

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061724\
 Data File : VN082615.D
 Acq On : 17 Jun 2024 17:48
 Operator : JC\MD
 Sample : PB161507ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB161507ZHE#02

Quant Time: Jun 18 18:39:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061724W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 18 04:52:44 2024
 Response via : Initial Calibration

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

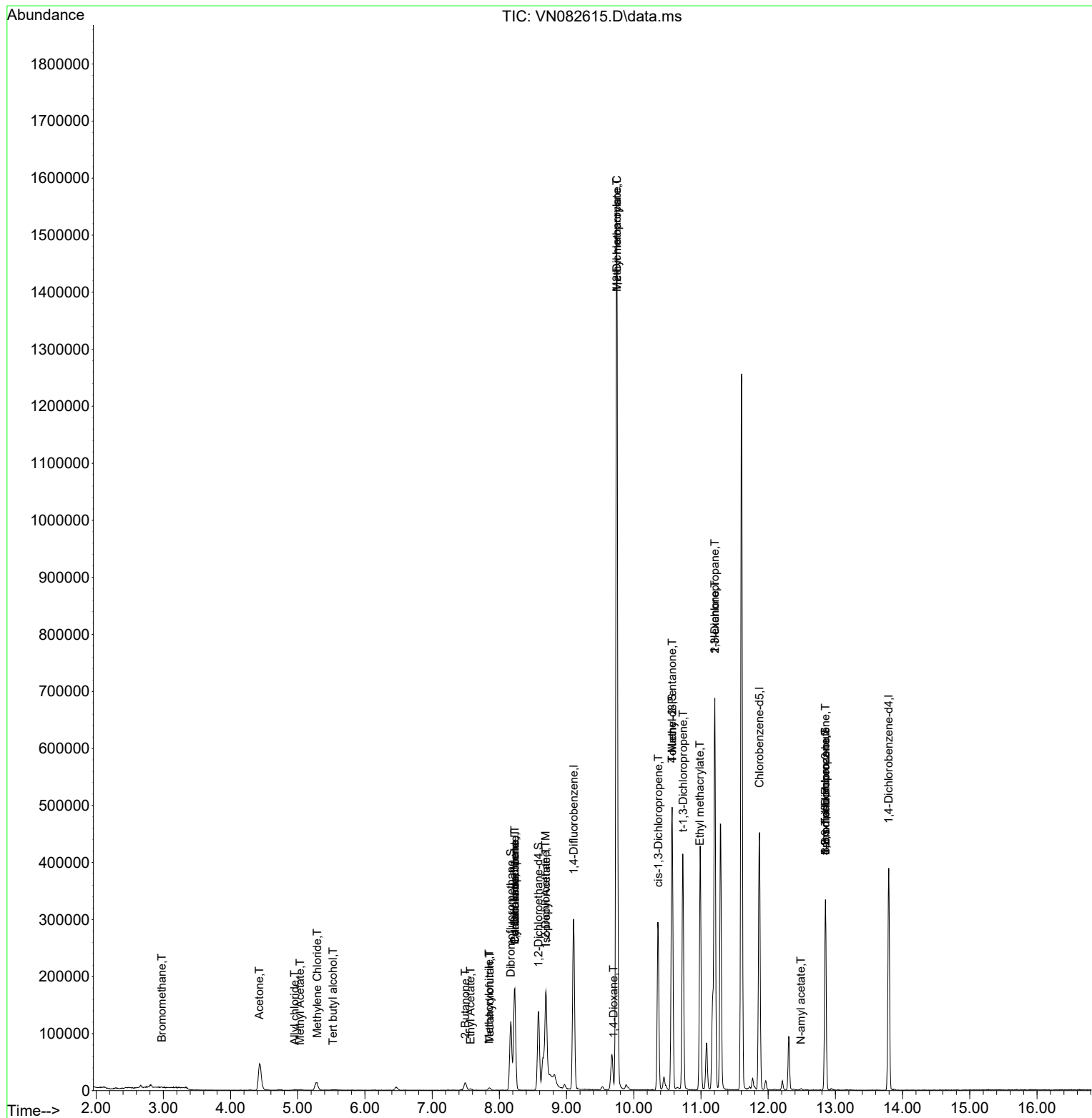
Internal Standards						
1) Pentafluorobenzene	8.230	168	125706	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	237023	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	242722	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	97395	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	113939	56.521	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.040%			
35) Dibromofluoromethane	8.171	113	84398	52.488	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.980%			
50) Toluene-d8	10.571	98	316866	52.111	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.220%			
62) 4-Bromofluorobenzene	12.853	95	104583	49.887	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 99.780%			
Target Compounds						Qvalue
5) Bromomethane	2.977	94	585	0.454	ug/l #	50
11) Tert butyl alcohol	5.524	59	243	0.737	ug/l #	71
14) Allyl chloride	4.953	41	1643	0.600	ug/l #	17
16) Acetone	4.430	43	95710	104.397	ug/l	93
18) Methyl Acetate	5.036	43	2467	1.100	ug/l #	77
20) Methylene Chloride	5.289	84	9728	6.035	ug/l	89
25) 2-Butanone	7.494	43	24018	18.431	ug/l	98
29) Tetrahydrofuran	7.859	42	2881	3.611	ug/l	95
31) Cyclohexane	8.230	56	3719	1.278	ug/l #	43
36) 1,1-Dichloropropene	8.230	75	11886	4.945	ug/l #	51
37) Ethyl Acetate	7.571	43	4359	1.424	ug/l #	82
38) Carbon Tetrachloride	8.230	117	13037	4.813	ug/l #	16
41) Methacrylonitrile	7.847	41	2472	1.579	ug/l #	50
42) 1,2-Dichloroethane	8.688	62	999	0.354	ug/l #	78
43) Isopropyl Acetate	8.694	43	272590	47.638	ug/l #	80
45) 1,2-Dichloropropane	9.747	63	1820	0.952	ug/l #	44
48) Methyl methacrylate	9.747	41	153178	64.936	ug/l #	52
49) 1,4-Dioxane	9.700	88	59	1.599	ug/l #	21
51) 4-Methyl-2-Pentanone	10.571	43	8749	2.981	ug/l	93
53) t-1,3-Dichloropropene	10.735	75	1035	0.366	ug/l #	67
54) cis-1,3-Dichloropropene	10.365	75	44853	15.357	ug/l #	67
56) Ethyl methacrylate	10.982	69	1877	0.696	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6418	2.131	ug/l #	43
59) 2-Hexanone	11.206	43	107871	48.358	ug/l #	53
71) Bromoform	12.853	173	808	0.515	ug/l #	1
74) N-amyl acetate	12.488	43	1373	0.348	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	60992	25.604	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	60992	61.256	ug/l #	6

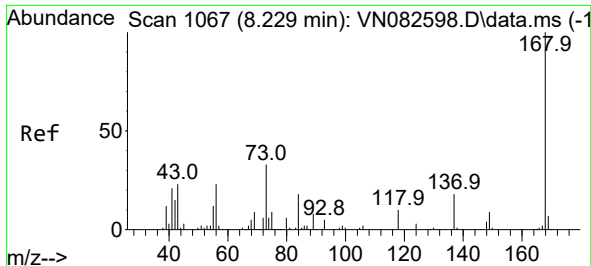
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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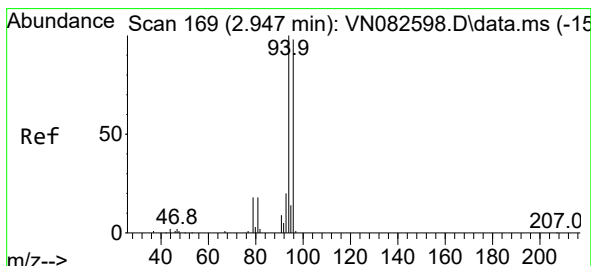
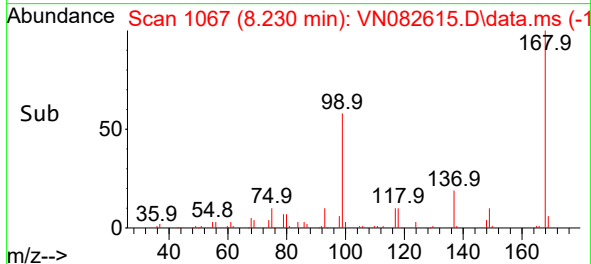
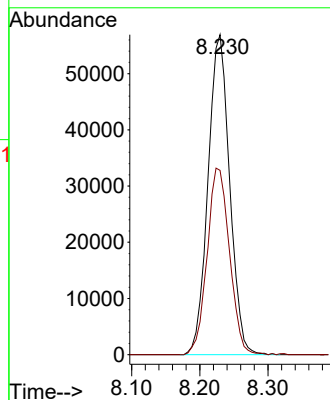
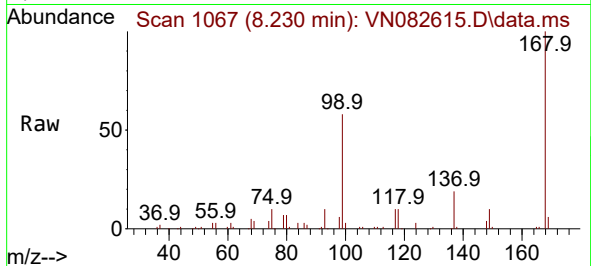




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

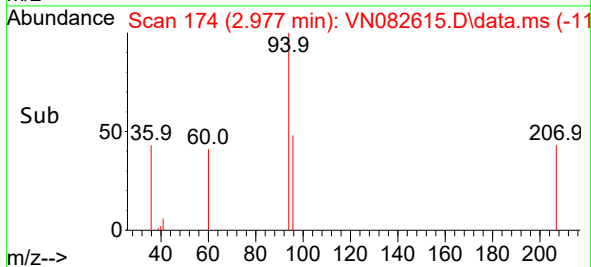
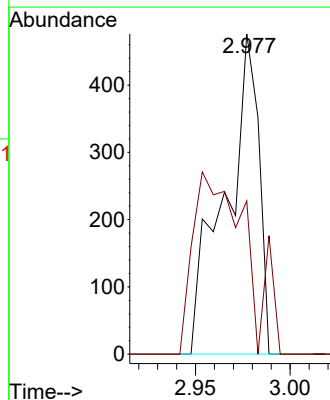
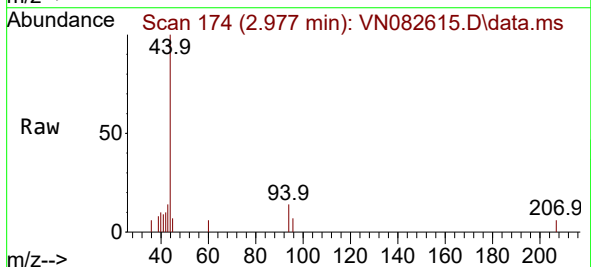
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

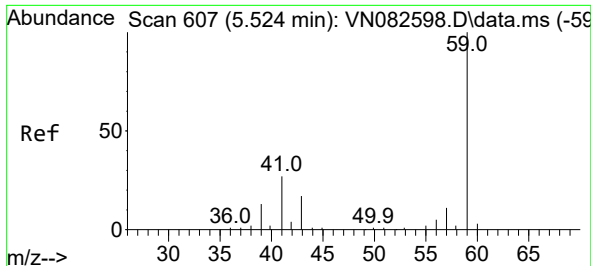
Tgt Ion:168 Resp: 125706
Ion Ratio Lower Upper
168 100
99 57.6 48.2 72.4



#5
Bromomethane
Concen: 0.454 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.030 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 94 Resp: 585
Ion Ratio Lower Upper
94 100
96 47.9 78.0 117.0#





#11

Tert butyl alcohol

Concen: 0.737 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.000 min

Lab File: VN082615.D

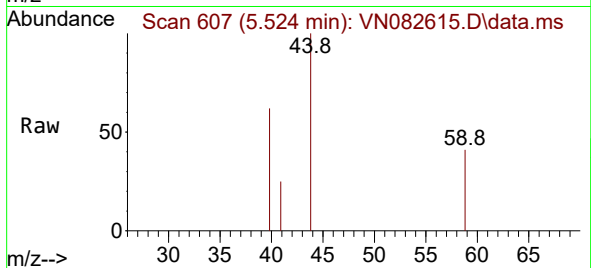
Acq: 17 Jun 2024 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB161507ZHE#02

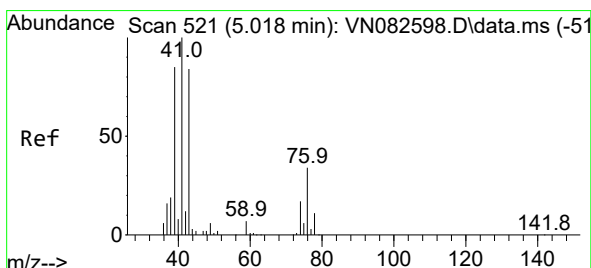
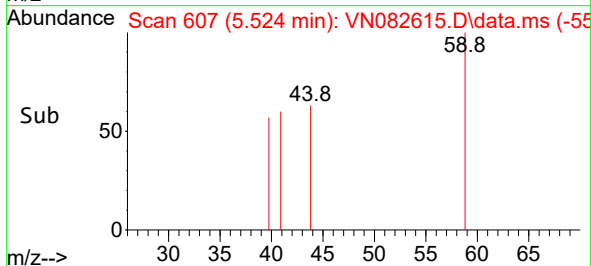
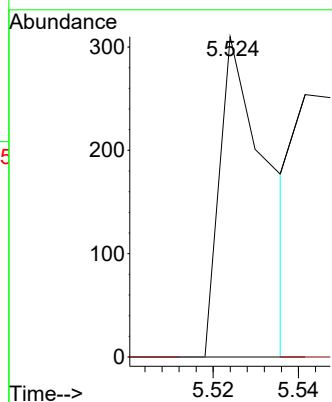


Tgt Ion: 59 Resp: 243

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#



#14

Allyl chloride

Concen: 0.600 ug/l

RT: 4.953 min Scan# 510

Delta R.T. -0.065 min

Lab File: VN082615.D

Acq: 17 Jun 2024 17:48

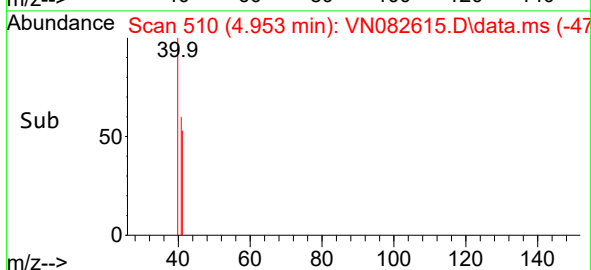
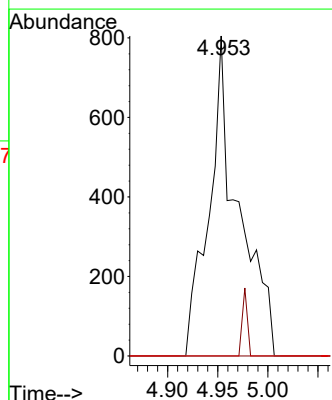
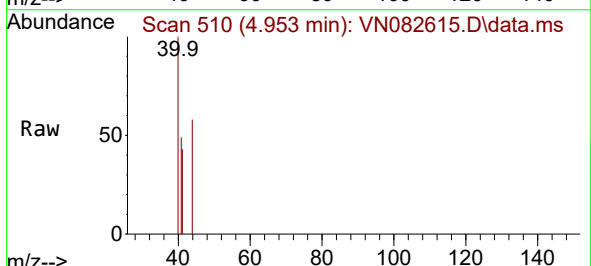
Tgt Ion: 41 Resp: 1643

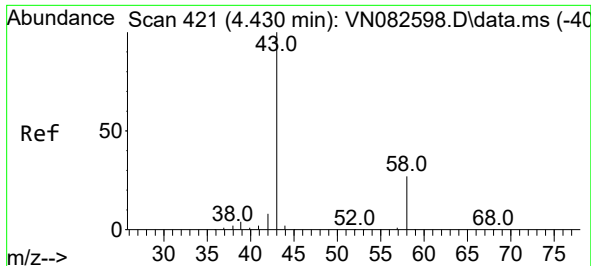
Ion Ratio Lower Upper

41 100

39 0.0 67.8 101.6#

76 0.0 25.8 38.8#

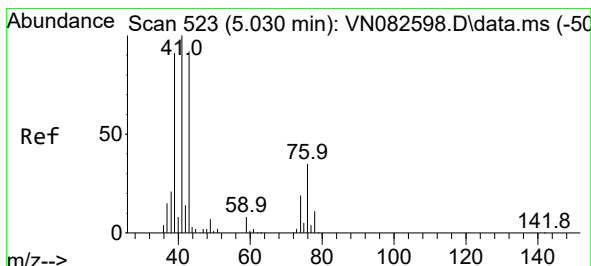
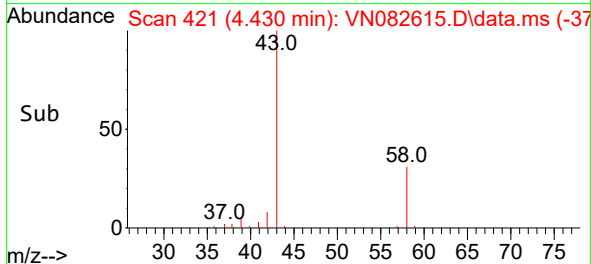
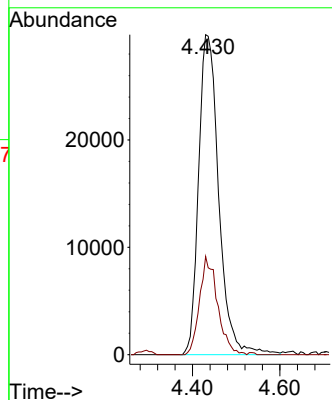
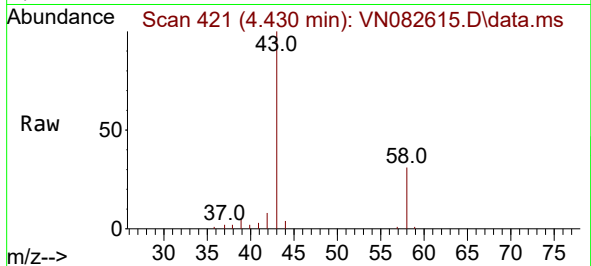




#16
Acetone
Concen: 104.397 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

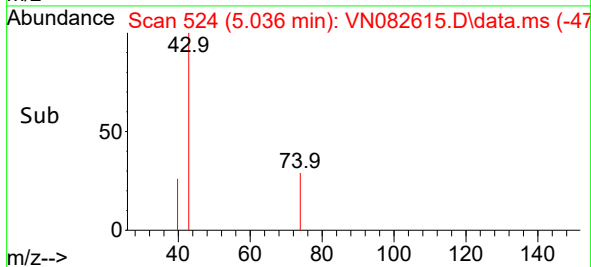
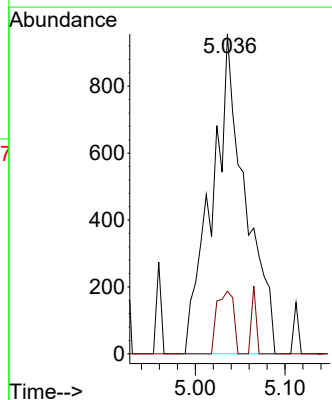
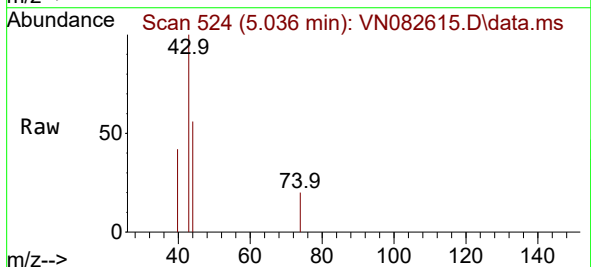
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

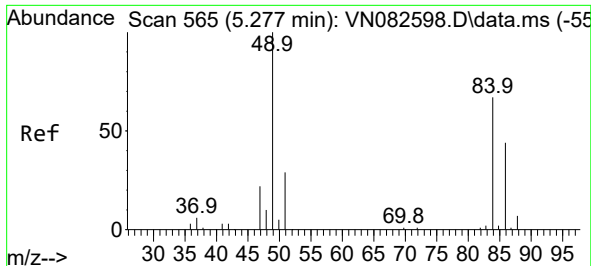
Tgt Ion: 43 Resp: 95710
Ion Ratio Lower Upper
43 100
58 30.7 21.8 32.6



#18
Methyl Acetate
Concen: 1.100 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.006 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

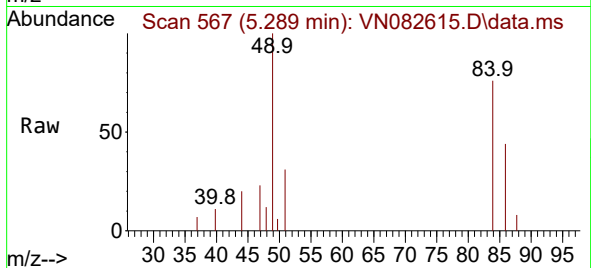
Tgt Ion: 43 Resp: 2467
Ion Ratio Lower Upper
43 100
74 9.7 16.3 24.5#



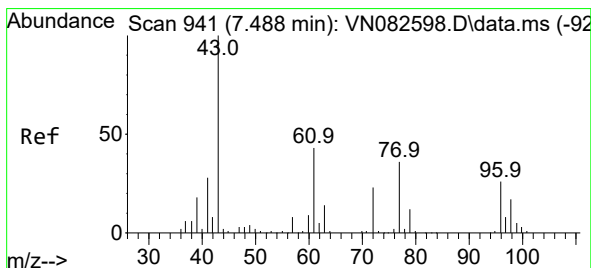
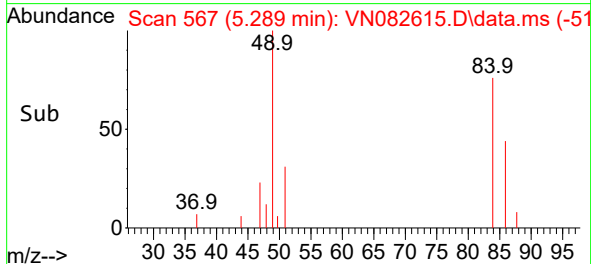
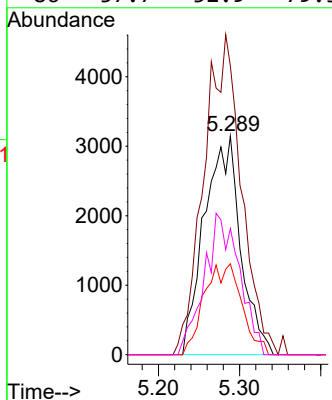


#20
Methylene Chloride
Concen: 6.035 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

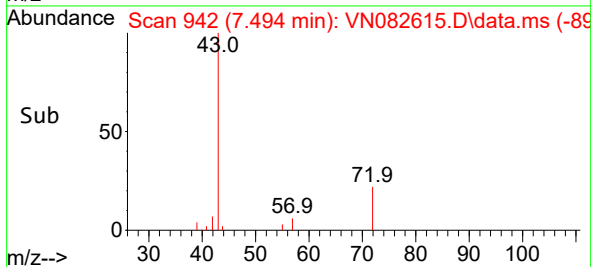
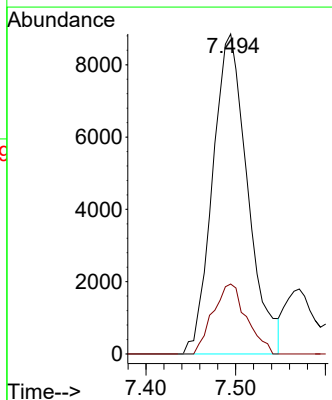
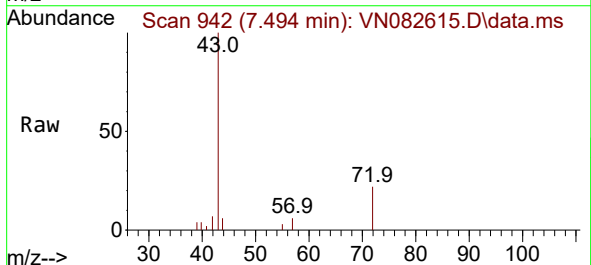


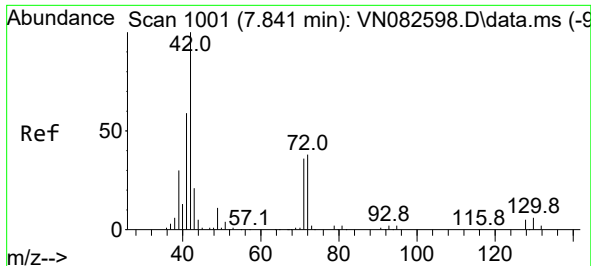
Tgt Ion:	84	Resp:	9728
Ion	Ratio	Lower	Upper
84	100		
49	132.0	119.6	179.4
51	41.5	34.8	52.2
86	57.7	52.9	79.3



#25
2-Butanone
Concen: 18.431 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion:	43	Resp:	24018
Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.2	27.2





#29

Tetrahydrofuran

Concen: 3.611 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.018 min

Lab File: VN082615.D

Acq: 17 Jun 2024 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB161507ZHE#02

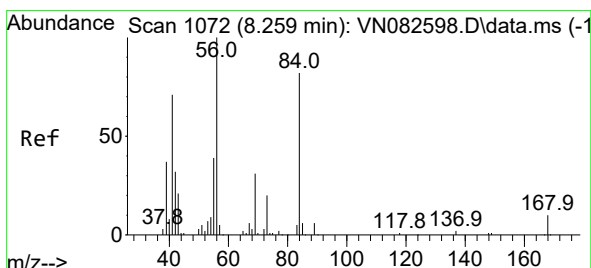
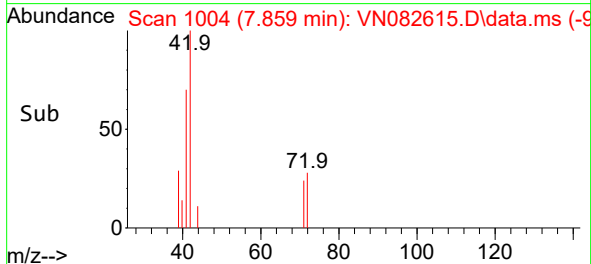
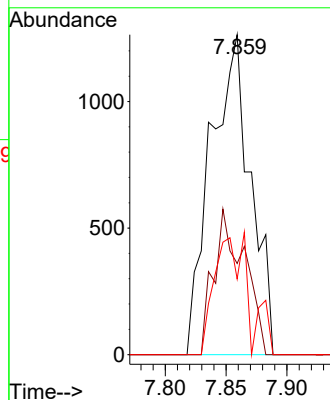
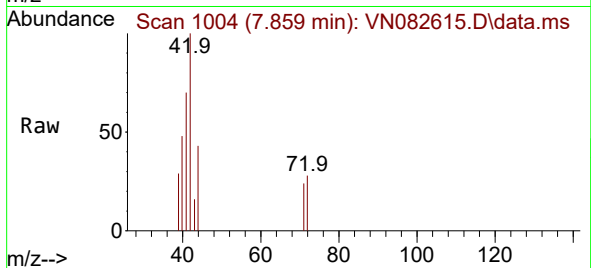
Tgt Ion: 42 Resp: 2881

Ion Ratio Lower Upper

42 100

72 34.9 30.0 45.0

71 32.1 28.3 42.5



#31

Cyclohexane

Concen: 1.278 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.029 min

Lab File: VN082615.D

Acq: 17 Jun 2024 17:48

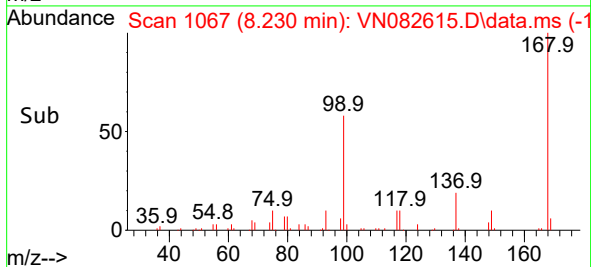
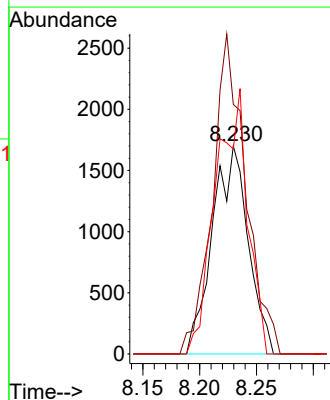
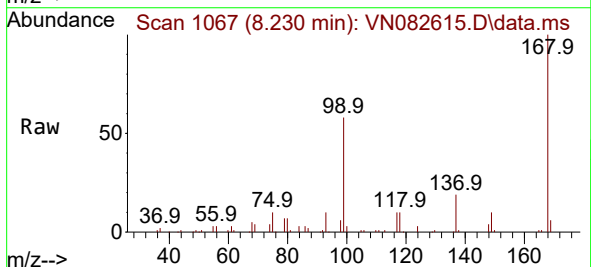
Tgt Ion: 56 Resp: 3719

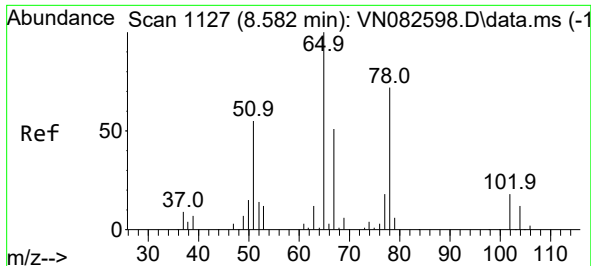
Ion Ratio Lower Upper

56 100

69 120.0 24.5 36.7#

84 98.6 66.0 99.0





#33

1,2-Dichloroethane-d4

Concen: 56.521 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN082615.D

Acq: 17 Jun 2024 17:48

Instrument :

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ClientSampleId :

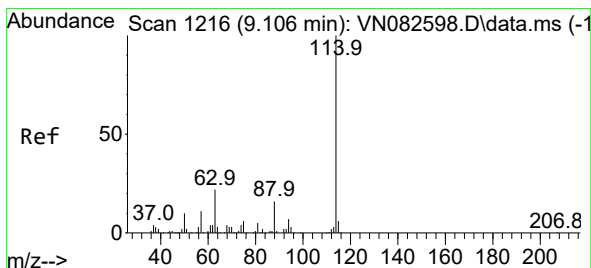
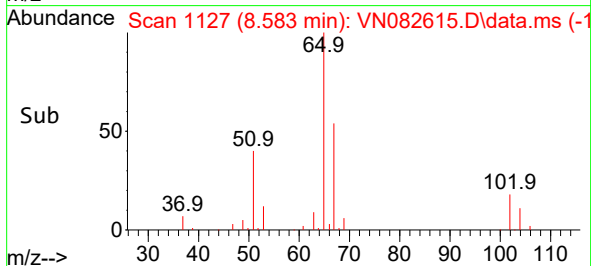
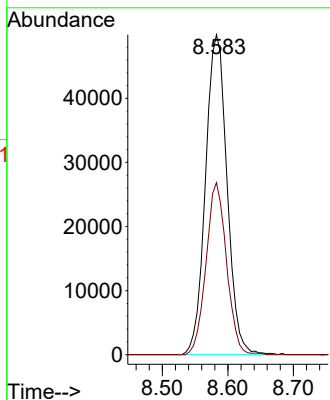
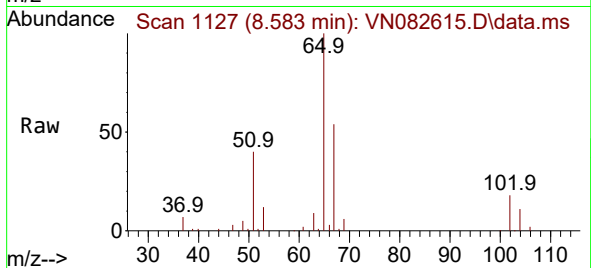
PB161507ZHE#02

Tgt Ion: 65 Resp: 113939

Ion Ratio Lower Upper

65 100

67 51.0 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN082615.D

Acq: 17 Jun 2024 17:48

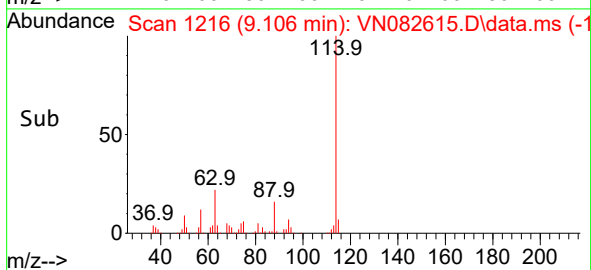
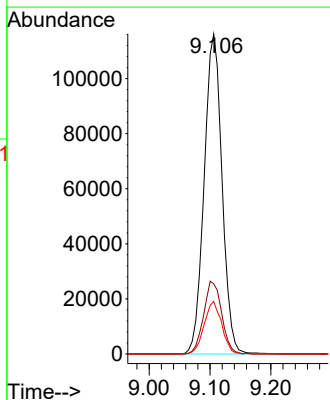
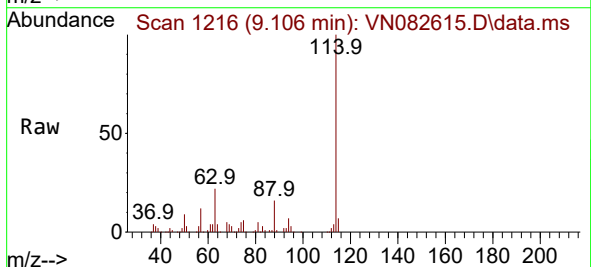
Tgt Ion: 114 Resp: 237023

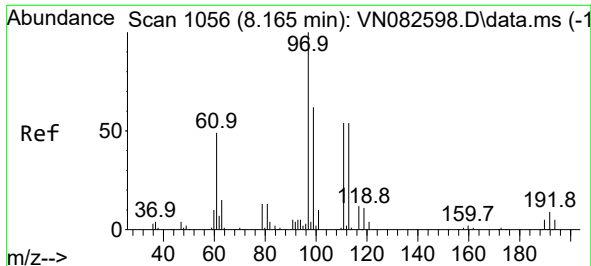
Ion Ratio Lower Upper

114 100

63 21.9 0.0 44.6

88 16.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 52.488 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN082615.D

Acq: 17 Jun 2024 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB161507ZHE#02

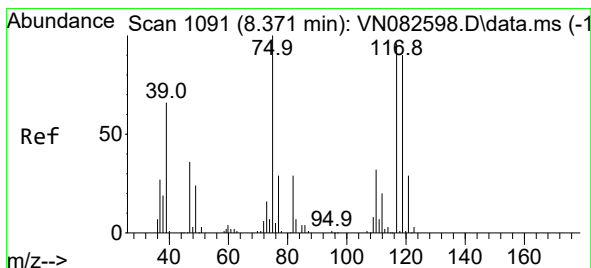
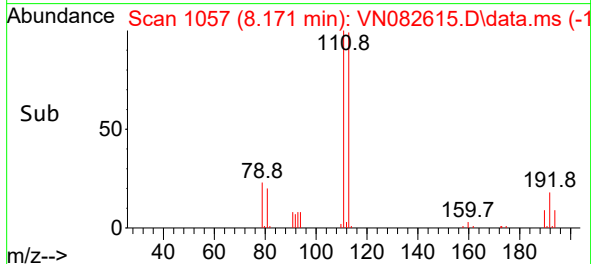
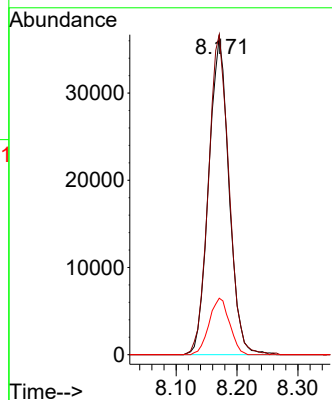
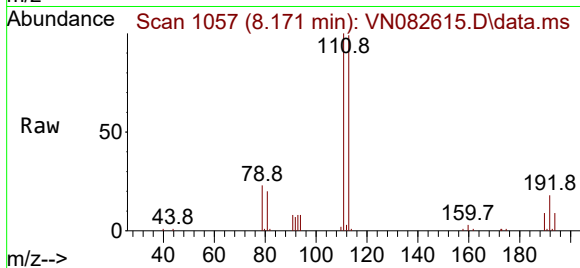
Tgt Ion:113 Resp: 84398

Ion Ratio Lower Upper

113 100

111 101.8 82.4 123.6

192 17.8 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.945 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN082615.D

Acq: 17 Jun 2024 17:48

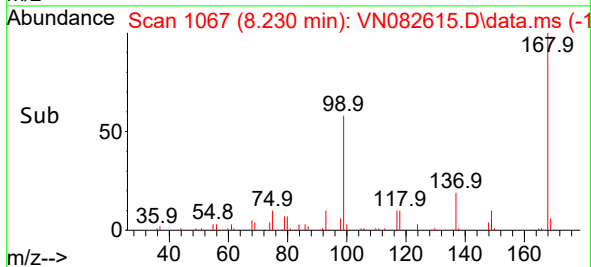
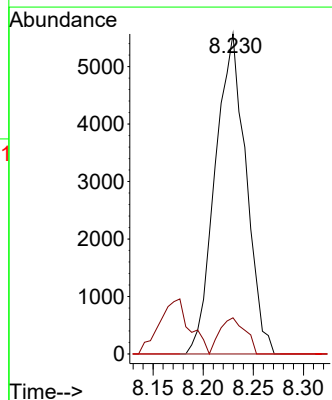
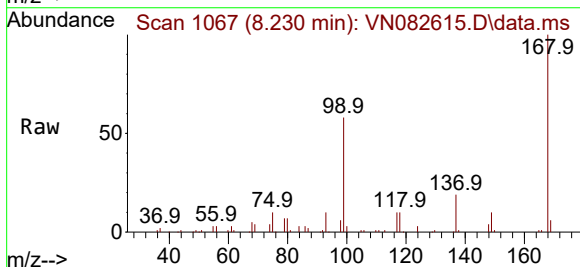
Tgt Ion: 75 Resp: 11886

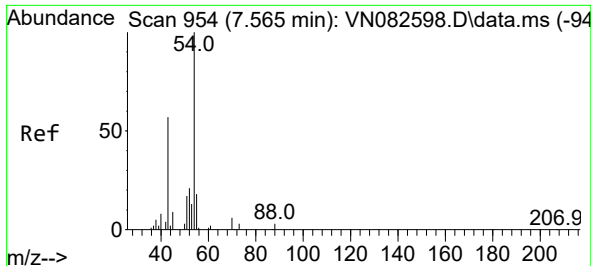
Ion Ratio Lower Upper

75 100

110 9.3 16.3 48.9#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.424 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN082615.D

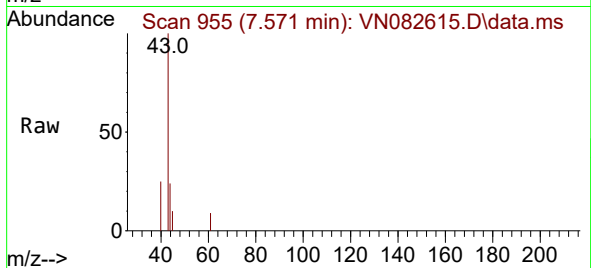
Acq: 17 Jun 2024 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB161507ZHE#02



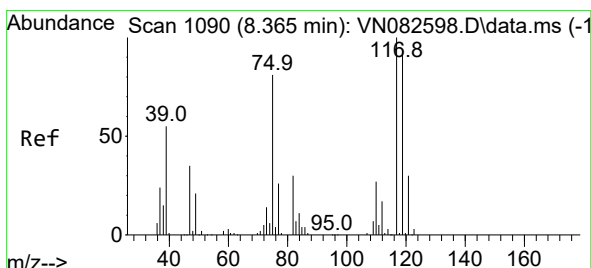
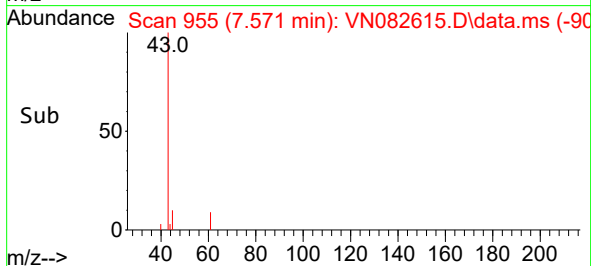
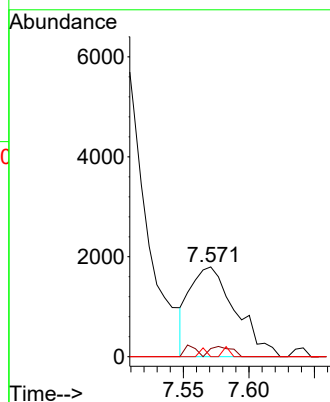
Tgt Ion: 43 Resp: 4359

Ion Ratio Lower Upper

43 100

61 5.5 9.3 13.9#

70 1.6 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 4.813 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN082615.D

Acq: 17 Jun 2024 17:48

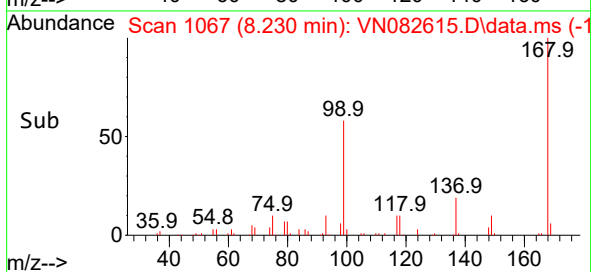
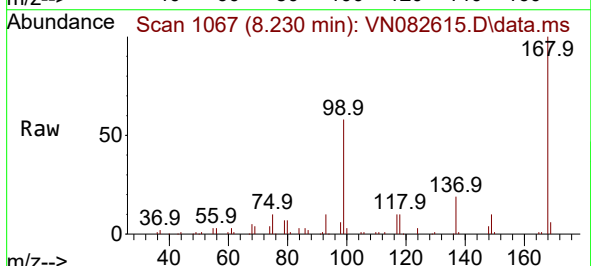
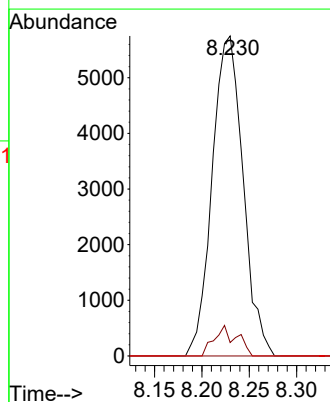
Tgt Ion: 117 Resp: 13037

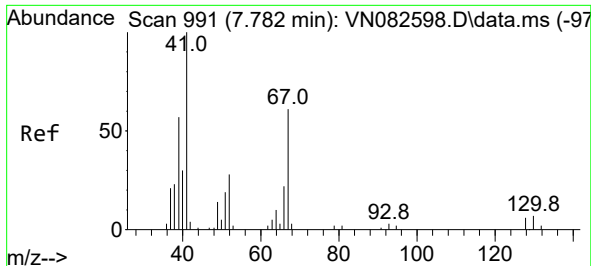
Ion Ratio Lower Upper

117 100

119 4.2 74.9 112.3#

121 0.0 24.3 36.5#

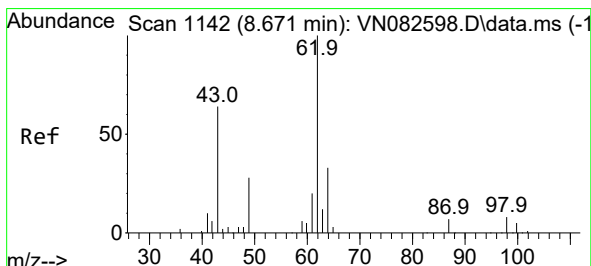
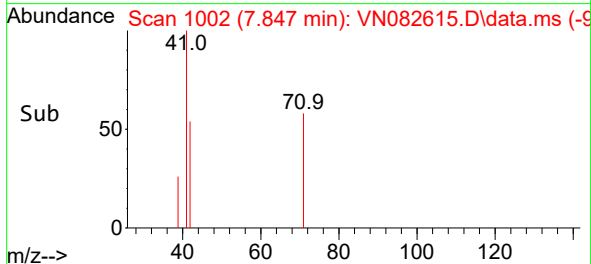
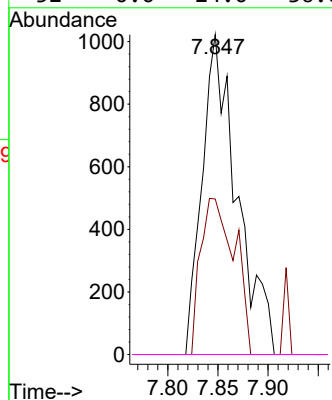
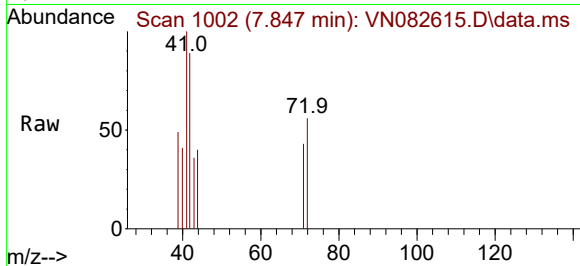




#41
Methacrylonitrile
Concen: 1.579 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.065 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

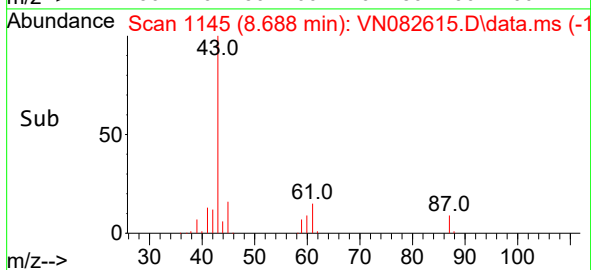
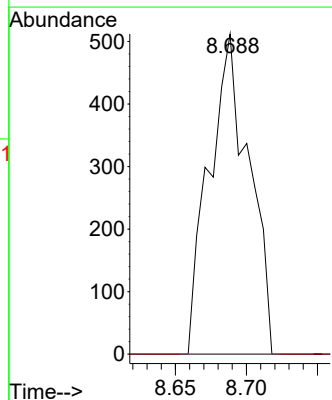
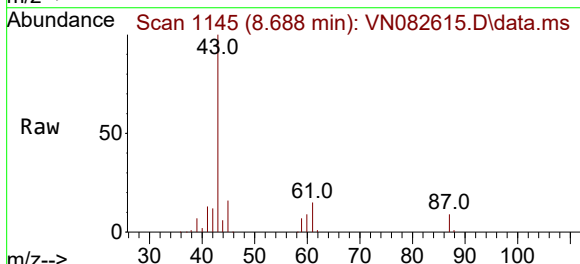
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

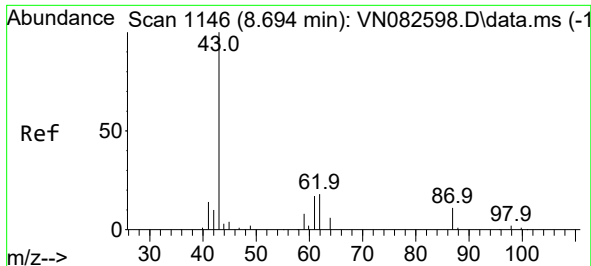
Tgt	Ion: 41	Resp:	2472
Ion	Ratio	Lower	Upper
41	100		
39	47.8	45.5	68.3
67	0.0	50.5	75.7#
52	0.0	24.0	36.0#



#42
1,2-Dichloroethane
Concen: 0.354 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.018 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 62	Resp:	999	
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	15.8

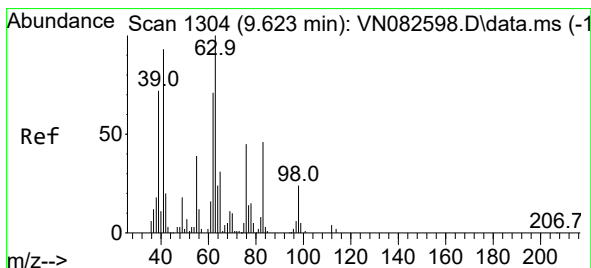
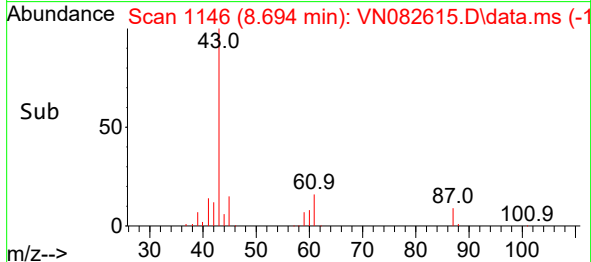
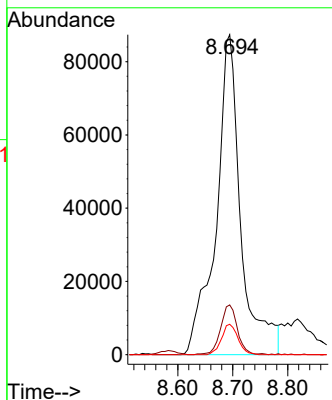
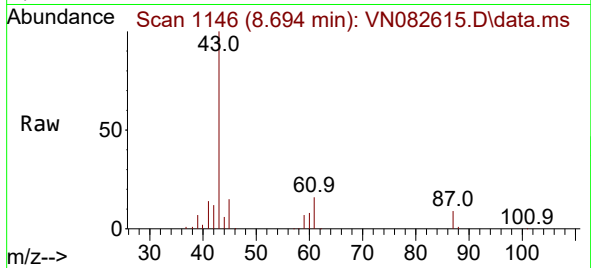




#43
Isopropyl Acetate
Concen: 47.638 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

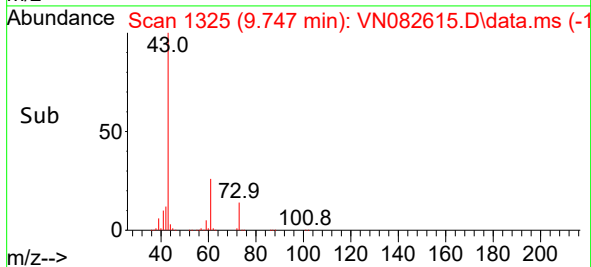
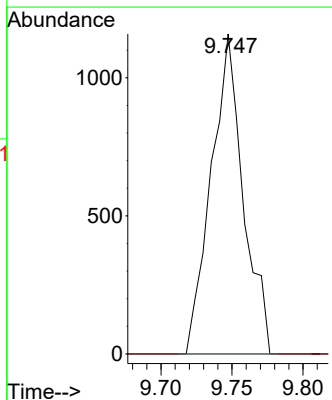
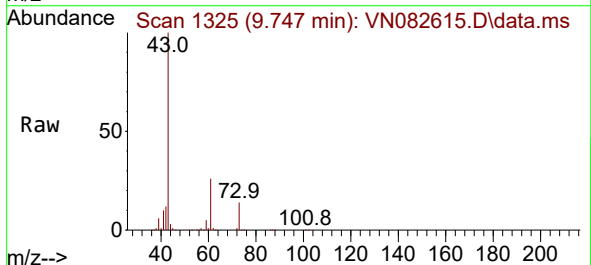
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

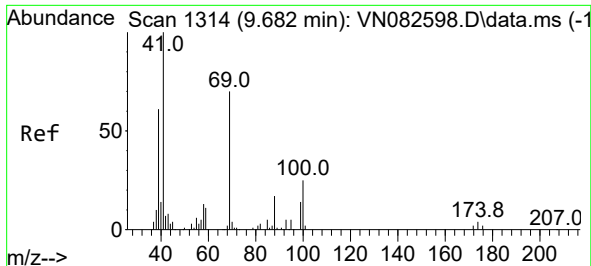
Tgt Ion: 43 Resp: 272590
Ion Ratio Lower Upper
43 100
61 10.5 17.8 26.6#
87 6.3 8.2 12.2#



#45
1,2-Dichloropropane
Concen: 0.952 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.124 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 63 Resp: 1820
Ion Ratio Lower Upper
63 100
65 0.0 24.4 36.6#

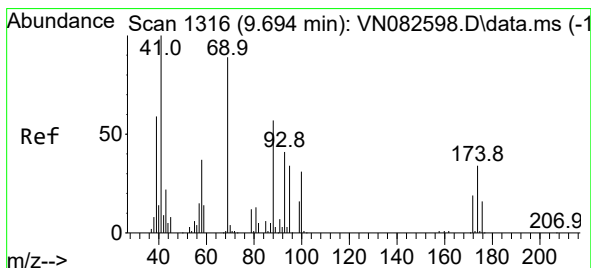
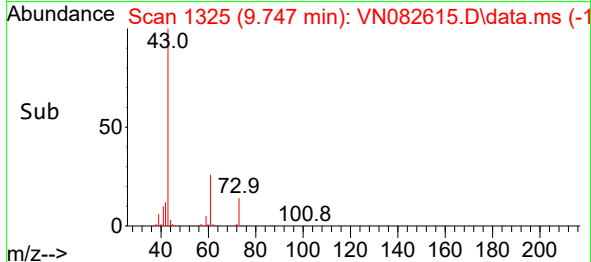
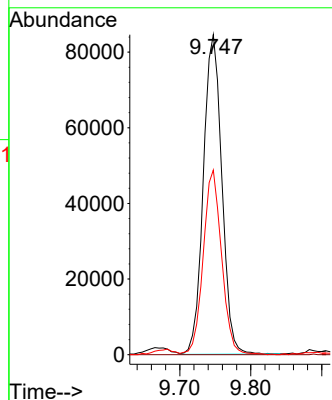
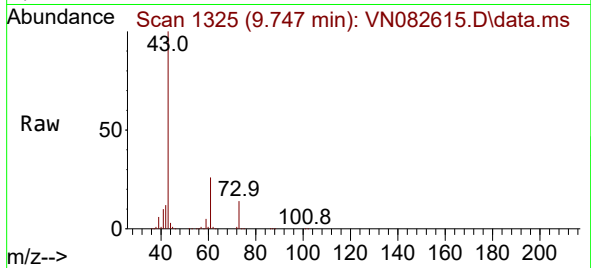




#48
Methyl methacrylate
Concen: 64.936 ug/l
RT: 9.747 min Scan# 1314
Delta R.T. 0.065 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

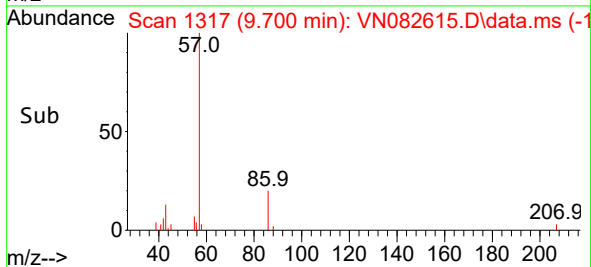
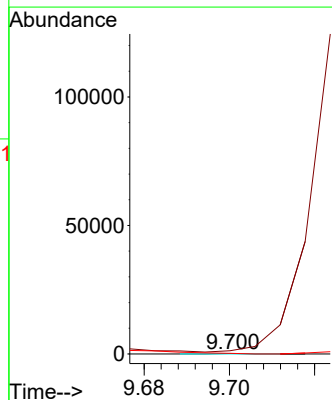
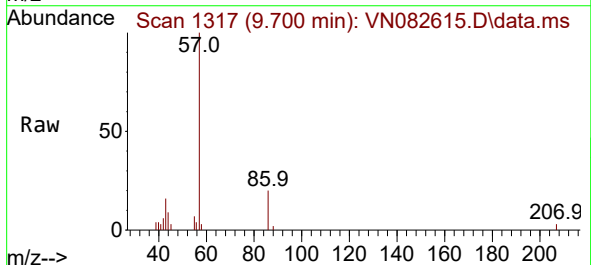
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

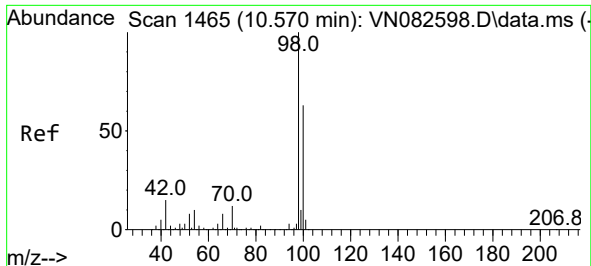
Tgt Ion: 41 Resp: 153178
Ion Ratio Lower Upper
41 100
69 0.0 56.3 84.5#
39 57.6 50.3 75.5



#49
1,4-Dioxane
Concen: 1.599 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.8#
58 0.0 59.4 89.0#

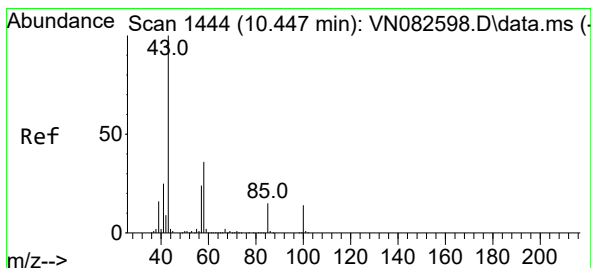
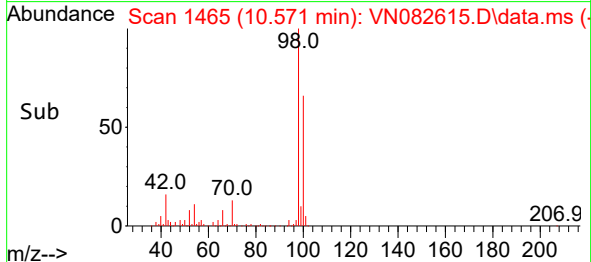
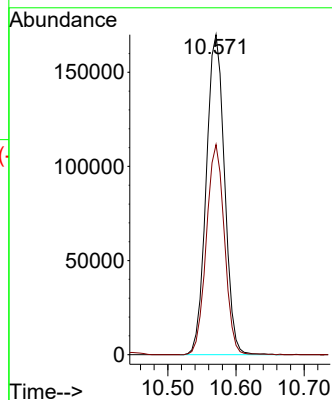
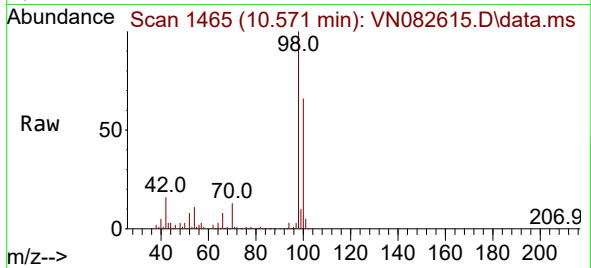




#50
Toluene-d8
Concen: 52.111 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

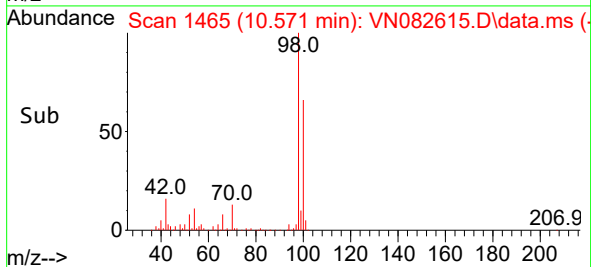
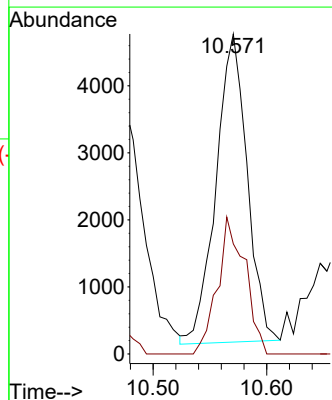
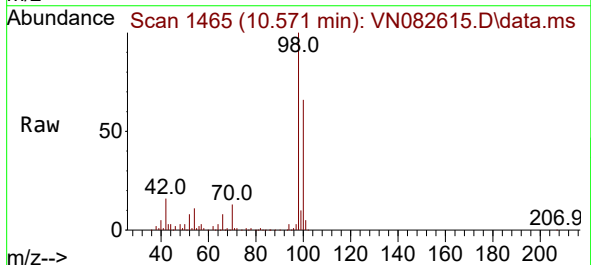
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

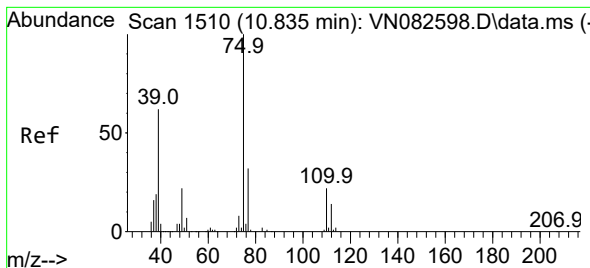
Tgt Ion: 98 Resp: 316866
Ion Ratio Lower Upper
98 100
100 64.9 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 2.981 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.124 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 43 Resp: 8749
Ion Ratio Lower Upper
43 100
58 39.3 28.2 42.4

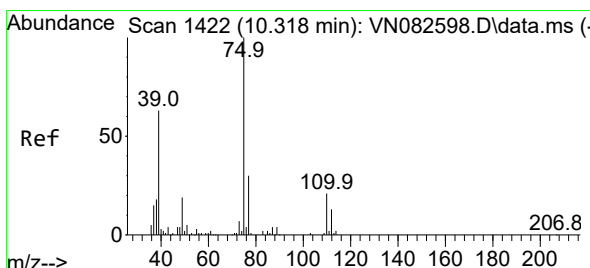
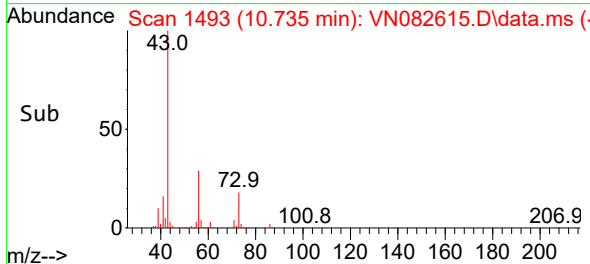
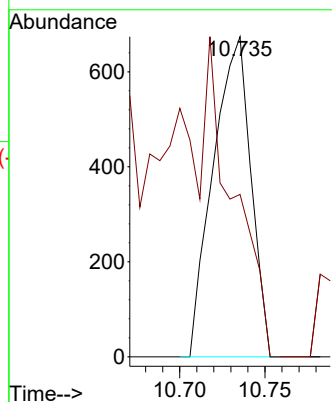
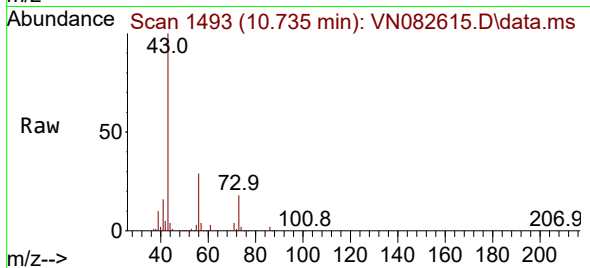




#53
t-1,3-Dichloropropene
Concen: 0.366 ug/l
RT: 10.735 min Scan# 1430
Delta R.T. -0.100 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

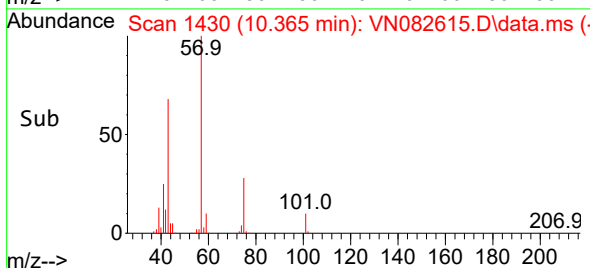
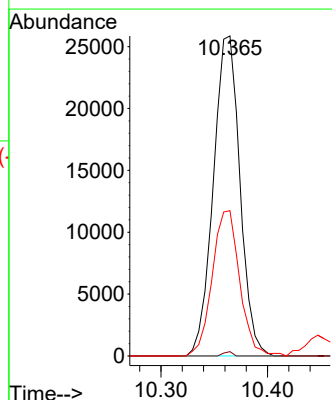
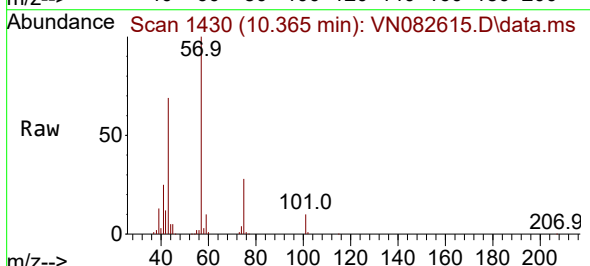
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

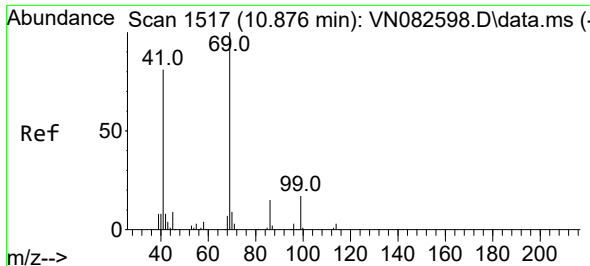
Tgt Ion: 75 Resp: 1035
Ion Ratio Lower Upper
75 100
77 50.7 25.7 38.5#



#54
cis-1,3-Dichloropropene
Concen: 15.357 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 75 Resp: 44853
Ion Ratio Lower Upper
75 100
77 1.3 24.3 36.5#
39 45.4 50.5 75.7#

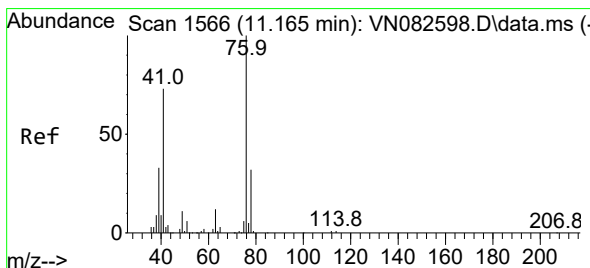
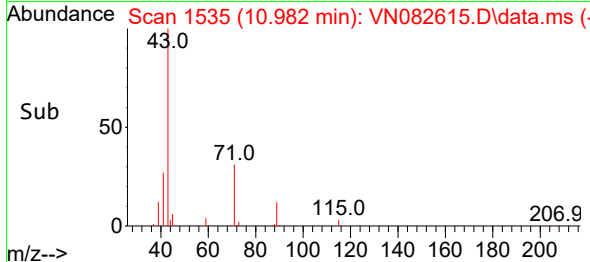
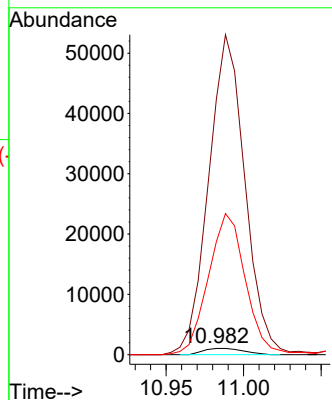
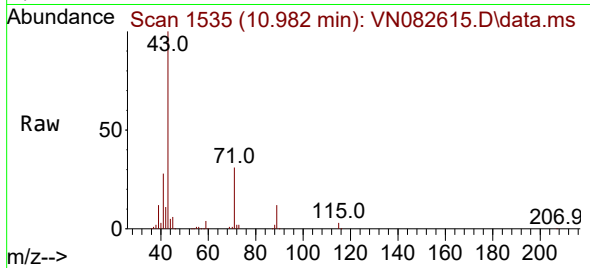




#56
Ethyl methacrylate
Concen: 0.696 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.106 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

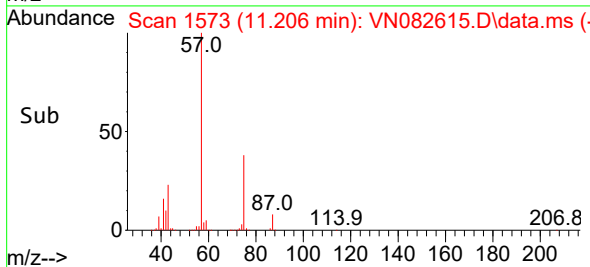
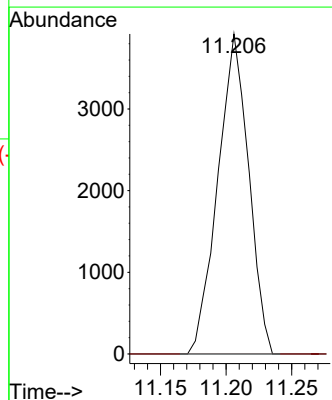
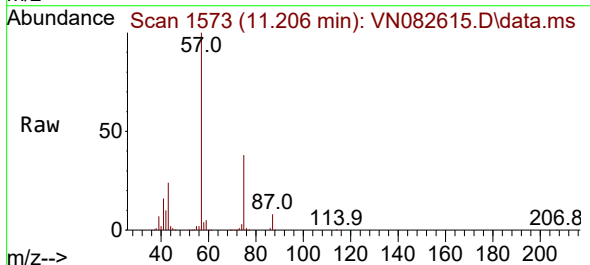
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

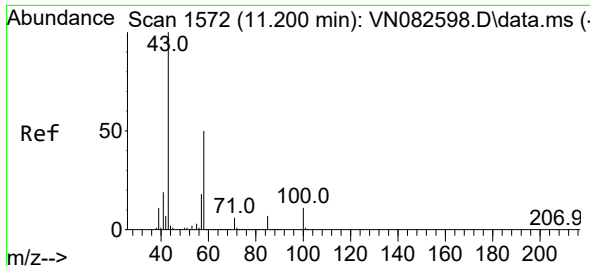
Tgt Ion: 69 Resp: 1877
Ion Ratio Lower Upper
69 100
41 4624.7 63.4 95.2#
39 2075.0 37.4 56.0#



#57
1,3-Dichloropropane
Concen: 2.131 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 76 Resp: 6418
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

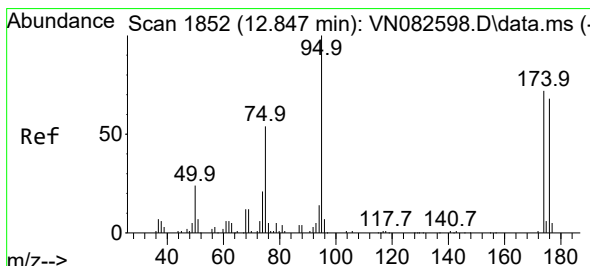
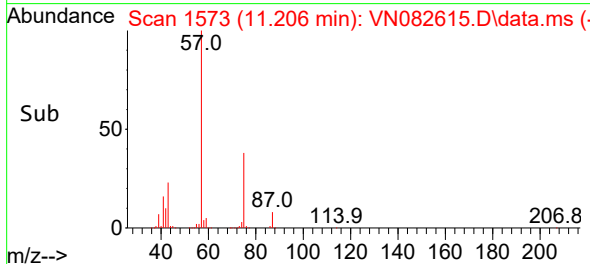
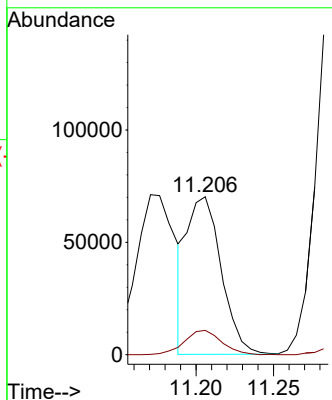
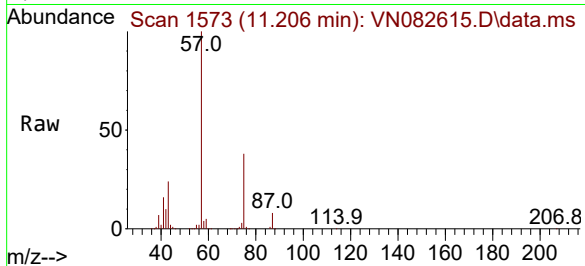




#59
2-Hexanone
Concen: 48.358 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

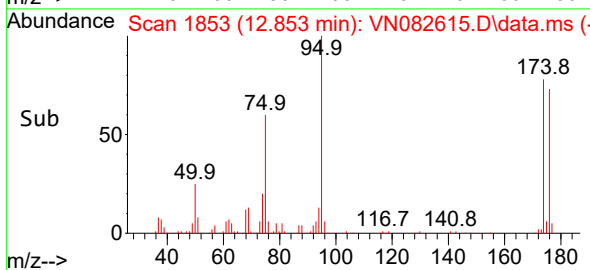
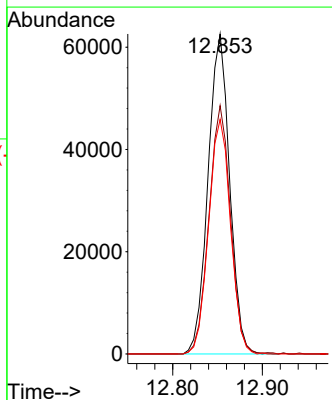
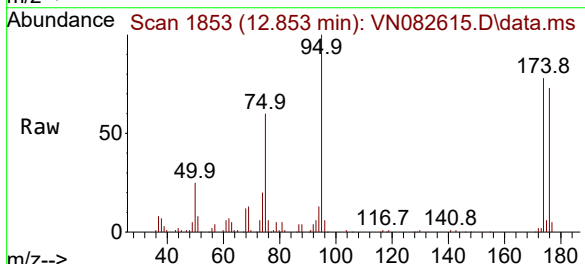
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

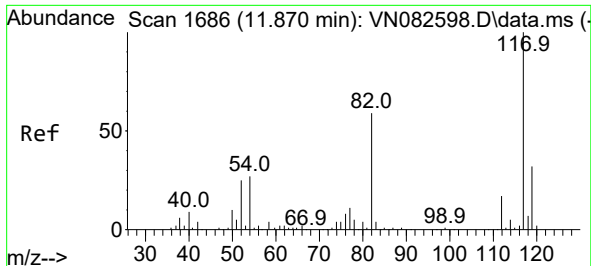
Tgt Ion: 43 Resp: 107871
Ion Ratio Lower Upper
43 100
58 16.8 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 49.887 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 95 Resp: 104583
Ion Ratio Lower Upper
95 100
174 77.9 0.0 159.2
176 74.2 0.0 147.6

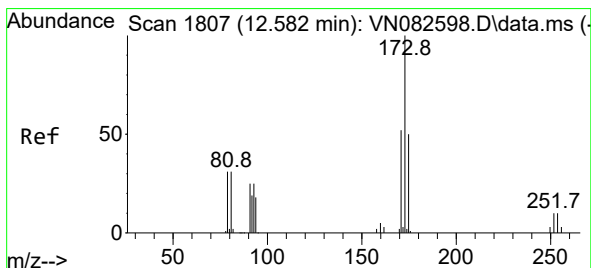
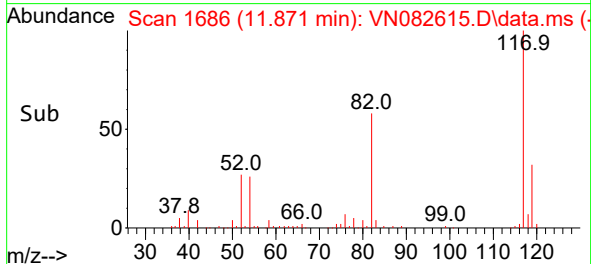
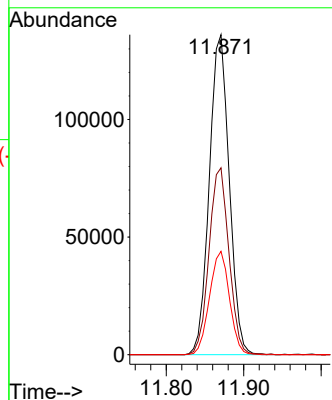
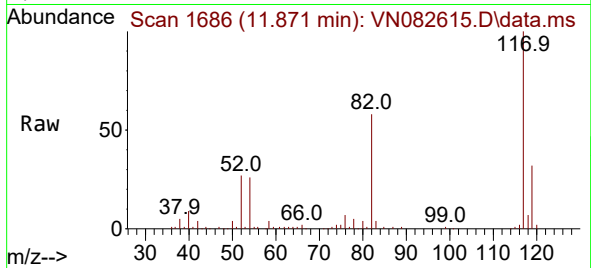




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

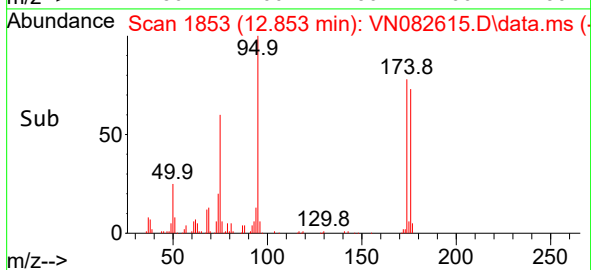
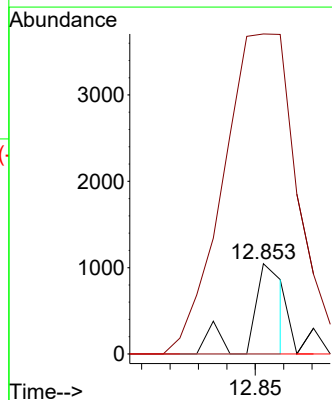
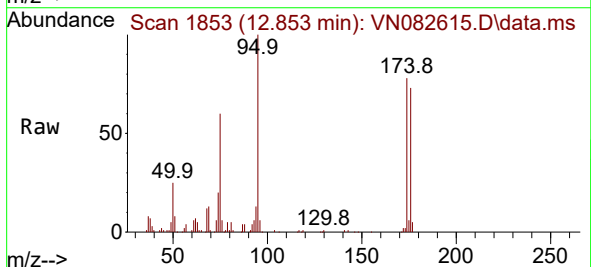
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

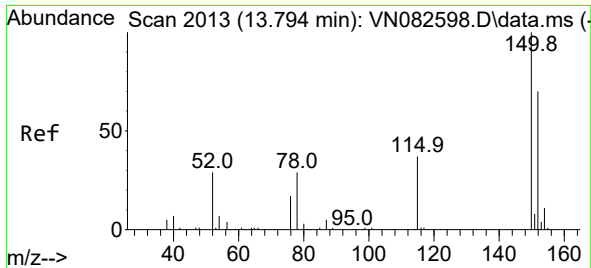
Tgt Ion:117 Resp: 242722
Ion Ratio Lower Upper
117 100
82 58.4 47.5 71.3
119 32.3 25.6 38.4



#71
Bromoform
Concen: 0.515 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion:173 Resp: 808
Ion Ratio Lower Upper
173 100
175 692.1 24.0 72.0#
254 0.0 0.0 0.0

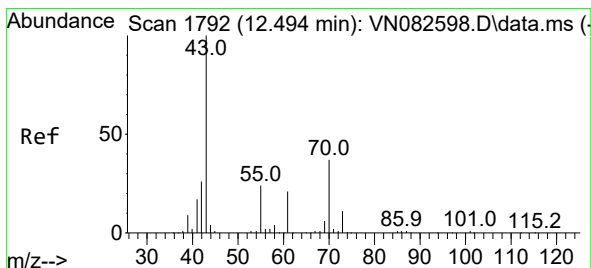
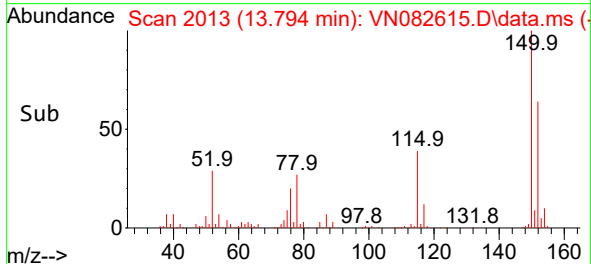
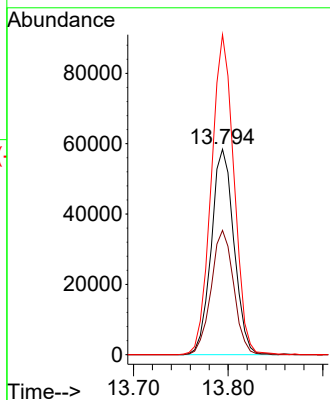
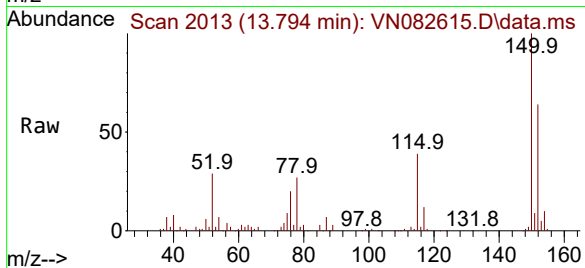




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

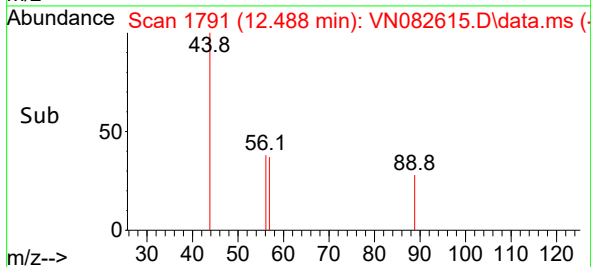
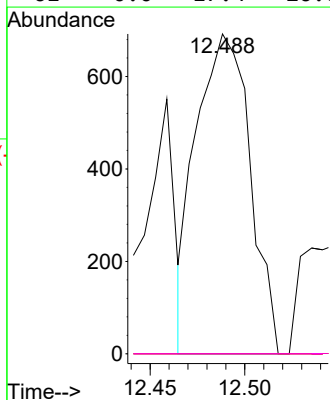
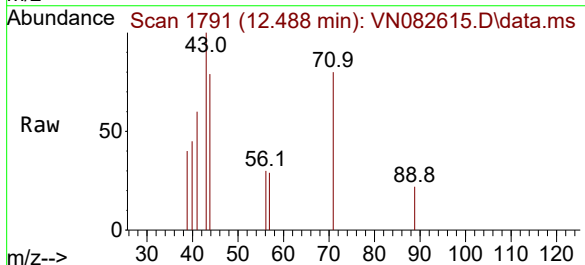
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

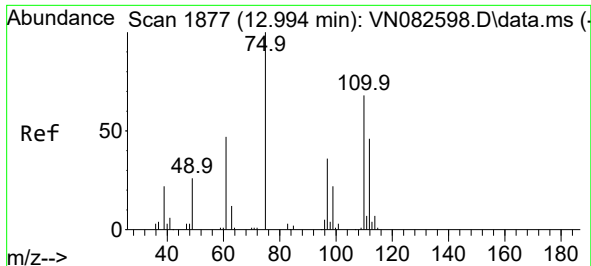
Tgt Ion:152 Resp: 97395
Ion Ratio Lower Upper
152 100
115 60.2 30.6 91.6
150 155.8 0.0 348.6



#74
N-ethyl acetate
Concen: 0.348 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 43 Resp: 1373
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.6#
55 0.0 18.7 28.1#
61 0.0 17.4 26.0#

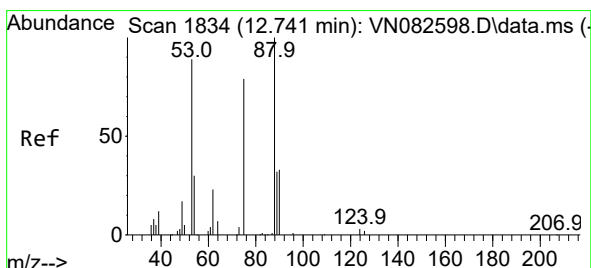
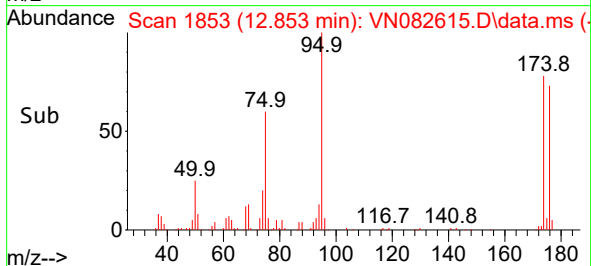
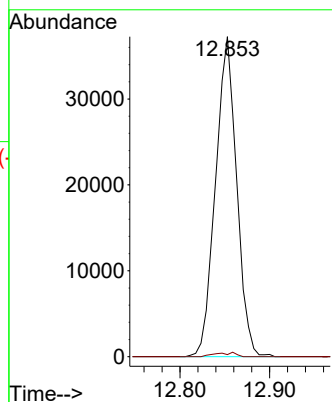
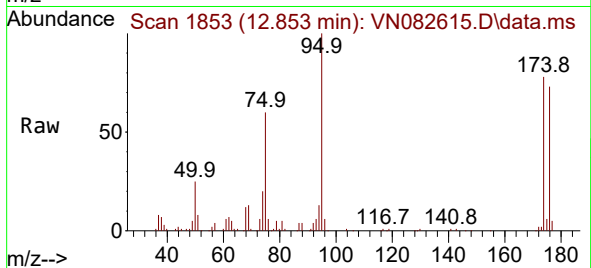




#76
1,2,3-Trichloropropane
Concen: 25.604 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#02

Tgt Ion: 75 Resp: 60992
Ion Ratio Lower Upper
75 100
77 1.3 110.9 332.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.256 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN082615.D
Acq: 17 Jun 2024 17:48

Tgt Ion: 75 Resp: 60992
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 36.3 54.5#

