

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083543.D
 Acq On : 28 Aug 2024 18:09
 Operator : JC\MD
 Sample : P3731-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 29 00:53:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 28 12:23:16 2024
 Response via : Initial Calibration

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

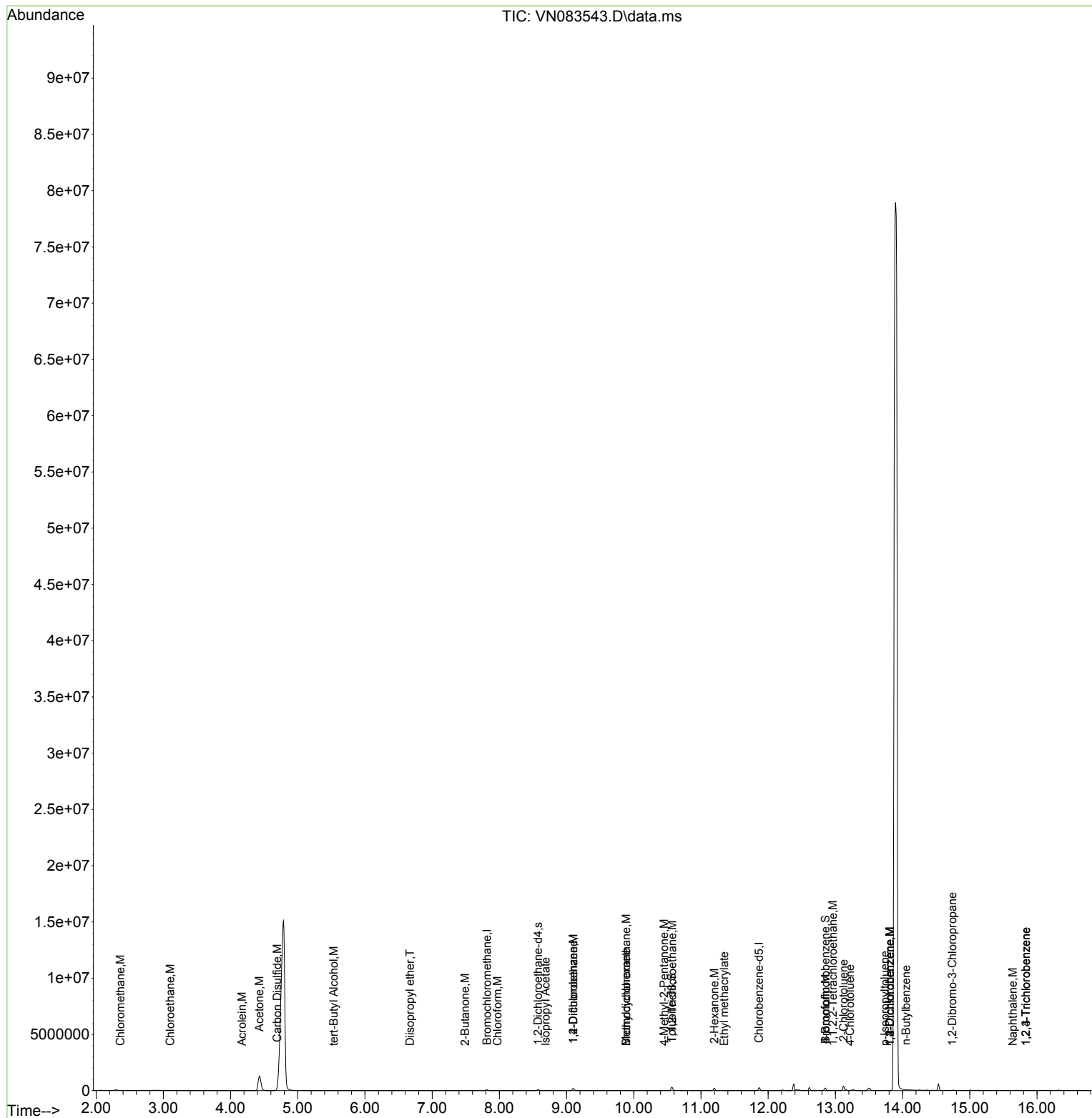
Internal Standards						
1) Bromochloromethane	7.818	128	27342	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	166643	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	147193	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77811	31.662	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 105.533%	
60) 4-Bromofluorobenzene	12.853	95	79321	30.439	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.467%	
63) Toluene-d8	10.565	98	203676	29.973	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.900%	
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	825	0.437	ug/l	90
6) Chloroethane	3.100	64	589	0.453	ug/l #	66
13) Acrolein	4.171	56	4323	15.236	ug/l	94
15) Acetone	4.430	58	741096	2741.701	ug/l #	69
16) Carbon Disulfide	4.694	76	1301	0.282	ug/l #	78
20) Diisopropyl ether	6.671	45	5870	0.954	ug/l #	76
23) tert-Butyl Alcohol	5.536	59	1665	4.320	ug/l #	100
25) Chloroform	7.971	83	9142	2.481	ug/l	99
30) 2-Butanone	7.488	43	26088	19.451	ug/l	94
36) 1,2-Dichloroethane	9.100	62	6787	2.294	ug/l #	72
38) Methylcyclohexane	9.888	83	862	0.269	ug/l #	41
41) Bromodichloromethane	9.888	83	862	0.288	ug/l #	93
44) Isopropyl Acetate	8.688	43	9698	1.594	ug/l #	54
50) 1,1,2-Trichloroethane	10.570	97	6229	3.357	ug/l #	1
51) Ethyl methacrylate	11.347	69	697	0.215	ug/l	78
56) Bromoform	12.853	173	536	0.378	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	7002	2.682	ug/l #	83
59) 2-Hexanone	11.200	43	142980	71.418	ug/l	89
71) 1,1,2,2-Tetrachloroethane	12.964	83	8724	3.234	ug/l #	39
75) 2-Chlorotoluene	13.123	91	1753	0.256	ug/l	84
78) 4-Chlorotoluene	13.217	91	1616	0.238	ug/l	85
82) p-Isopropyltoluene	13.735	119	1771	0.225	ug/l	67
83) 1,3-Dichlorobenzene	13.811	146	1171	0.287	ug/l	96
84) 1,4-Dichlorobenzene	13.811	146	1171	0.286	ug/l	97
85) n-Butylbenzene	14.053	91	2786	0.400	ug/l	79
87) 1,2-Dichlorobenzene	13.811	146	1171	0.291	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.741	75	291	0.472	ug/l #	4
89) 1,2,4-Trichlorobenzene	15.835	180	465	0.211	ug/l #	49
91) Naphthalene	15.641	128	3482	0.457	ug/l #	82
92) 1,2,3-Trichlorobenzene	15.835	180	465	0.211	ug/l	49

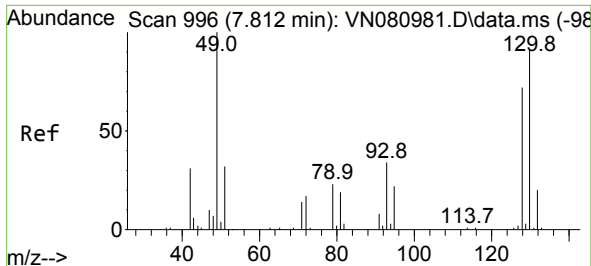
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
Data File : VN083543.D
Acq On : 28 Aug 2024 18:09
Operator : JC\MD
Sample : P3731-01 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Aug 29 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 28 12:23:16 2024
Response via : Initial Calibration

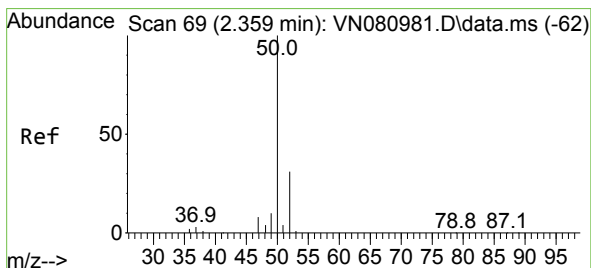
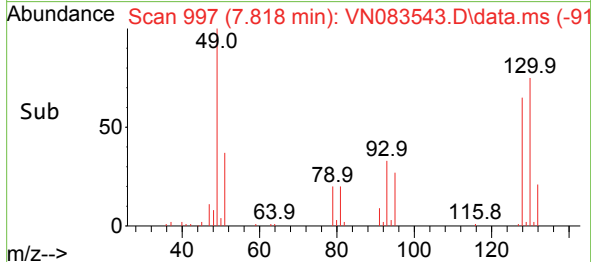
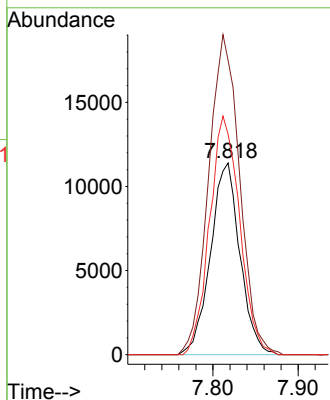
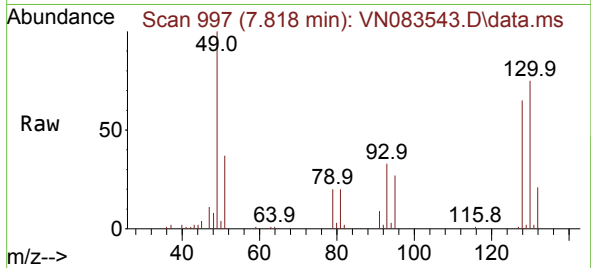




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

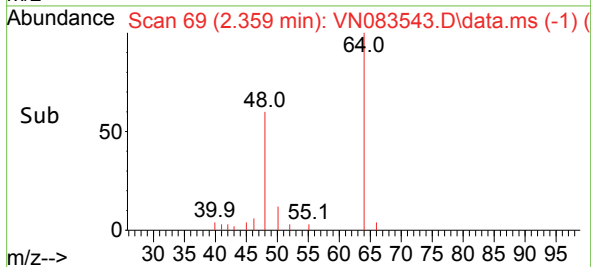
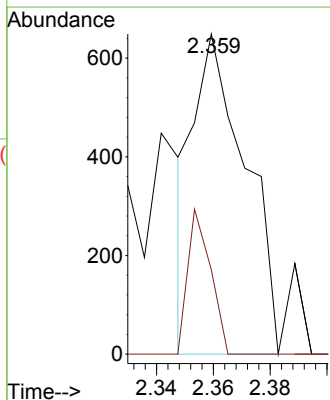
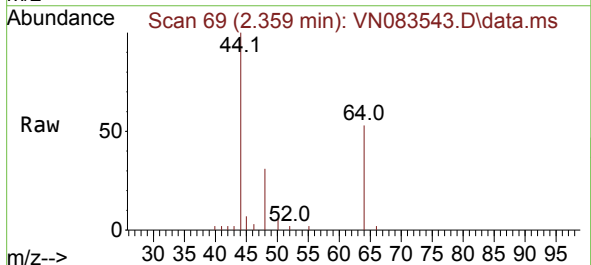
Instrument :
MSVOA_N
ClientSampleId :

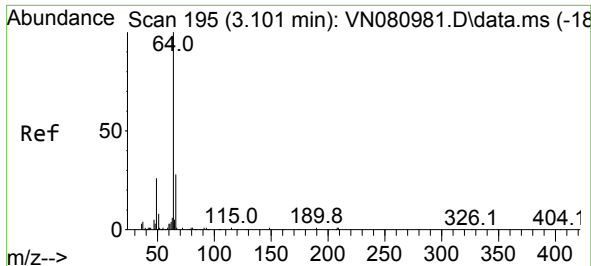
Tgt Ion:128 Resp: 27342
Ion Ratio Lower Upper
128 100
49 176.3 0.0 403.7
130 127.9 0.0 323.3



#3
Chloromethane
Concen: 0.437 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

Tgt Ion: 50 Resp: 825
Ion Ratio Lower Upper
50 100
52 26.3 25.4 38.0

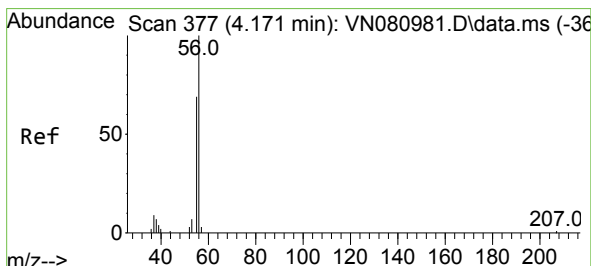
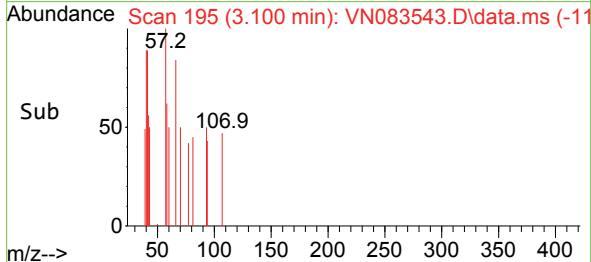
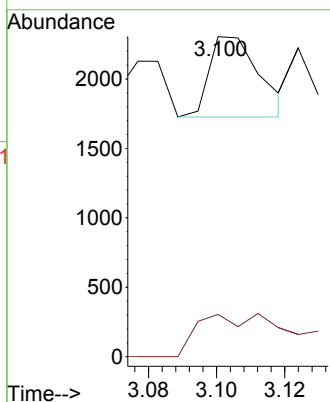
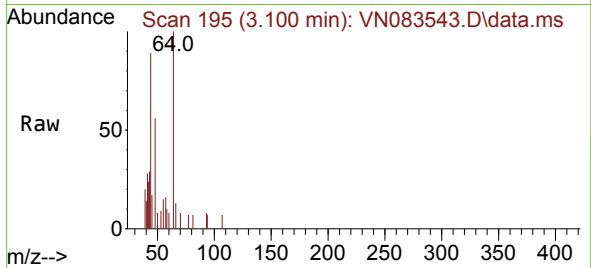




#6
Chloroethane
Concen: 0.453 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.000 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

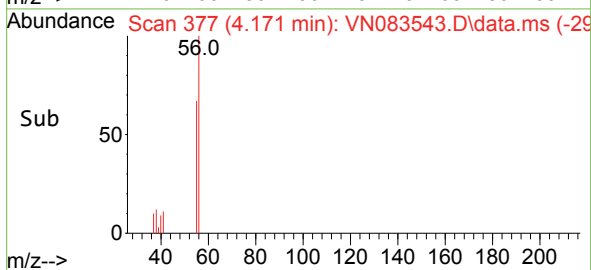
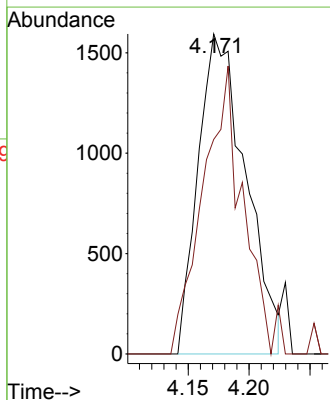
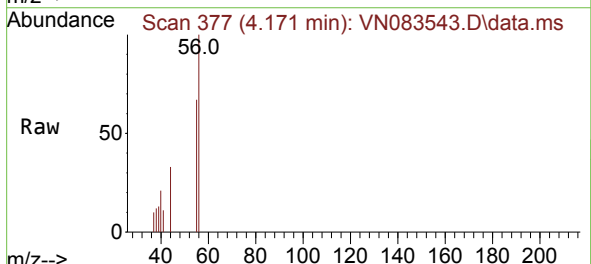
Instrument :
MSVOA_N
ClientSampleId :

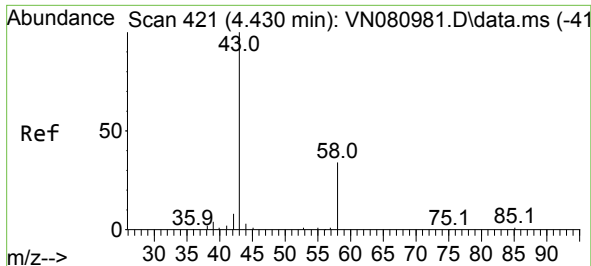
Tgt Ion: 64 Resp: 589
Ion Ratio Lower Upper
64 100
66 52.6 26.7 40.1#



#13
Acrolein
Concen: 15.236 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.000 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

Tgt Ion: 56 Resp: 4323
Ion Ratio Lower Upper
56 100
55 74.4 55.5 83.3

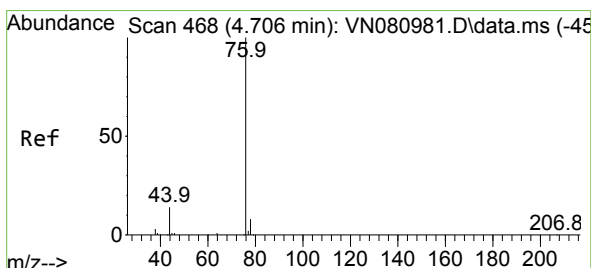
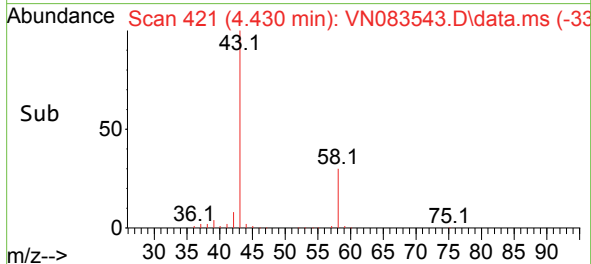
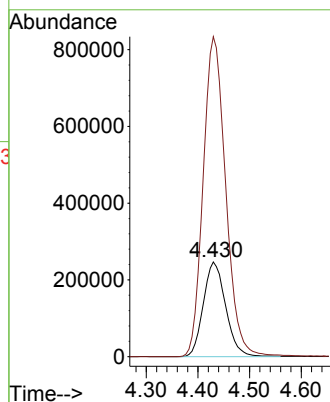
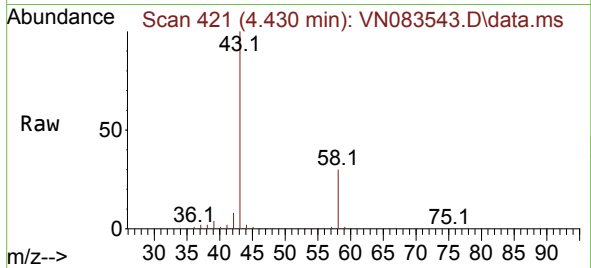




#15
Acetone
Concen: 2741.701 ug/l
RT: 4.430 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

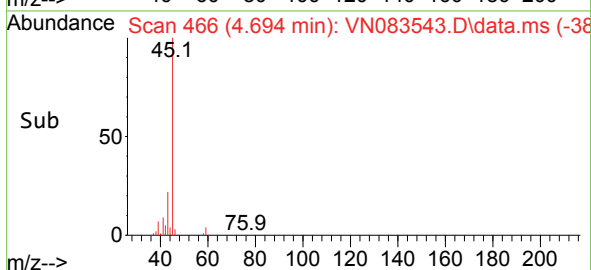
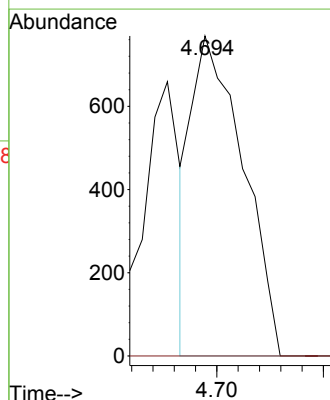
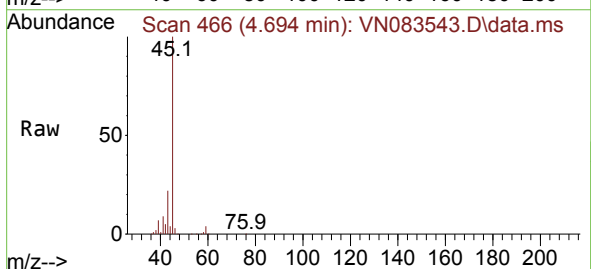
Instrument :
MSVOA_N
ClientSampleId :

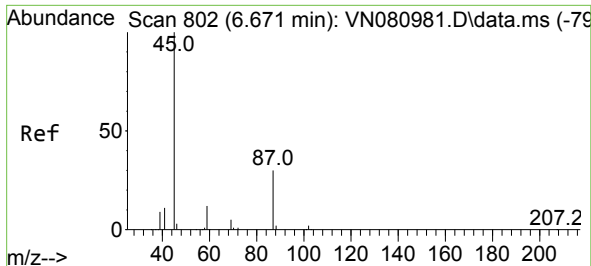
Tgt Ion: 58 Resp: 741096
Ion Ratio Lower Upper
58 100
43 337.7 223.1 334.7#



#16
Carbon Disulfide
Concen: 0.282 ug/l
RT: 4.694 min Scan# 466
Delta R.T. -0.012 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

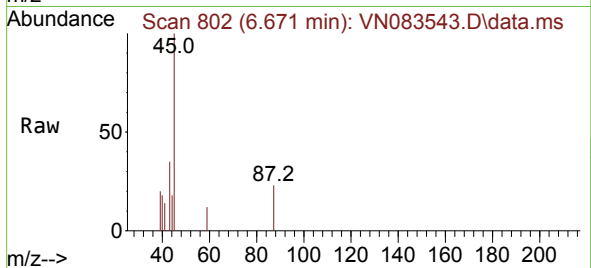
Tgt Ion: 76 Resp: 1301
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#



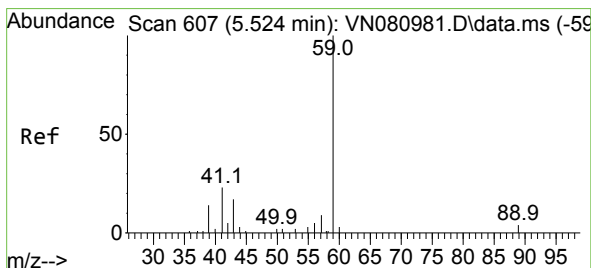
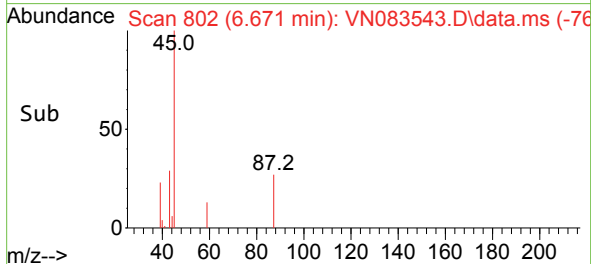
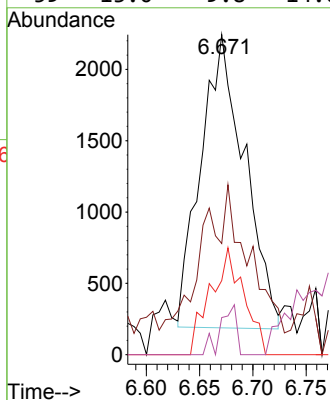


#20
Diisopropyl ether
Concen: 0.954 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

Instrument :
MSVOA_N
ClientSampleId :

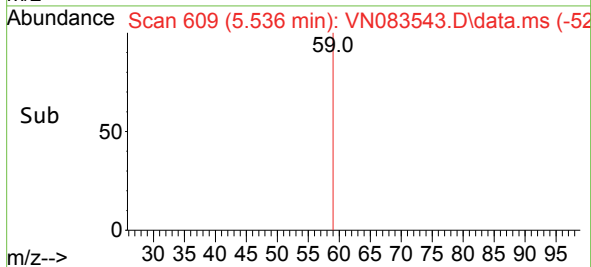
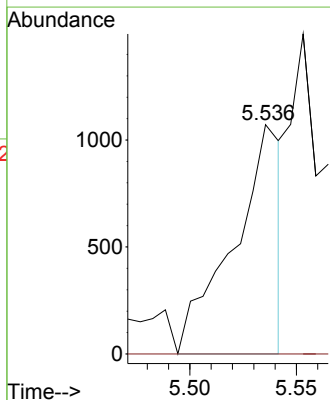
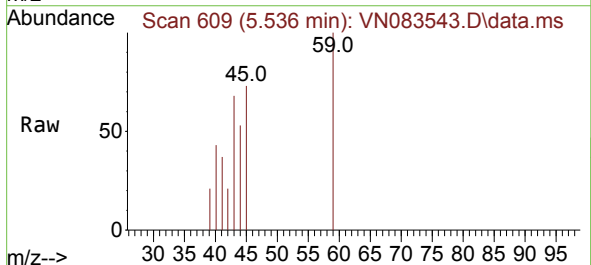


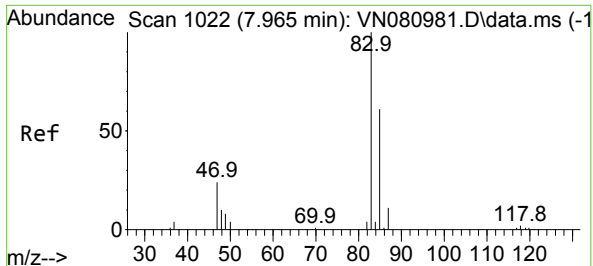
Tgt Ion: 45	Resp: 5870
Ion Ratio	Lower Upper
45	100
43	23.6 40.4 60.6#
87	25.9 23.8 35.8
59	13.0 9.8 14.6



#23
tert-Butyl Alcohol
Concen: 4.320 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.012 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

Tgt Ion: 59	Resp: 1665
Ion Ratio	Lower Upper
59	100
52	0.0 0.0 0.0





#25

Chloroform

Concen: 2.481 ug/l

RT: 7.971 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN083543.D

Acq: 28 Aug 2024 18:09

Instrument :

MSVOA_N

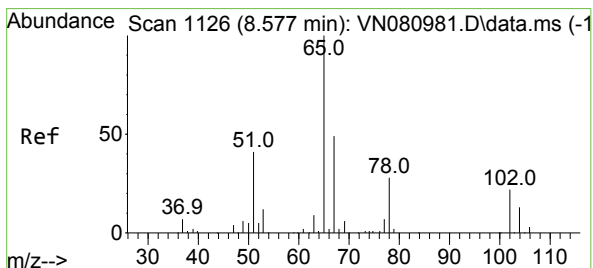
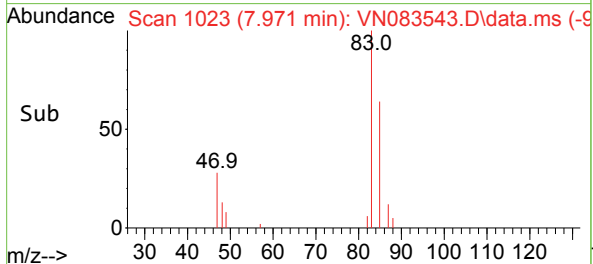
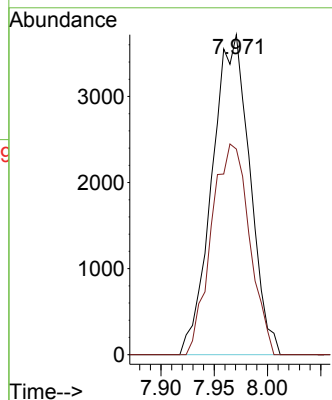
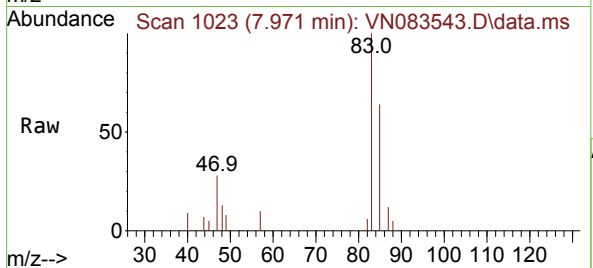
ClientSampleId :

Tgt Ion: 83 Resp: 9142

Ion Ratio Lower Upper

83 100

85 64.3 50.9 76.3



#27

1,2-Dichloroethane-d4

Concen: 31.662 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083543.D

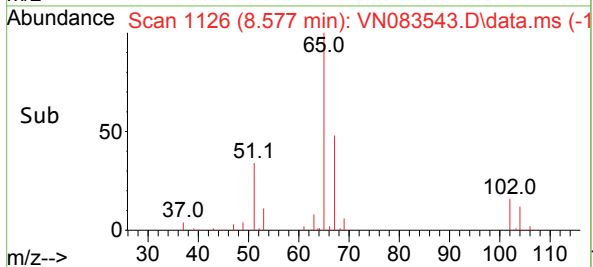
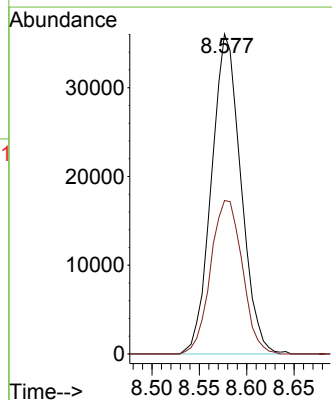
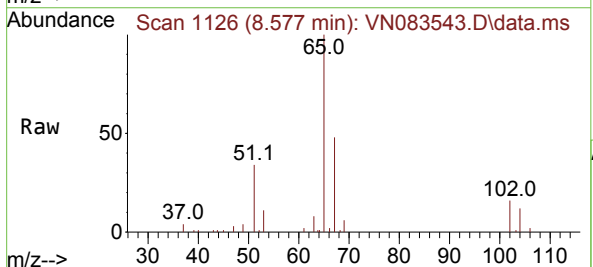
Acq: 28 Aug 2024 18:09

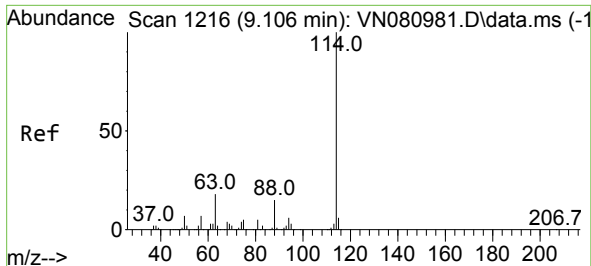
Tgt Ion: 65 Resp: 77811

Ion Ratio Lower Upper

65 100

67 51.7 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. -0.006 min

Lab File: VN083543.D

Acq: 28 Aug 2024 18:09

Instrument :

MSVOA_N

ClientSampleId :

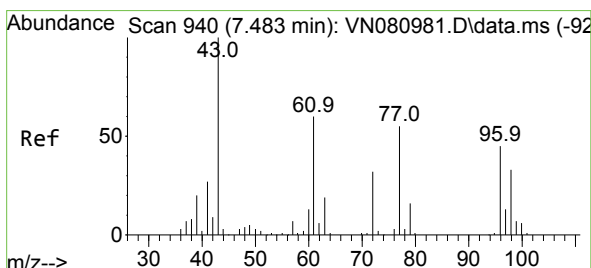
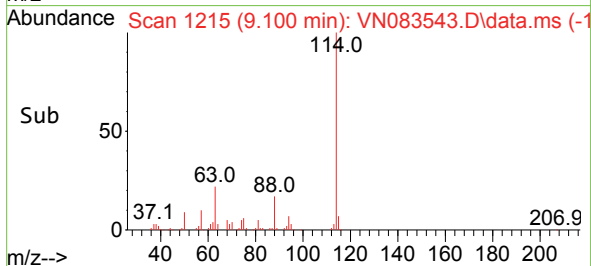
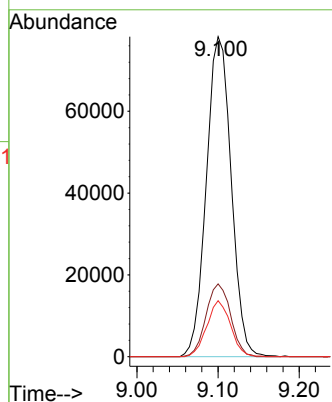
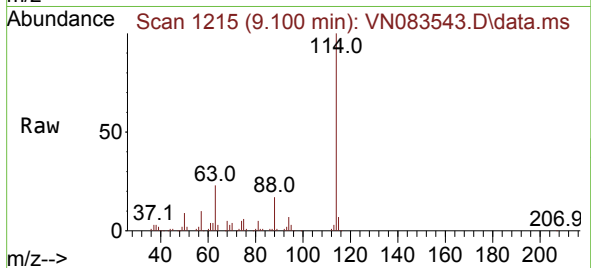
Tgt Ion:114 Resp: 166643

Ion Ratio Lower Upper

114 100

63 22.4 15.9 23.9

88 16.7 12.7 19.1



#30

2-Butanone

Concen: 19.451 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083543.D

Acq: 28 Aug 2024 18:09

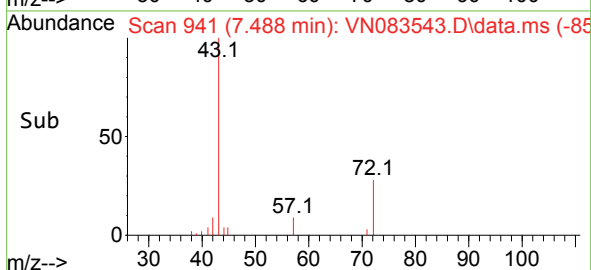
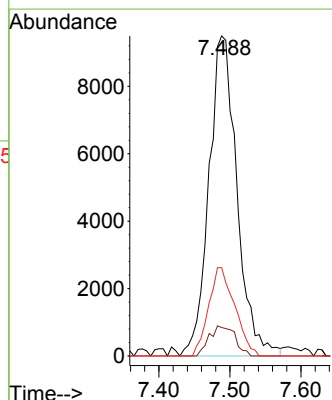
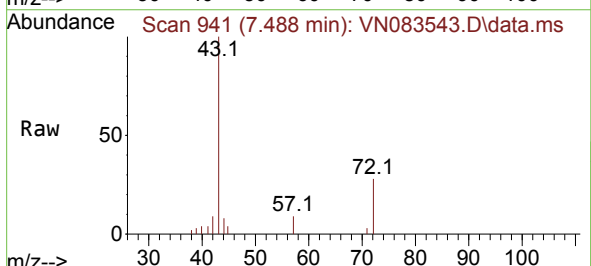
Tgt Ion: 43 Resp: 26088

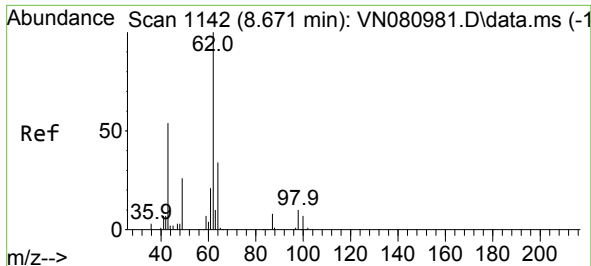
Ion Ratio Lower Upper

43 100

57 8.6 6.7 10.1

72 25.7 24.0 36.0





#36

1,2-Dichloroethane

Concen: 2.294 ug/l

RT: 9.100 min Scan# 1142

Delta R.T. 0.429 min

Lab File: VN083543.D

Acq: 28 Aug 2024 18:09

Instrument :

MSVOA_N

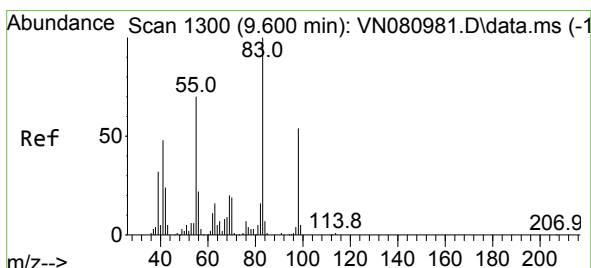
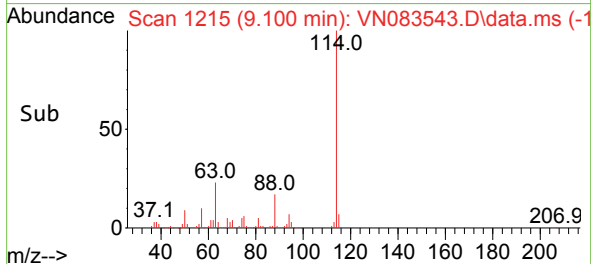
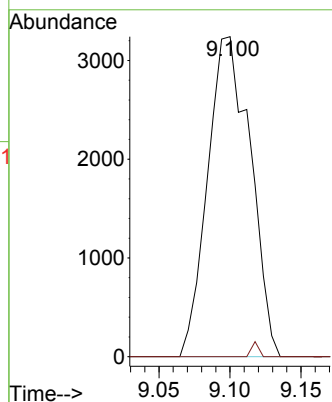
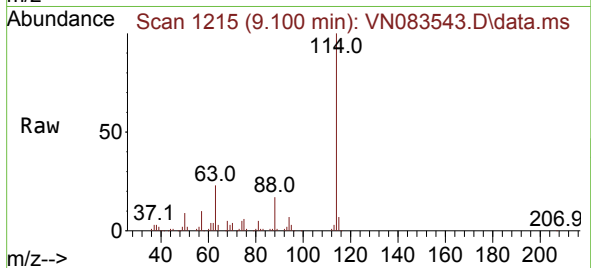
ClientSampleId :

Tgt Ion: 62 Resp: 6787

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#38

Methylcyclohexane

Concen: 0.269 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.288 min

Lab File: VN083543.D

Acq: 28 Aug 2024 18:09

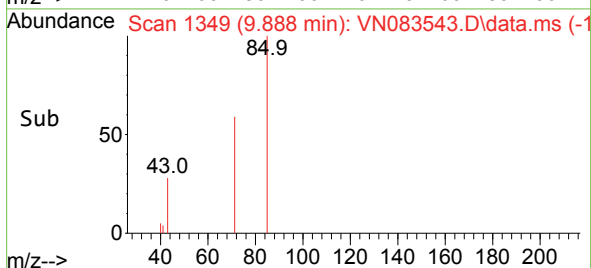
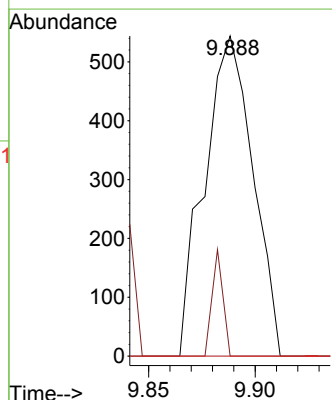
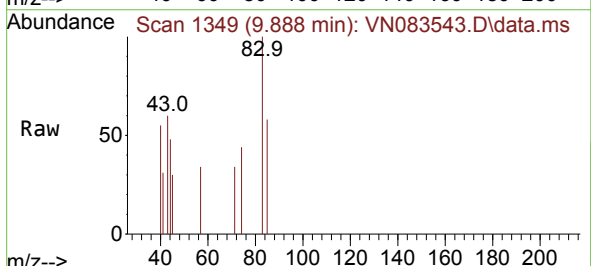
Tgt Ion: 83 Resp: 862

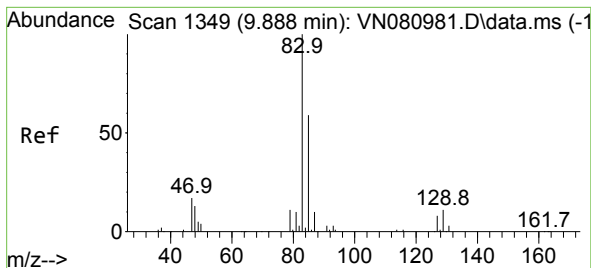
Ion Ratio Lower Upper

83 100

55 30.9 36.6 109.9#

98 0.0 23.8 71.5#





#41

Bromodichloromethane

Concen: 0.288 ug/l

RT: 9.888 min Scan# 1145

Delta R.T. -0.000 min

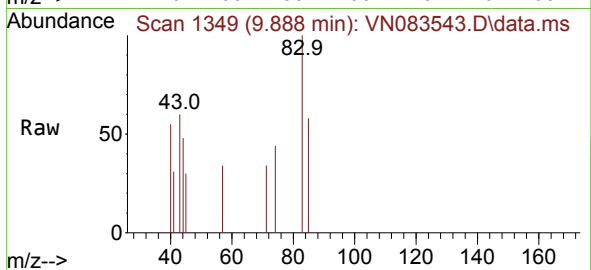
Lab File: VN083543.D

Acq: 28 Aug 2024 18:09

Instrument :

MSVOA_N

ClientSampleId :



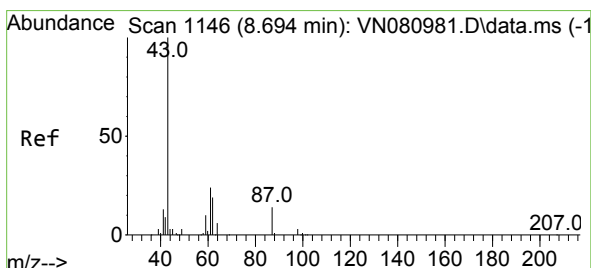
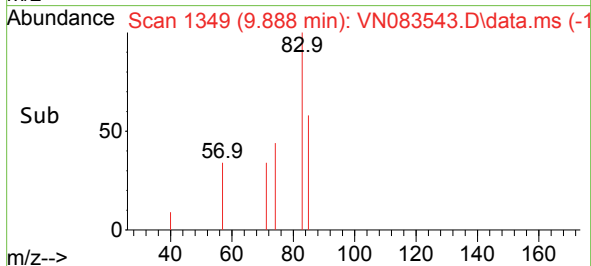
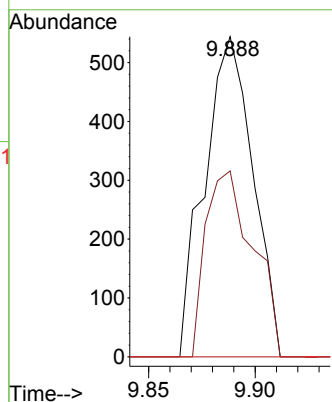
Tgt Ion: 83 Resp: 862

Ion Ratio Lower Upper

83 100

85 58.1 49.4 74.2

127 0.0 7.3 10.9#



#44

Isopropyl Acetate

Concen: 1.594 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.006 min

Lab File: VN083543.D

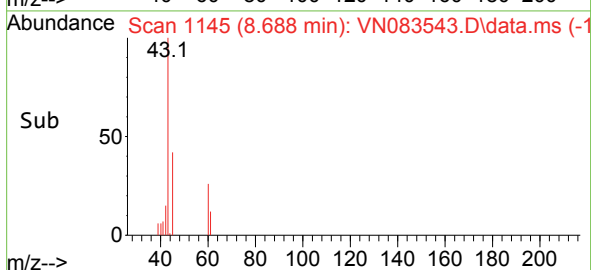
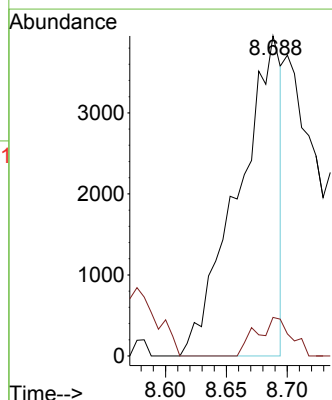
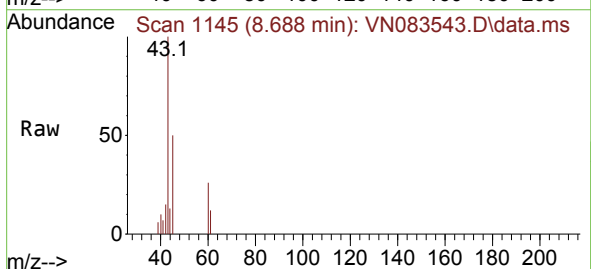
Acq: 28 Aug 2024 18:09

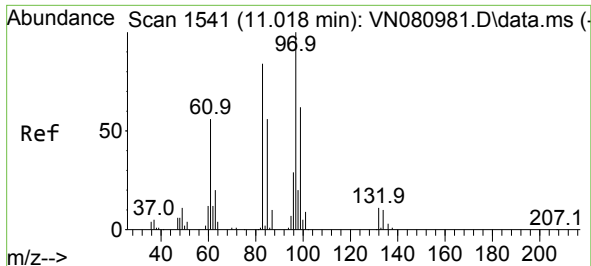
Tgt Ion: 43 Resp: 9698

Ion Ratio Lower Upper

43 100

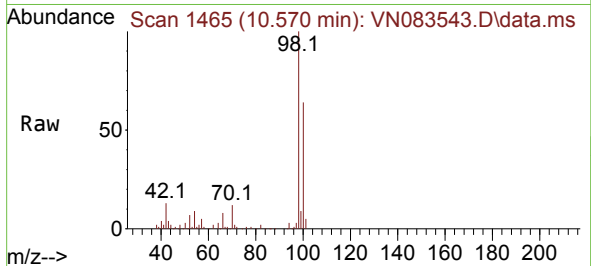
61 5.8 25.0 37.4#



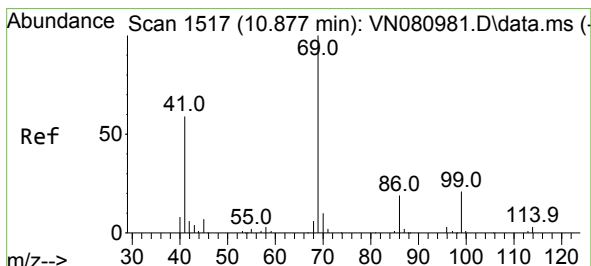
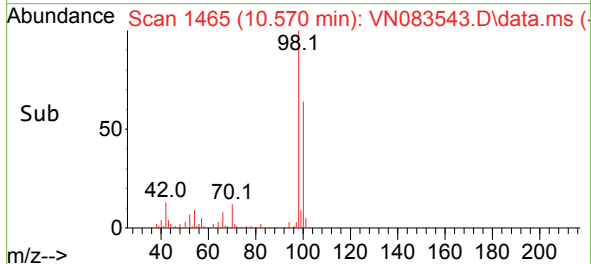
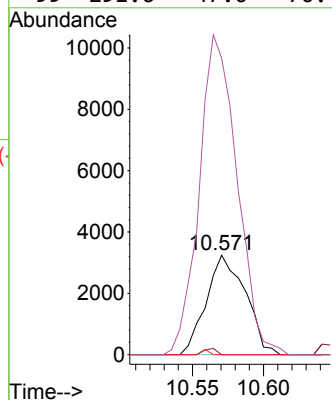


#50
1,1,2-Trichloroethane
Concen: 3.357 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

Instrument :
MSVOA_N
ClientSampleId :

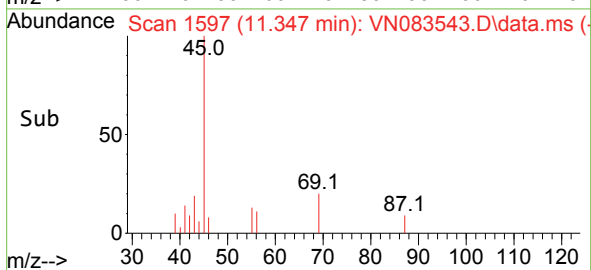
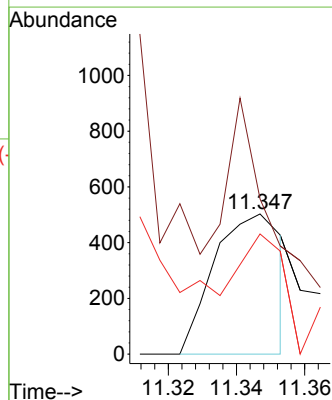
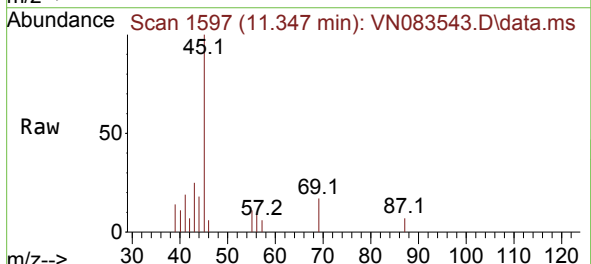


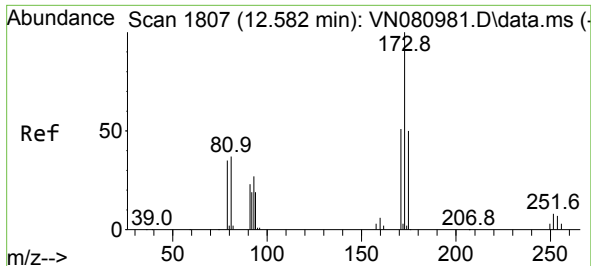
Tgt Ion: 97 Resp: 6229
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 291.6 47.0 70.4#



#51
Ethyl methacrylate
Concen: 0.215 ug/l
RT: 11.347 min Scan# 1597
Delta R.T. 0.470 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

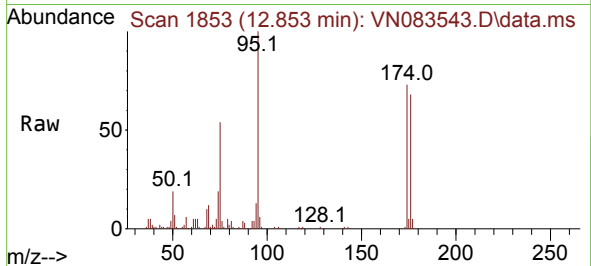
Tgt Ion: 69 Resp: 697
Ion Ratio Lower Upper
69 100
41 33.6 25.5 76.5
39 41.7 16.0 47.9



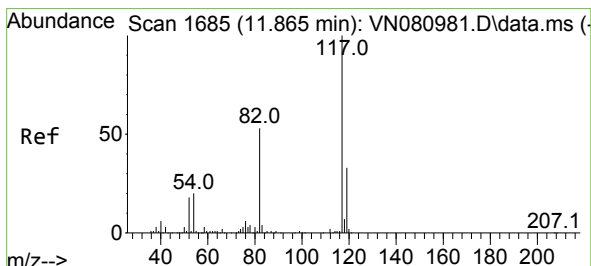
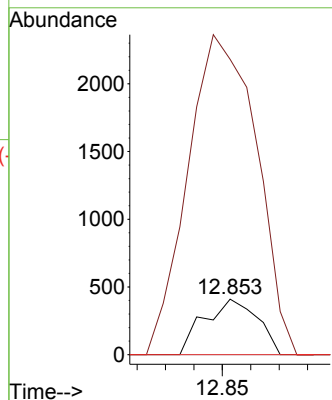
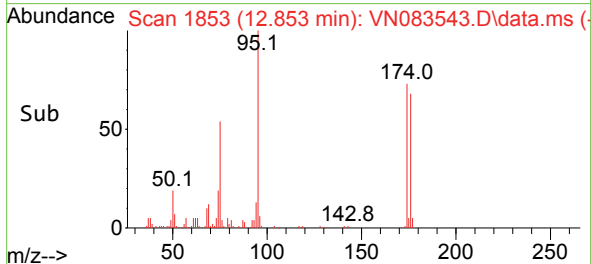


#56
Bromoform
Concen: 0.378 ug/l
RT: 12.853 min Scan# 1807
Delta R.T. 0.270 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

Instrument :
MSVOA_N
ClientSampleId :

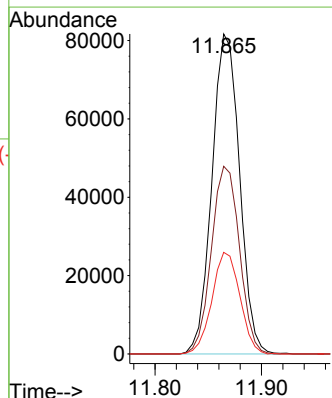
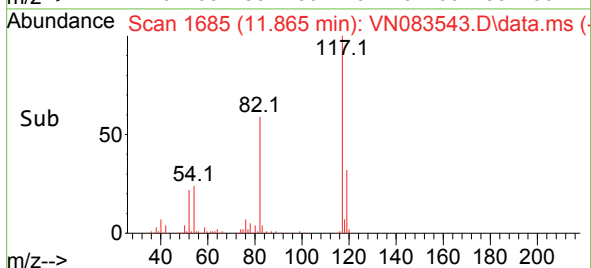
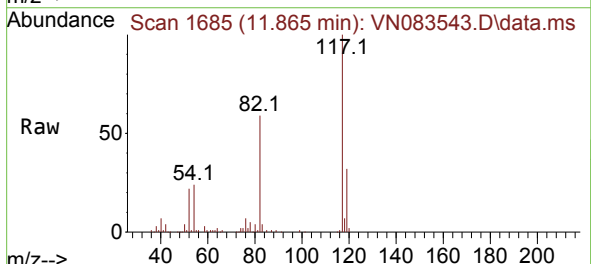


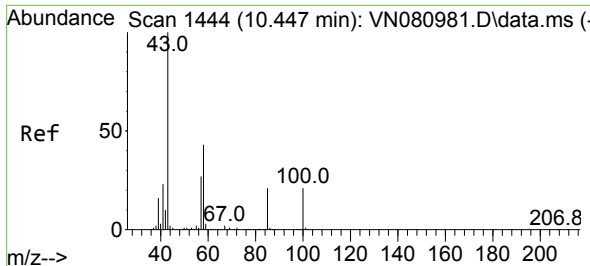
Tgt Ion:173 Resp: 536
Ion Ratio Lower Upper
173 100
175 742.0 40.0 60.0#
254 0.0 8.3 12.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

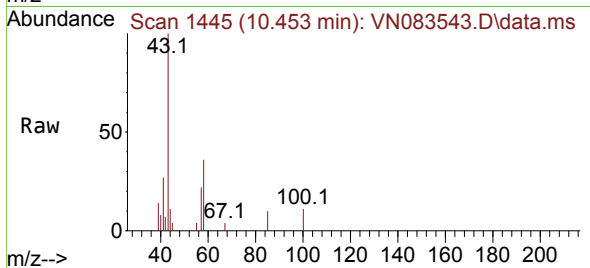
Tgt Ion:117 Resp: 147193
Ion Ratio Lower Upper
117 100
82 59.6 46.6 69.8
119 32.1 25.4 38.2



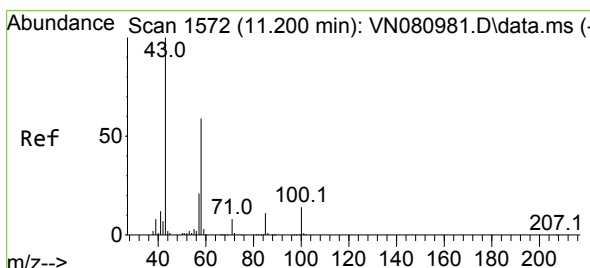
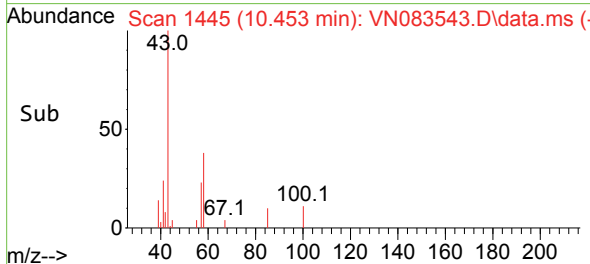
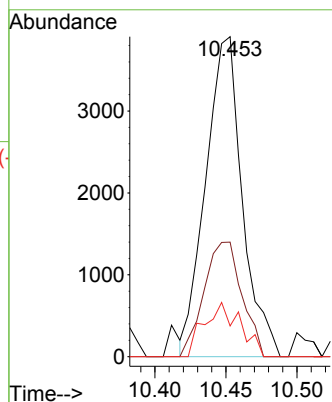


#58
4-Methyl-2-Pentanone
Concen: 2.682 ug/l
RT: 10.453 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

Instrument :
MSVOA_N
ClientSampleId :

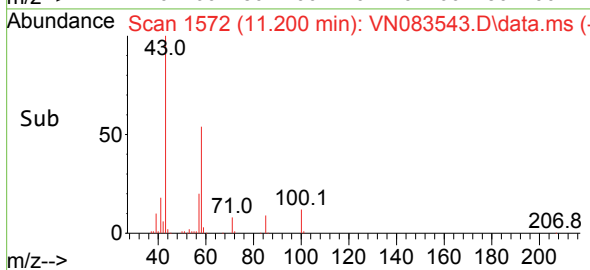
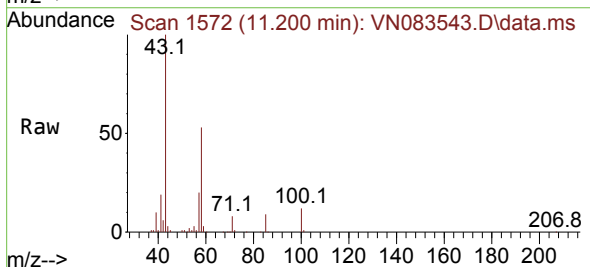
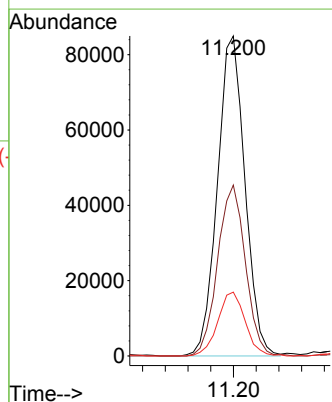


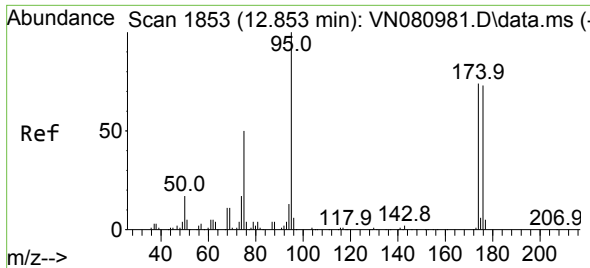
Tgt Ion: 43 Resp: 7002
Ion Ratio Lower Upper
43 100
58 37.2 36.5 54.7
85 12.6 19.5 29.3#



#59
2-Hexanone
Concen: 71.418 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. -0.000 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

Tgt Ion: 43 Resp: 142980
Ion Ratio Lower Upper
43 100
58 53.7 50.4 75.6
57 19.9 18.6 27.8

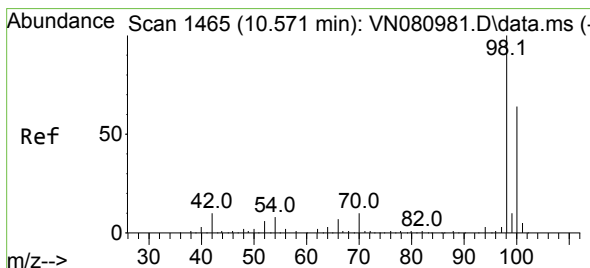
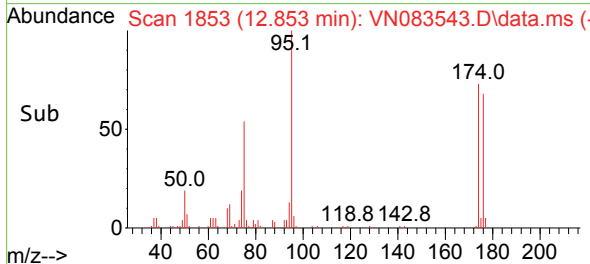
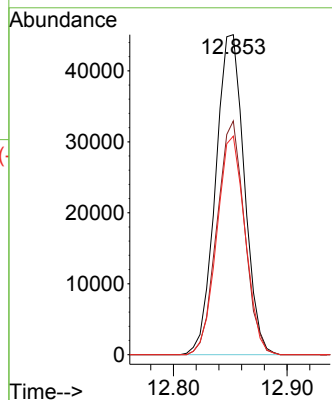
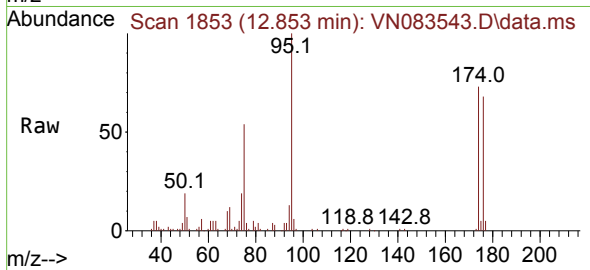




#60
4-Bromofluorobenzene
Concen: 30.439 ug/l
RT: 12.853 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

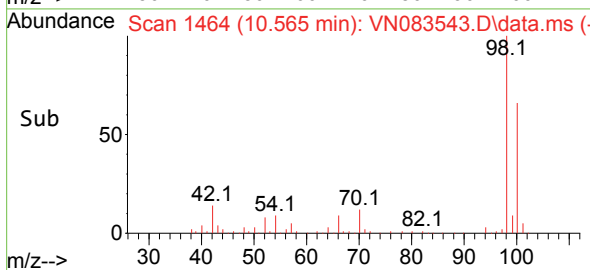
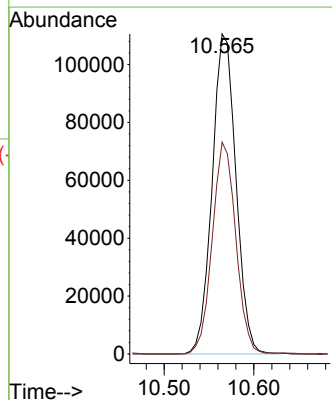
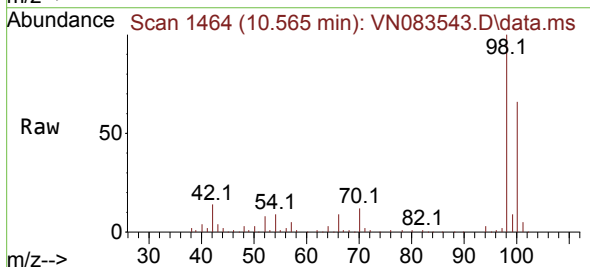
Instrument :
MSVOA_N
ClientSampleId :

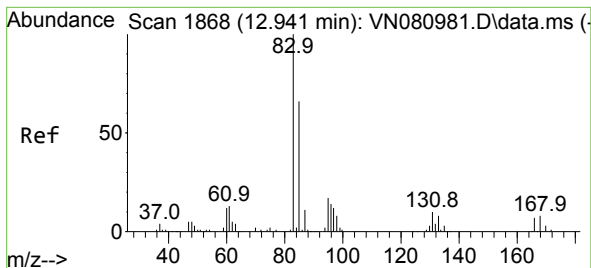
Tgt Ion: 95 Resp: 79321
Ion Ratio Lower Upper
95 100
174 70.0 60.5 90.7
176 67.2 57.8 86.6



#63
Toluene-d8
Concen: 29.973 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

Tgt Ion: 98 Resp: 203676
Ion Ratio Lower Upper
98 100
100 65.3 52.7 79.1





#71

1,1,2,2-Tetrachloroethane

Concen: 3.234 ug/l

RT: 12.964 min Scan# 1872

Delta R.T. 0.023 min

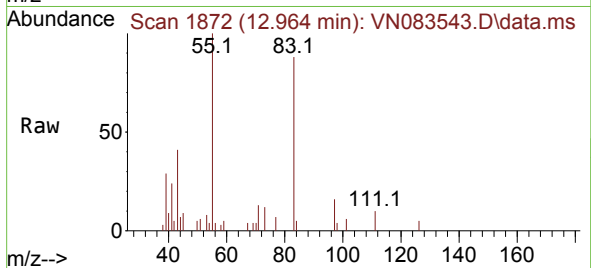
Lab File: VN083543.D

Acq: 28 Aug 2024 18:09

Instrument :

MSVOA_N

ClientSampleId :



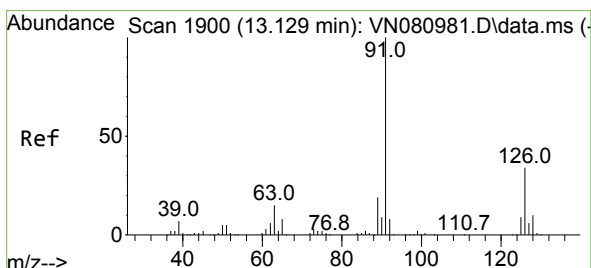
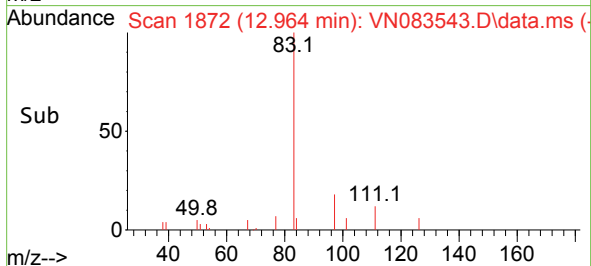
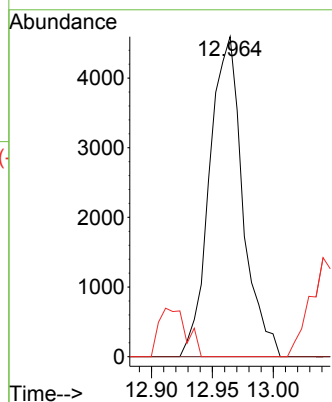
Tgt Ion: 83 Resp: 8724

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

85 12.5 32.3 96.8#



#75

2-Chlorotoluene

Concen: 0.256 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.006 min

Lab File: VN083543.D

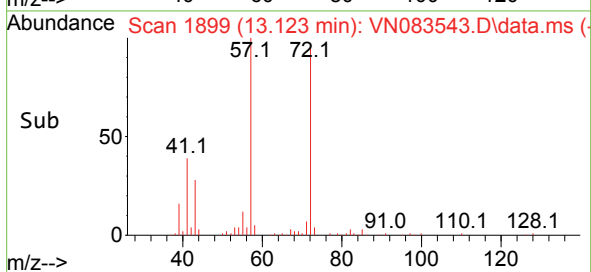
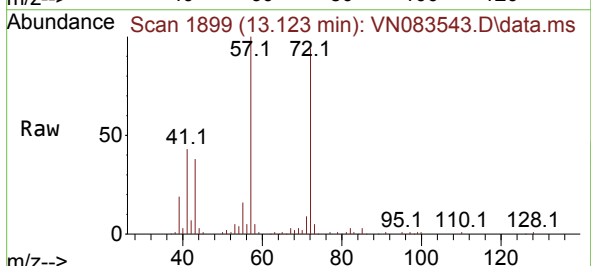
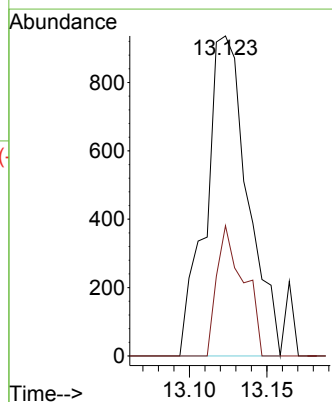
Acq: 28 Aug 2024 18:09

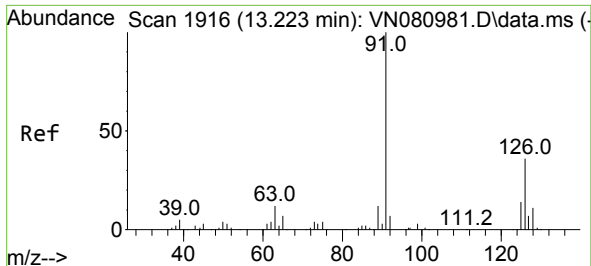
Tgt Ion: 91 Resp: 1753

Ion Ratio Lower Upper

91 100

126 21.8 0.0 61.2

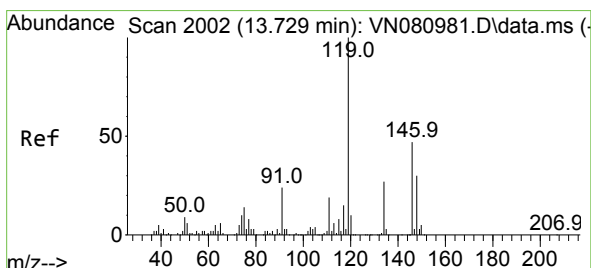
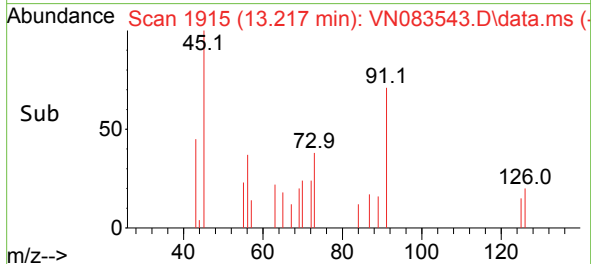
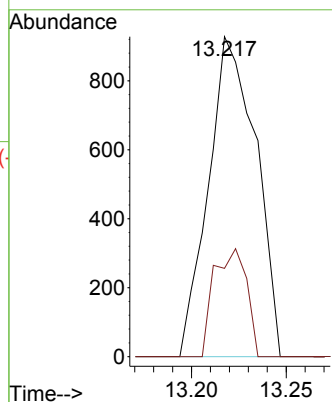
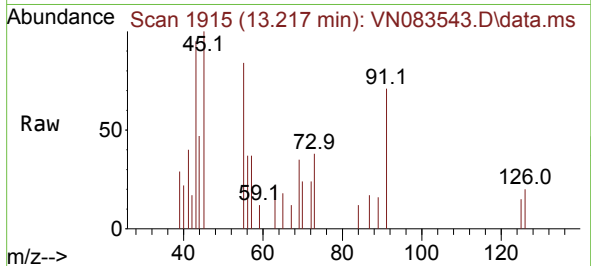




#78
4-Chlorotoluene
Concen: 0.238 ug/l
RT: 13.217 min Scan# 1916
Delta R.T. -0.006 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

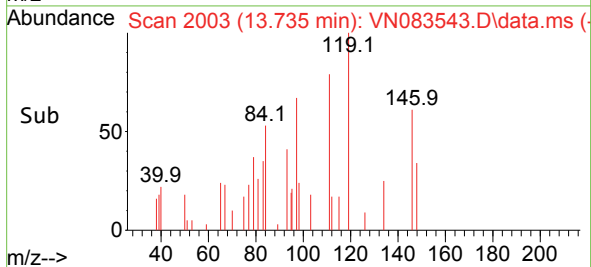
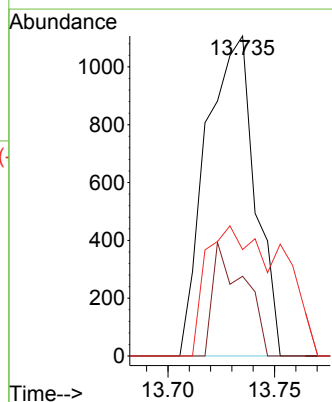
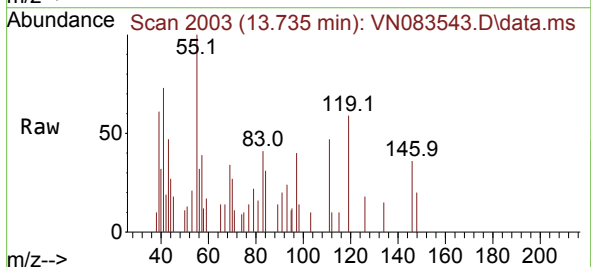
Instrument :
MSVOA_N
ClientSampleId :

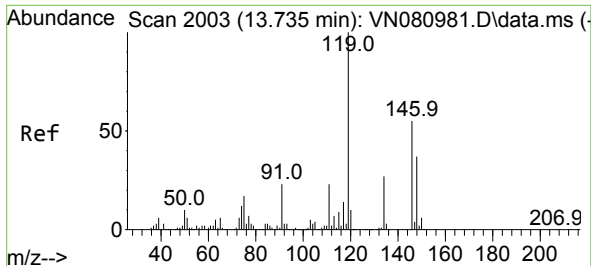
Tgt Ion: 91 Resp: 1616
Ion Ratio Lower Upper
91 100
126 23.1 0.0 62.8



#82
p-Isopropyltoluene
Concen: 0.225 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

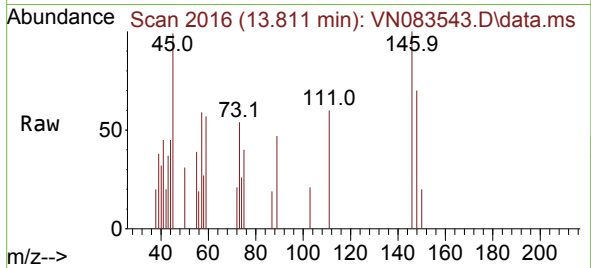
Tgt Ion: 119 Resp: 1771
Ion Ratio Lower Upper
119 100
134 12.8 0.0 49.2
91 45.3 0.0 48.8



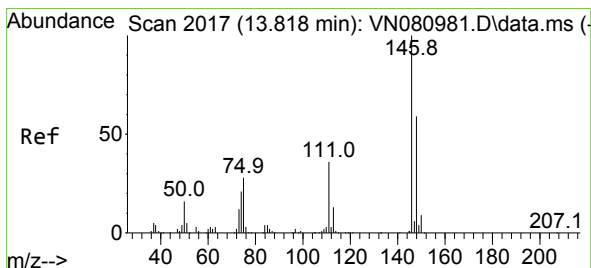
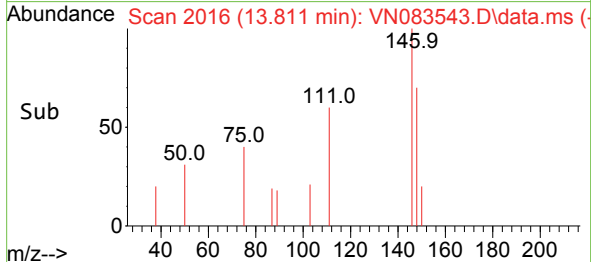
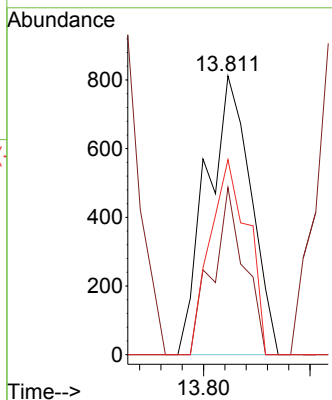


#83
 1,3-Dichlorobenzene
 Concen: 0.287 ug/l
 RT: 13.811 min Scan# 2003
 Delta R.T. 0.076 min
 Lab File: VN083543.D
 Acq: 28 Aug 2024 18:09

Instrument :
 MSVOA_N
 ClientSampleId :

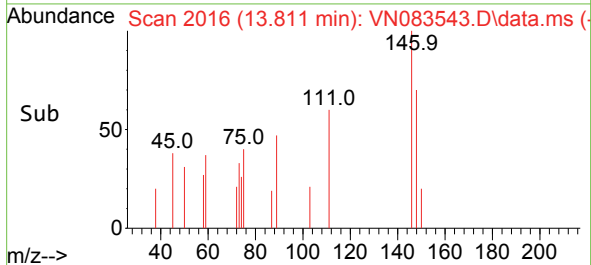
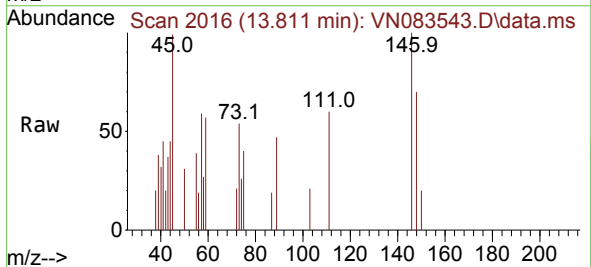
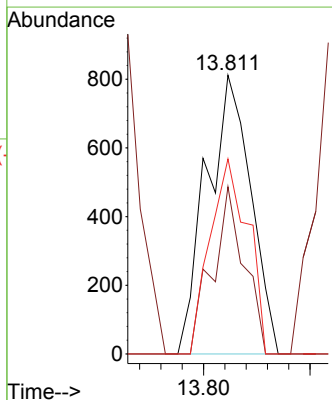


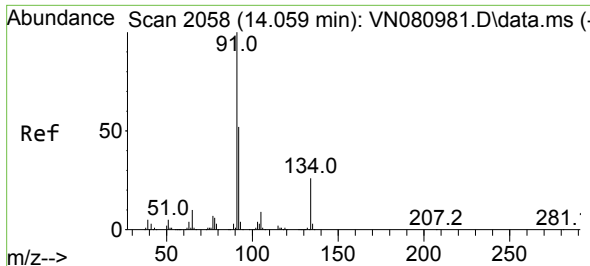
Tgt Ion:146 Resp: 1171
 Ion Ratio Lower Upper
 146 100
 111 43.2 22.4 67.0
 148 59.9 32.1 96.5



#84
 1,4-Dichlorobenzene
 Concen: 0.286 ug/l
 RT: 13.811 min Scan# 2016
 Delta R.T. -0.006 min
 Lab File: VN083543.D
 Acq: 28 Aug 2024 18:09

Tgt Ion:146 Resp: 1171
 Ion Ratio Lower Upper
 146 100
 111 43.2 21.3 63.9
 148 59.9 31.9 95.5

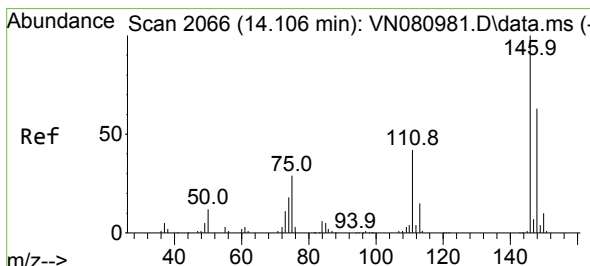
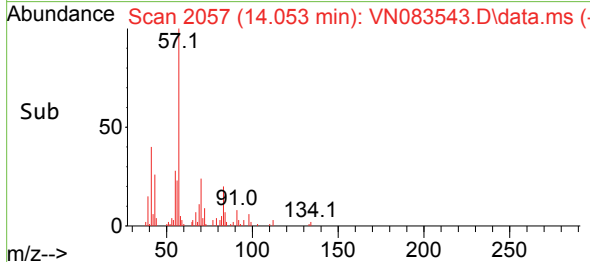
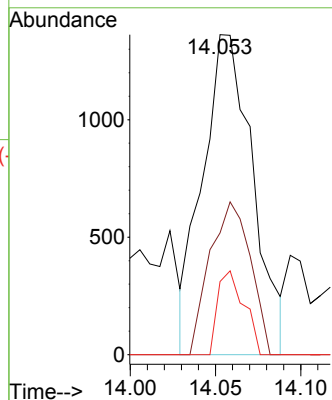
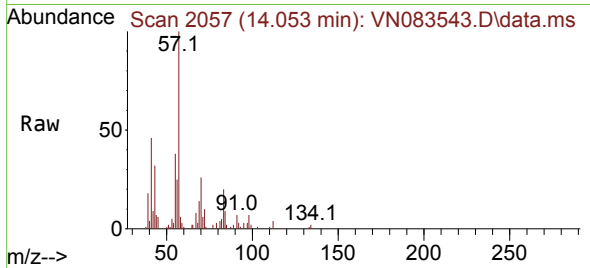




#85
n-Butylbenzene
Concen: 0.400 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

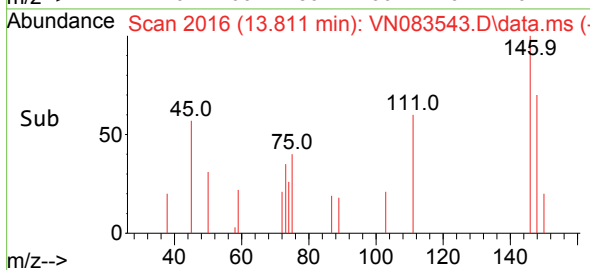
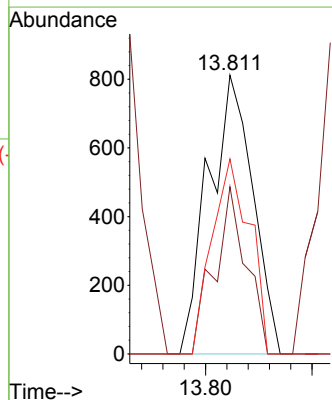
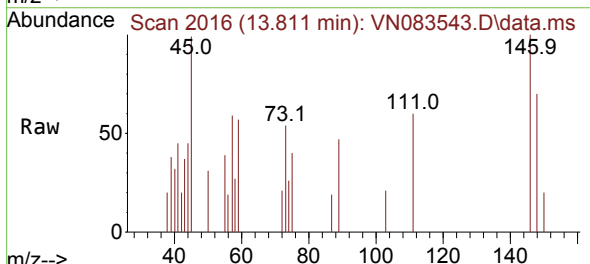
Instrument :
MSVOA_N
ClientSampleId :

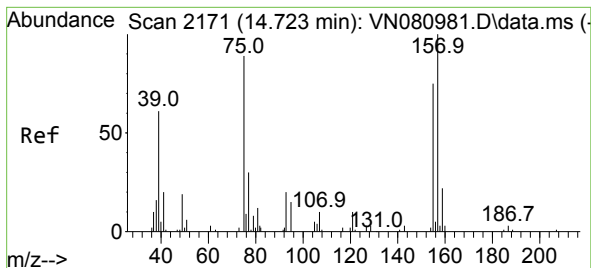
Tgt Ion: 91	Resp: 2786
Ion Ratio	Lower Upper
91	100
92	38.7 0.0 105.0
134	13.7 0.0 51.8



#87
1,2-Dichlorobenzene
Concen: 0.291 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.294 min
Lab File: VN083543.D
Acq: 28 Aug 2024 18:09

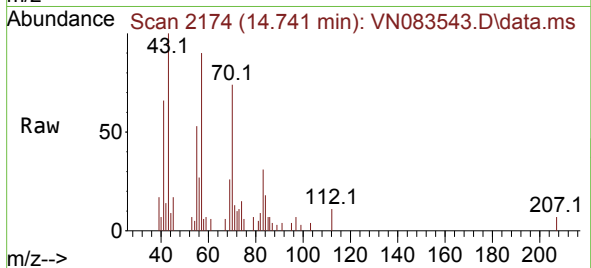
Tgt Ion: 146	Resp: 1171
Ion Ratio	Lower Upper
146	100
111	43.2 22.6 67.8
148	59.9 31.3 93.8



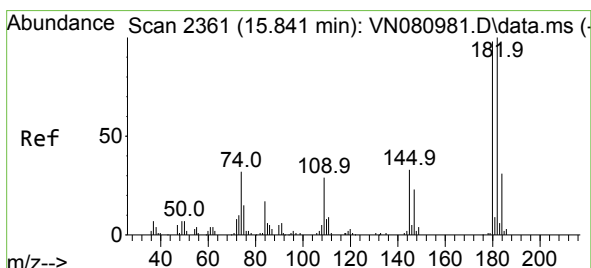
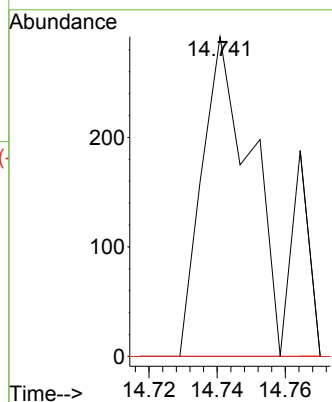
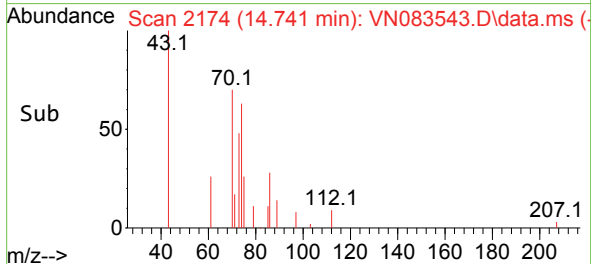


#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.472 ug/l
 RT: 14.741 min Scan# 2174
 Delta R.T. 0.017 min
 Lab File: VN083543.D
 Acq: 28 Aug 2024 18:09

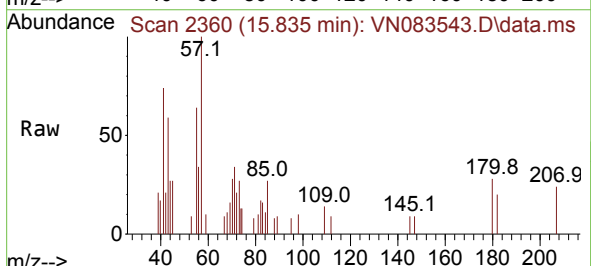
Instrument :
 MSVOA_N
 ClientSampleId :



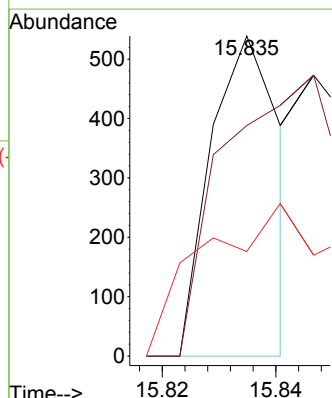
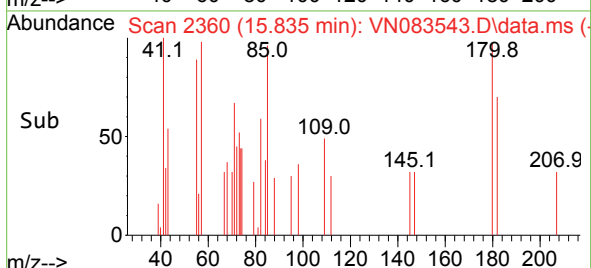
Tgt Ion: 75 Resp: 291
 Ion Ratio Lower Upper
 75 100
 155 0.0 61.7 92.5#
 157 0.0 83.6 125.4#

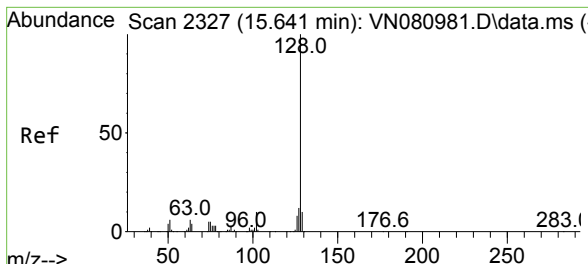


#89
 1,2,4-Trichlorobenzene
 Concen: 0.211 ug/l
 RT: 15.835 min Scan# 2360
 Delta R.T. -0.006 min
 Lab File: VN083543.D
 Acq: 28 Aug 2024 18:09



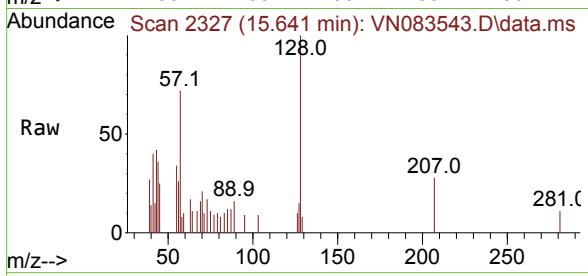
Tgt Ion: 180 Resp: 465
 Ion Ratio Lower Upper
 180 100
 182 156.6 76.4 114.6#
 145 47.5 28.4 42.6#



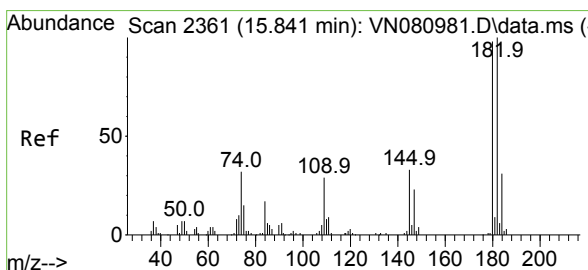
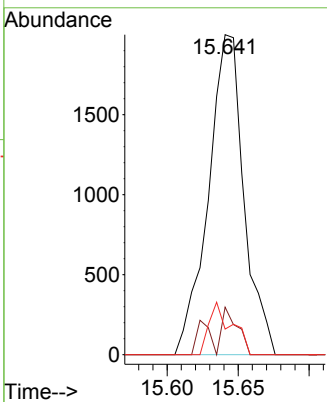
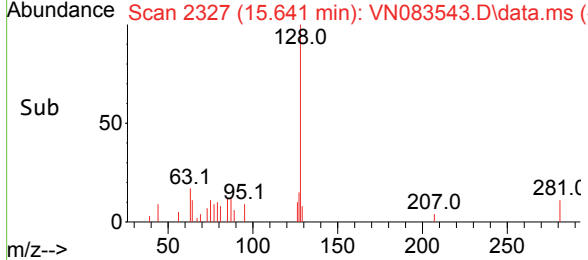


#91
 Naphthalene
 Concen: 0.457 ug/l
 RT: 15.641 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN083543.D
 Acq: 28 Aug 2024 18:09

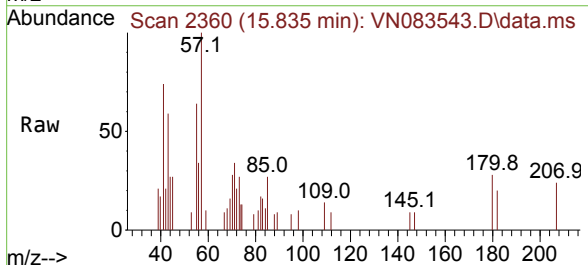
Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	3482
Ion Ratio	100	Lower	Upper
127	6.5	10.6	16.0#
129	3.6	8.6	13.0#



#92
 1,2,3-Trichlorobenzene
 Concen: 0.211 ug/l
 RT: 15.835 min Scan# 2360
 Delta R.T. -0.006 min
 Lab File: VN083543.D
 Acq: 28 Aug 2024 18:09



Tgt Ion:	180	Resp:	465
Ion Ratio	100	Lower	Upper
182	156.6	0.0	191.0
145	47.5	0.0	71.0

