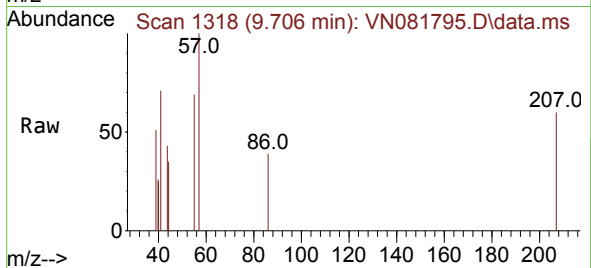
Tgt Ion: 41 Resp: 2337
Ion Ratio Lower Upper
41 100
39 53.1 46.6 69.8
67 0.0 67.3 100.9#
52 0.0 27.3 40.9#



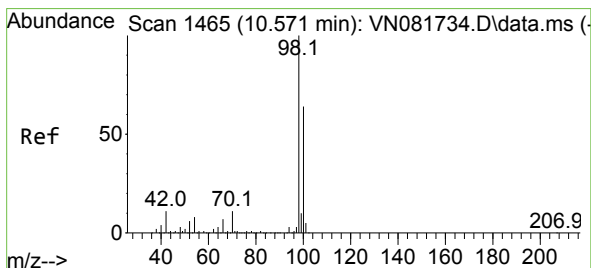
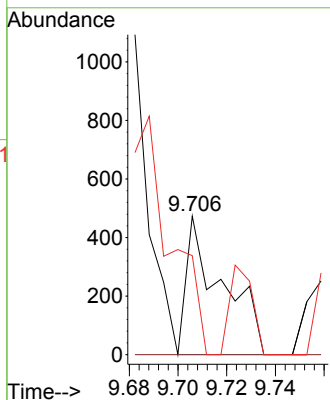
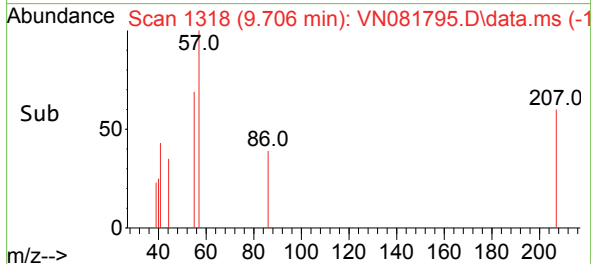


#48
Methyl methacrylate
Concen: 0.211 ug/l
RT: 9.706 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Instrument :
MSVOA_N
ClientSampleId :

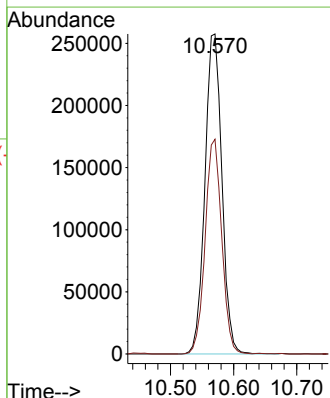
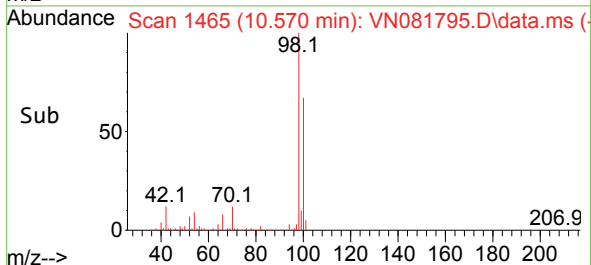
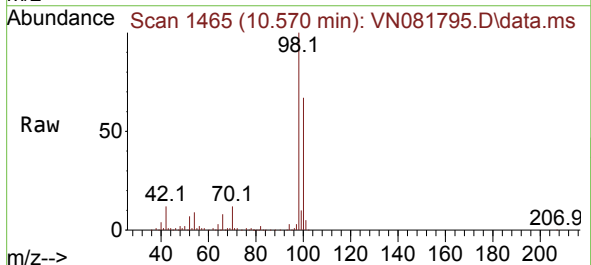


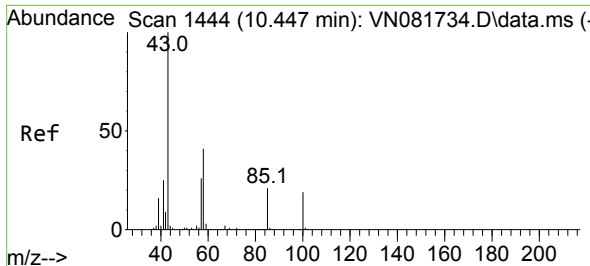
Tgt Ion: 41 Resp: 483
Ion Ratio Lower Upper
41 100
69 0.0 77.9 116.9#
39 0.0 50.9 76.3#



#50
Toluene-d8
Concen: 49.676 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Tgt Ion: 98 Resp: 480686
Ion Ratio Lower Upper
98 100
100 65.6 51.8 77.6

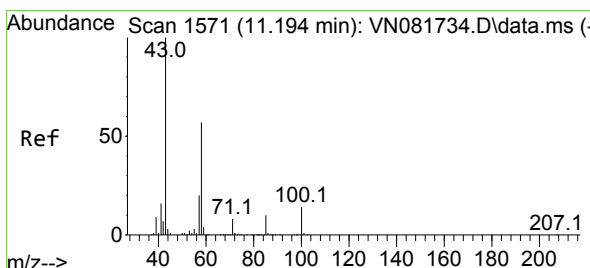
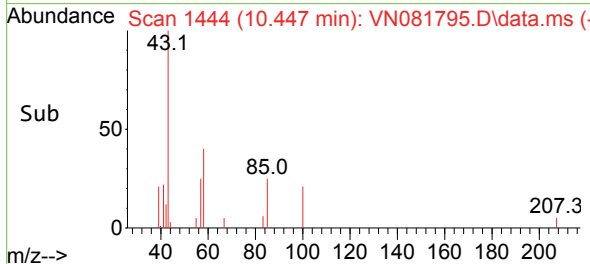
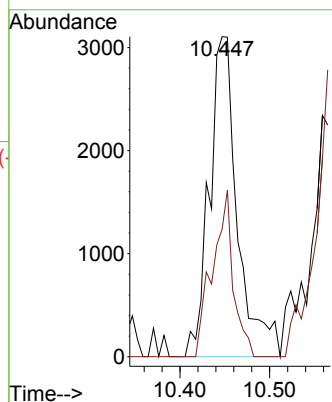
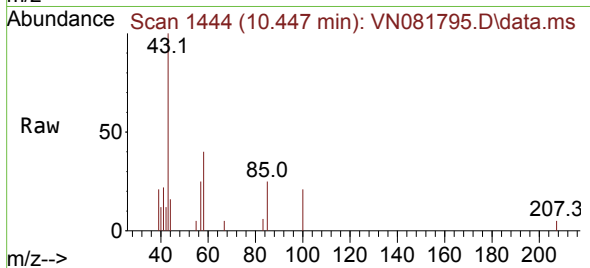




#51
4-Methyl-2-Pentanone
Concen: 2.166 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

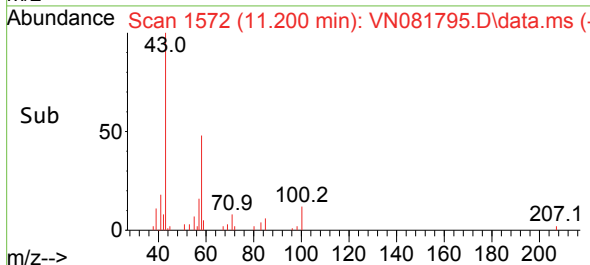
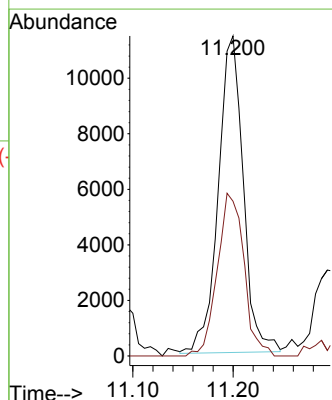
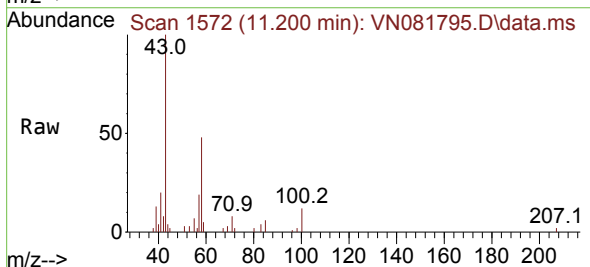
Instrument :
MSVOA_N
ClientSampleId :

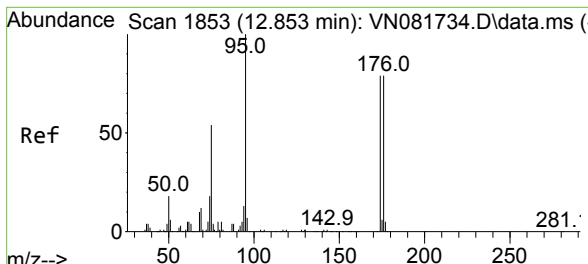
Tgt Ion: 43 Resp: 6759
Ion Ratio Lower Upper
43 100
58 38.4 33.2 49.8



#59
2-Hexanone
Concen: 8.752 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Tgt Ion: 43 Resp: 19771
Ion Ratio Lower Upper
43 100
58 54.7 28.3 84.9

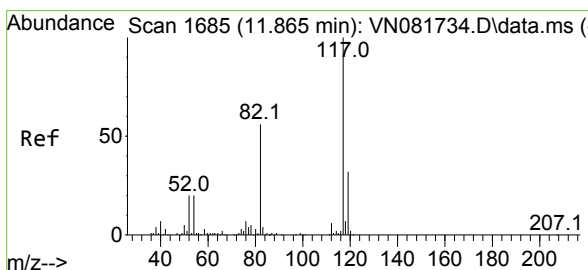
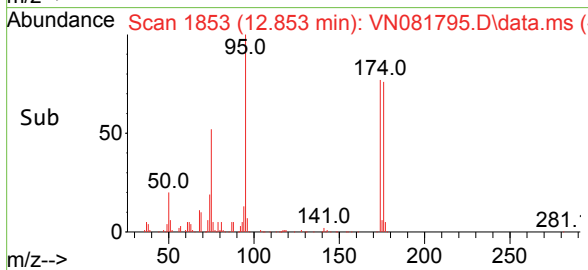
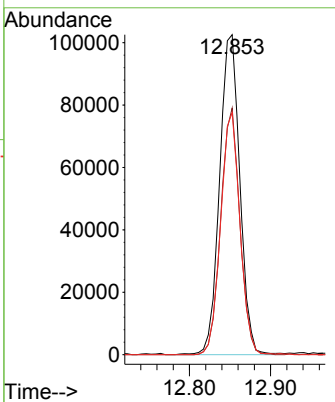
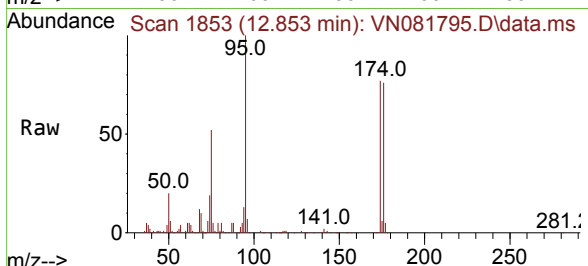




#62
4-Bromofluorobenzene
Concen: 53.686 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

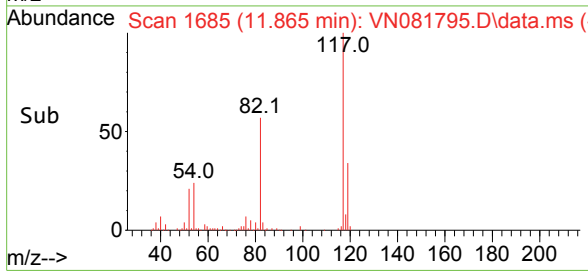
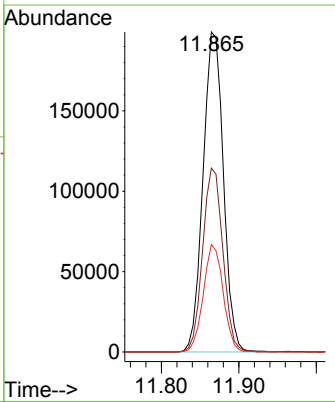
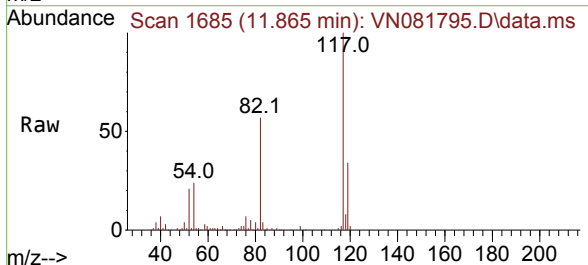
Instrument :
MSVOA_N
ClientSampleId :

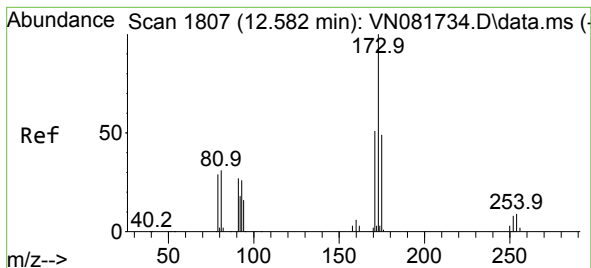
Tgt Ion:	95	Resp:	177520
Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	160.6
176	72.3	0.0	152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.001 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Tgt Ion:	117	Resp:	363403
Ion	Ratio	Lower	Upper
117	100		
82	57.4	44.6	66.8
119	33.6	25.9	38.9





#71

Bromoform

Concen: 0.431 ug/l

RT: 12.847 min Scan# 1807

Delta R.T. 0.265 min

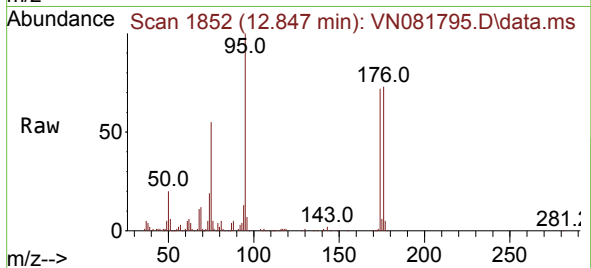
Lab File: VN081795.D

Acq: 18 Apr 2024 18:18

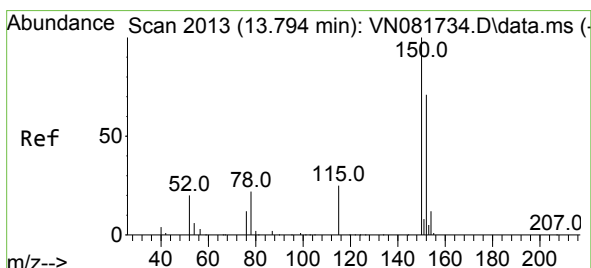
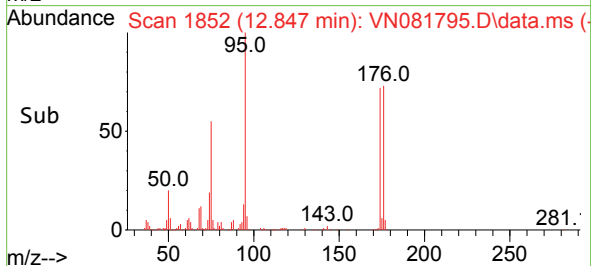
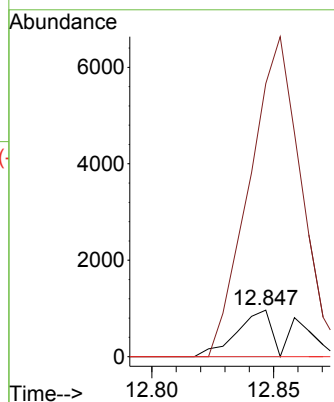
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:173	Resp:	949
Ion Ratio	Lower	Upper
173	100	
175	892.9	24.6 74.0#
254	0.0	0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

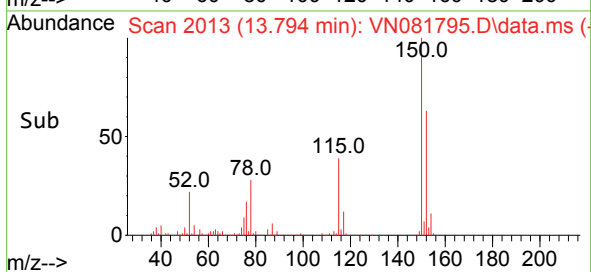
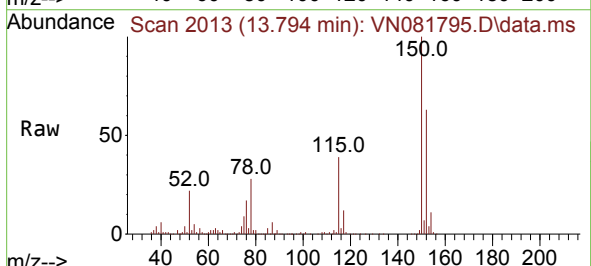
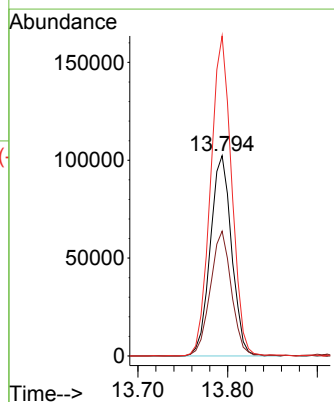
RT: 13.794 min Scan# 2013

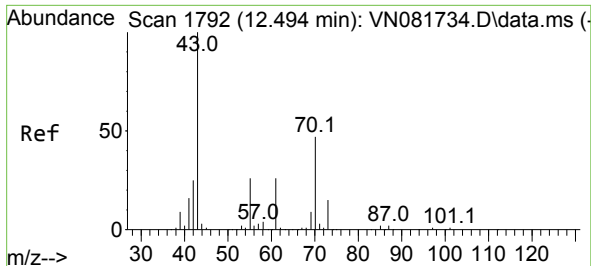
Delta R.T. -0.000 min

Lab File: VN081795.D

Acq: 18 Apr 2024 18:18

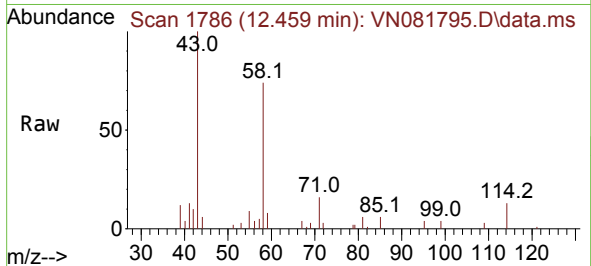
Tgt Ion:152	Resp:	168847
Ion Ratio	Lower	Upper
152	100	
115	61.8	30.4 91.3
150	157.6	0.0 353.2



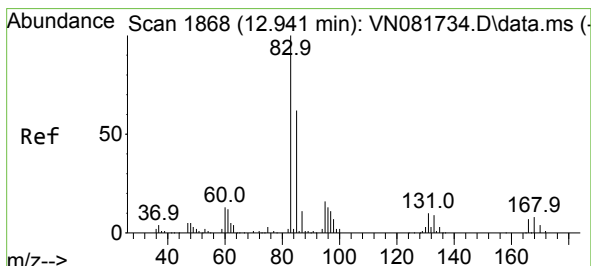
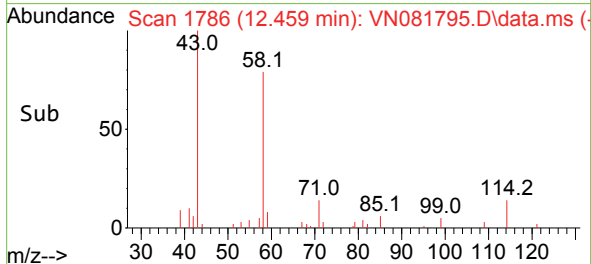
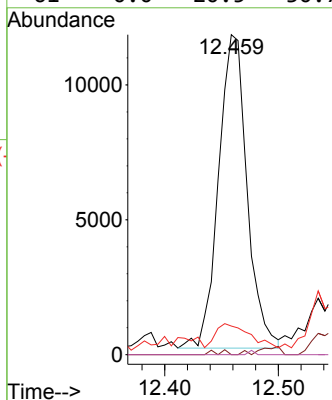


#74
N-amy1 acetate
Concen: 4.400 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.035 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Instrument :
MSVOA_N
ClientSampleId :

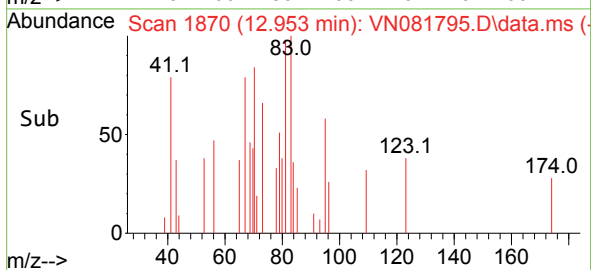
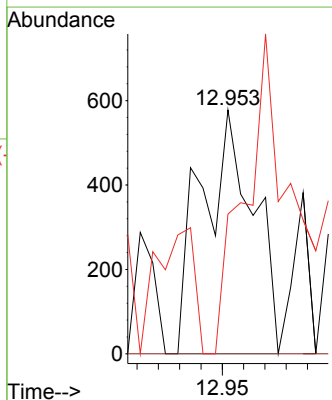
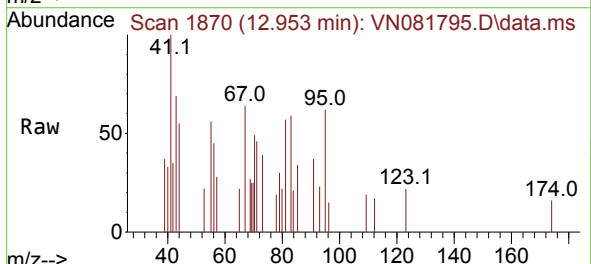


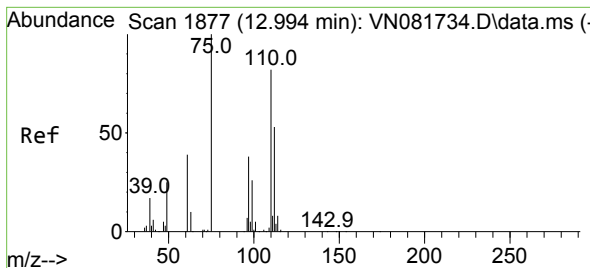
Tgt Ion:	43	Resp:	20275
Ion	Ratio	Lower	Upper
43	100		
70	0.0	39.0	58.4#
55	8.9	21.3	31.9#
61	0.0	20.5	30.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 0.263 ug/l
RT: 12.953 min Scan# 1870
Delta R.T. 0.012 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Tgt Ion:	83	Resp:	977
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.4#
85	36.9	32.9	98.6





#76

1,2,3-Trichloropropane

Concen: 28.987 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081795.D

Acq: 18 Apr 2024 18:18

Instrument :

MSVOA_N

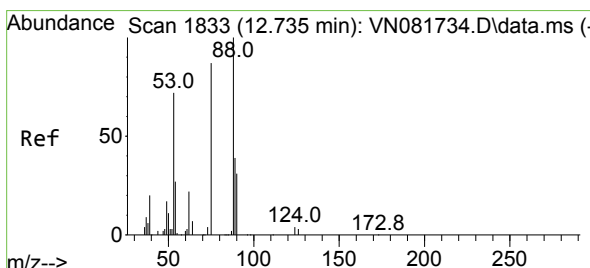
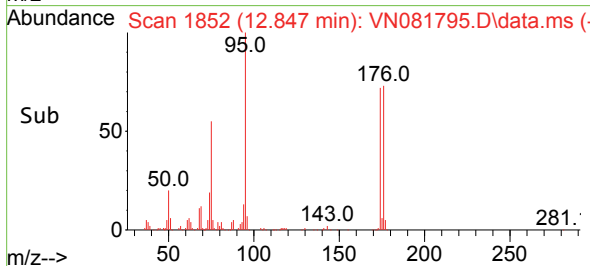
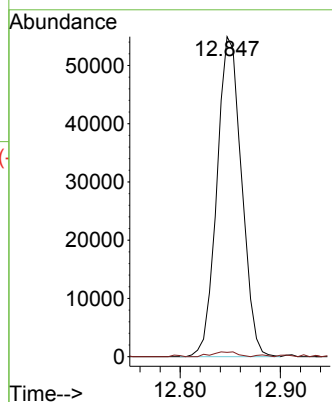
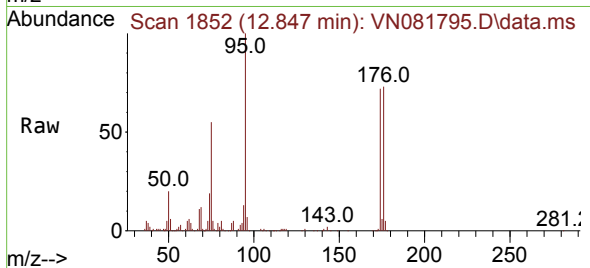
ClientSampleId :

Tgt Ion: 75 Resp: 93908

Ion Ratio Lower Upper

75 100

77 1.5 90.5 271.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.052 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN081795.D

Acq: 18 Apr 2024 18:18

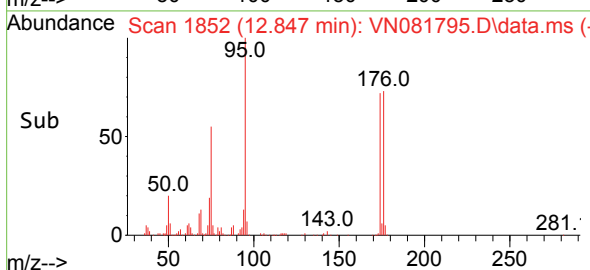
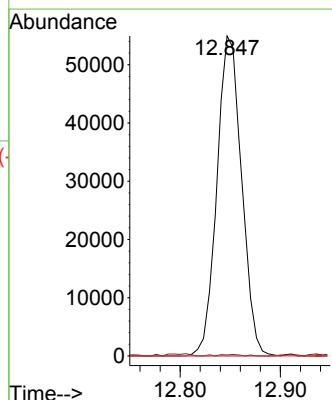
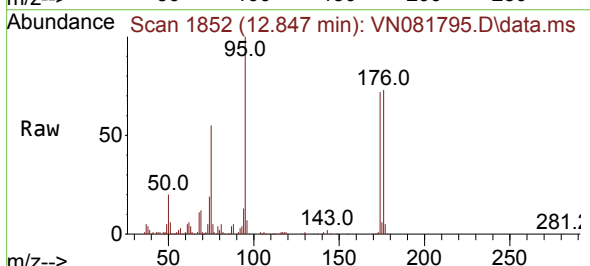
Tgt Ion: 75 Resp: 93908

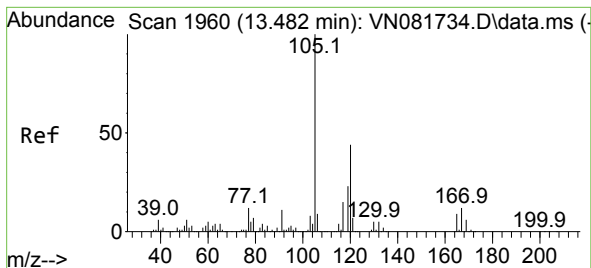
Ion Ratio Lower Upper

75 100

53 0.4 72.9 109.3#

89 0.0 39.1 58.7#





#84

1,2,4-Trimethylbenzene

Concen: 0.551 ug/l

RT: 13.500 min Scan# 1963

Delta R.T. 0.018 min

Lab File: VN081795.D

Acq: 18 Apr 2024 18:18

Instrument :

MSVOA_N

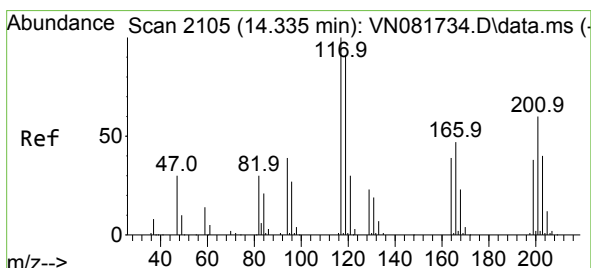
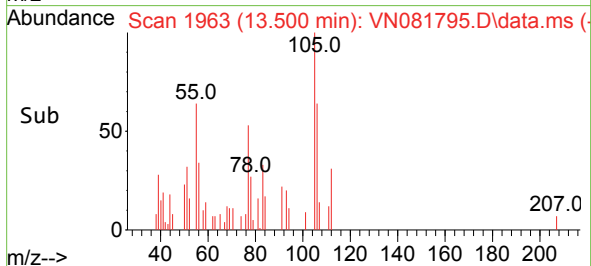
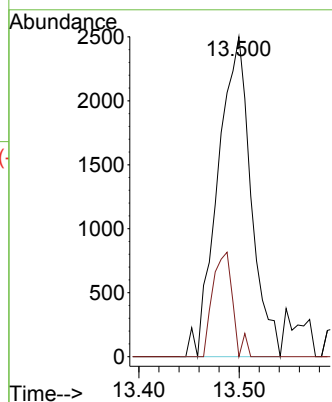
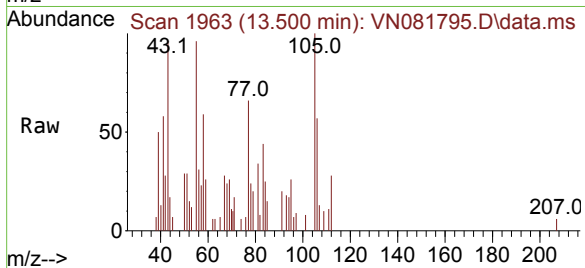
ClientSampleId :

Tgt Ion:105 Resp: 5751

Ion Ratio Lower Upper

105 100

120 19.7 22.9 68.7#



#90

Hexachloroethane

Concen: 0.499 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN081795.D

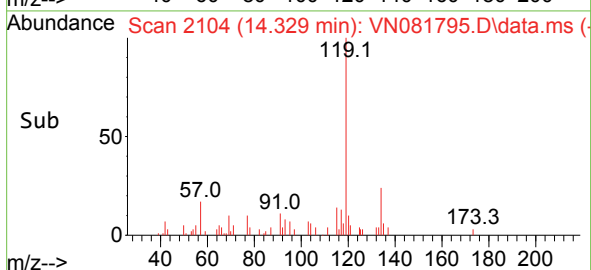
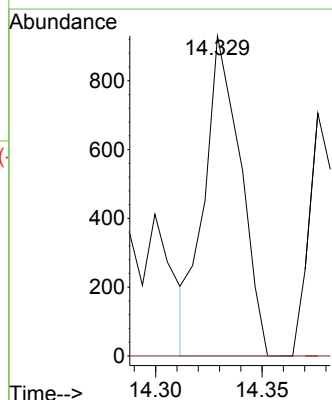
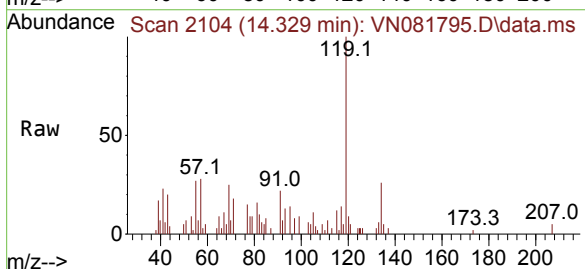
Acq: 18 Apr 2024 18:18

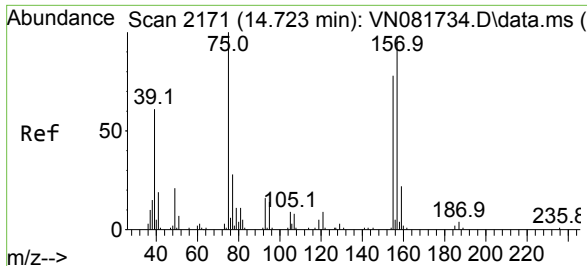
Tgt Ion:117 Resp: 1100

Ion Ratio Lower Upper

117 100

201 0.0 33.3 99.8#

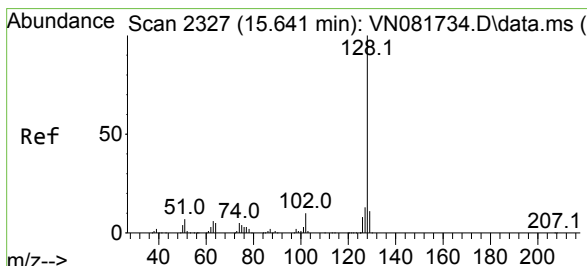
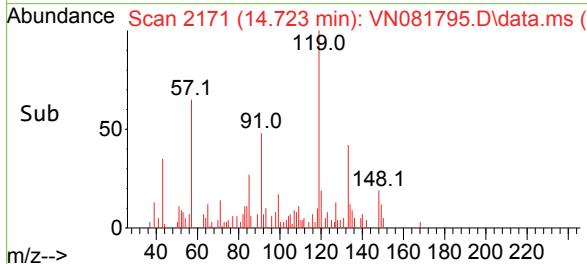
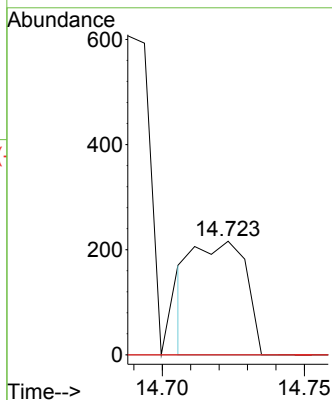
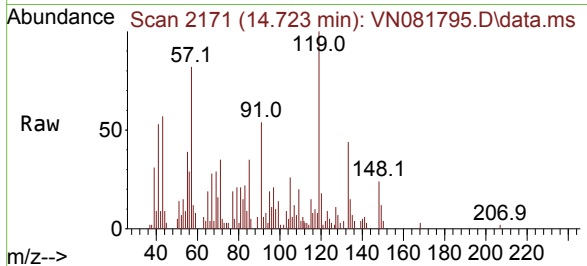




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 281
Ion Ratio Lower Upper
75 100
155 0.0 42.6 128.0#
157 0.0 53.0 159.0#



#95
Naphthalene
Concen: 12.648 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN081795.D
Acq: 18 Apr 2024 18:18

Tgt Ion: 128 Resp: 124306
Ion Ratio Lower Upper
128 100
127 15.7 10.1 15.1#
129 13.5 8.9 13.3#

