

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085656.D
 Acq On : 04 Feb 2025 17:01
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Feb 05 01:08:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

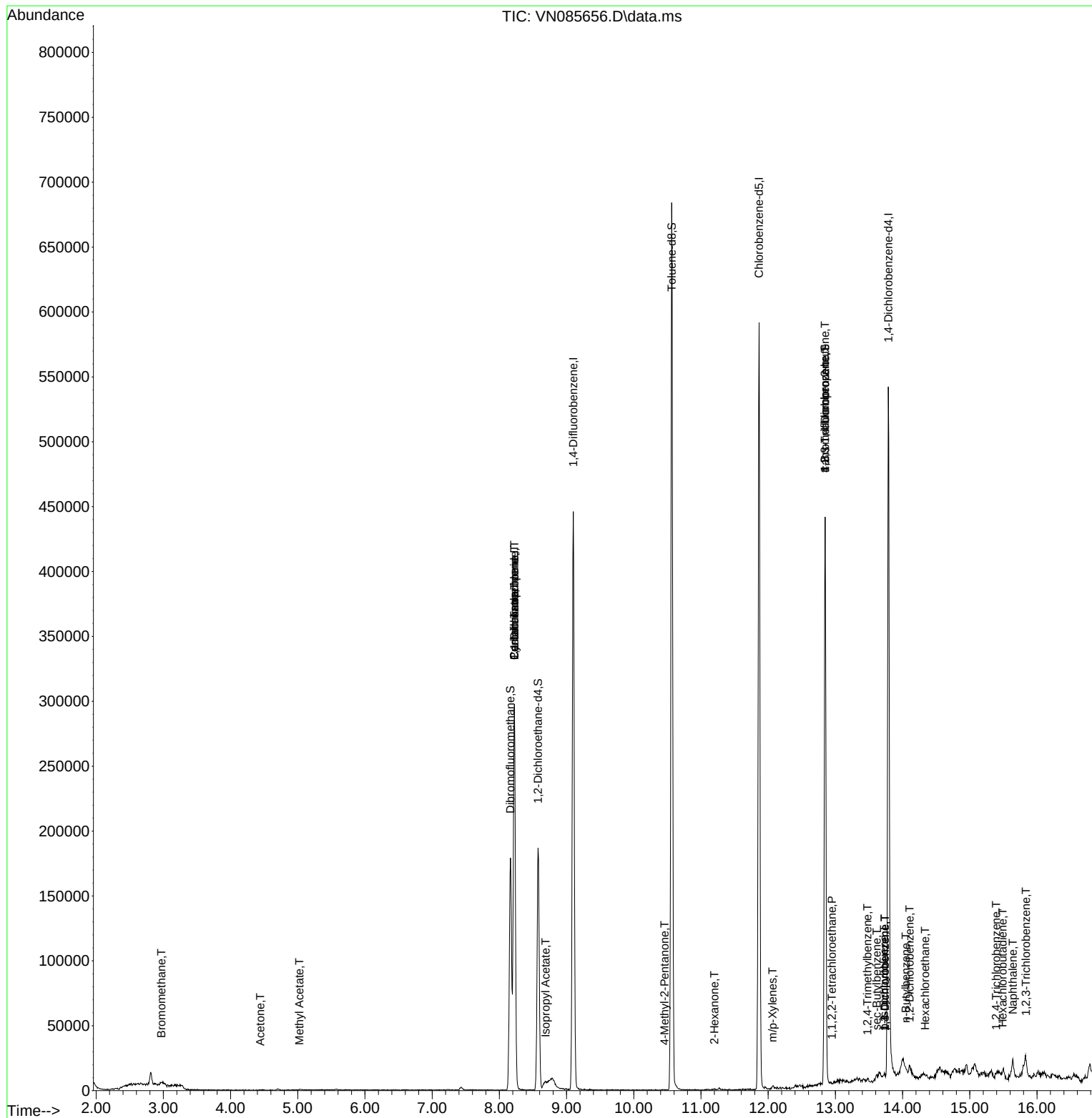
Internal Standards						
1) Pentafluorobenzene	8.224	168	210879	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	392094	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	336506	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	139457	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	147962	43.467	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.940%		
35) Dibromofluoromethane	8.165	113	127876	47.010	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.020%		
50) Toluene-d8	10.565	98	472710	48.911	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.820%		
62) 4-Bromofluorobenzene	12.847	95	149817	45.316	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	90.640%		
Target Compounds					Qvalue	
5) Bromomethane	2.971	94	1159	0.617	ug/l #	78
16) Acetone	4.441	43	239	0.217	ug/l #	45
18) Methyl Acetate	5.024	43	1066	0.319	ug/l #	52
31) Cyclohexane	8.224	56	5189	1.201	ug/l #	25
36) 1,1-Dichloropropene	8.224	75	17813	4.666	ug/l #	51
38) Carbon Tetrachloride	8.224	117	21932	5.018	ug/l #	18
43) Isopropyl Acetate	8.688	43	6903	1.118	ug/l #	55
51) 4-Methyl-2-Pentanone	10.459	43	737	0.206	ug/l #	37
59) 2-Hexanone	11.200	43	903	0.358	ug/l #	50
68) m/p-Xylenes	12.065	106	947	0.213	ug/l	80
75) 1,1,2,2-Tetrachloroethane	12.947	83	689	0.207	ug/l #	49
76) 1,2,3-Trichloropropane	12.847	75	78949	27.853	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	78949	75.358	ug/l #	3
84) 1,2,4-Trimethylbenzene	13.476	105	2971	0.383	ug/l	85
85) sec-Butylbenzene	13.617	105	2277	0.252	ug/l	96
86) p-Isopropyltoluene	13.723	119	1568	0.243	ug/l #	57
87) 1,3-Dichlorobenzene	13.735	146	999	0.221	ug/l	98
88) 1,4-Dichlorobenzene	13.735	146	999	0.213	ug/l	98
89) n-Butylbenzene	14.047	91	2560	0.394	ug/l	89
90) Hexachloroethane	14.335	117	599	0.348	ug/l #	32
91) 1,2-Dichlorobenzene	14.106	146	1069	0.237	ug/l #	66
93) 1,2,4-Trichlorobenzene	15.394	180	1200	0.572	ug/l #	57
94) Hexachlorobutadiene	15.488	225	611	0.548	ug/l	98
95) Naphthalene	15.641	128	8586	1.370	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.835	180	1243	0.585	ug/l #	58

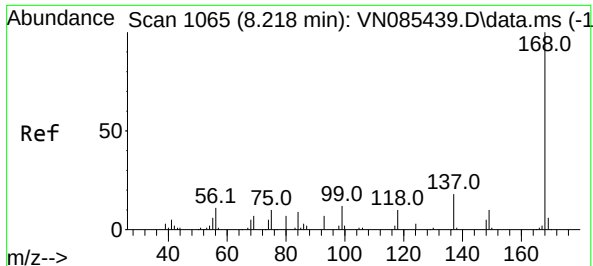
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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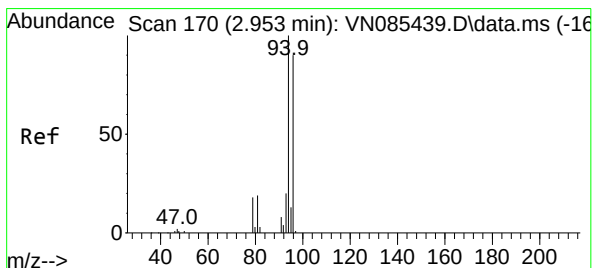
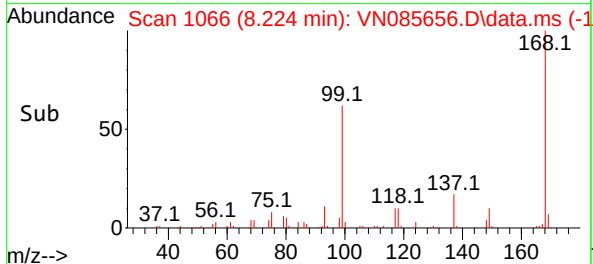
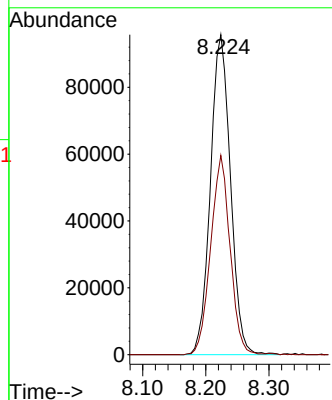
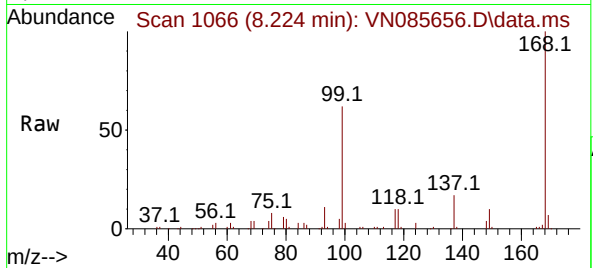




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

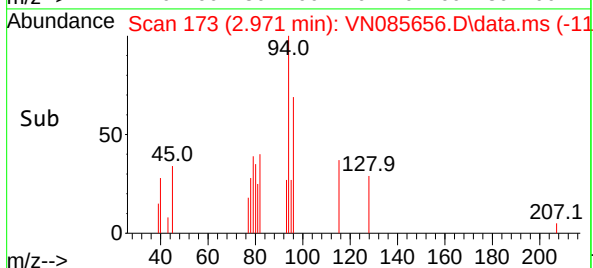
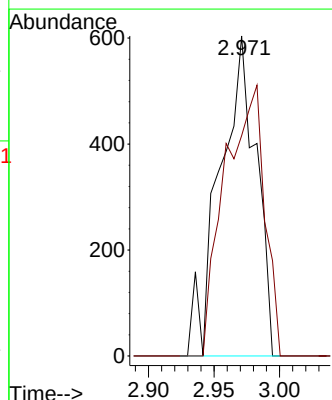
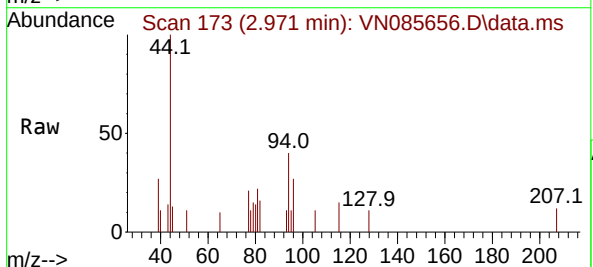
Instrument :
MSVOA_N
ClientSampleId :
IBLK

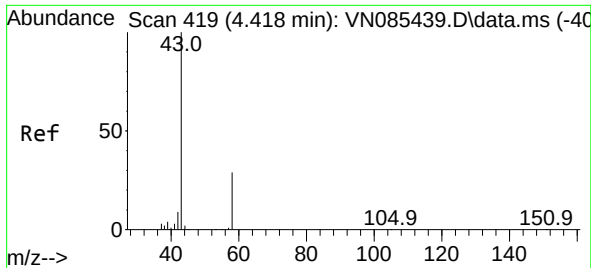
Tgt Ion:168 Resp: 210879
Ion Ratio Lower Upper
168 100
99 62.2 53.6 80.4



#5
Bromomethane
Concen: 0.617 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.018 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion: 94 Resp: 1159
Ion Ratio Lower Upper
94 100
96 68.9 71.8 107.6#





#16

Acetone

Concen: 0.217 ug/l

RT: 4.441 min Scan# 41

Delta R.T. 0.023 min

Lab File: VN085656.D

Acq: 04 Feb 2025 17:01

Instrument :

MSVOA_N

ClientSampleId :

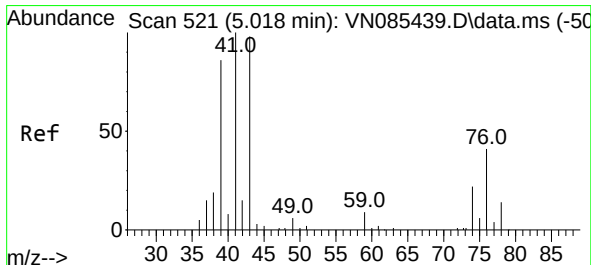
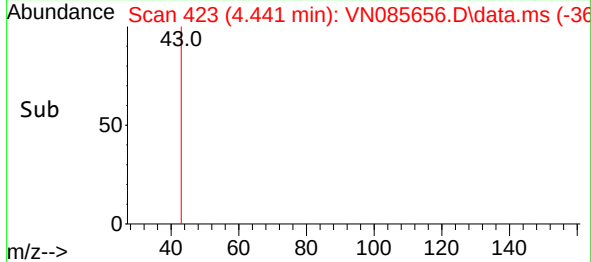
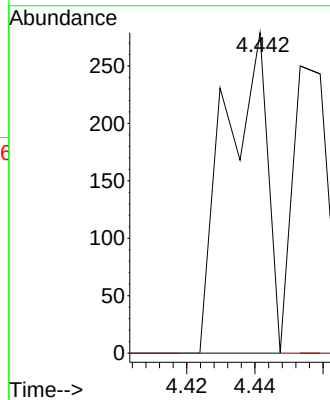
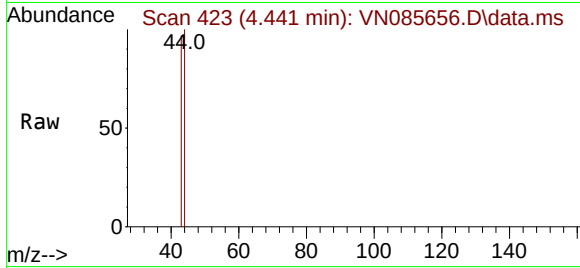
IBLK

Tgt Ion: 43 Resp: 239

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.6#



#18

Methyl Acetate

Concen: 0.319 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085656.D

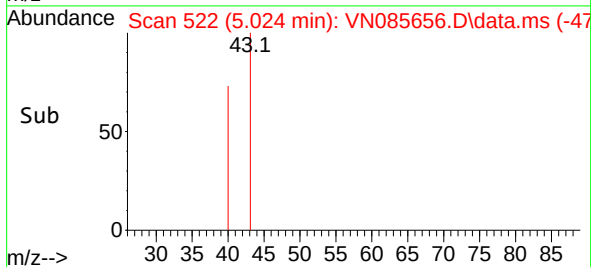
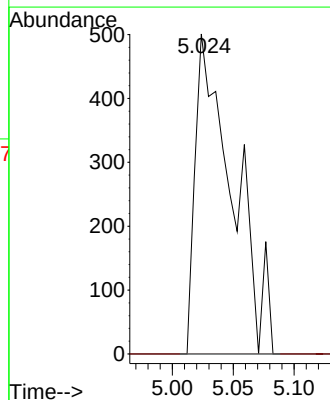
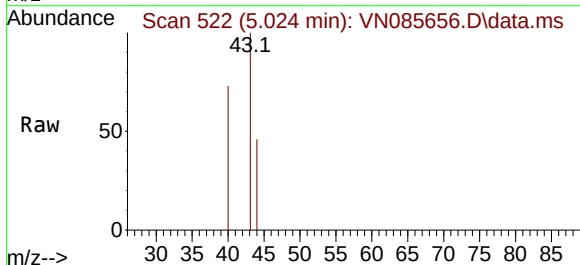
Acq: 04 Feb 2025 17:01

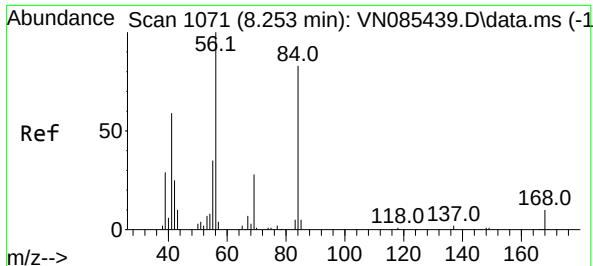
Tgt Ion: 43 Resp: 1066

Ion Ratio Lower Upper

43 100

74 0.0 18.6 28.0#





#31

Cyclohexane

Concen: 1.201 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN085656.D

Acq: 04 Feb 2025 17:01

Instrument :

MSVOA_N

ClientSampleId :

IBLK

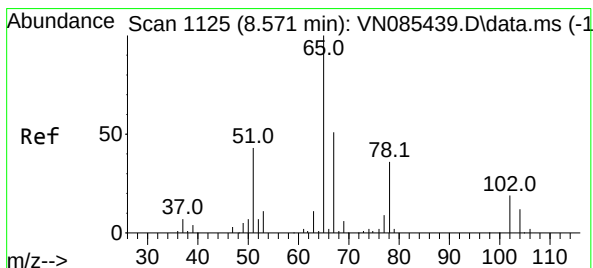
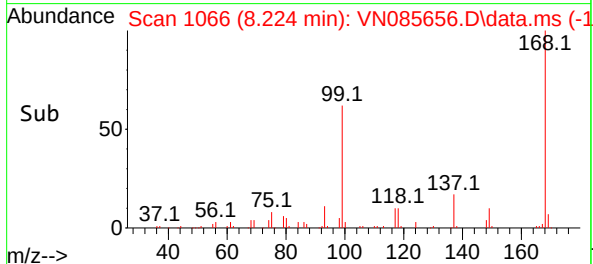
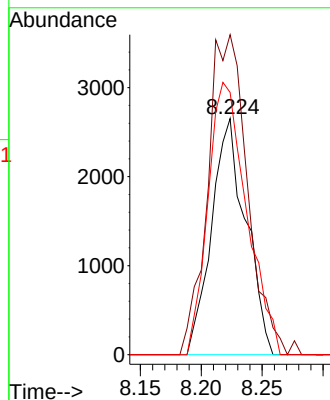
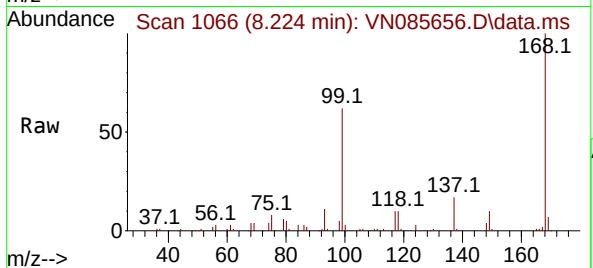
Tgt Ion: 56 Resp: 5189

Ion Ratio Lower Upper

56 100

69 135.5 22.2 33.4#

84 111.1 66.4 99.6#



#33

1,2-Dichloroethane-d4

Concen: 43.467 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085656.D

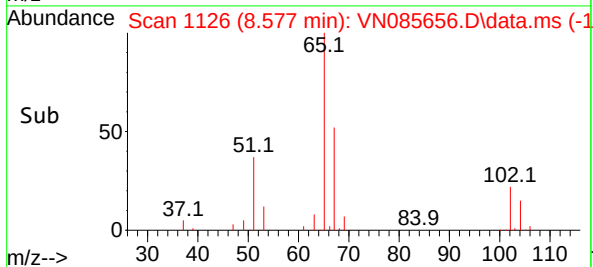
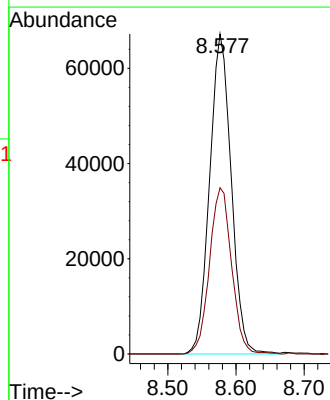
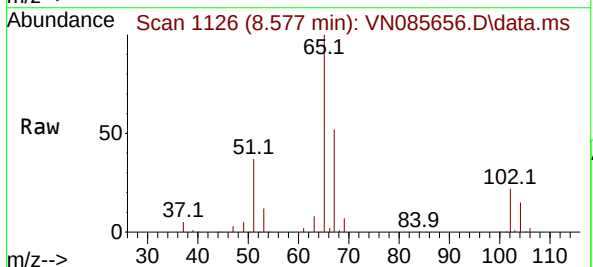
Acq: 04 Feb 2025 17:01

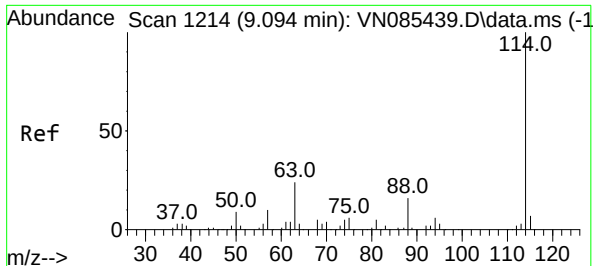
Tgt Ion: 65 Resp: 147962

Ion Ratio Lower Upper

65 100

67 53.1 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085656.D

Acq: 04 Feb 2025 17:01

Instrument :

MSVOA_N

ClientSampleId :

IBLK

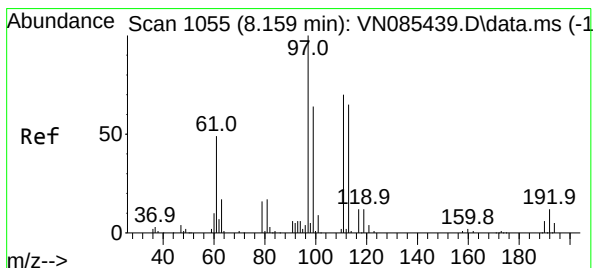
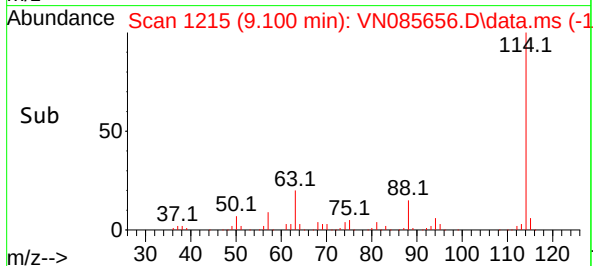
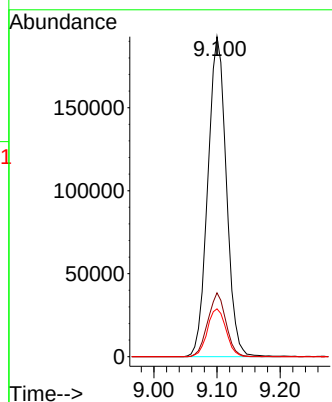
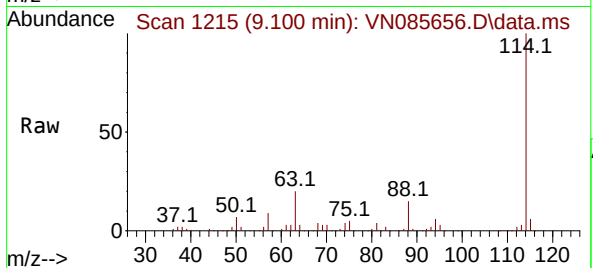
Tgt Ion:114 Resp: 392094

Ion Ratio Lower Upper

114 100

63 19.9 0.0 47.6

88 15.0 0.0 32.6



#35

Dibromofluoromethane

Concen: 47.010 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085656.D

Acq: 04 Feb 2025 17:01

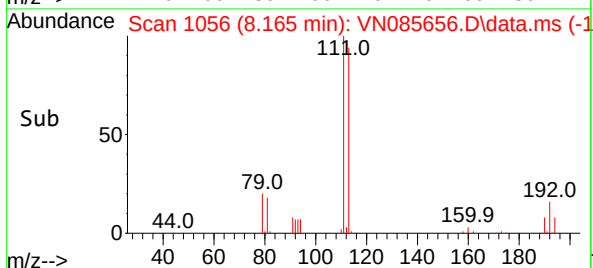
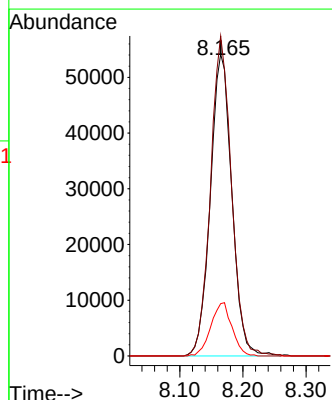
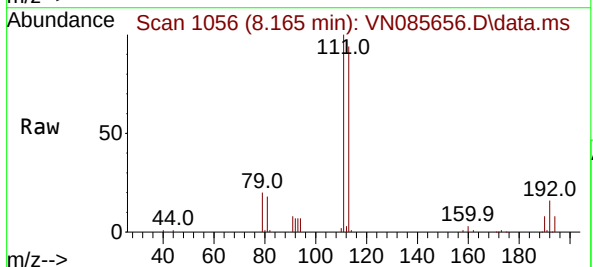
Tgt Ion:113 Resp: 127876

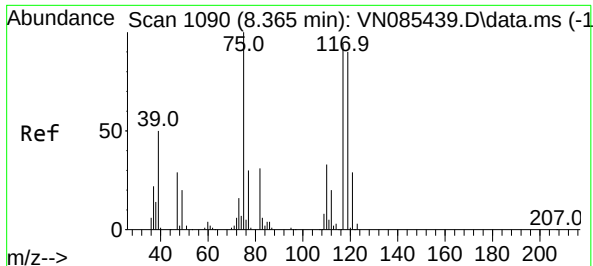
Ion Ratio Lower Upper

113 100

111 103.6 82.7 124.1

192 17.4 14.3 21.5

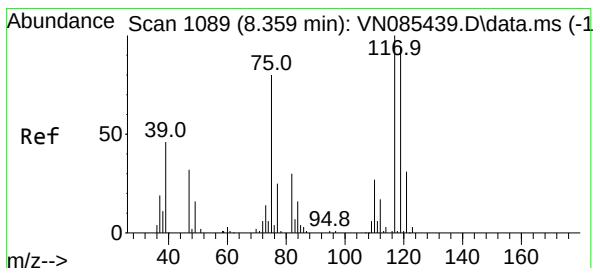
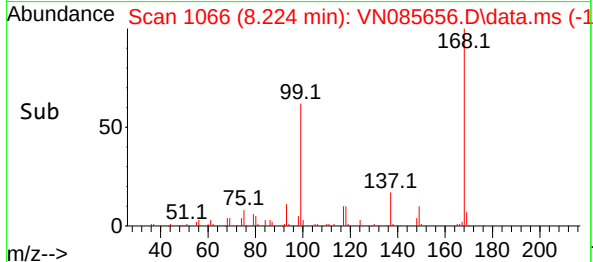
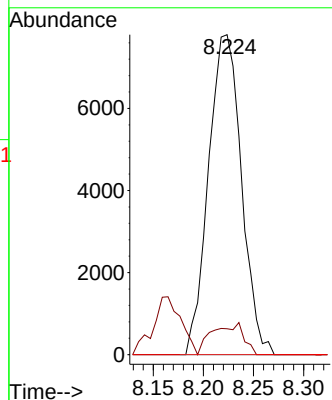
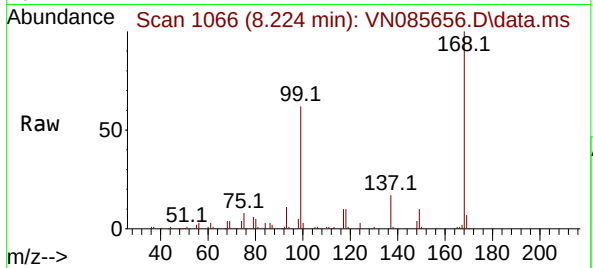




#36
 1,1-Dichloropropene
 Concen: 4.666 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.141 min
 Lab File: VN085656.D
 Acq: 04 Feb 2025 17:01

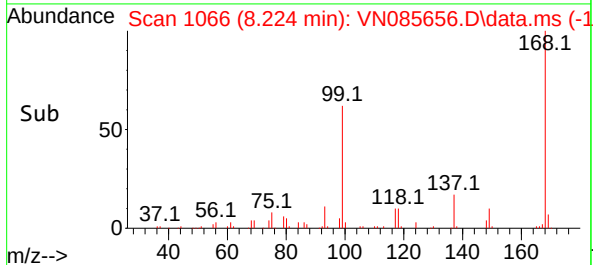
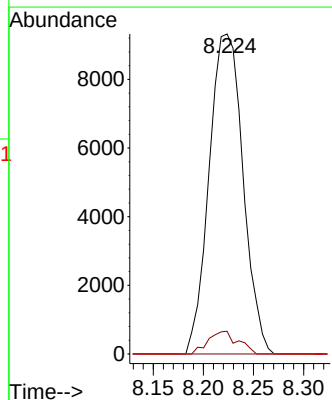
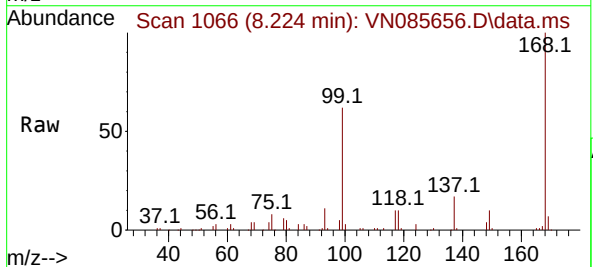
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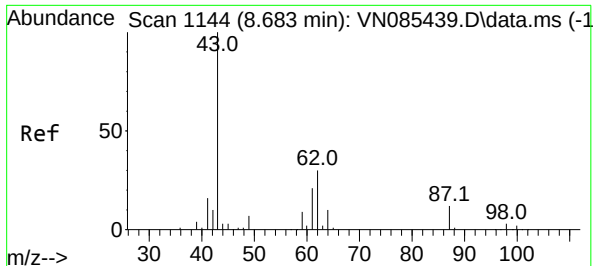
Tgt Ion: 75 Resp: 17813
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.5 49.5#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.018 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.135 min
 Lab File: VN085656.D
 Acq: 04 Feb 2025 17:01

Tgt Ion: 117 Resp: 21932
 Ion Ratio Lower Upper
 117 100
 119 7.1 75.4 113.2#
 121 0.0 24.6 37.0#

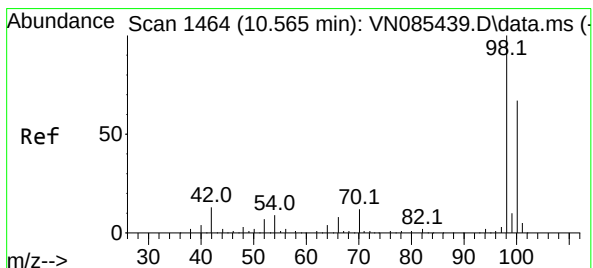
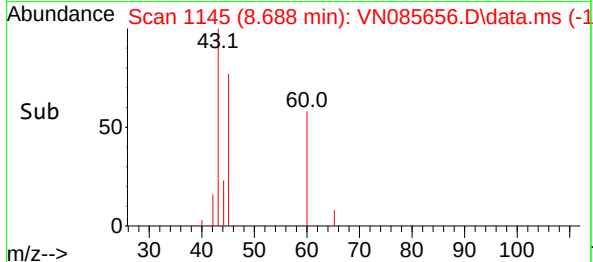
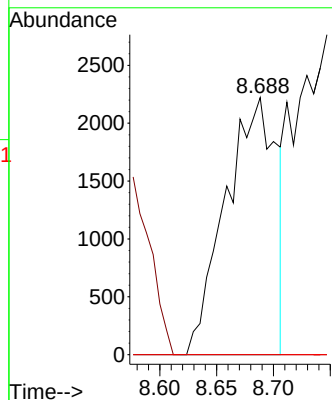
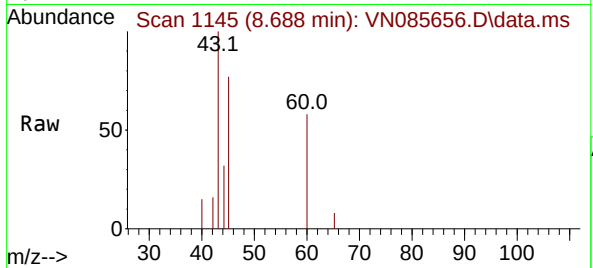




#43
Isopropyl Acetate
Concen: 1.118 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

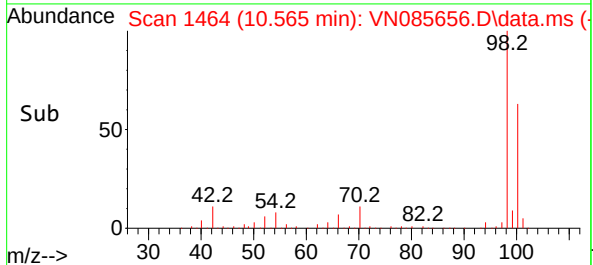
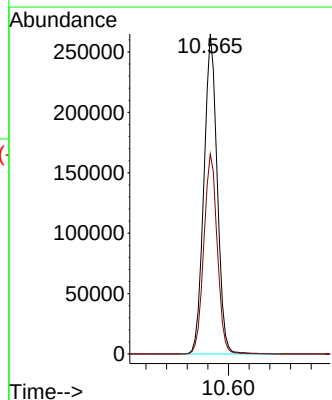
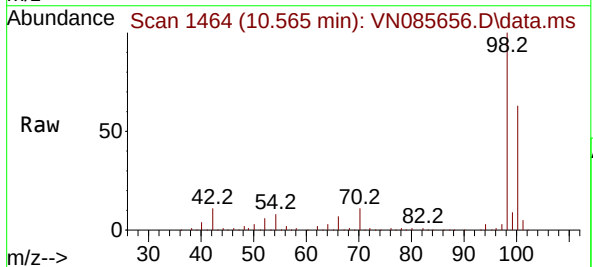
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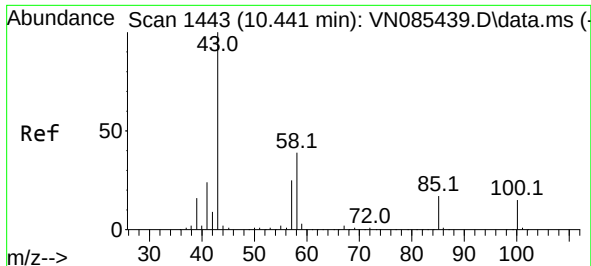
Tgt Ion: 43 Resp: 6903
Ion Ratio Lower Upper
43 100
61 0.0 20.7 31.1#
87 0.0 9.8 14.8#



#50
Toluene-d8
Concen: 48.911 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion: 98 Resp: 472710
Ion Ratio Lower Upper
98 100
100 63.1 52.2 78.4

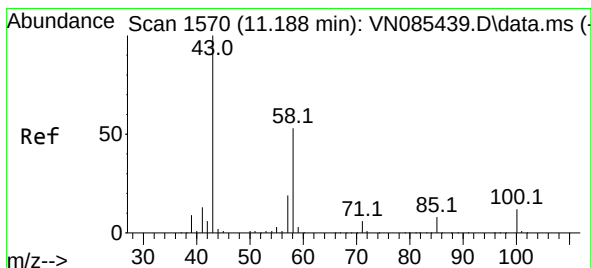
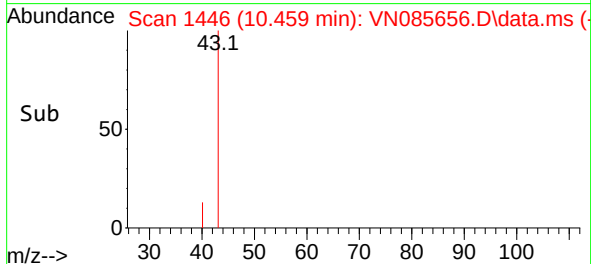
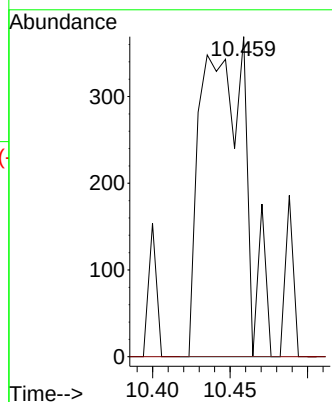
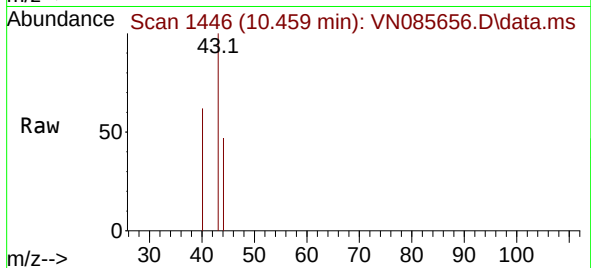




#51
4-Methyl-2-Pentanone
Concen: 0.206 ug/l
RT: 10.459 min Scan# 1446
Delta R.T. 0.018 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

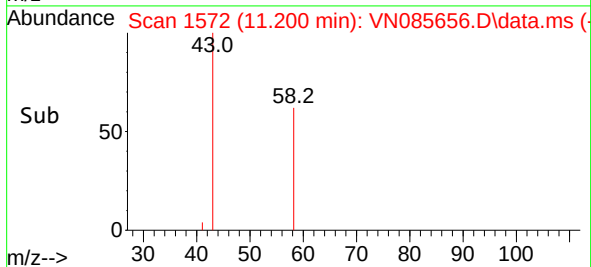
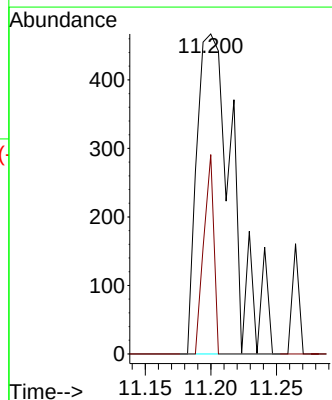
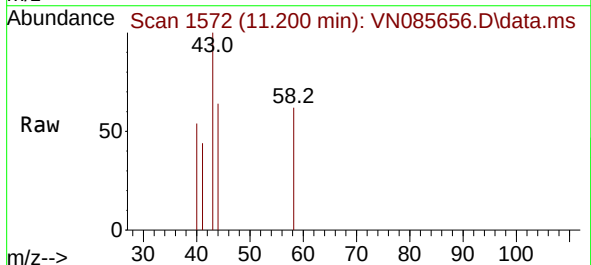
Instrument :
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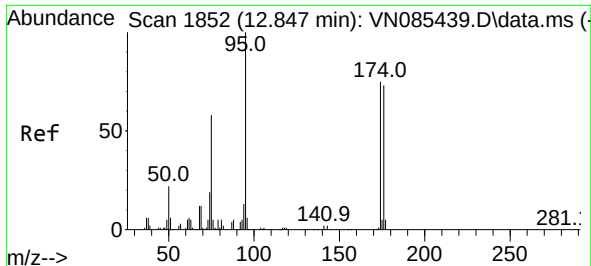
Tgt Ion: 43 Resp: 737
Ion Ratio Lower Upper
43 100
58 0.0 30.5 45.7#



#59
2-Hexanone
Concen: 0.358 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.012 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion: 43 Resp: 903
Ion Ratio Lower Upper
43 100
58 17.4 26.2 78.6#

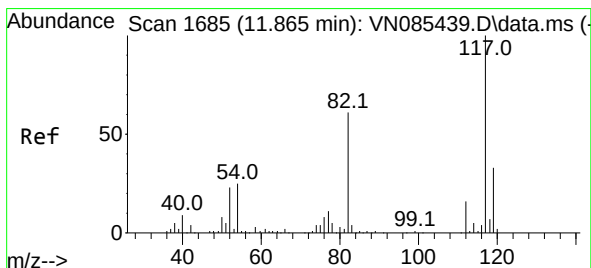
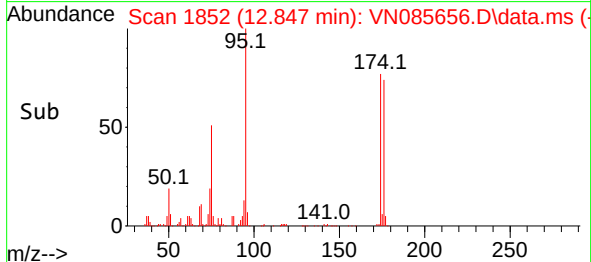
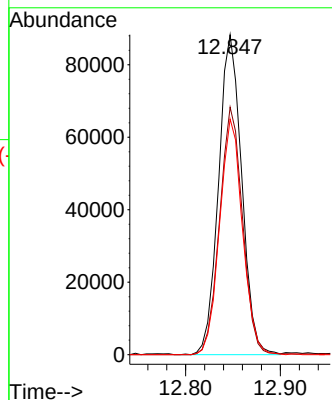
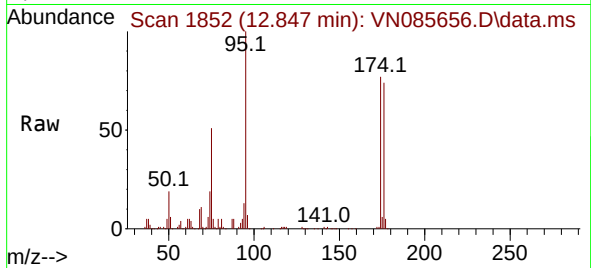




#62
4-Bromofluorobenzene
Concen: 45.316 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

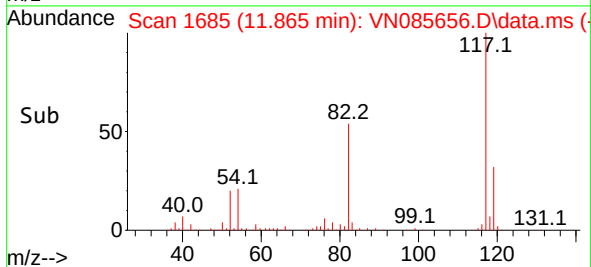
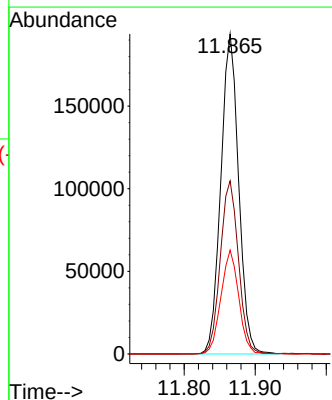
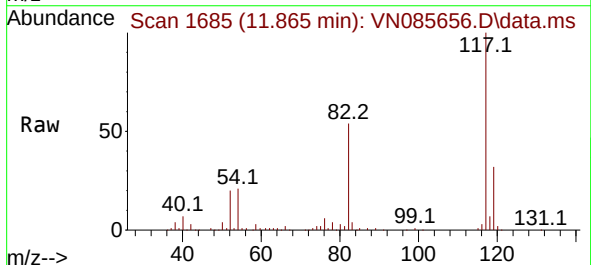
Instrument :
MSVOA_N
ClientSampleId :
IBLK

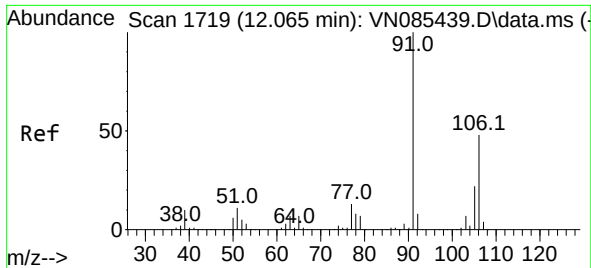
Tgt Ion: 95 Resp: 149817
Ion Ratio Lower Upper
95 100
174 76.7 0.0 145.0
176 73.0 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion: 117 Resp: 336506
Ion Ratio Lower Upper
117 100
82 54.1 48.6 72.8
119 32.5 26.6 39.8

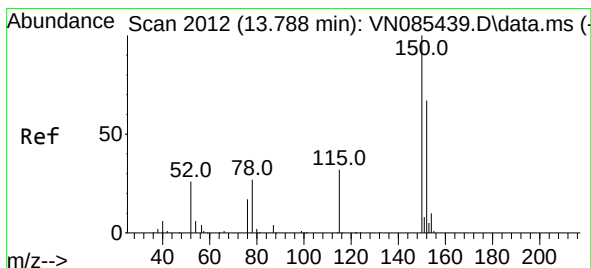
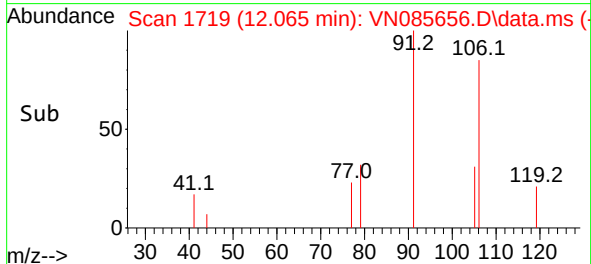
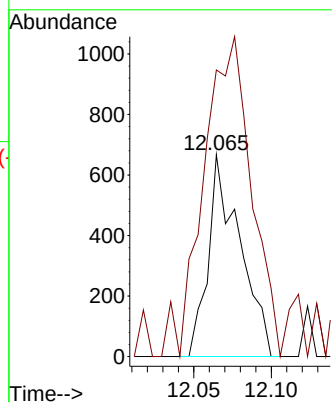
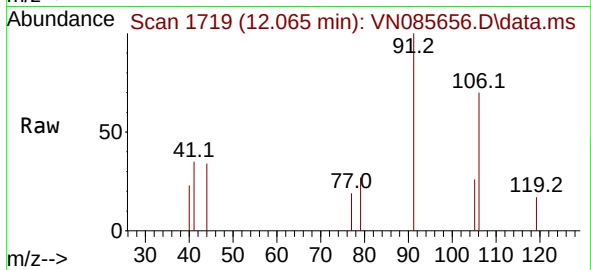




#68
m/p-Xylenes
Concen: 0.213 ug/l
RT: 12.065 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

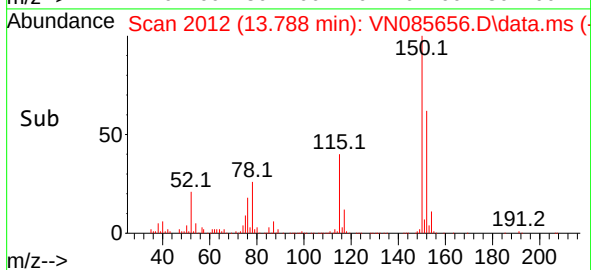
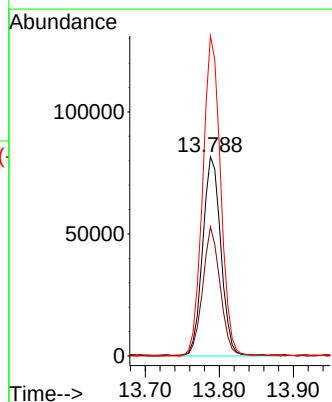
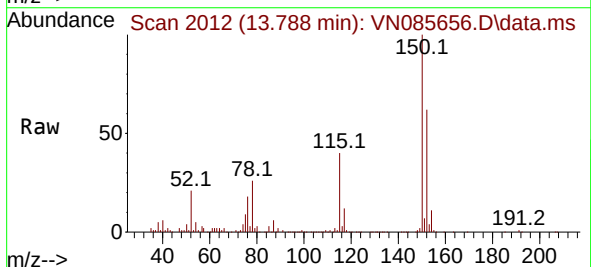
Instrument :
MSVOA_N
ClientSampleId :
IBLK

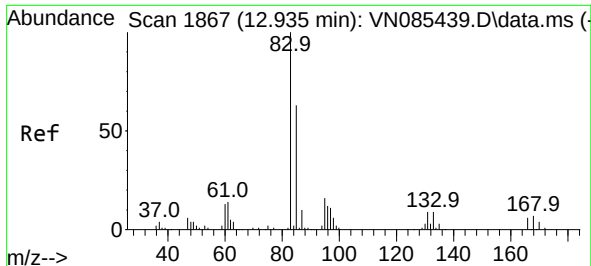
Tgt Ion:106 Resp: 947
Ion Ratio Lower Upper
106 100
91 240.4 167.7 251.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion:152 Resp: 139457
Ion Ratio Lower Upper
152 100
115 61.9 31.1 93.3
150 158.3 0.0 343.6

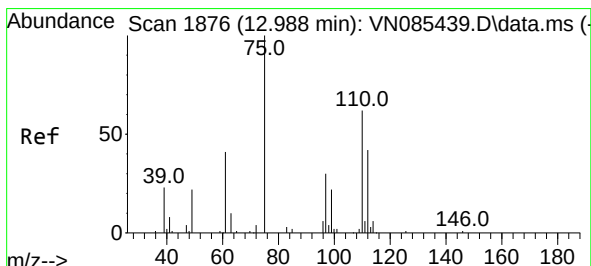
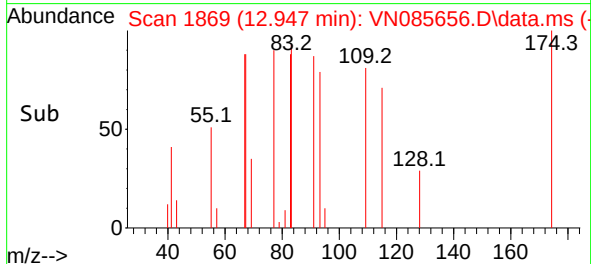
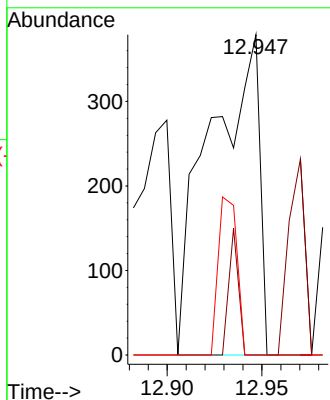
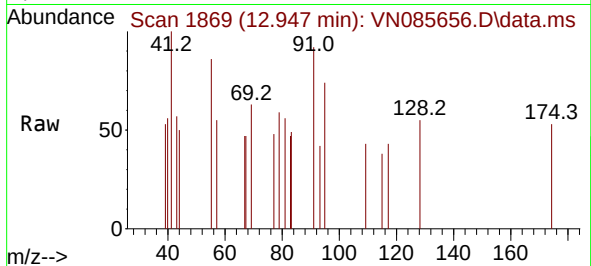




#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.207 ug/l
 RT: 12.947 min Scan# 1869
 Delta R.T. 0.012 min
 Lab File: VN085656.D
 Acq: 04 Feb 2025 17:01

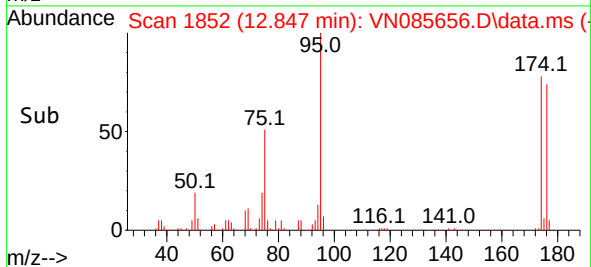
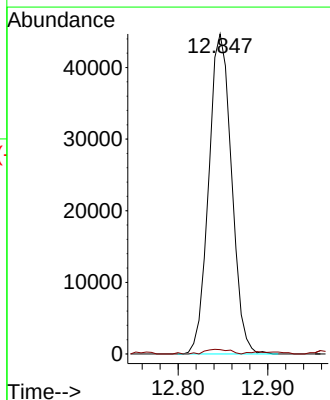
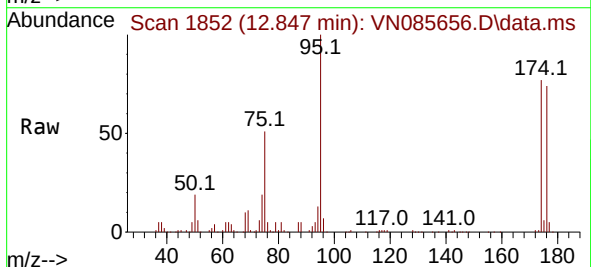
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

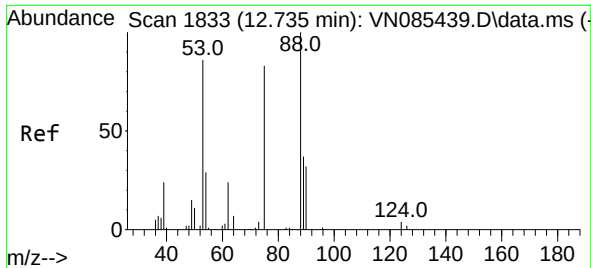
Tgt Ion: 83 Resp: 689
 Ion Ratio Lower Upper
 83 100
 131 7.7 4.8 14.4
 85 18.6 32.2 96.6#



#76
 1,2,3-Trichloropropane
 Concen: 27.853 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN085656.D
 Acq: 04 Feb 2025 17:01

Tgt Ion: 75 Resp: 78949
 Ion Ratio Lower Upper
 75 100
 77 1.6 109.7 329.2#

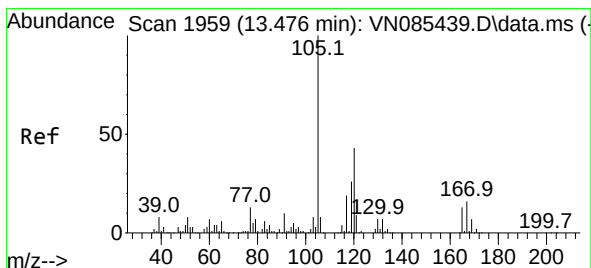
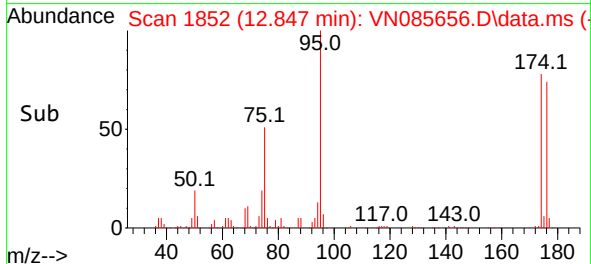
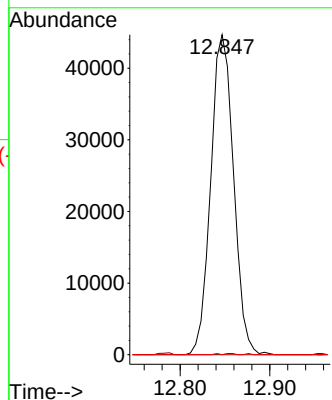
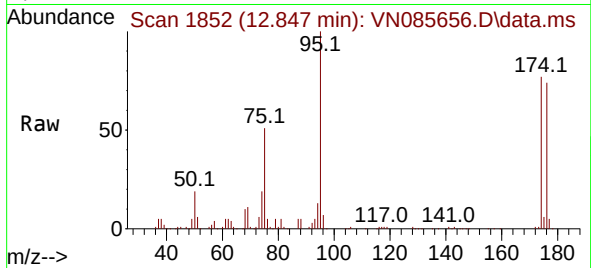




#81
trans-1,4-Dichloro-2-butene
Concen: 75.358 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

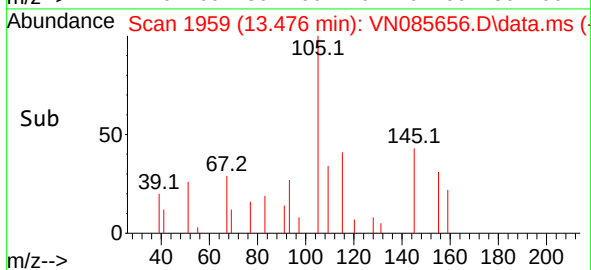
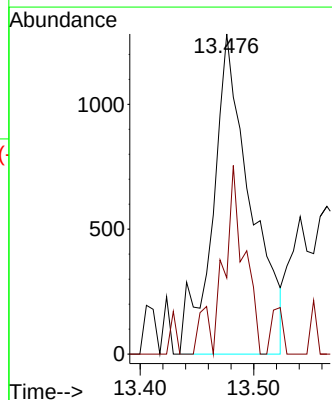
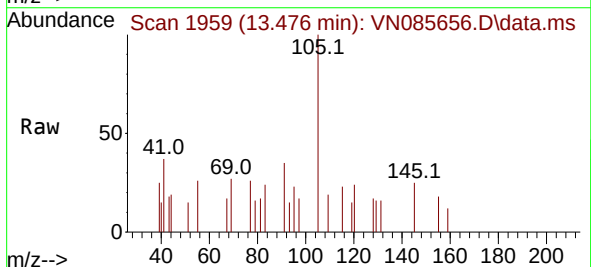
Instrument :
MSVOA_N
ClientSampleId :
IBLK

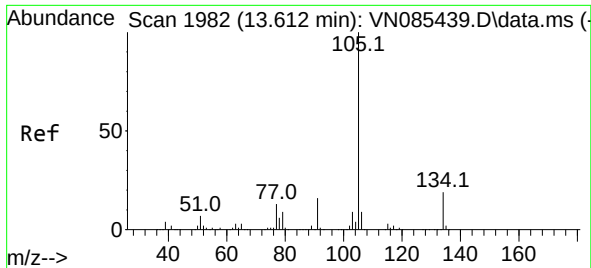
Tgt Ion: 75 Resp: 78949
Ion Ratio Lower Upper
75 100
53 0.1 95.6 143.4#
89 0.1 37.0 55.6#



#84
1,2,4-Trimethylbenzene
Concen: 0.383 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion: 105 Resp: 2971
Ion Ratio Lower Upper
105 100
120 33.8 21.6 65.0

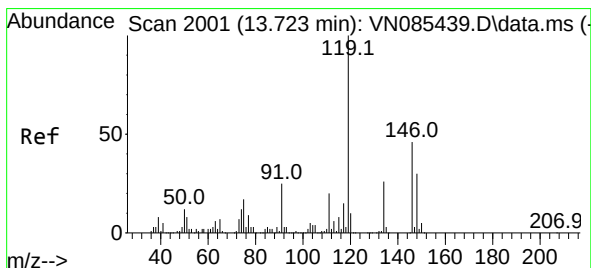
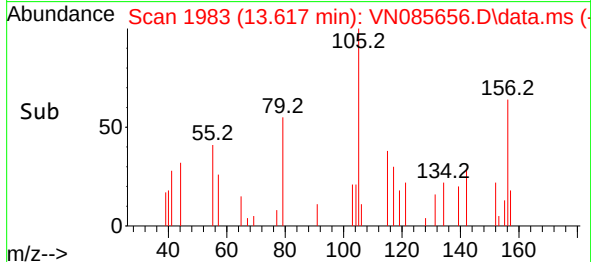
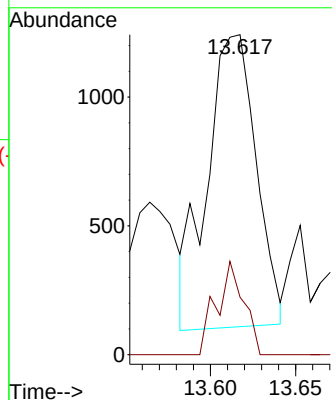
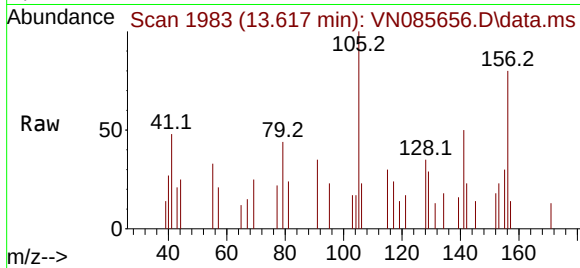




#85
sec-Butylbenzene
Concen: 0.252 ug/l
RT: 13.617 min Scan# 1982
Delta R.T. 0.005 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

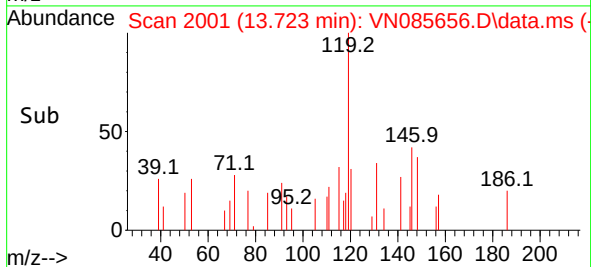
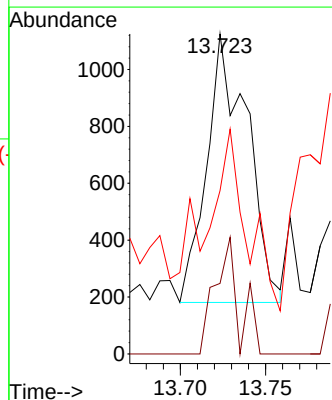
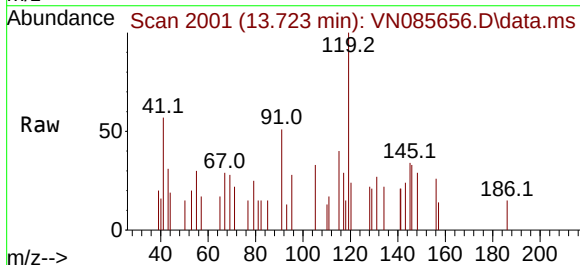
Instrument :
MSVOA_N
ClientSampleId :
IBLK

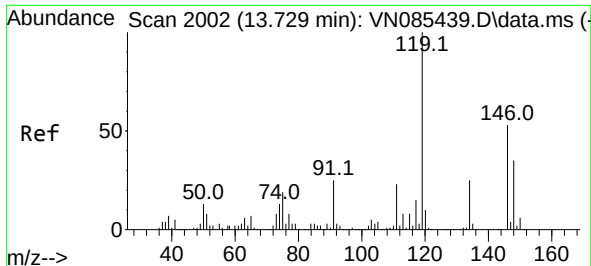
Tgt Ion:105 Resp: 2277
Ion Ratio Lower Upper
105 100
134 17.6 9.7 28.9



#86
p-Isopropyltoluene
Concen: 0.243 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion:119 Resp: 1568
Ion Ratio Lower Upper
119 100
134 25.7 12.7 38.0
91 68.7 12.7 38.1#

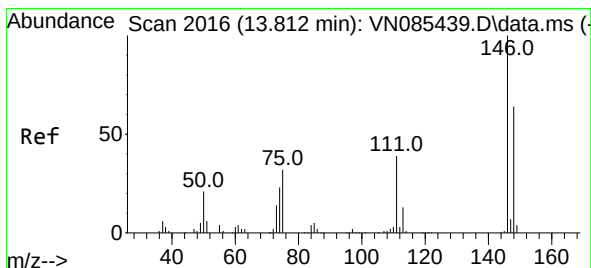
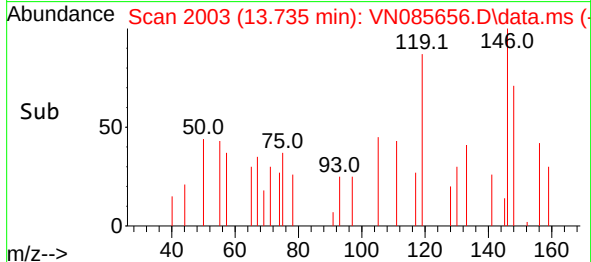
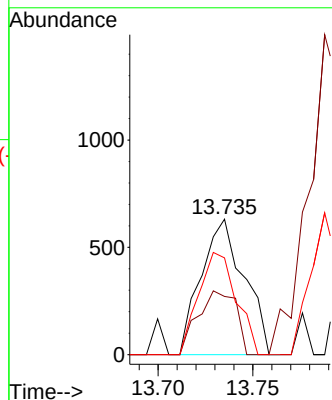
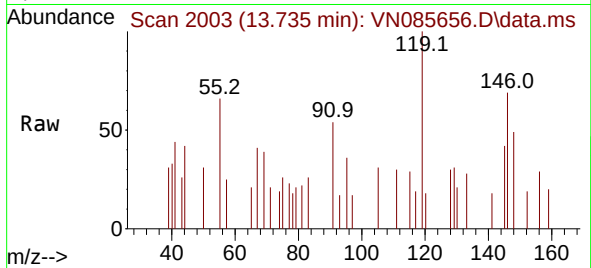




#87
1,3-Dichlorobenzene
Concen: 0.221 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

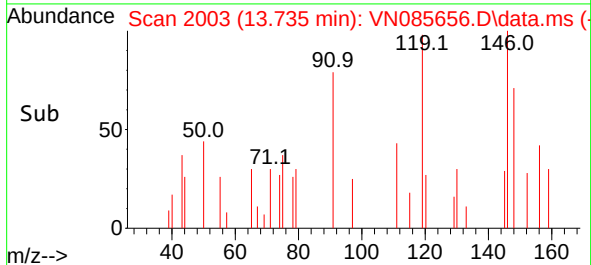
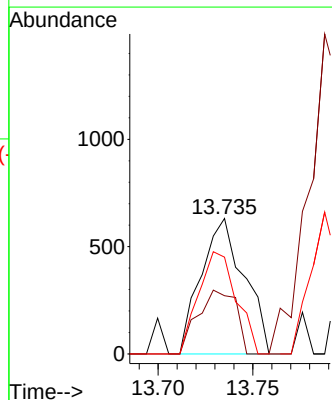
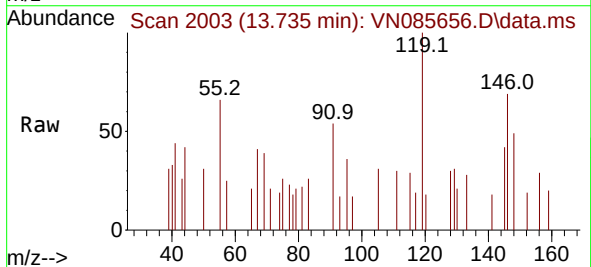
Instrument :
MSVOA_N
ClientSampleId :
IBLK

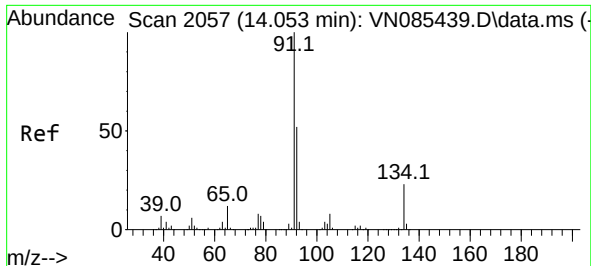
Tgt Ion:146 Resp: 999
Ion Ratio Lower Upper
146 100
111 41.6 21.4 64.3
148 66.2 32.3 96.9



#88
1,4-Dichlorobenzene
Concen: 0.213 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.077 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion:146 Resp: 999
Ion Ratio Lower Upper
146 100
111 41.6 21.3 63.7
148 66.2 32.4 97.0

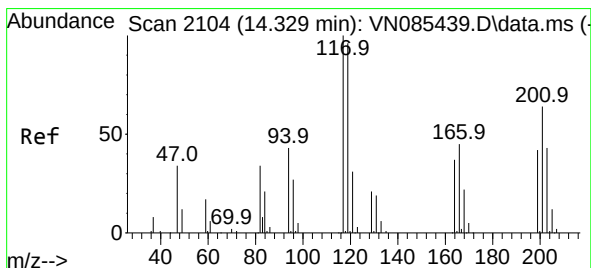
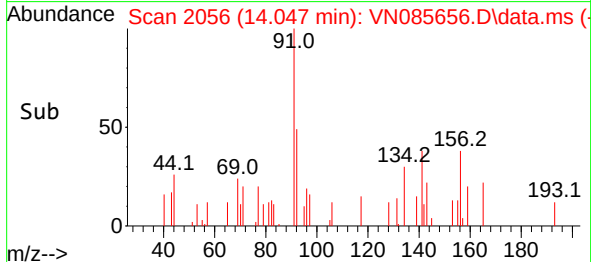
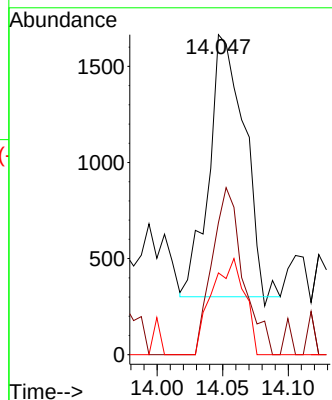
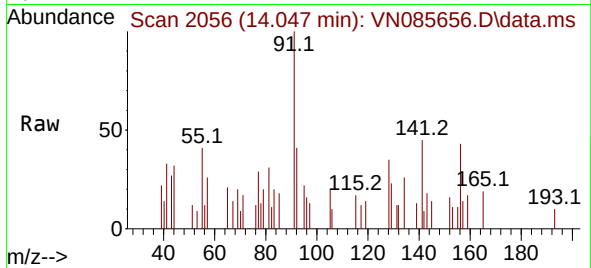




#89
n-Butylbenzene
Concen: 0.394 ug/l
RT: 14.047 min Scan# 2056
Delta R.T. -0.006 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

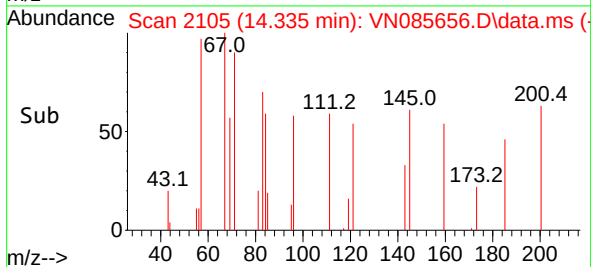
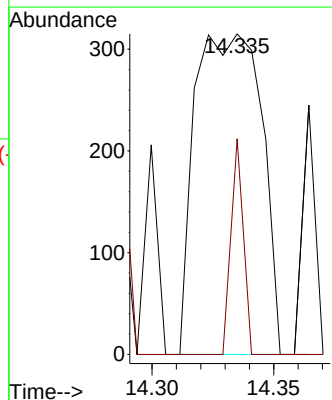
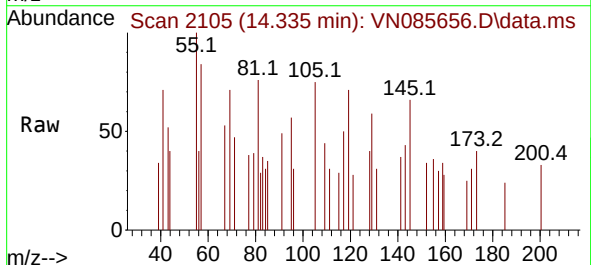
Instrument :
MSVOA_N
ClientSampleId :
IBLK

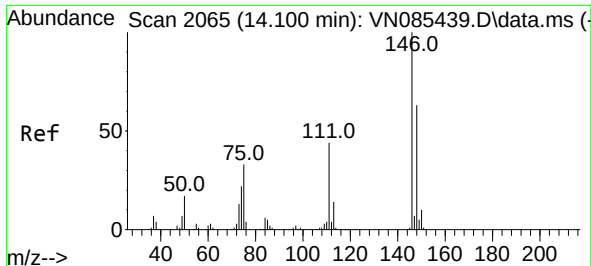
Tgt Ion: 91 Resp: 2560
Ion Ratio Lower Upper
91 100
92 55.8 25.8 77.3
134 34.1 11.7 35.1



#90
Hexachloroethane
Concen: 0.348 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion: 117 Resp: 599
Ion Ratio Lower Upper
117 100
201 12.5 33.7 101.0#

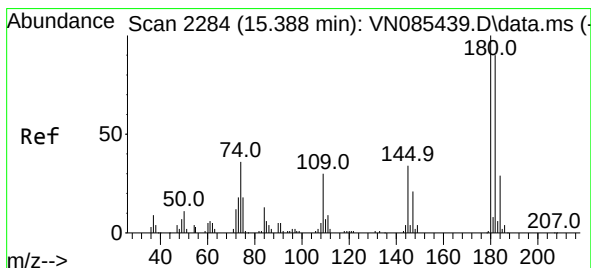
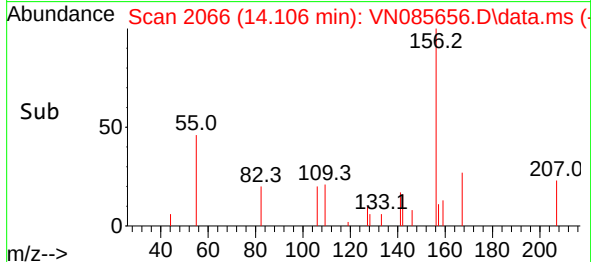
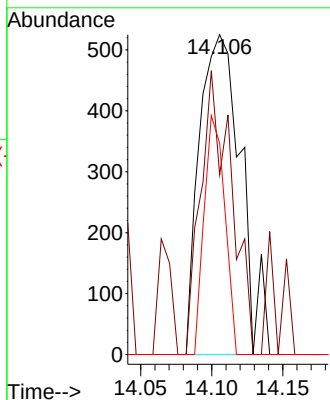
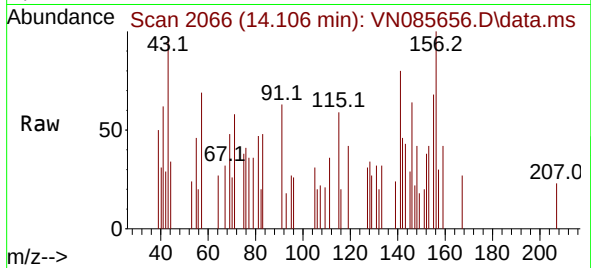




#91
1,2-Dichlorobenzene
Concen: 0.237 ug/l
RT: 14.106 min Scan# 2065
Delta R.T. 0.006 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

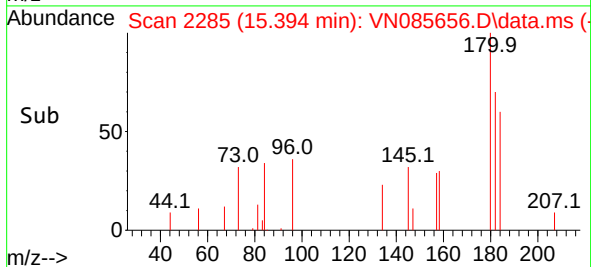
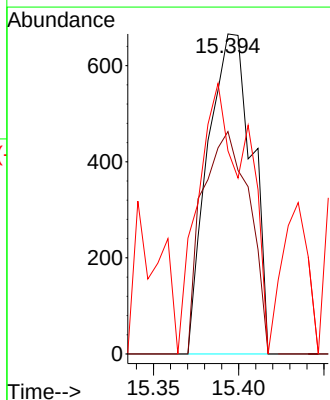
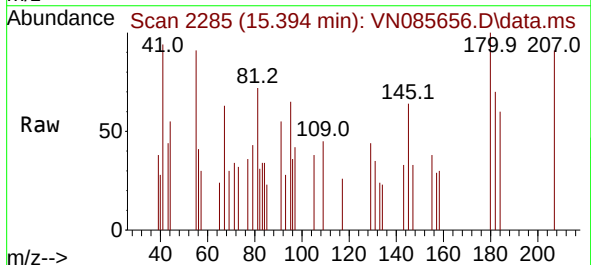
Instrument :
MSVOA_N
ClientSampleId :
IBLK

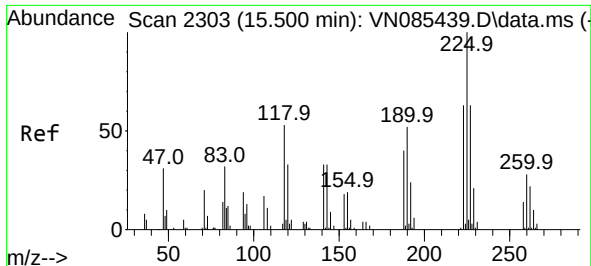
Tgt Ion:146 Resp: 1069
Ion Ratio Lower Upper
146 100
111 65.8 21.7 65.1#
148 37.1 31.4 94.2



#93
1,2,4-Trichlorobenzene
Concen: 0.572 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. 0.006 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

Tgt Ion:180 Resp: 1200
Ion Ratio Lower Upper
180 100
182 74.3 46.8 140.3
145 94.2 16.0 48.0#

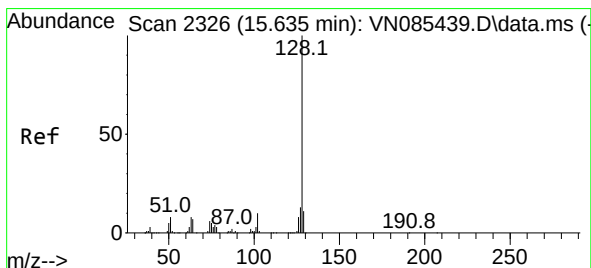
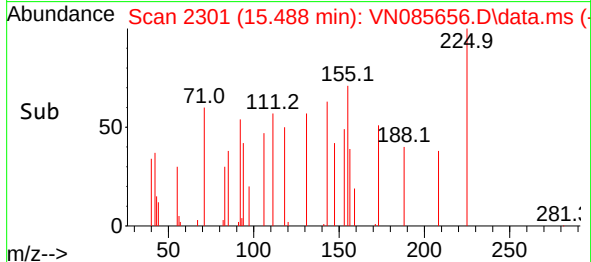
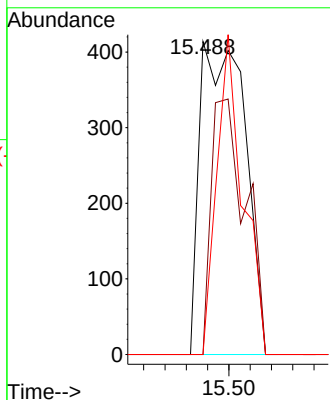
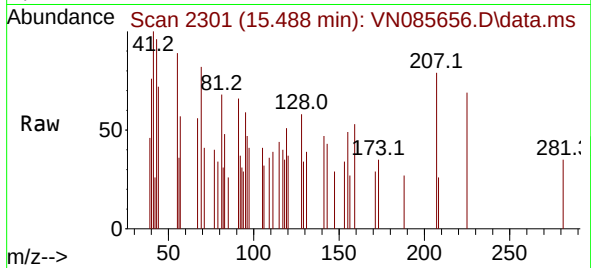




#94
Hexachlorobutadiene
Concen: 0.548 ug/l
RT: 15.488 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

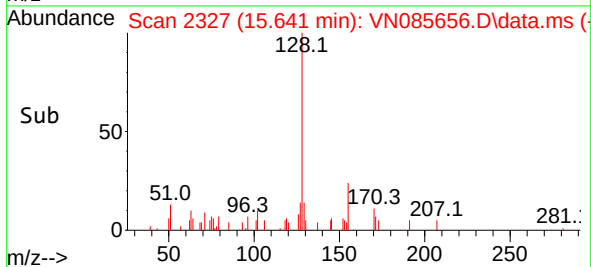
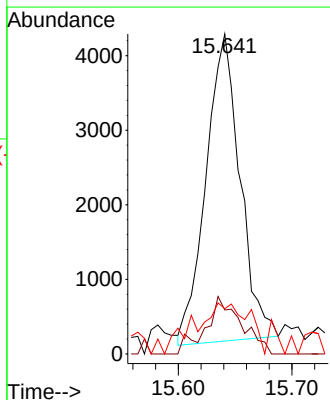
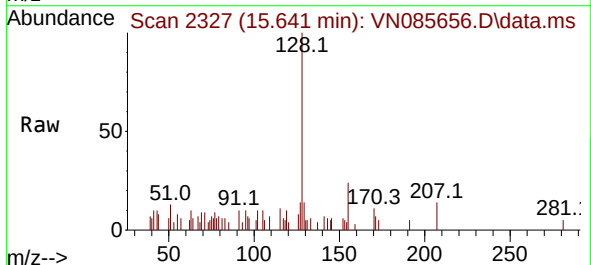
Instrument :
MSVOA_N
ClientSampleId :
IBLK

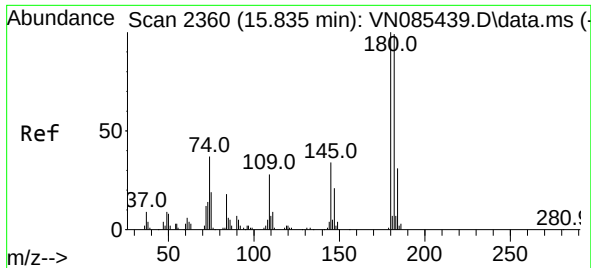
Tgt Ion:	225	Resp:	611
Ion	Ratio	Lower	Upper
225	100		
223	61.9	30.7	92.1
227	58.6	30.9	92.5



#95
Naphthalene
Concen: 1.370 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085656.D
Acq: 04 Feb 2025 17:01

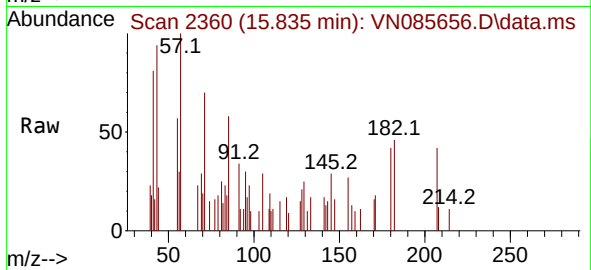
Tgt Ion:	128	Resp:	8586
Ion	Ratio	Lower	Upper
128	100		
127	19.5	10.6	16.0#
129	27.1	8.8	13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.585 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN085656.D
 Acq: 04 Feb 2025 17:01

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion	Ratio	Lower	Upper
180	100		
182	135.8	47.4	142.2
145	58.0	16.9	50.7

