

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
 Data File : VN086141.D
 Acq On : 28 Mar 2025 11:19
 Operator : JC\MD
 Sample : VN0328MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328MBL01

Quant Time: Mar 28 23:37:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	144809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	270059	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234798	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	97290	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114352	57.668	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 115.340%	
35) Dibromofluoromethane	8.165	113	102112	54.171	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 108.340%	
50) Toluene-d8	10.565	98	324586	47.446	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 94.900%	
62) 4-Bromofluorobenzene	12.847	95	95447	39.121	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 78.240%	

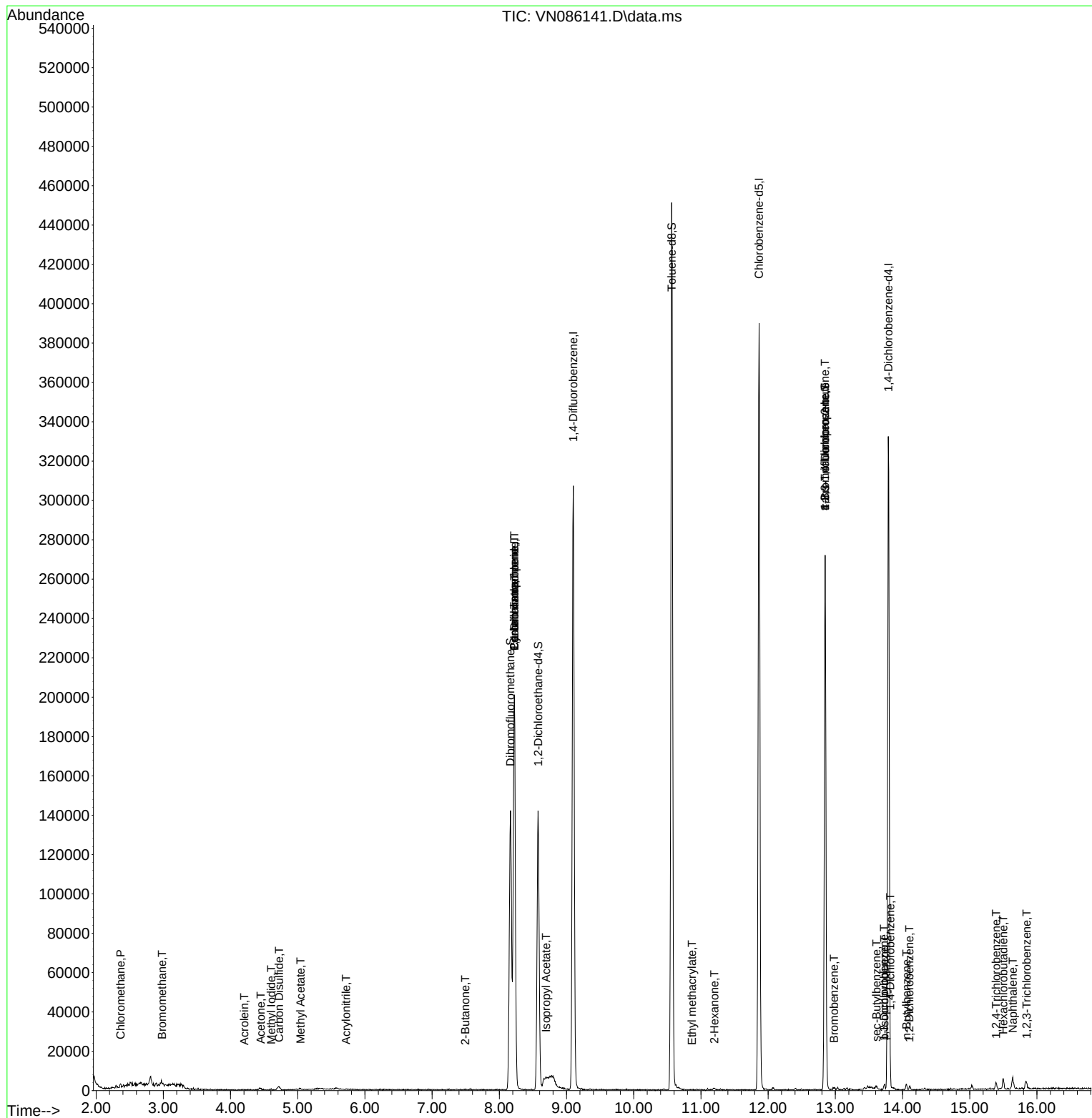
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	1387	0.825	ug/l #	86
5) Bromomethane	2.983	94	1125	0.960	ug/l	89
10) Methyl Iodide	4.606	142	595	0.278	ug/l #	66
13) Acrolein	4.206	56	119	0.397	ug/l #	15
15) Acrylonitrile	5.718	53	164	0.221	ug/l #	52
16) Acetone	4.448	43	1635	2.699	ug/l #	78
17) Carbon Disulfide	4.724	76	2145	0.440	ug/l #	74
18) Methyl Acetate	5.042	43	892	0.595	ug/l #	64
25) 2-Butanone	7.494	43	203	0.232	ug/l #	40
31) Cyclohexane	8.224	56	3156	1.277	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	12058	4.858	ug/l #	48
38) Carbon Tetrachloride	8.224	117	15188	4.654	ug/l #	16
43) Isopropyl Acetate	8.694	43	1036	0.228	ug/l #	50
56) Ethyl methacrylate	10.865	69	53	0.210	ug/l #	33
59) 2-Hexanone	11.200	43	906	0.621	ug/l	83
76) 1,2,3-Trichloropropane	12.847	75	46204	21.213	ug/l #	1
77) Bromobenzene	12.982	156	379	0.205	ug/l	78
81) trans-1,4-Dichloro-2-b...	12.847	75	46204	56.083	ug/l #	16
85) sec-Butylbenzene	13.612	105	1575	0.252	ug/l	84
86) p-Isopropyltoluene	13.729	119	1399	0.264	ug/l #	65
87) 1,3-Dichlorobenzene	13.723	146	957	0.287	ug/l #	28
88) 1,4-Dichlorobenzene	13.818	146	1421	0.405	ug/l #	73
89) n-Butylbenzene	14.059	91	2068	0.479	ug/l	91
91) 1,2-Dichlorobenzene	14.100	146	967	0.291	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	1410	0.845	ug/l	86
94) Hexachlorobutadiene	15.500	225	1310	1.353	ug/l	97
95) Naphthalene	15.641	128	6886	1.425	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.847	180	1898	1.198	ug/l	96

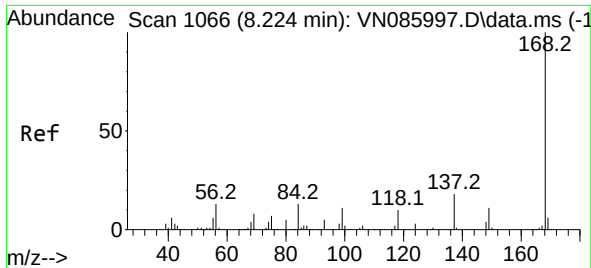
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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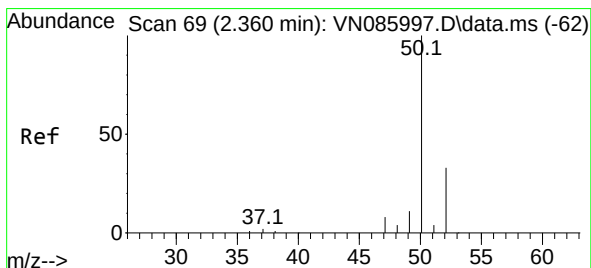
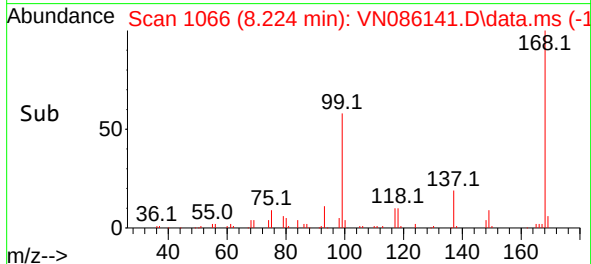
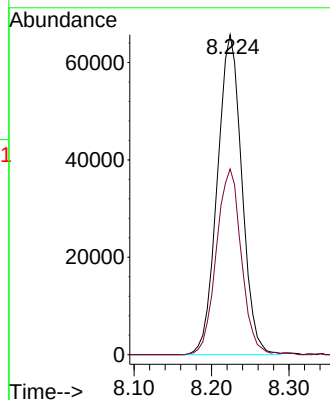
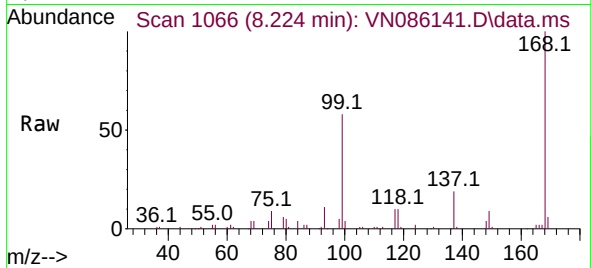




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

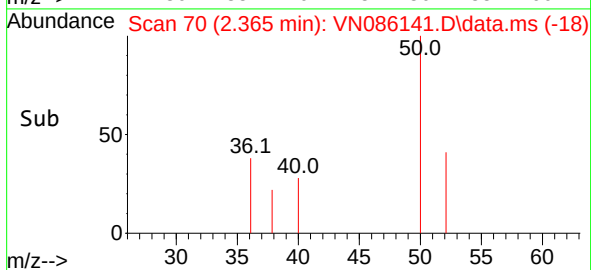
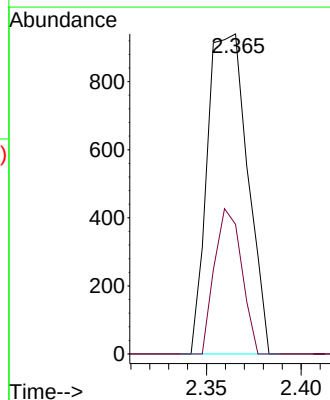
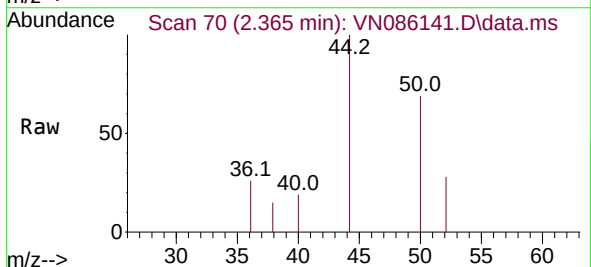
Instrument :
MSVOA_N
ClientSampleId :
VN0328MBL01

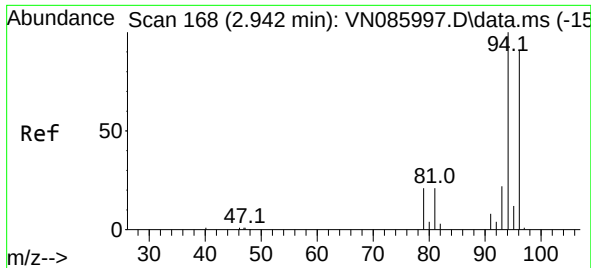
Tgt Ion:168 Resp: 144809
Ion Ratio Lower Upper
168 100
99 58.0 49.4 74.2



#3
Chloromethane
Concen: 0.825 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

Tgt Ion: 50 Resp: 1387
Ion Ratio Lower Upper
50 100
52 40.5 26.0 39.0#

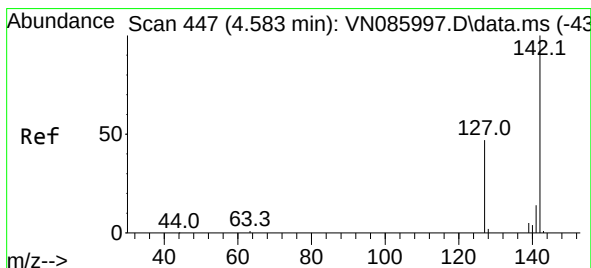
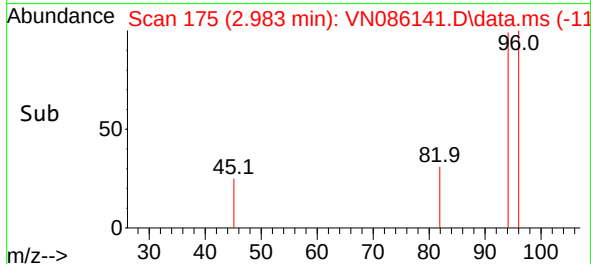
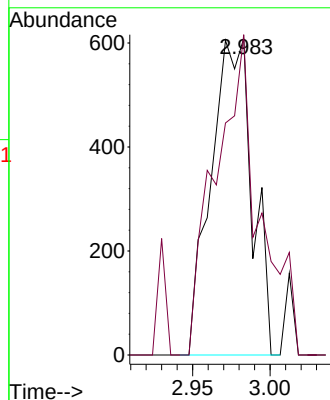
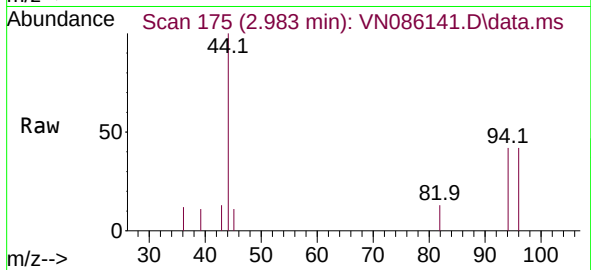




#5
Bromomethane
Concen: 0.960 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

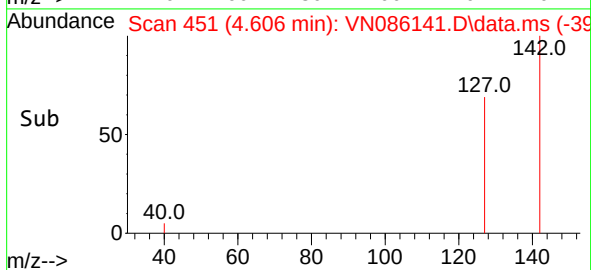
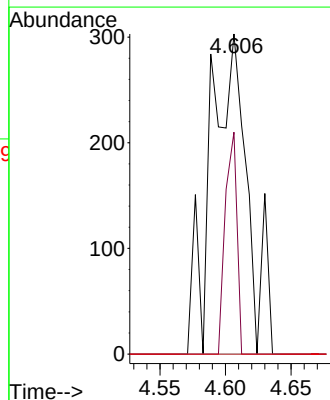
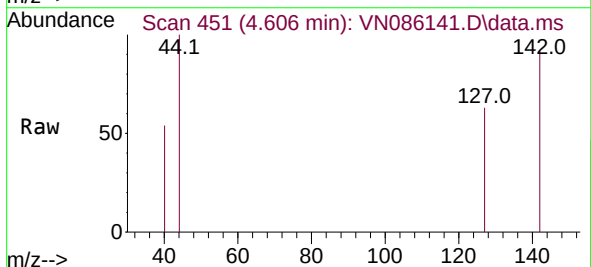
Instrument :
MSVOA_N
ClientSampleId :
VN0328MBL01

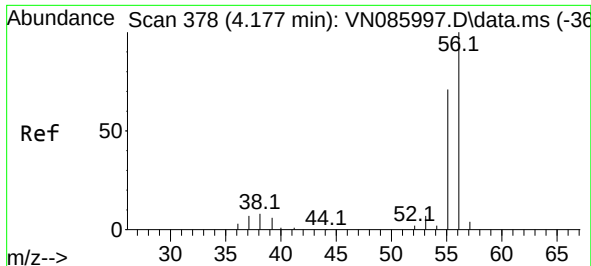
Tgt Ion: 94 Resp: 1125
Ion Ratio Lower Upper
94 100
96 101.1 72.8 109.2



#10
Methyl Iodide
Concen: 0.278 ug/l
RT: 4.606 min Scan# 451
Delta R.T. 0.023 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

Tgt Ion: 142 Resp: 595
Ion Ratio Lower Upper
142 100
127 69.3 37.5 56.3#
141 0.0 11.0 16.6#

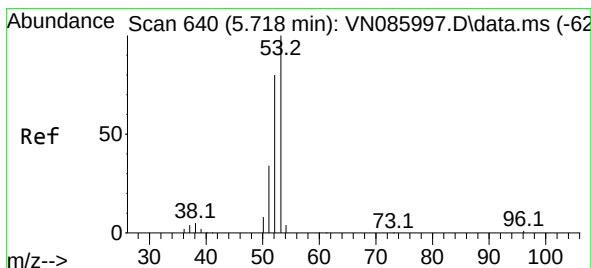
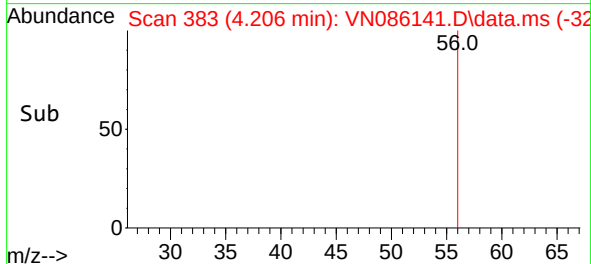
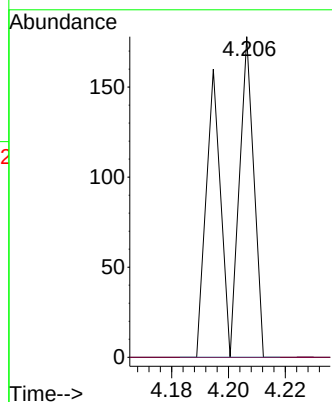
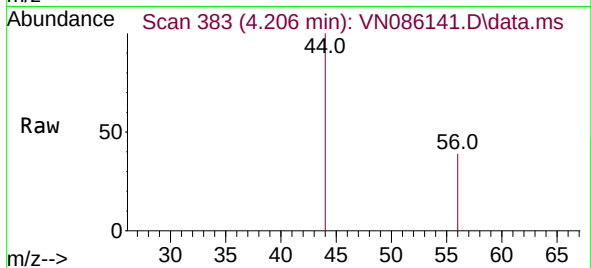




#13
Acrolein
Concen: 0.397 ug/l
RT: 4.206 min Scan# 383
Delta R.T. 0.029 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

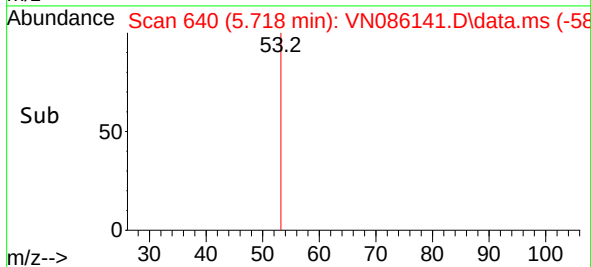
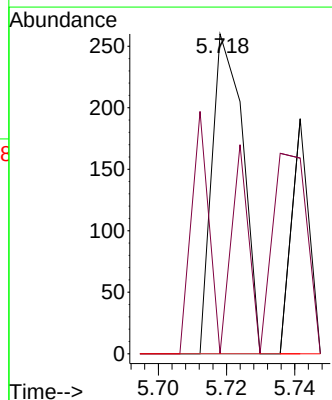
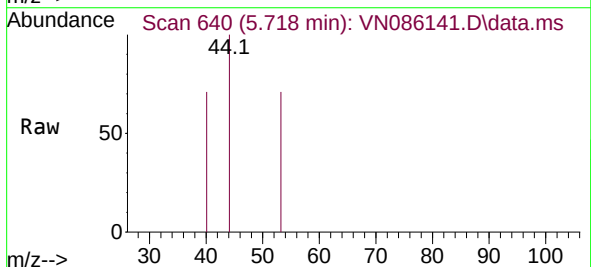
Instrument :
MSVOA_N
ClientSampleId :
VN0328MBL01

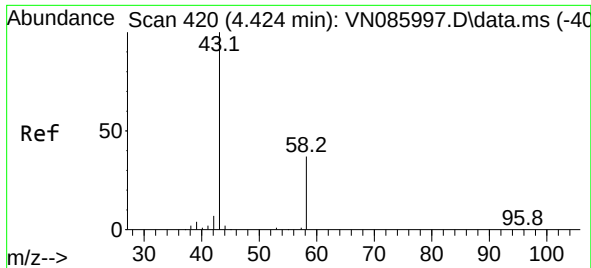
Tgt Ion: 56 Resp: 119
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#



#15
Acrylonitrile
Concen: 0.221 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

Tgt Ion: 53 Resp: 164
Ion Ratio Lower Upper
53 100
52 42.1 63.9 95.9#
51 0.0 27.1 40.7#





#16

Acetone

Concen: 2.699 ug/l

RT: 4.448 min Scan# 41

Delta R.T. 0.023 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

Instrument :

MSVOA_N

ClientSampleId :

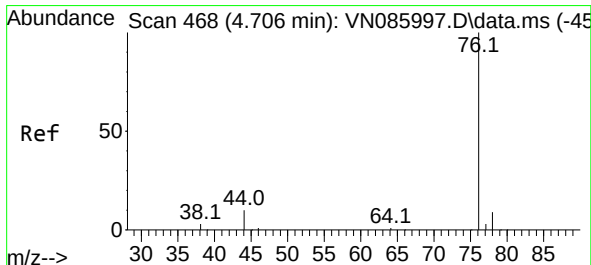
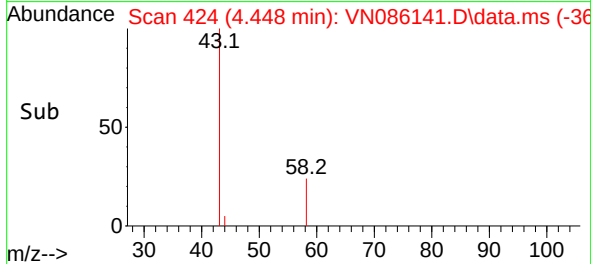
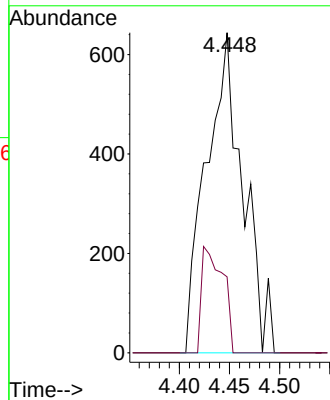
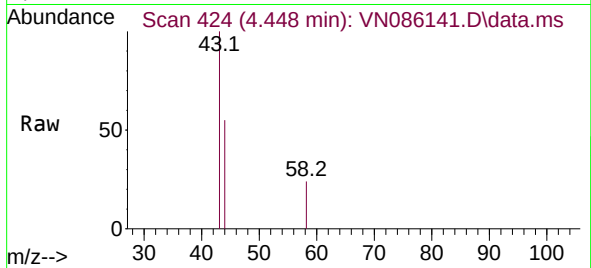
VN0328MBL01

Tgt Ion: 43 Resp: 1635

Ion Ratio Lower Upper

43 100

58 23.8 29.4 44.2#



#17

Carbon Disulfide

Concen: 0.440 ug/l

RT: 4.724 min Scan# 471

Delta R.T. 0.018 min

Lab File: VN086141.D

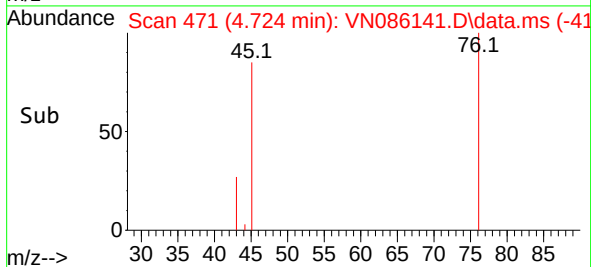
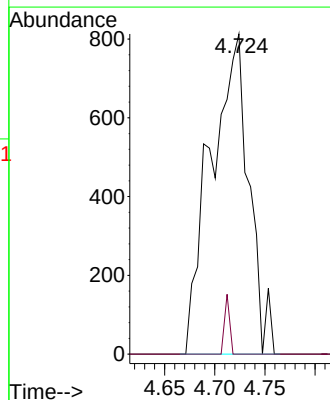
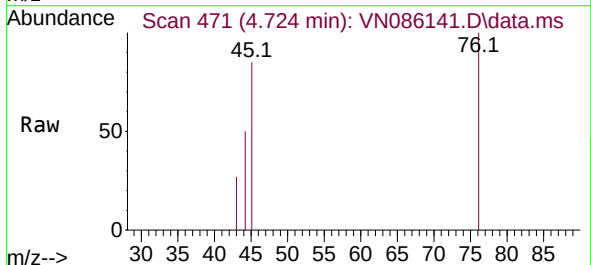
Acq: 28 Mar 2025 11:19

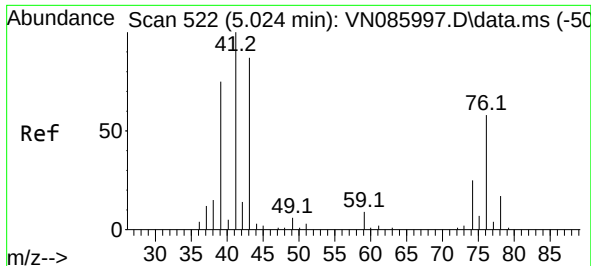
Tgt Ion: 76 Resp: 2145

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#





#18

Methyl Acetate

Concen: 0.595 ug/l

RT: 5.042 min Scan# 51

Delta R.T. 0.018 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

Instrument :

MSVOA_N

ClientSampleId :

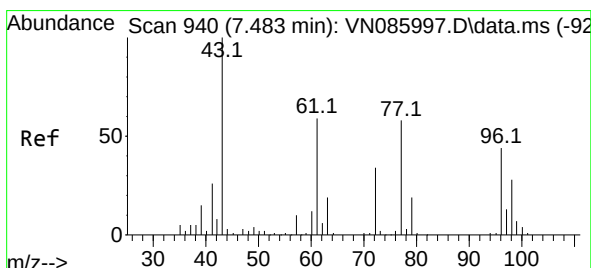
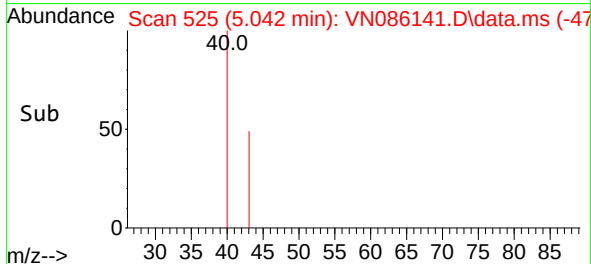
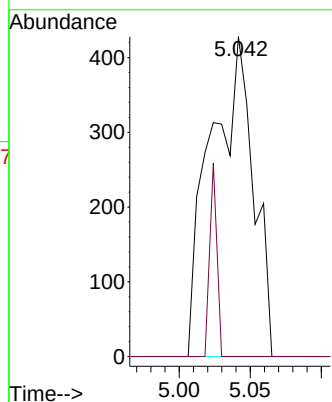
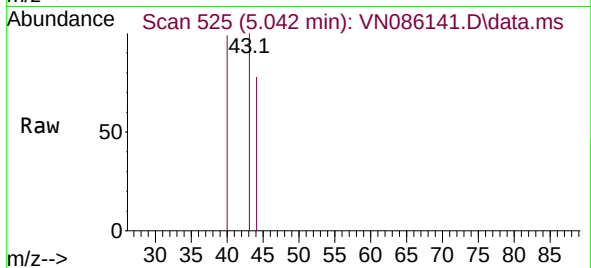
VN0328MBL01

Tgt Ion: 43 Resp: 892

Ion Ratio Lower Upper

43 100

74 10.2 23.9 35.9#



#25

2-Butanone

Concen: 0.232 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN086141.D

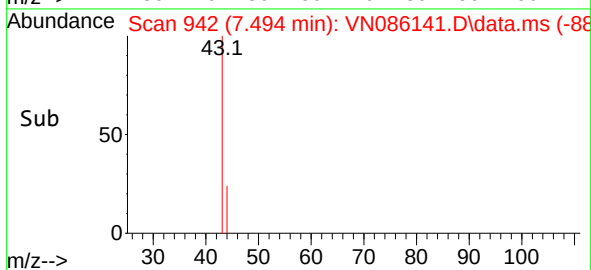
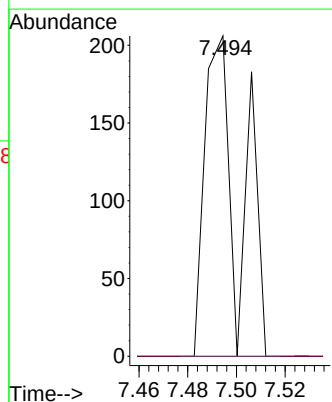
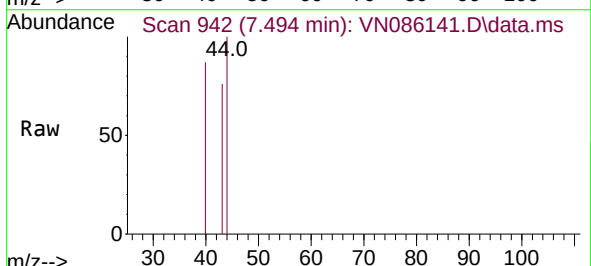
Acq: 28 Mar 2025 11:19

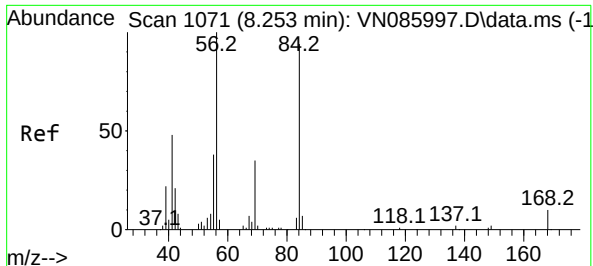
Tgt Ion: 43 Resp: 203

Ion Ratio Lower Upper

43 100

72 0.0 27.4 41.0#

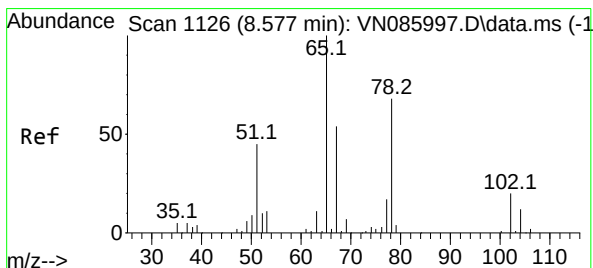
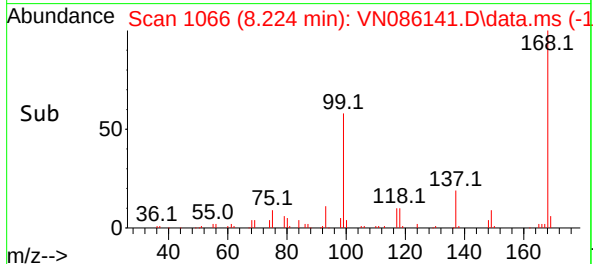
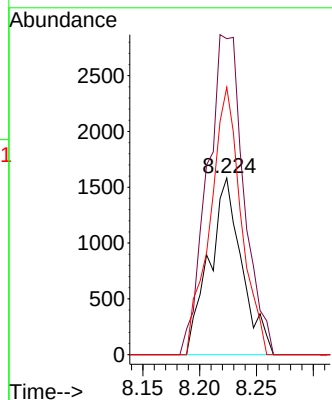
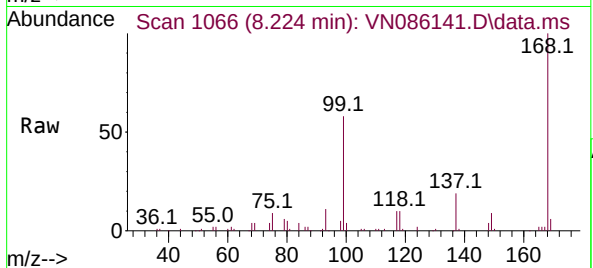




#31
Cyclohexane
Concen: 1.277 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

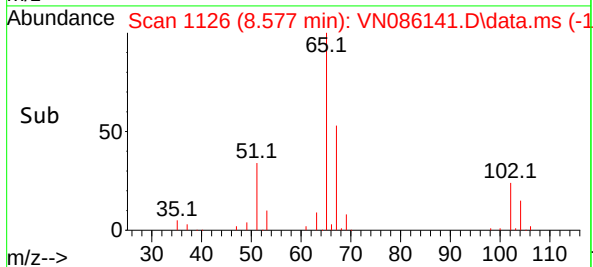
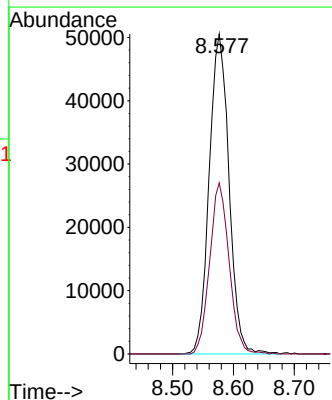
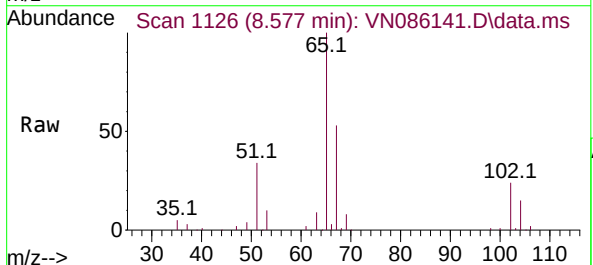
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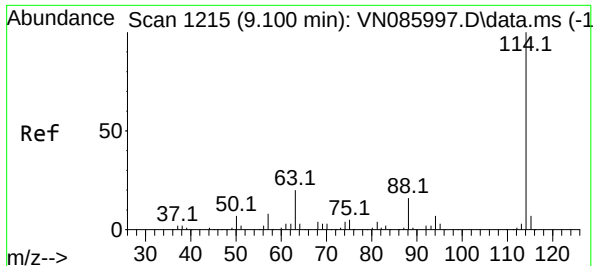
Tgt Ion: 56 Resp: 3156
Ion Ratio Lower Upper
56 100
69 179.0 28.0 42.0#
84 151.4 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 57.668 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

Tgt Ion: 65 Resp: 114352
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.2

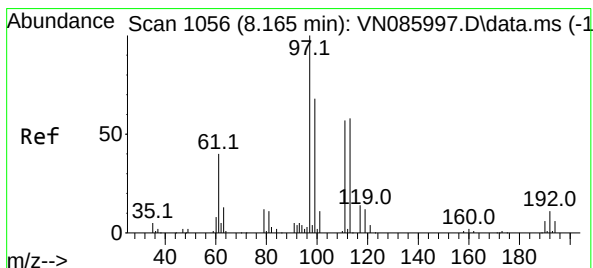
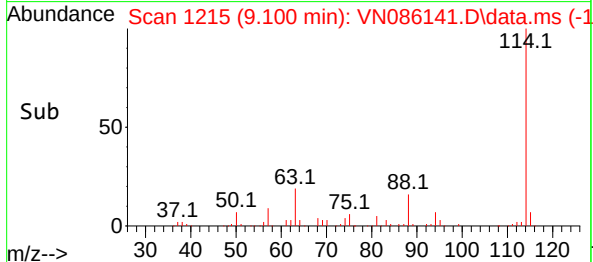
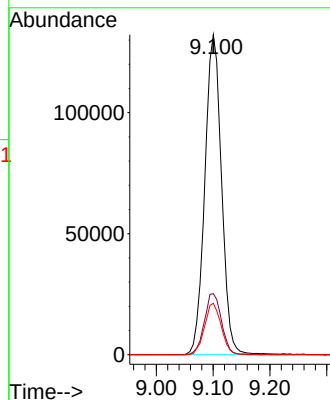
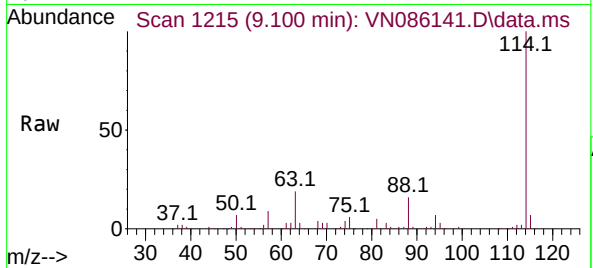




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

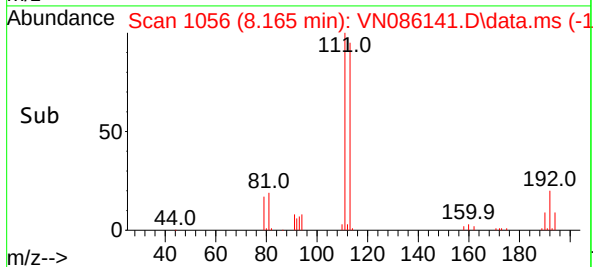
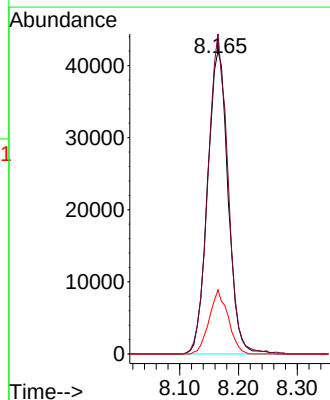
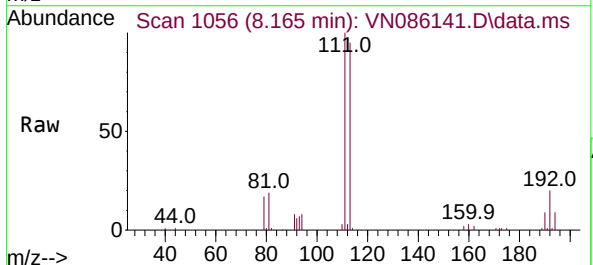
Instrument :
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VN0328MBL01

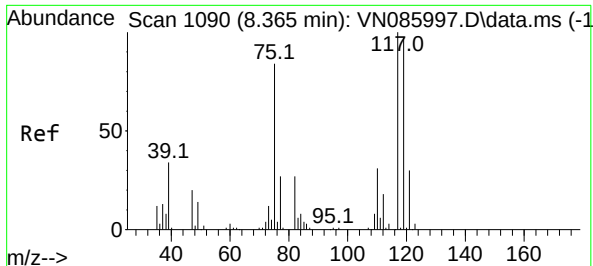
Tgt Ion:114 Resp: 270059
Ion Ratio Lower Upper
114 100
63 19.0 0.0 39.6
88 16.0 0.0 32.6



#35
Dibromofluoromethane
Concen: 54.171 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

Tgt Ion:113 Resp: 102112
Ion Ratio Lower Upper
113 100
111 102.9 81.8 122.8
192 19.5 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.858 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN0328MBL01

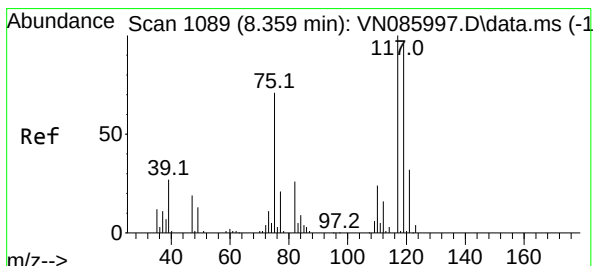
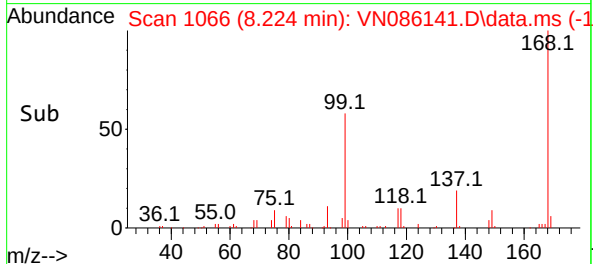
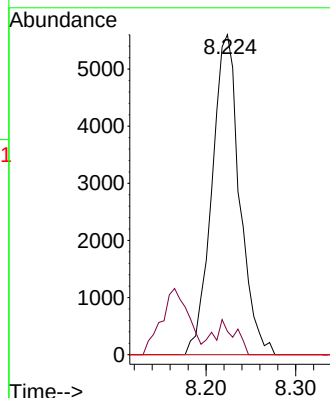
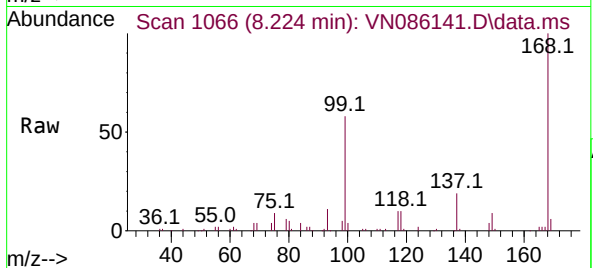
Tgt Ion: 75 Resp: 12058

Ion Ratio Lower Upper

75 100

110 7.8 17.8 53.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.654 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

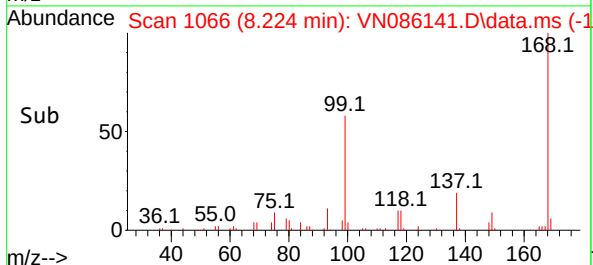
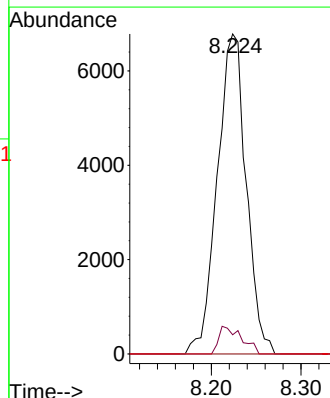
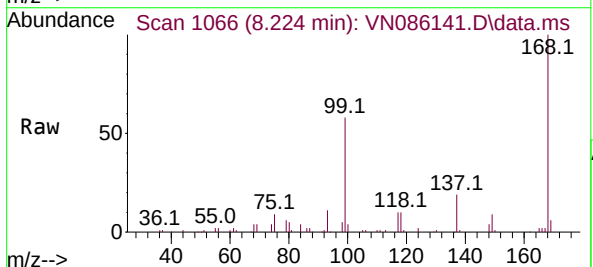
Tgt Ion: 117 Resp: 15188

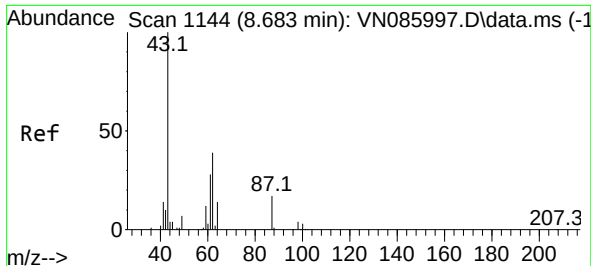
Ion Ratio Lower Upper

117 100

119 6.0 77.0 115.4#

121 0.0 25.6 38.4#

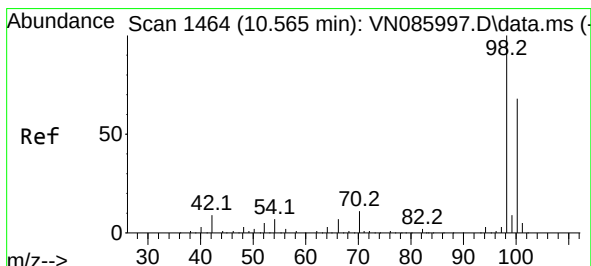
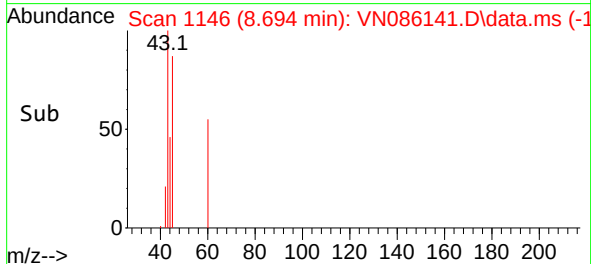
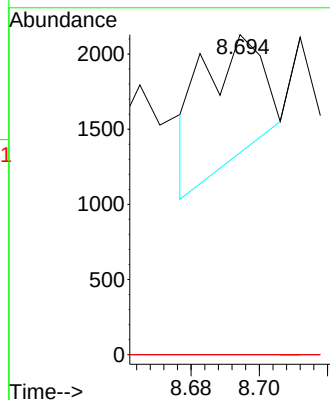
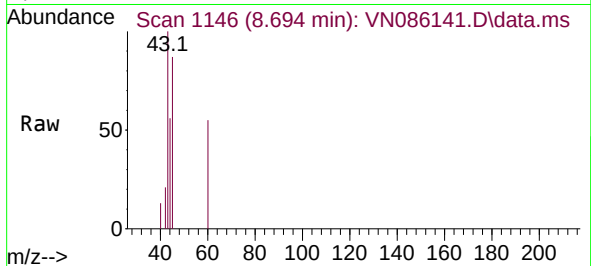




#43
Isopropyl Acetate
Concen: 0.228 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.012 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

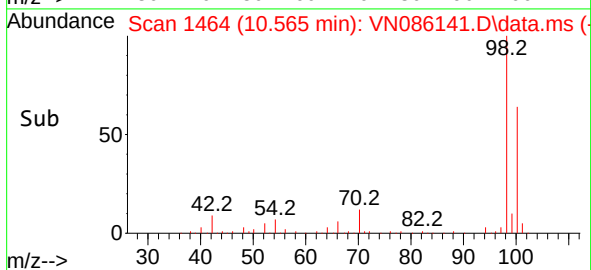
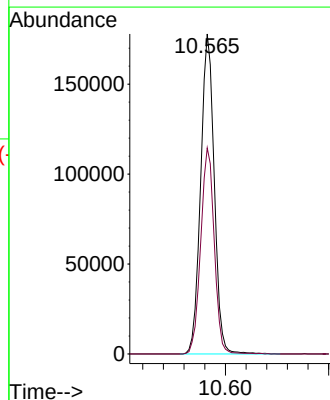
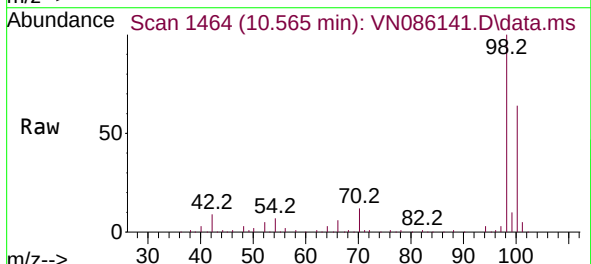
Instrument :
MSVOA_N
ClientSampleId :
VN0328MBL01

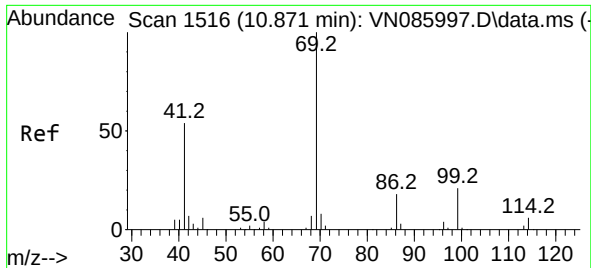
Tgt Ion: 43 Resp: 1036
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#



#50
Toluene-d8
Concen: 47.446 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

Tgt Ion: 98 Resp: 324586
Ion Ratio Lower Upper
98 100
100 64.0 53.1 79.7

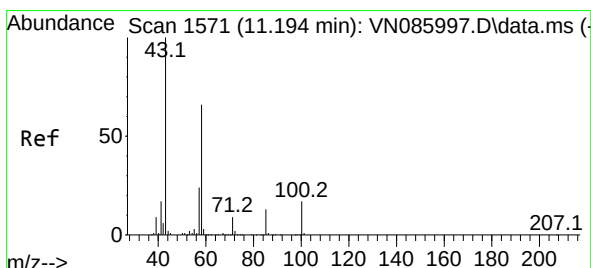
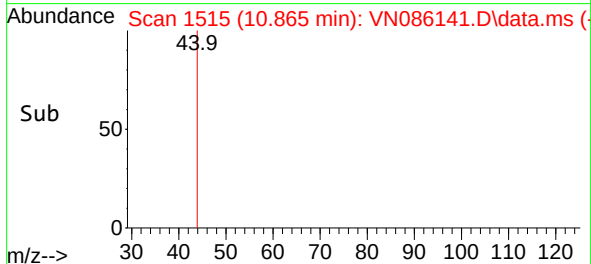
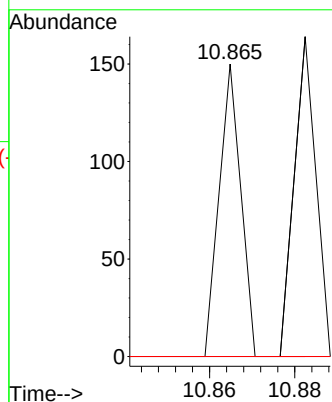
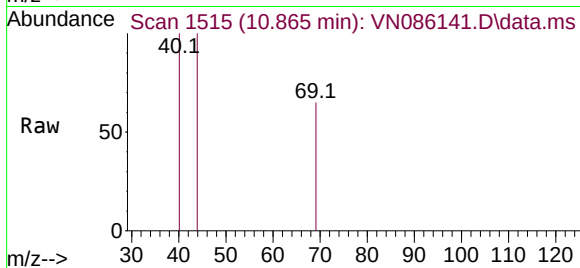




#56
Ethyl methacrylate
Concen: 0.210 ug/l
RT: 10.865 min Scan# 1515
Delta R.T. -0.006 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

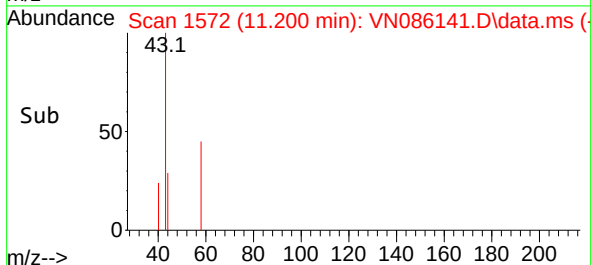
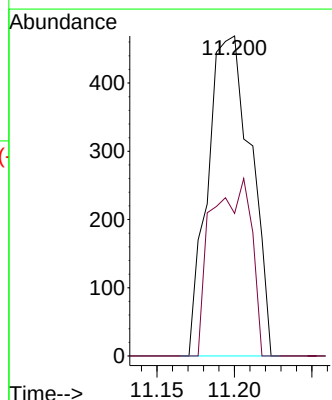
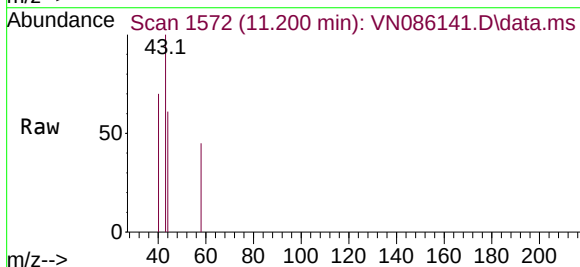
Instrument :
MSVOA_N
ClientSampleId :
VN0328MBL01

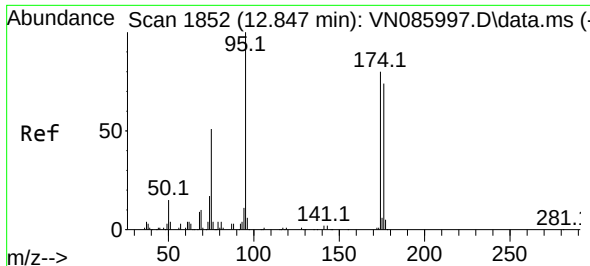
Tgt Ion: 69 Resp: 53
Ion Ratio Lower Upper
69 100
41 0.0 41.6 62.4#
39 0.0 21.8 32.8#



#59
2-Hexanone
Concen: 0.621 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

Tgt Ion: 43 Resp: 906
Ion Ratio Lower Upper
43 100
58 51.1 32.4 97.2

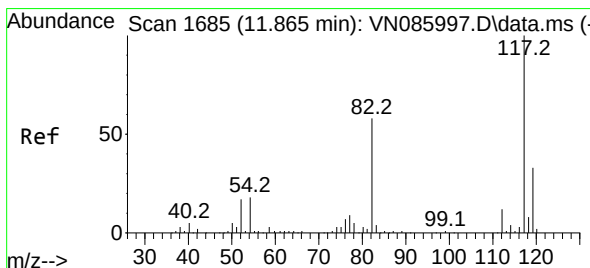
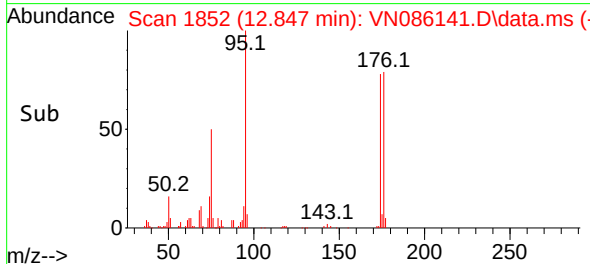
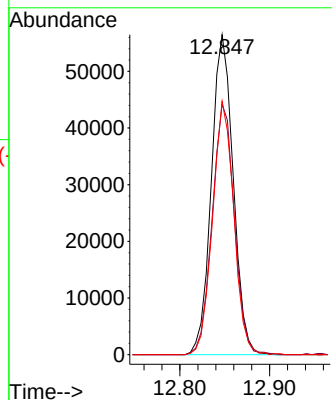
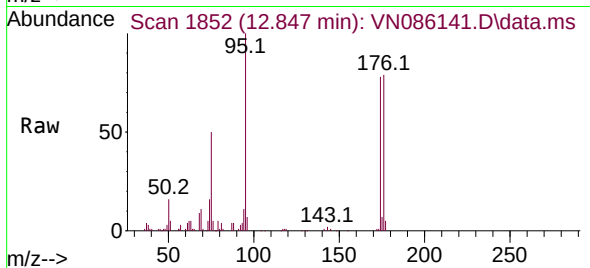




#62
4-Bromofluorobenzene
Concen: 39.121 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

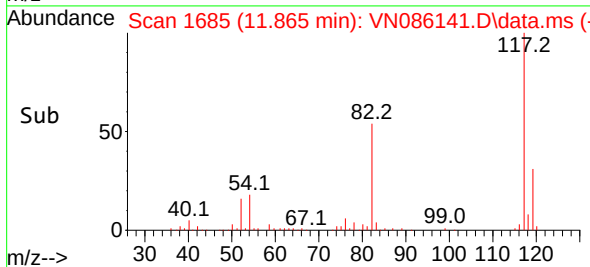
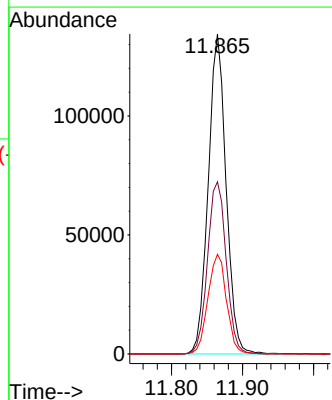
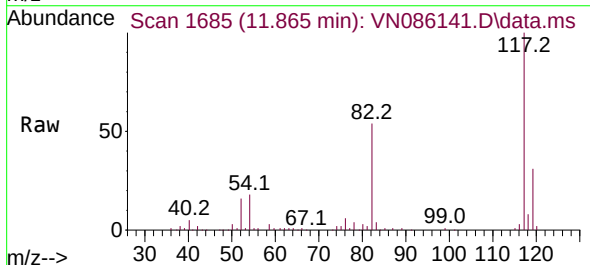
Instrument :
MSVOA_N
ClientSampleId :
VN0328MBL01

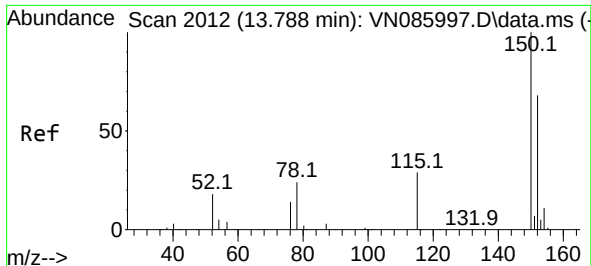
Tgt Ion: 95 Resp: 95447
Ion Ratio Lower Upper
95 100
174 79.5 0.0 156.8
176 77.1 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

Tgt Ion: 117 Resp: 234798
Ion Ratio Lower Upper
117 100
82 53.8 46.7 70.1
119 31.1 26.5 39.7

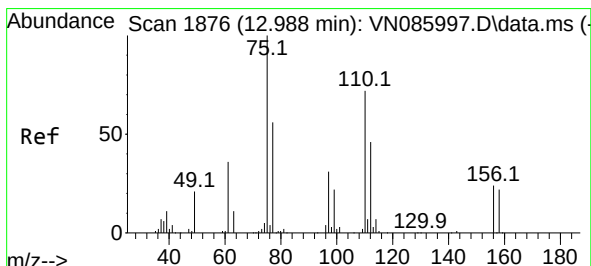
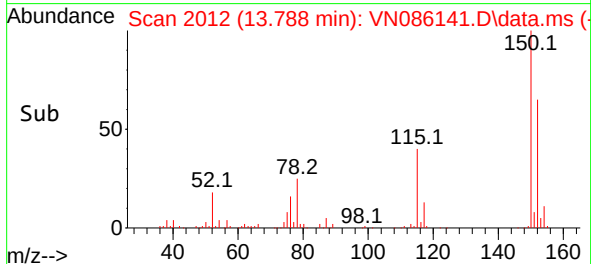
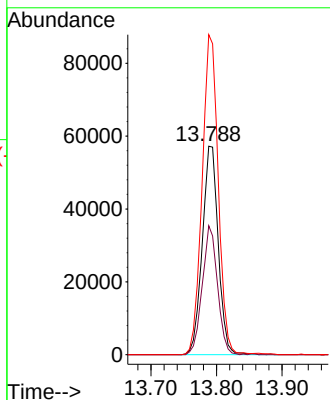
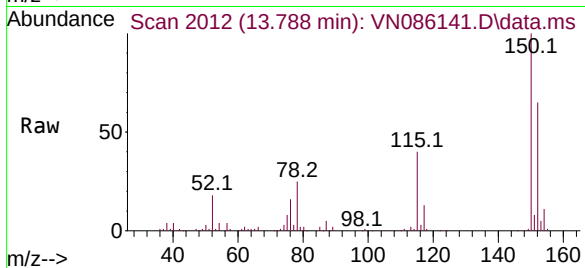




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086141.D
 Acq: 28 Mar 2025 11:19

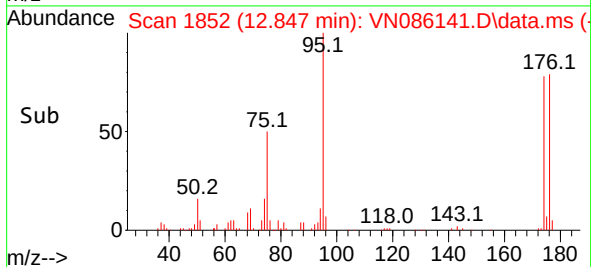
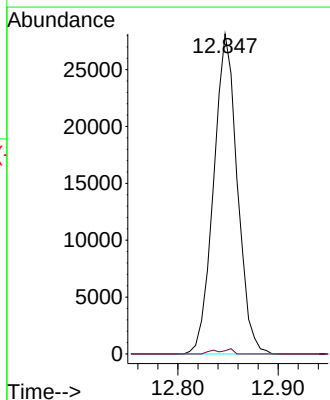
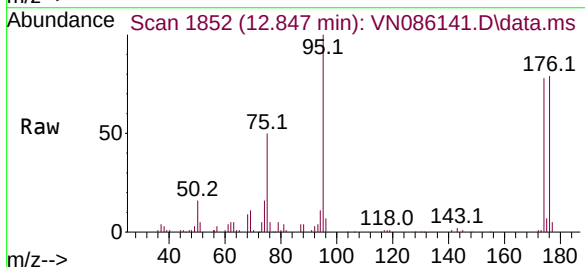
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328MBL01

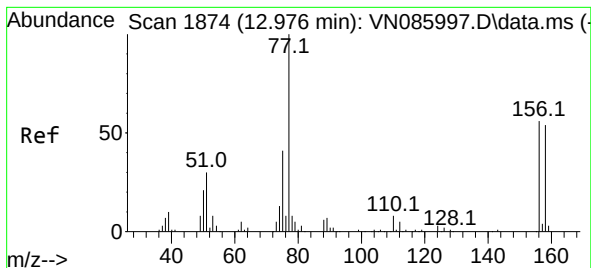
Tgt Ion:152 Resp: 97290
 Ion Ratio Lower Upper
 152 100
 115 58.7 31.1 93.2
 150 154.3 0.0 359.6



#76
 1,2,3-Trichloropropane
 Concen: 21.213 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086141.D
 Acq: 28 Mar 2025 11:19

Tgt Ion: 75 Resp: 46204
 Ion Ratio Lower Upper
 75 100
 77 1.1 83.7 251.0#





#77

Bromobenzene

Concen: 0.205 ug/l

RT: 12.982 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN0328MBL01

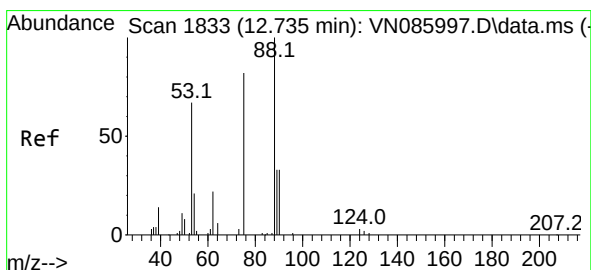
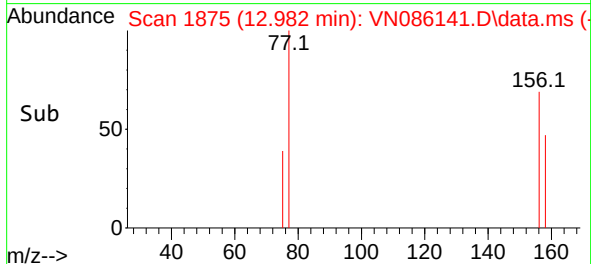
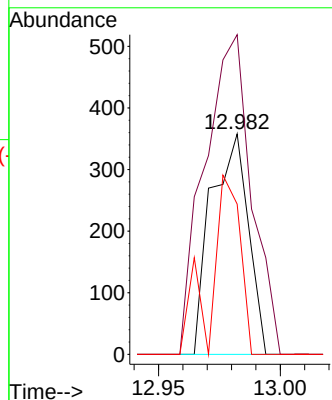
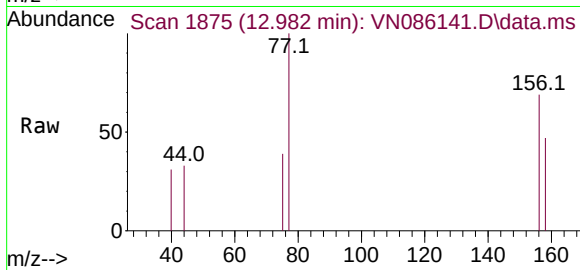
Tgt Ion:156 Resp: 379

Ion Ratio Lower Upper

156 100

77 183.4 104.1 312.3

158 64.4 49.0 147.0



#81

trans-1,4-Dichloro-2-butene

Concen: 56.083 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

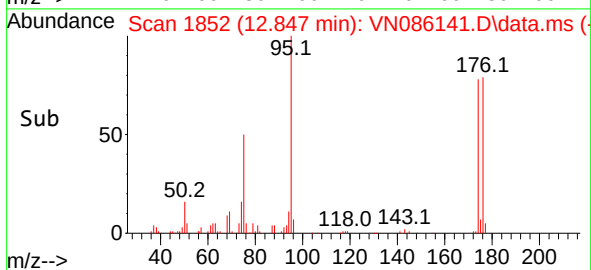
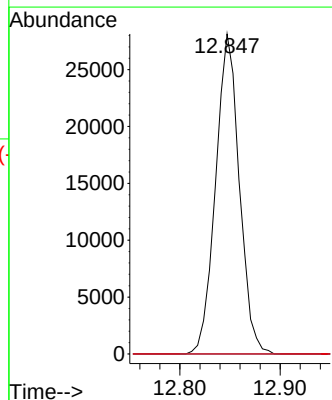
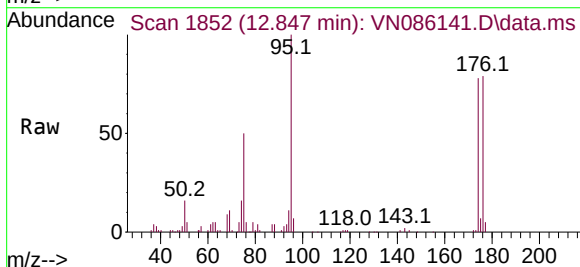
Tgt Ion: 75 Resp: 46204

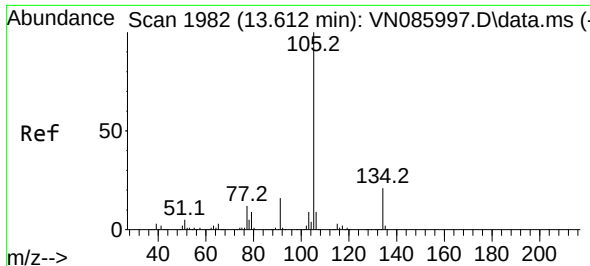
Ion Ratio Lower Upper

75 100

53 0.0 66.0 99.0#

89 0.0 36.9 55.3#

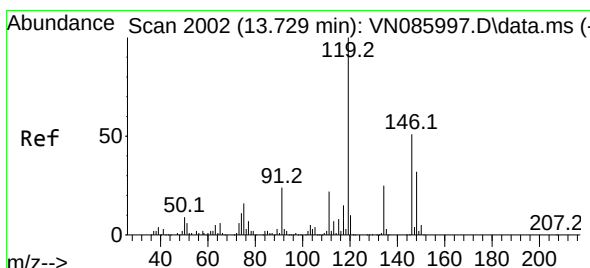
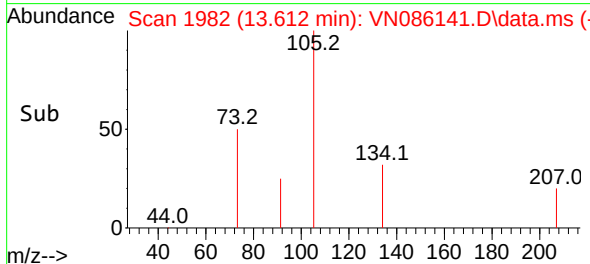
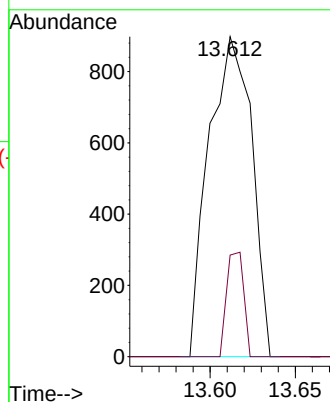
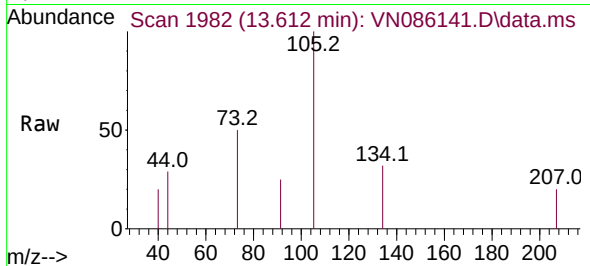




#85
 sec-Butylbenzene
 Concen: 0.252 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN086141.D
 Acq: 28 Mar 2025 11:19

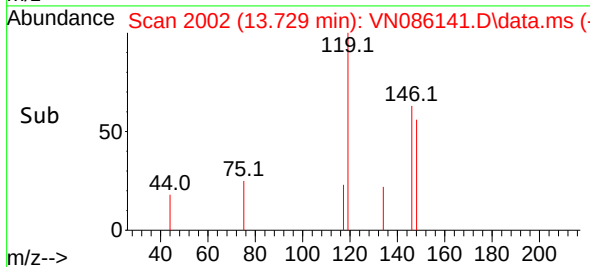
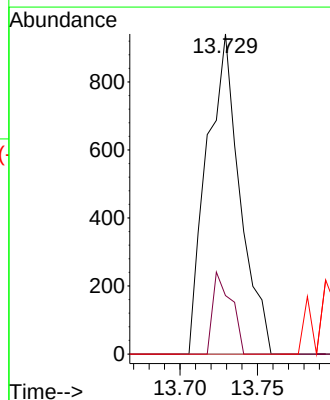
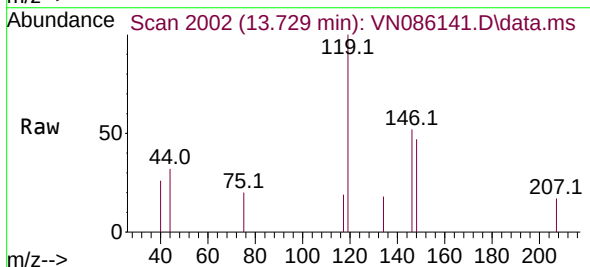
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328MBL01

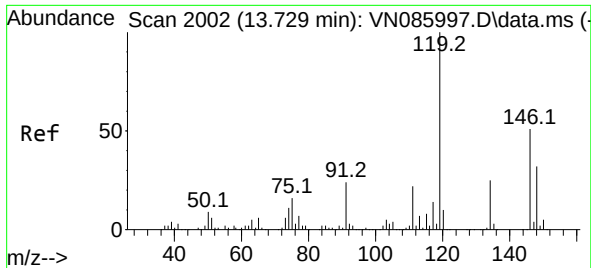
Tgt Ion:105 Resp: 1575
 Ion Ratio Lower Upper
 105 100
 134 13.0 10.1 30.1



#86
 p-Isopropyltoluene
 Concen: 0.264 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN086141.D
 Acq: 28 Mar 2025 11:19

Tgt Ion:119 Resp: 1399
 Ion Ratio Lower Upper
 119 100
 134 14.2 12.6 37.8
 91 0.0 12.3 36.8#

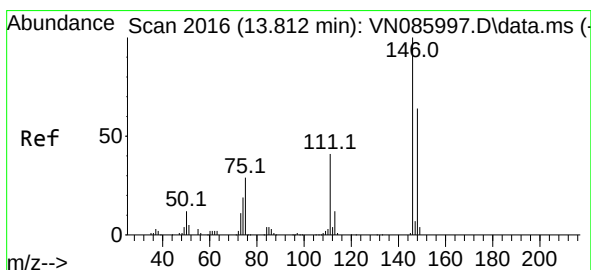
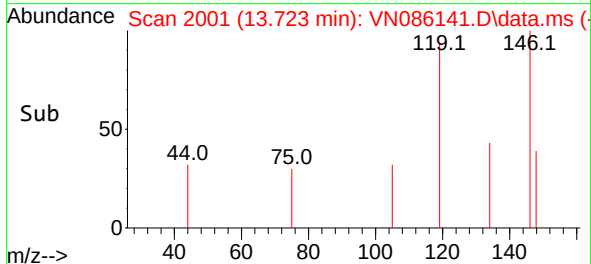
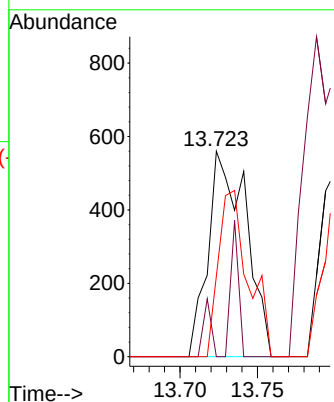
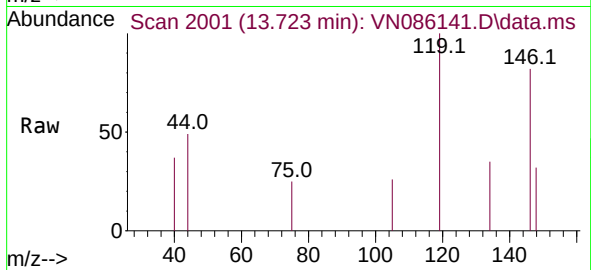




#87
 1,3-Dichlorobenzene
 Concen: 0.287 ug/l
 RT: 13.723 min Scan# 2002
 Delta R.T. -0.006 min
 Lab File: VN086141.D
 Acq: 28 Mar 2025 11:19

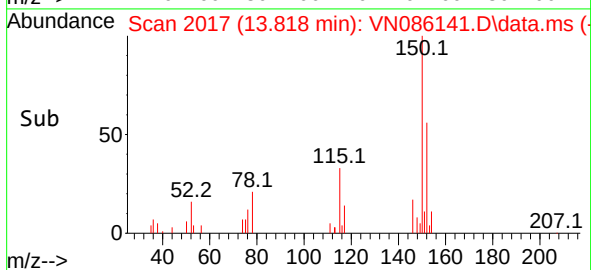
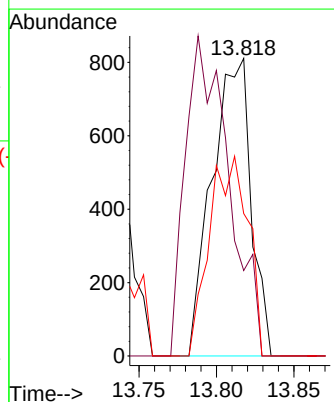
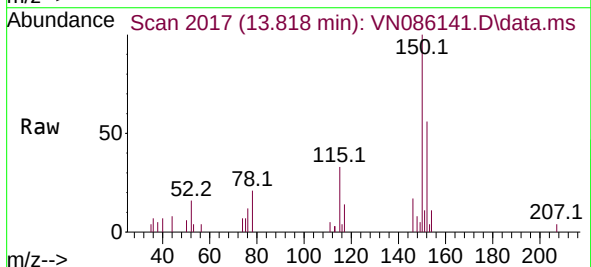
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328MBL01

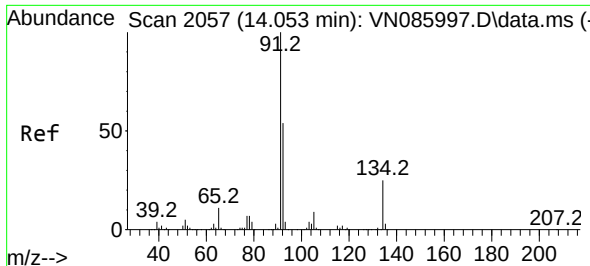
Tgt Ion:146 Resp: 957
 Ion Ratio Lower Upper
 146 100
 111 5.9 21.2 63.6#
 148 0.0 31.8 95.4#



#88
 1,4-Dichlorobenzene
 Concen: 0.405 ug/l
 RT: 13.818 min Scan# 2017
 Delta R.T. 0.006 min
 Lab File: VN086141.D
 Acq: 28 Mar 2025 11:19

Tgt Ion:146 Resp: 1421
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.4 61.3#
 148 66.2 32.1 96.5

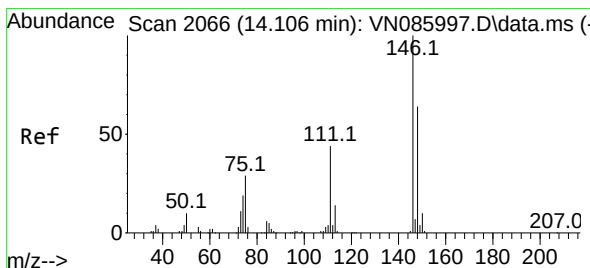
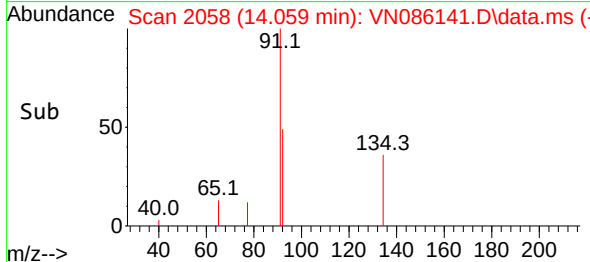
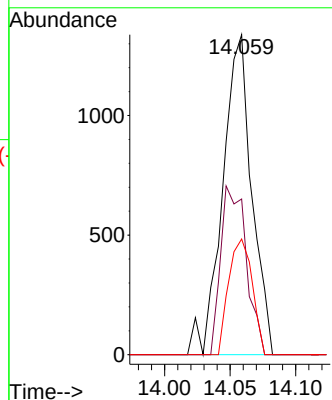
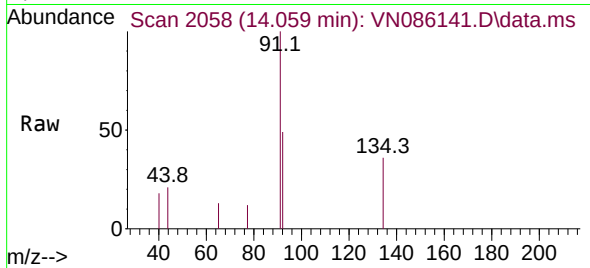




#89
n-Butylbenzene
Concen: 0.479 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

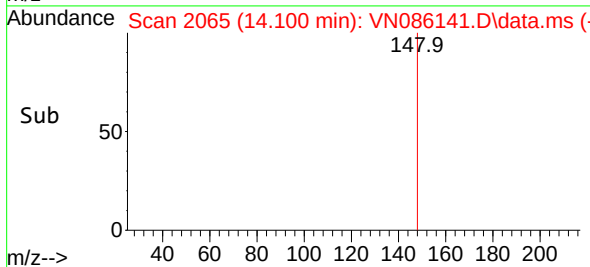
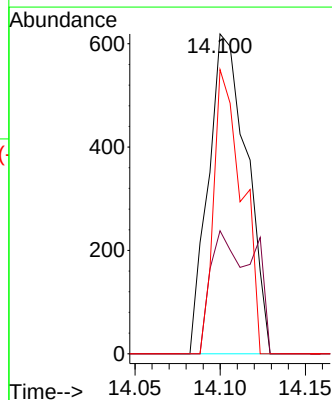
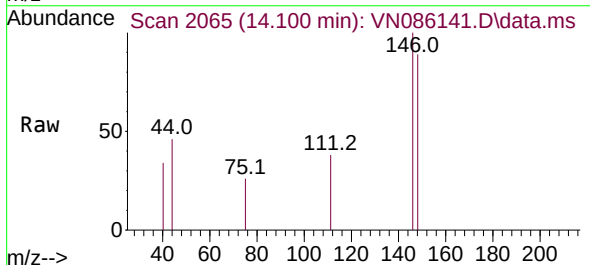
Instrument :
MSVOA_N
ClientSampleId :
VN0328MBL01

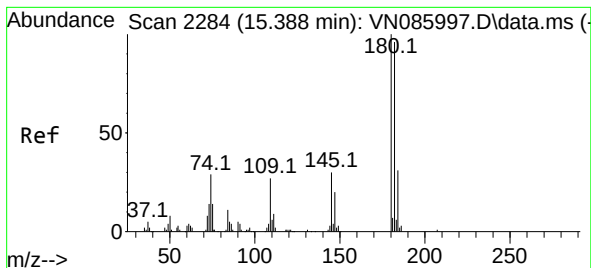
Tgt Ion: 91	Resp:	2068
Ion Ratio	Lower	Upper
91	100	
92	46.0	26.9 80.6
134	29.3	13.0 39.0



#91
1,2-Dichlorobenzene
Concen: 0.291 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VN086141.D
Acq: 28 Mar 2025 11:19

Tgt Ion: 146	Resp:	967
Ion Ratio	Lower	Upper
146	100	
111	42.6	22.3 66.8
148	66.1	32.1 96.5





#93

1,2,4-Trichlorobenzene

Concen: 0.845 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN0328MBL01

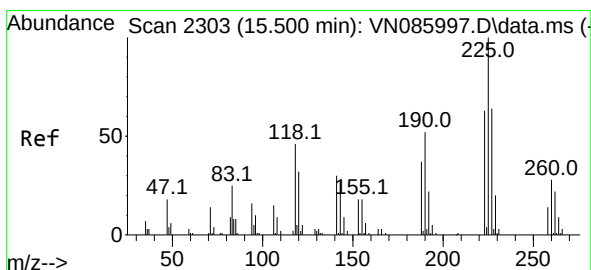
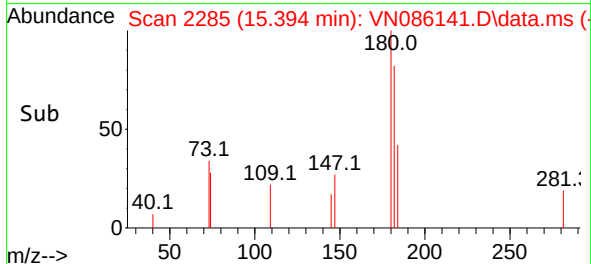
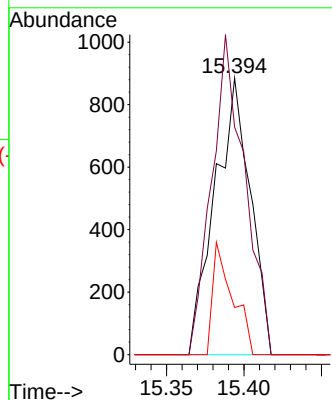
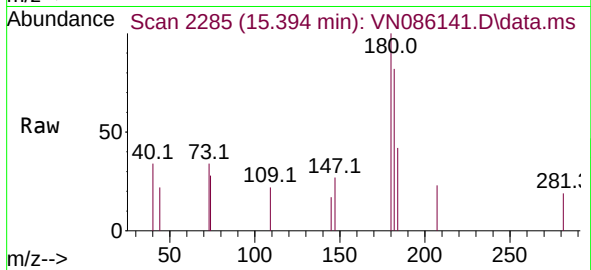
Tgt Ion:180 Resp: 1410

Ion Ratio Lower Upper

180 100

182 107.7 47.0 141.0

145 22.8 15.5 46.5



#94

Hexachlorobutadiene

Concen: 1.353 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

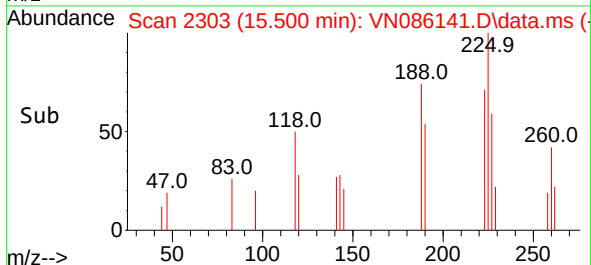
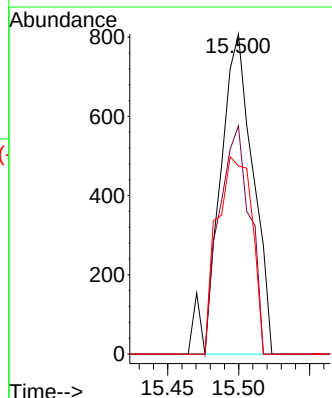
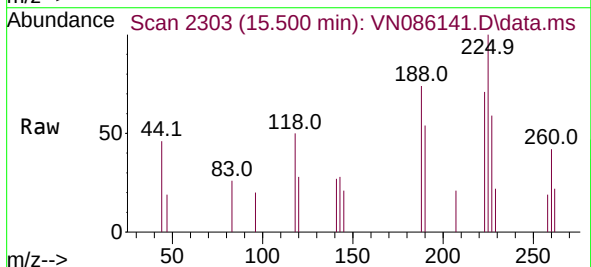
Tgt Ion:225 Resp: 1310

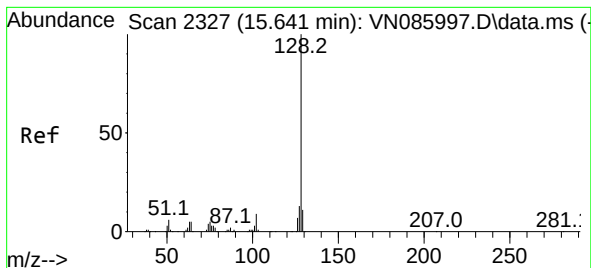
Ion Ratio Lower Upper

225 100

223 66.0 31.3 93.9

227 64.9 32.1 96.3





#95

Naphthalene

Concen: 1.425 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN0328MBL01

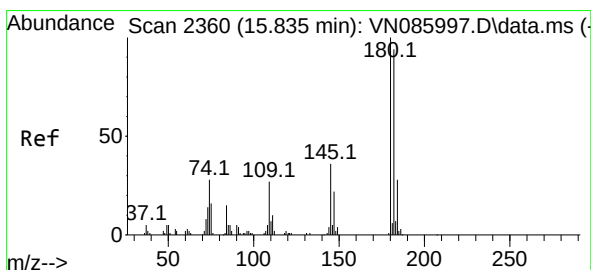
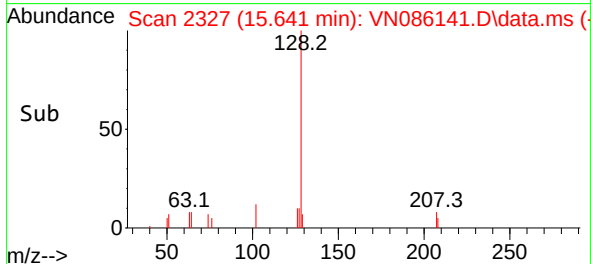
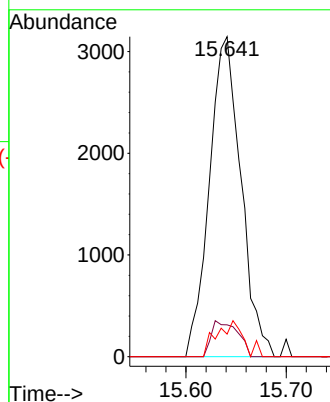
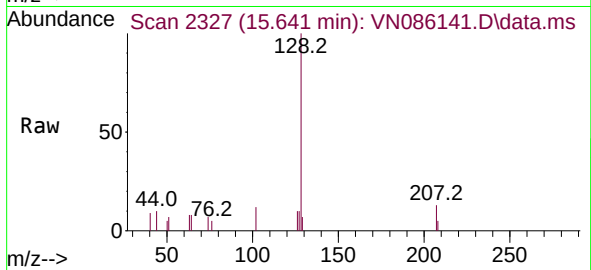
Tgt Ion:128 Resp: 6886

Ion Ratio Lower Upper

128 100

127 9.3 10.2 15.4#

129 9.5 9.0 13.6



#96

1,2,3-Trichlorobenzene

Concen: 1.198 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. 0.012 min

Lab File: VN086141.D

Acq: 28 Mar 2025 11:19

Tgt Ion:180 Resp: 1898

Ion Ratio Lower Upper

180 100

182 97.1 47.5 142.5

145 30.1 17.7 53.1

