

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083529.D
 Acq On : 28 Aug 2024 10:31
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 28 15:34:34 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)

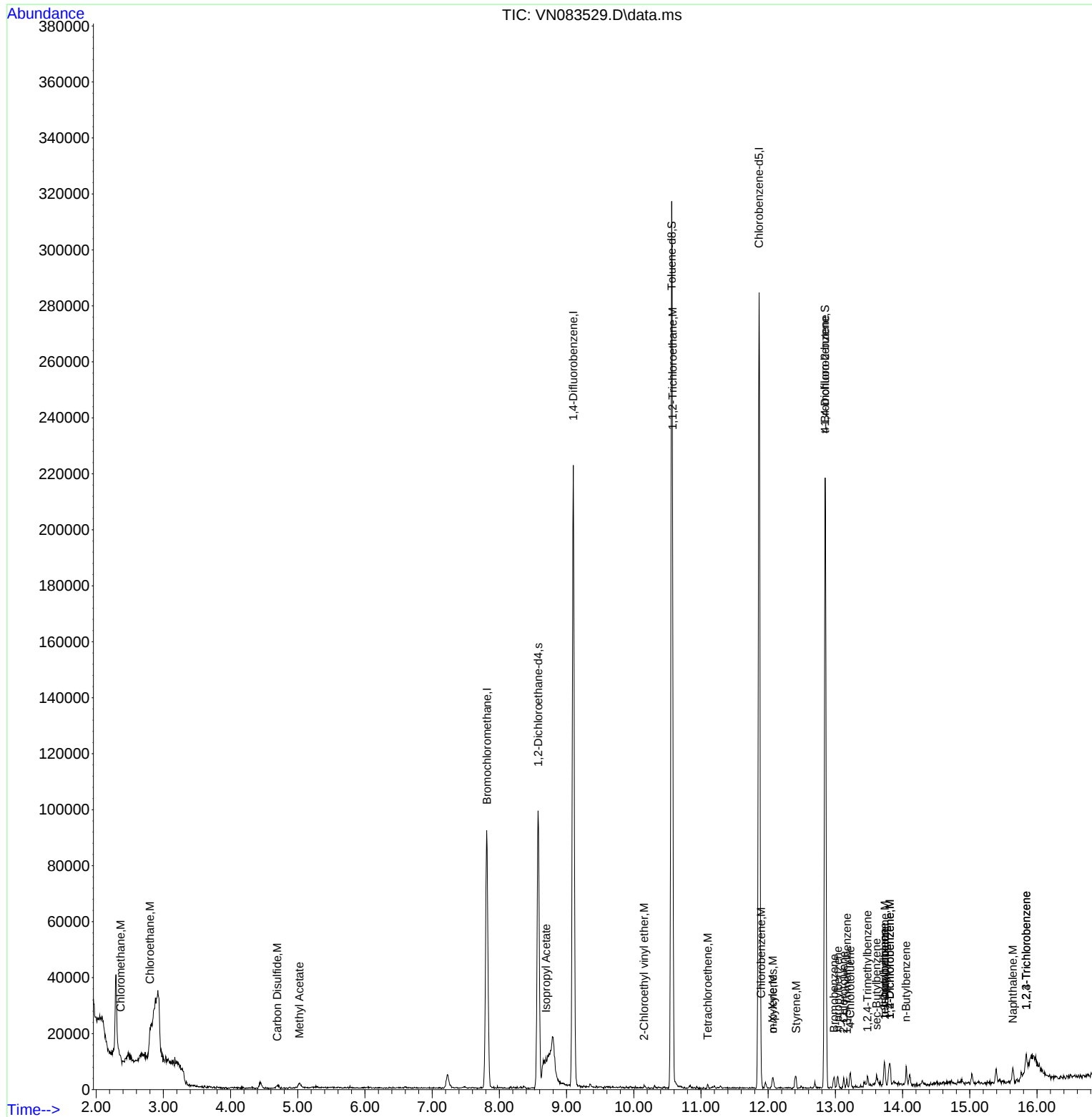
Internal Standards						
1) Bromochloromethane	7.818	128	31745	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	181701	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	154393	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	86438	30.294	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.967%			
60) 4-Bromofluorobenzene	12.847	95	77392	28.314	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.367%			
63) Toluene-d8	10.565	98	217698	30.542	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.800%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	573	0.261	ug/l #	43
6) Chloroethane	2.801	64	364	0.241	ug/l	93
12) Methyl Acetate	5.024	43	2825	0.827	ug/l #	86
16) Carbon Disulfide	4.695	76	2668	0.498	ug/l #	78
44) Isopropyl Acetate	8.694	43	2279	0.343	ug/l #	43
50) 1,1,2-Trichloroethane	10.577	97	6900	3.410	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.153	63	333	0.222	ug/l #	43
61) Tetrachloroethene	11.100	164	393	0.240	ug/l #	48
64) Chlorobenzene	11.894	112	1645	0.297	ug/l #	41
67) m/p-Xylenes	12.071	106	1451	0.389	ug/l	84
68) o-Xylene	12.071	106	1451	0.396	ug/l	92
69) Styrene	12.418	104	2027	0.325	ug/l	91
73) Bromobenzene	12.982	156	770	0.351	ug/l	88
74) n-propylbenzene	13.035	91	3340	0.298	ug/l	91
75) 2-Chlorotoluene	13.123	91	2165	0.301	ug/l	97
76) 1,3,5-Trimethylbenzene	13.171	105	1714	0.212	ug/l	100
77) t-1,4-Dichloro-2-butene	12.847	75	41640	39.277	ug/l #	12
78) 4-Chlorotoluene	13.223	91	3885	0.545	ug/l	98
79) tert-butylbenzene	13.729	119	2044	0.282	ug/l	65
80) 1,2,4-Trimethylbenzene	13.476	105	1987	0.241	ug/l	94
81) sec-Butylbenzene	13.612	105	2234	0.229	ug/l	86
82) p-Isopropyltoluene	13.729	119	2044	0.248	ug/l	88
83) 1,3-Dichlorobenzene	13.735	146	2466	0.576	ug/l	95
84) 1,4-Dichlorobenzene	13.812	146	3044	0.708	ug/l	89
85) n-Butylbenzene	14.053	91	3182	0.435	ug/l	100
87) 1,2-Dichlorobenzene	13.812	146	3044	0.722	ug/l	87
89) 1,2,4-Trichlorobenzene	15.841	180	1755	0.759	ug/l #	82
91) Naphthalene	15.641	128	5306	0.664	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.841	180	1755	0.759	ug/l	82

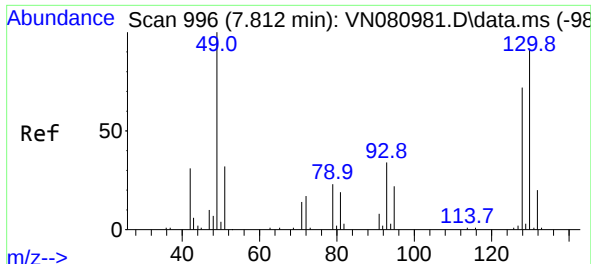
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
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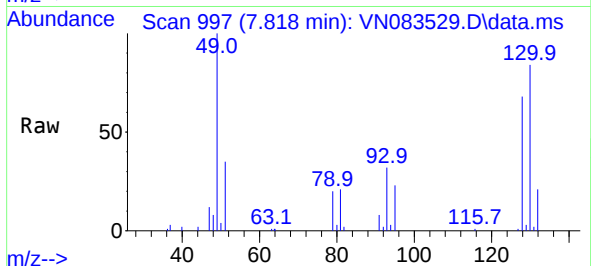
Quant Time: Aug 28 15:34:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 28 12:23:16 2024
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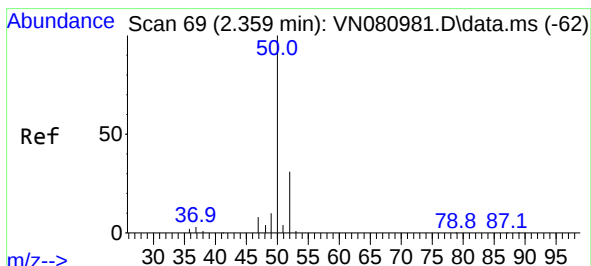
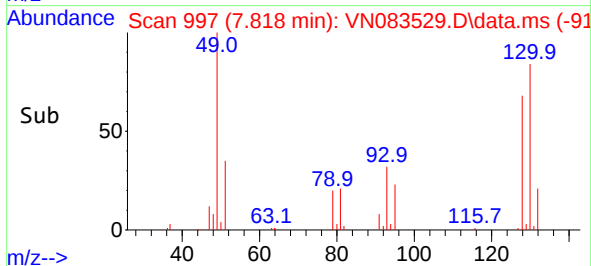
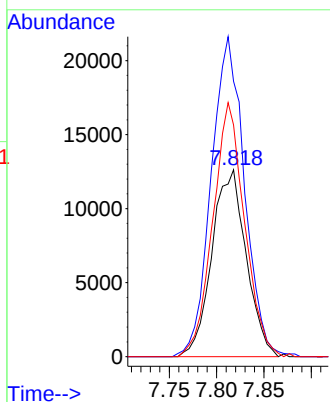


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :

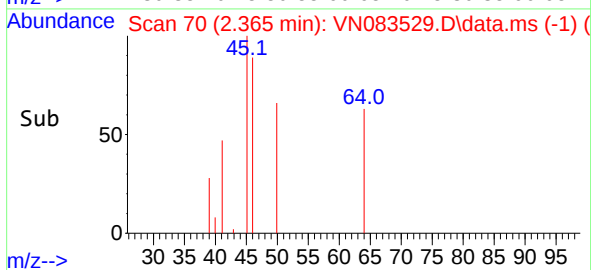
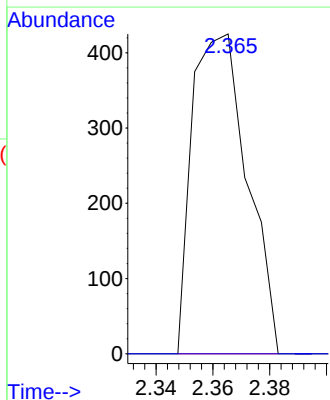
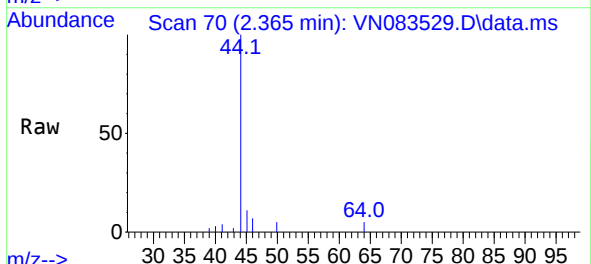


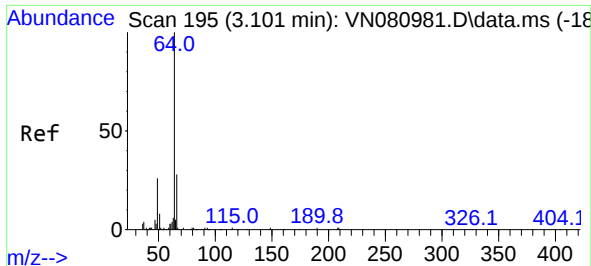
Tgt Ion:128 Resp: 31745
Ion Ratio Lower Upper
128 100
49 166.1 0.0 403.7
130 126.2 0.0 323.3



#3
Chloromethane
Concen: 0.261 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Tgt Ion: 50 Resp: 573
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.0#

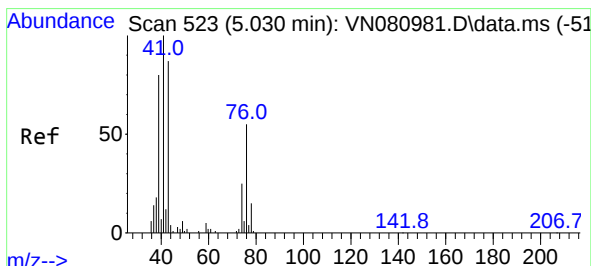
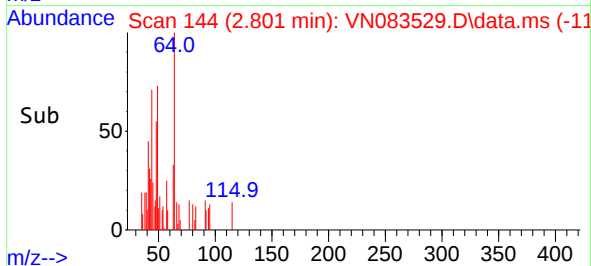
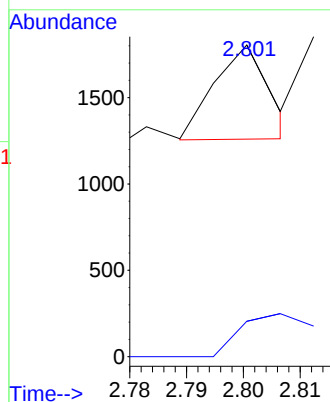
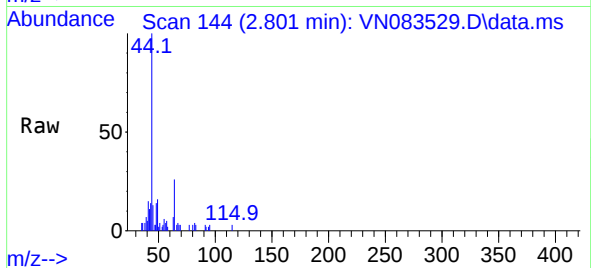




#6
Chloroethane
Concen: 0.241 ug/l
RT: 2.801 min Scan# 14
Delta R.T. -0.300 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

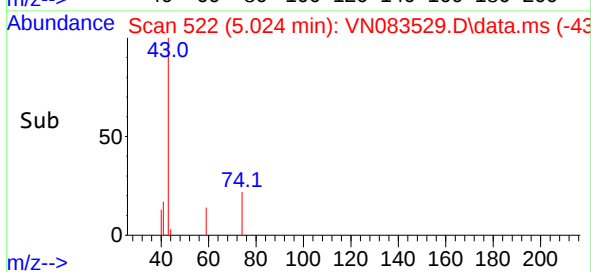
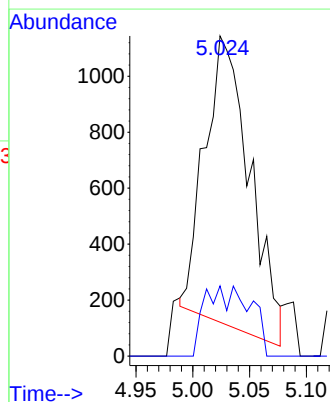
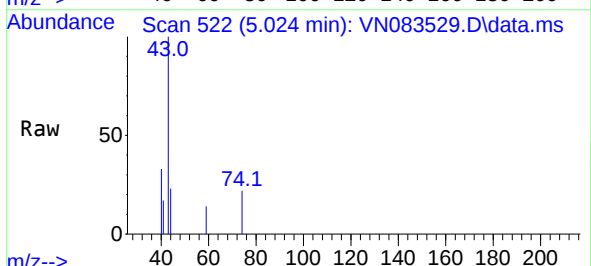
Instrument :
MSVOA_N
ClientSampleId :

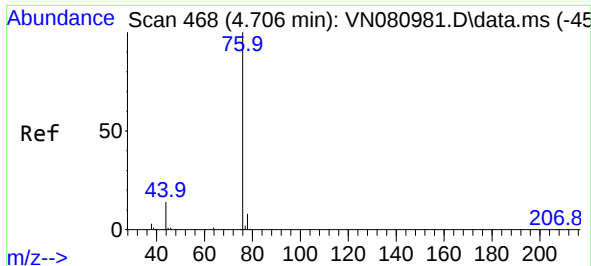
Tgt Ion: 64 Resp: 364
Ion Ratio Lower Upper
64 100
66 37.6 26.7 40.1



#12
Methyl Acetate
Concen: 0.827 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Tgt Ion: 43 Resp: 2825
Ion Ratio Lower Upper
43 100
74 26.4 27.7 41.5#

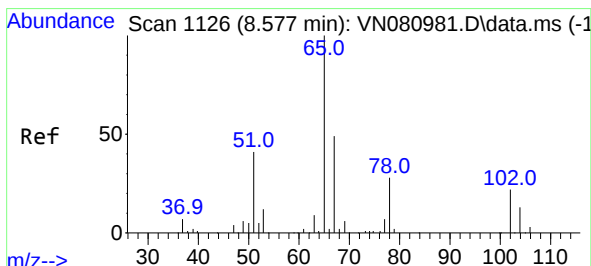
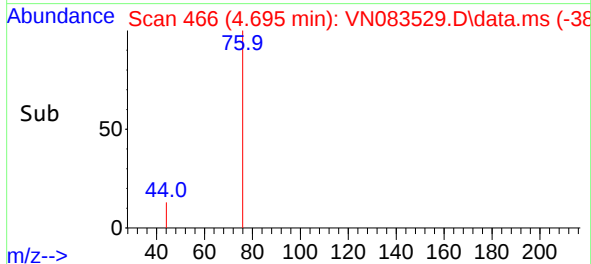
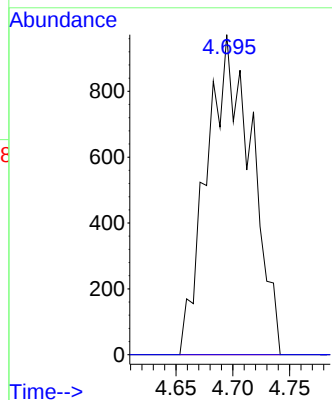
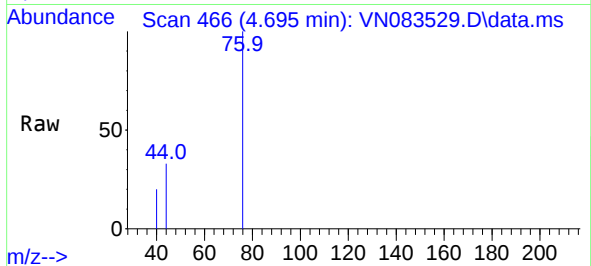




#16
Carbon Disulfide
Concen: 0.498 ug/l
RT: 4.695 min Scan# 466
Delta R.T. -0.012 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

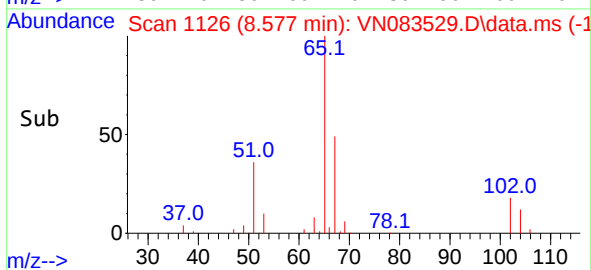
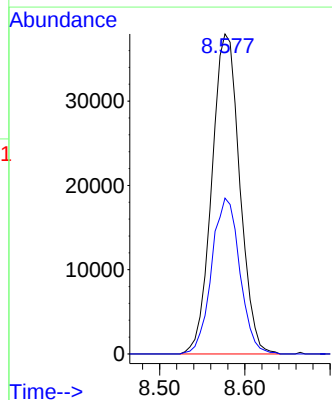
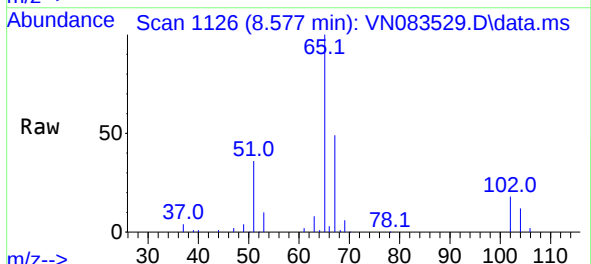
Instrument :
MSVOA_N
ClientSampleId :

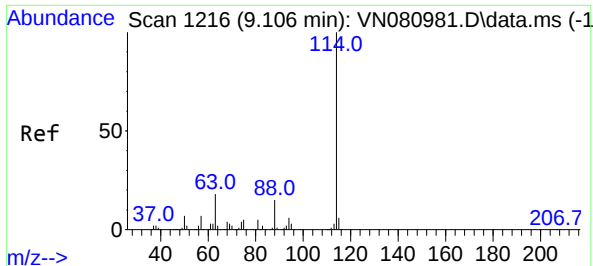
Tgt Ion: 76 Resp: 2668
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#



#27
1,2-Dichloroethane-d4
Concen: 30.294 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

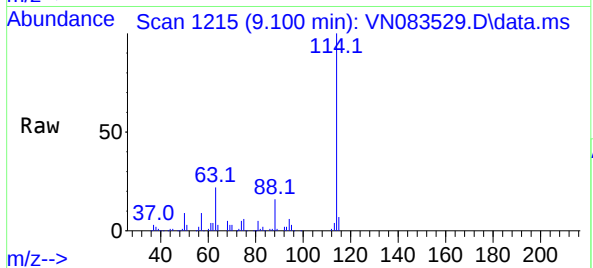
Tgt Ion: 65 Resp: 86438
Ion Ratio Lower Upper
65 100
67 49.0 43.2 64.8



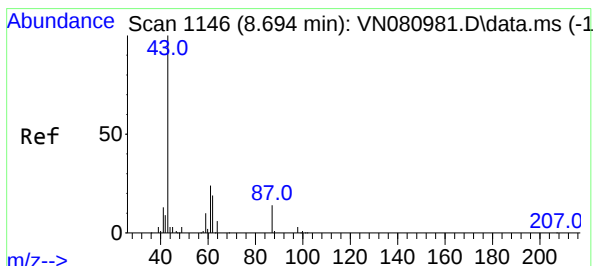
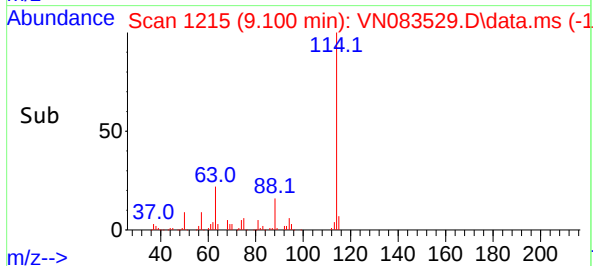
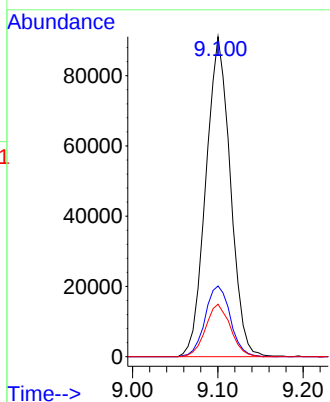


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :

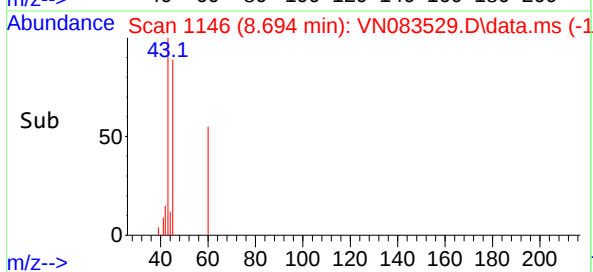
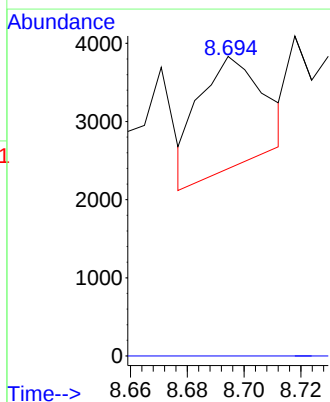
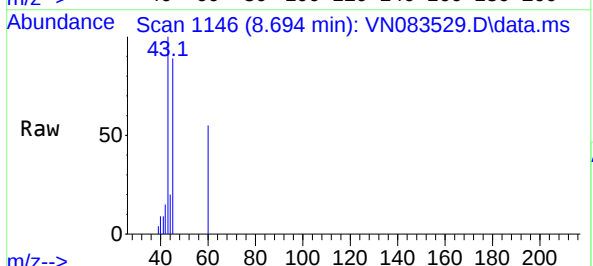


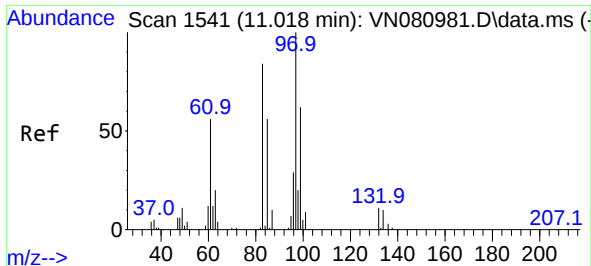
Tgt Ion:114 Resp: 181701
Ion Ratio Lower Upper
114 100
63 22.7 15.9 23.9
88 16.6 12.7 19.1



#44
Isopropyl Acetate
Concen: 0.343 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Tgt Ion: 43 Resp: 2279
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.4#





#50

1,1,2-Trichloroethane

Concen: 3.410 ug/l

RT: 10.577 min Scan# 1466

Delta R.T. -0.441 min

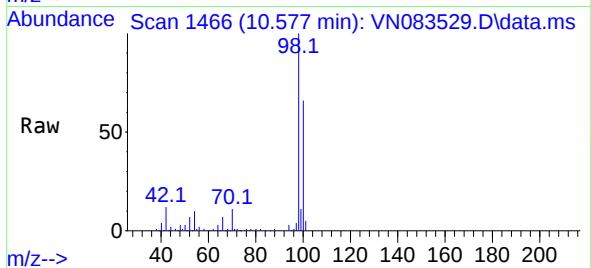
Lab File: VN083529.D

Acq: 28 Aug 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 6900

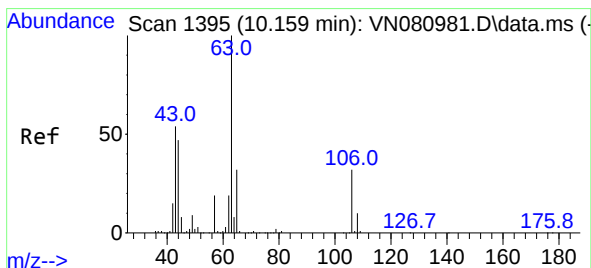
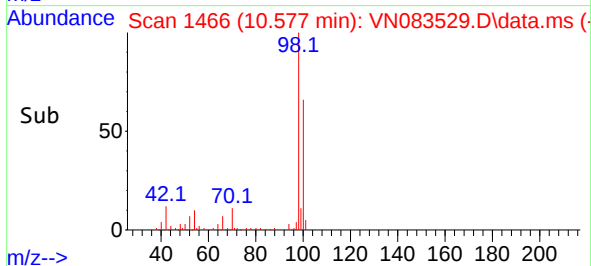
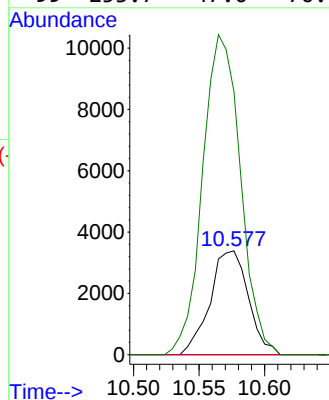
Ion Ratio Lower Upper

97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

99 253.7 47.0 70.4#



#55

2-Chloroethyl vinyl ether

Concen: 0.222 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN083529.D

Acq: 28 Aug 2024 10:31

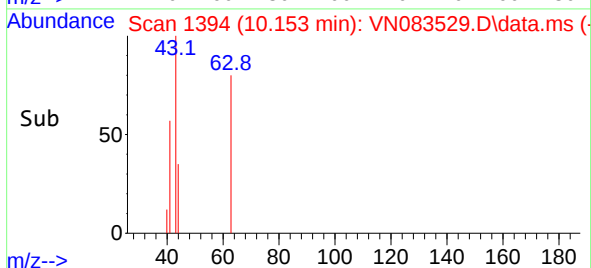
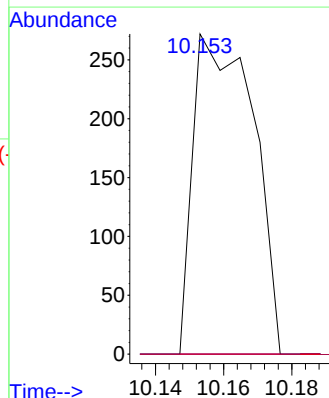
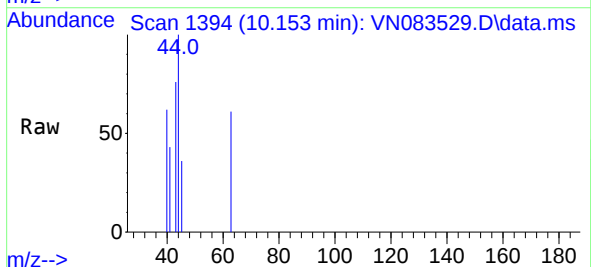
Tgt Ion: 63 Resp: 333

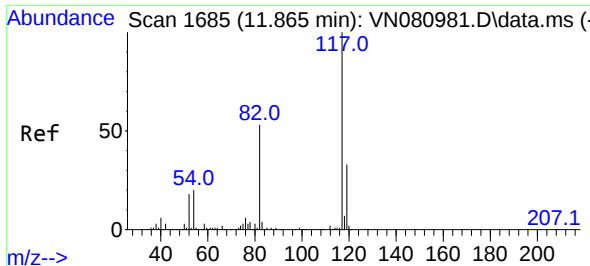
Ion Ratio Lower Upper

63 100

65 0.0 26.2 39.2#

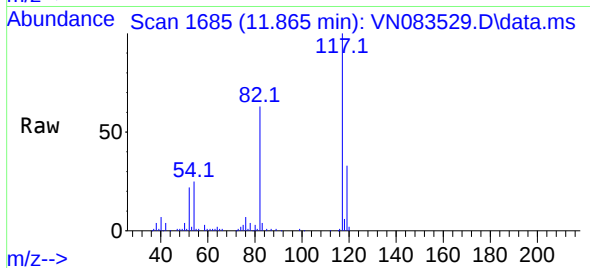
106 0.0 23.8 35.8#



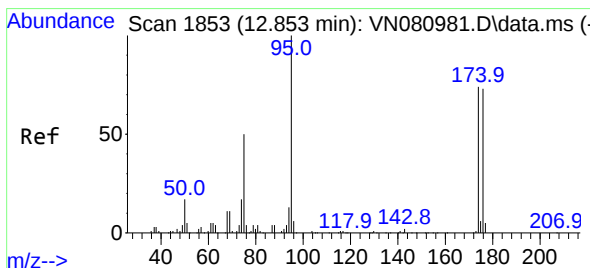
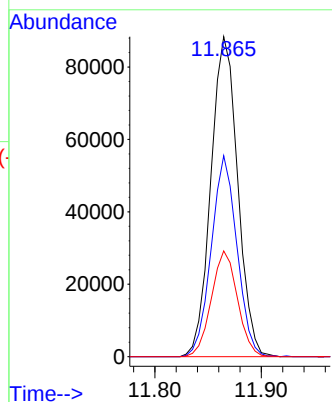
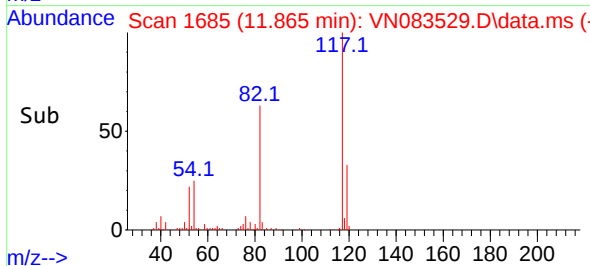


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :

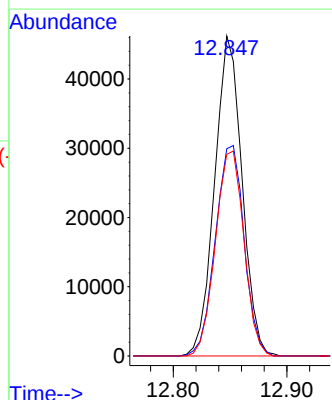
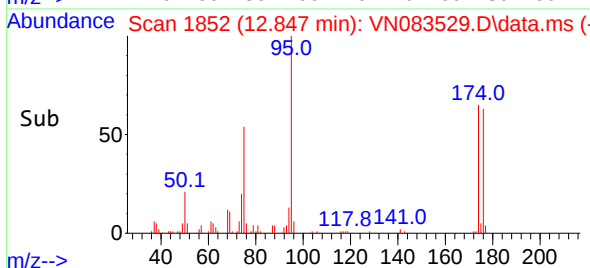
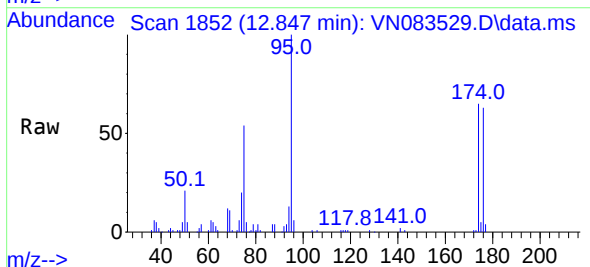


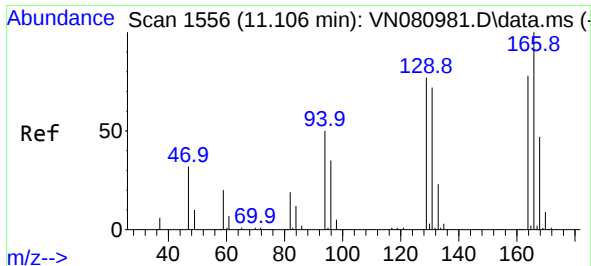
Tgt Ion:117 Resp: 154393
Ion Ratio Lower Upper
117 100
82 60.1 46.6 69.8
119 32.2 25.4 38.2



#60
4-Bromofluorobenzene
Concen: 28.314 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

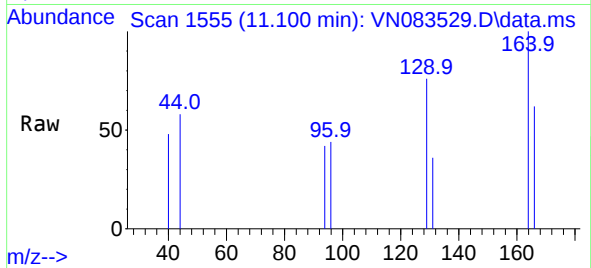
Tgt Ion: 95 Resp: 77392
Ion Ratio Lower Upper
95 100
174 69.2 60.5 90.7
176 66.6 57.8 86.6



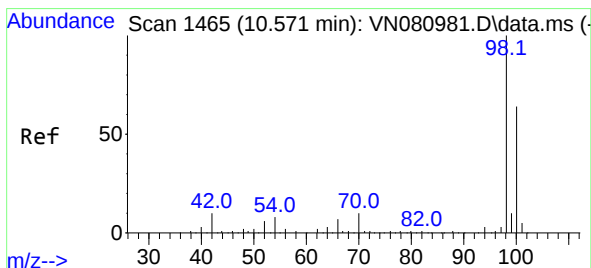
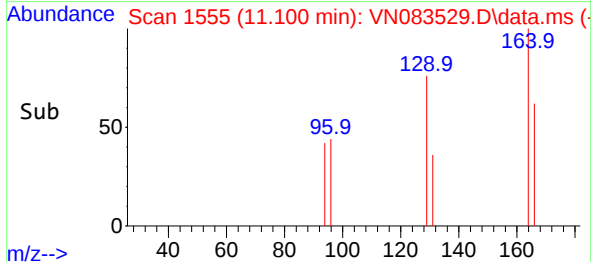
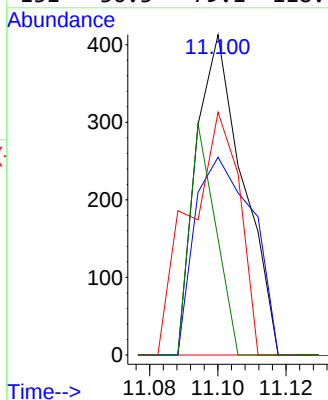


#61
Tetrachloroethene
Concen: 0.240 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :

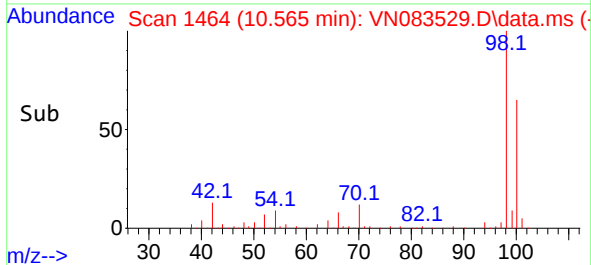
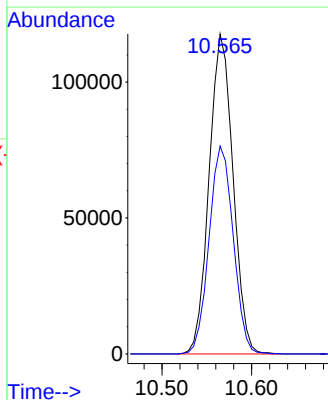
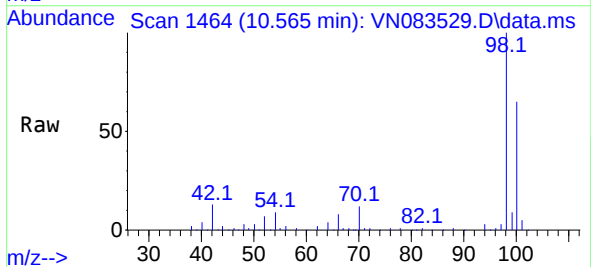


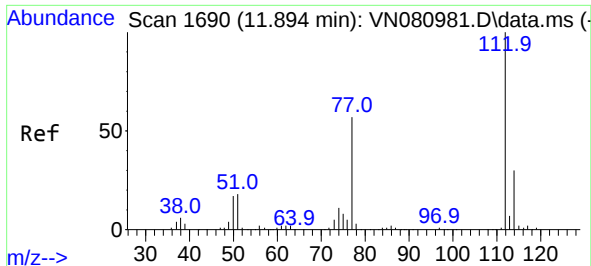
Tgt Ion:164 Resp: 393
Ion Ratio Lower Upper
164 100
166 61.7 106.7 160.1#
129 75.8 85.8 128.6#
131 36.3 79.1 118.7#



#63
Toluene-d8
Concen: 30.542 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Tgt Ion: 98 Resp: 217698
Ion Ratio Lower Upper
98 100
100 65.7 52.7 79.1

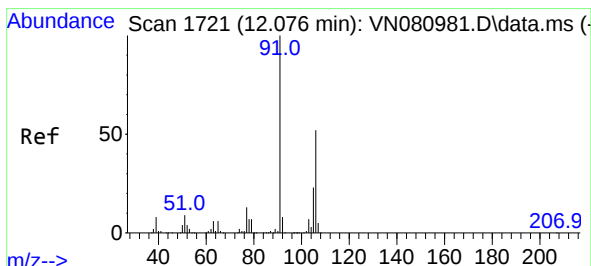
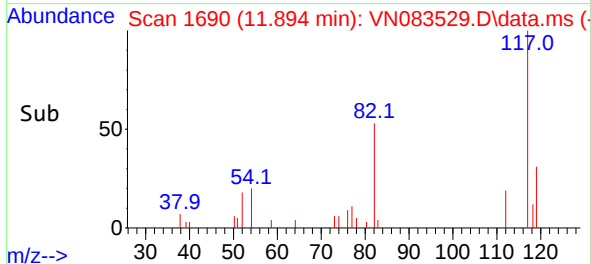
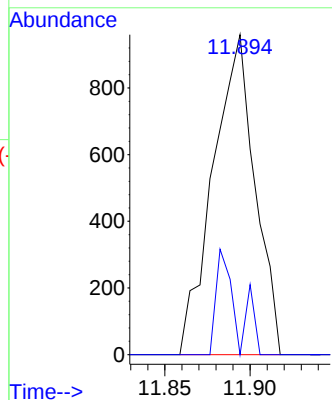
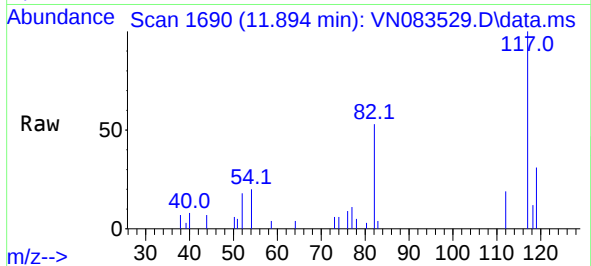




#64
Chlorobenzene
Concen: 0.297 ug/l
RT: 11.894 min Scan# 111
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

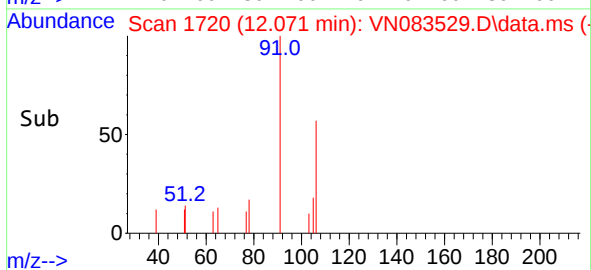
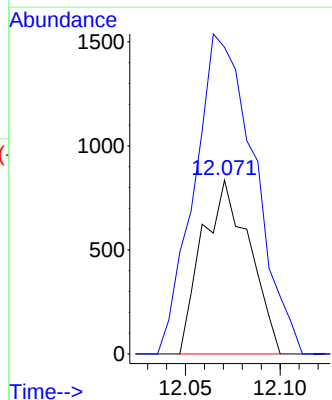
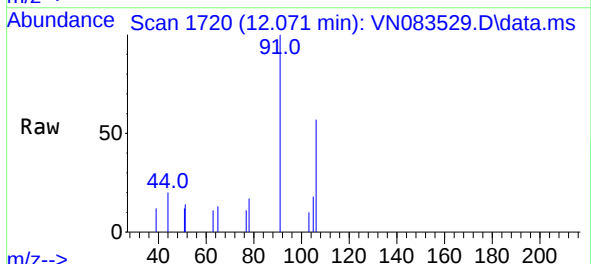
Instrument :
MSVOA_N
ClientSampleId :

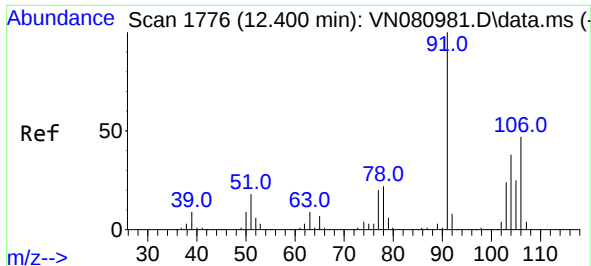
Tgt Ion:112 Resp: 1645
Ion Ratio Lower Upper
112 100
114 0.0 26.6 39.8#



#67
m/p-Xylenes
Concen: 0.389 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Tgt Ion:106 Resp: 1451
Ion Ratio Lower Upper
106 100
91 233.0 166.6 249.8





#68

o-Xylene

Concen: 0.396 ug/l

RT: 12.071 min Scan# 1776

Delta R.T. -0.329 min

Lab File: VN083529.D

Acq: 28 Aug 2024 10:31

Instrument :

MSVOA_N

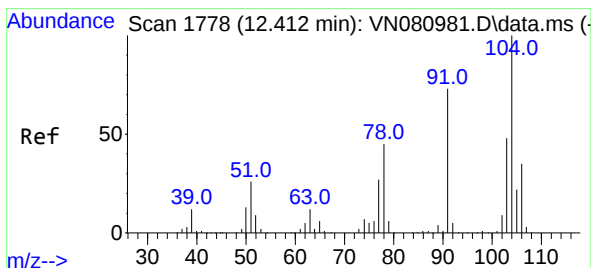
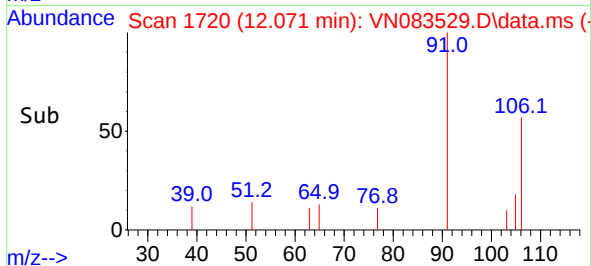
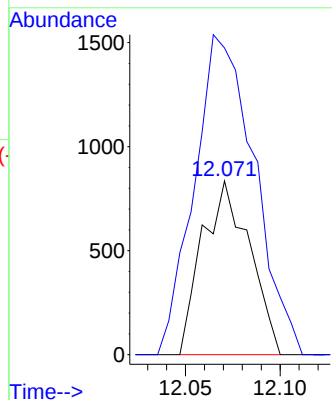
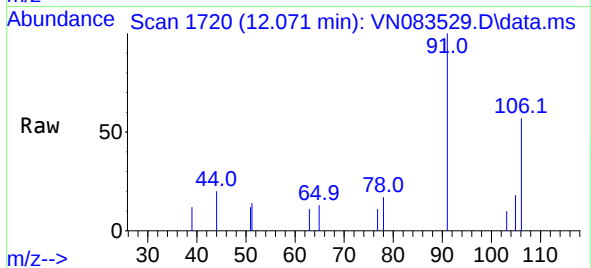
ClientSampleId :

Tgt Ion:106 Resp: 1451

Ion Ratio Lower Upper

106 100

91 233.0 110.0 330.0



#69

Styrene

Concen: 0.325 ug/l

RT: 12.418 min Scan# 1779

Delta R.T. 0.006 min

Lab File: VN083529.D

Acq: 28 Aug 2024 10:31

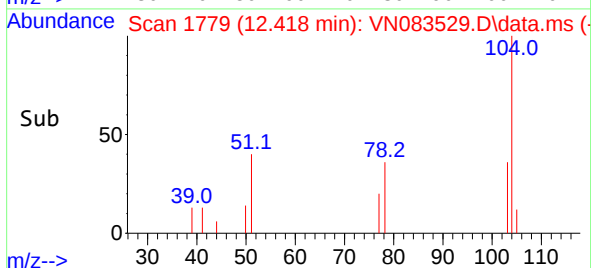
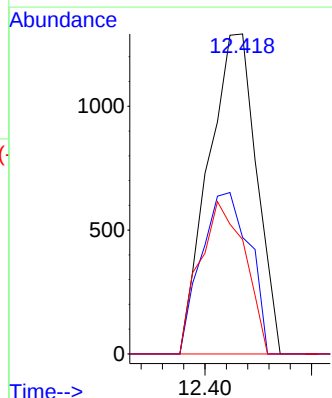
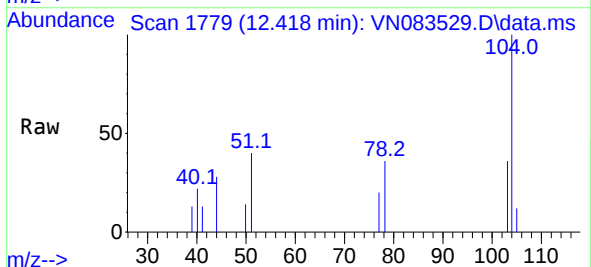
Tgt Ion:104 Resp: 2027

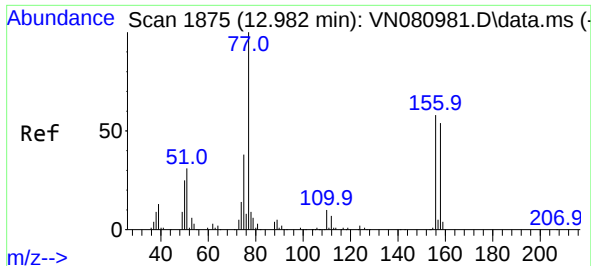
Ion Ratio Lower Upper

104 100

78 50.6 42.6 64.0

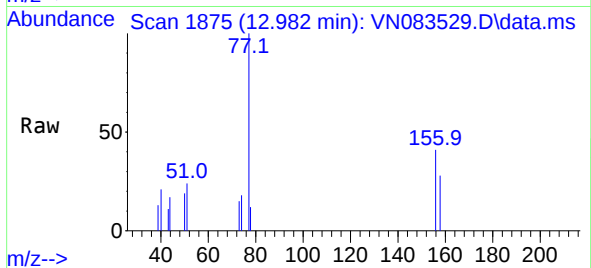
103 44.7 43.7 65.5



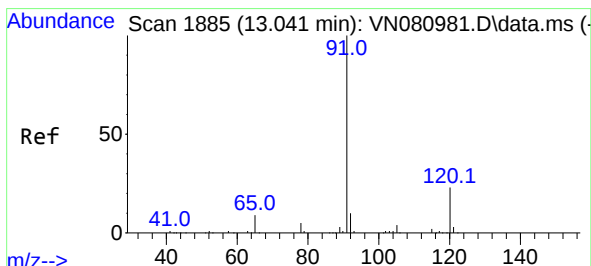
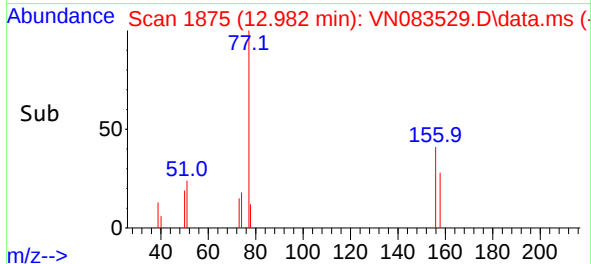
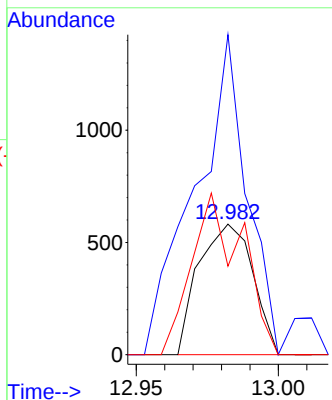


#73
Bromobenzene
Concen: 0.351 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :

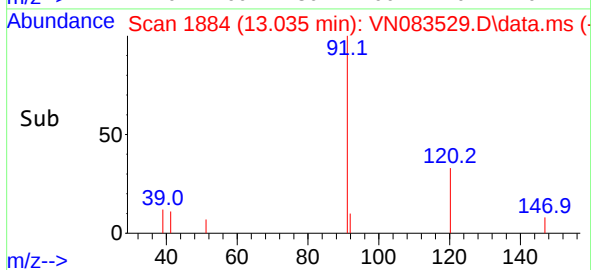
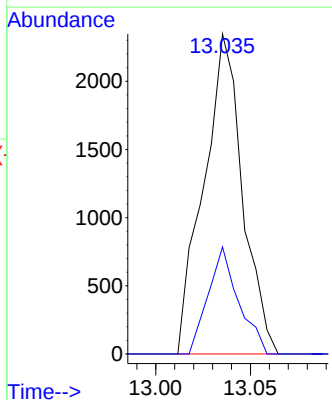
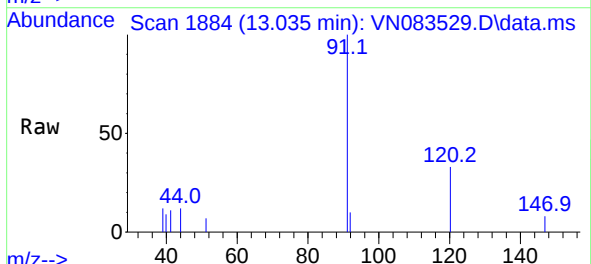


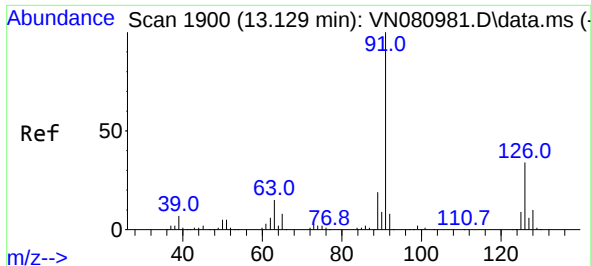
Tgt Ion:156 Resp: 770
Ion Ratio Lower Upper
156 100
77 235.8 0.0 437.6
158 115.6 0.0 203.8



#74
n-propylbenzene
Concen: 0.298 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

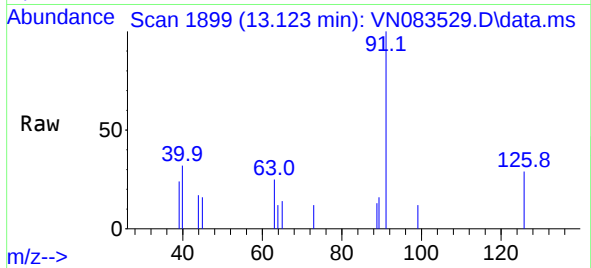
Tgt Ion: 91 Resp: 3340
Ion Ratio Lower Upper
91 100
120 26.3 0.0 43.8



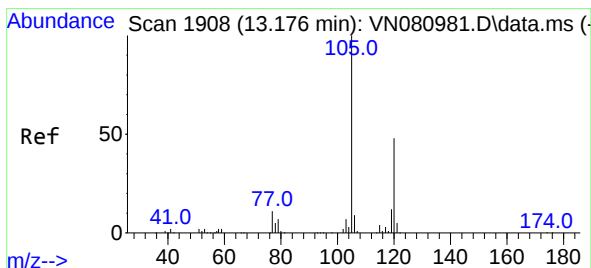
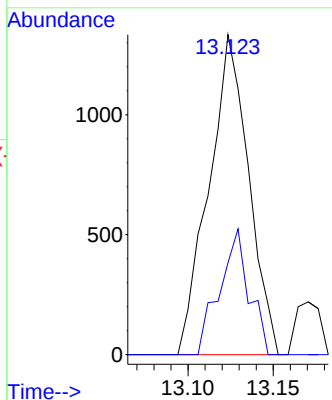
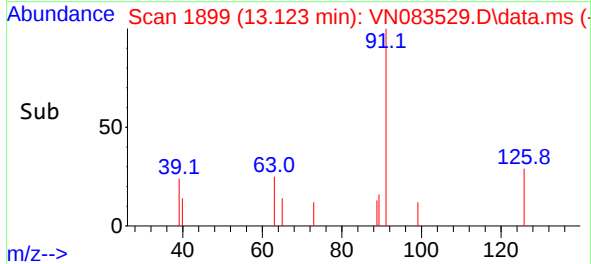


#75
2-Chlorotoluene
Concen: 0.301 ug/l
RT: 13.123 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

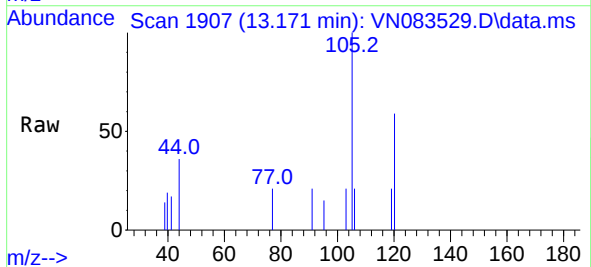
Instrument :
MSVOA_N
ClientSampleId :



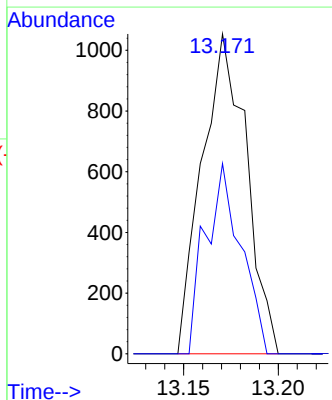
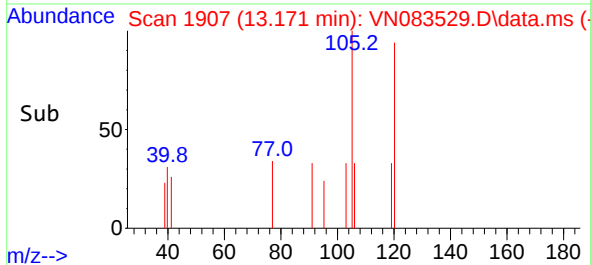
Tgt Ion: 91 Resp: 2165
Ion Ratio Lower Upper
91 100
126 29.1 0.0 61.2

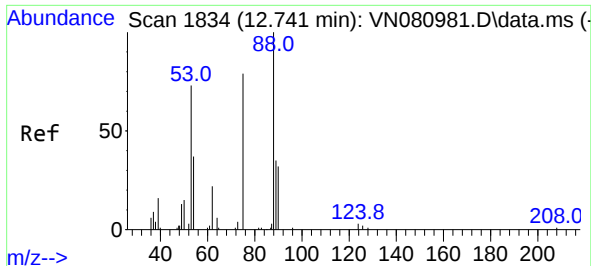


#76
1,3,5-Trimethylbenzene
Concen: 0.212 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31



Tgt Ion: 105 Resp: 1714
Ion Ratio Lower Upper
105 100
120 47.8 0.0 95.8

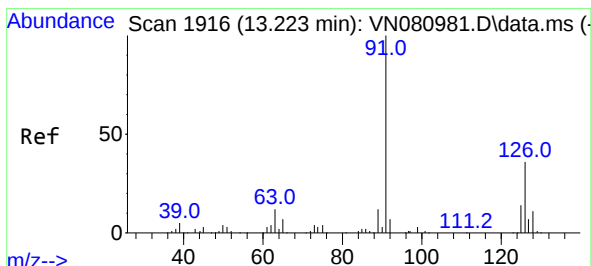
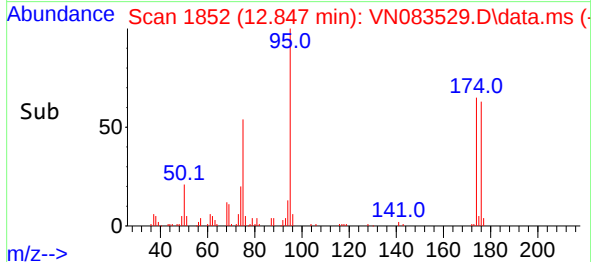
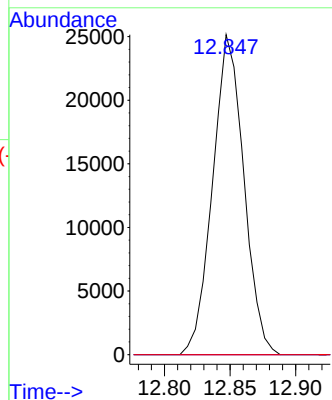
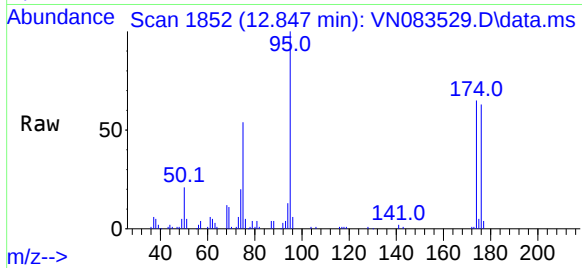




#77
t-1,4-Dichloro-2-butene
Concen: 39.277 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

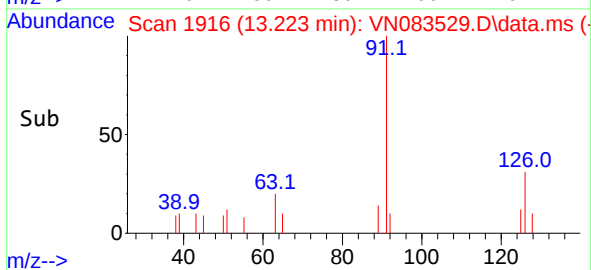
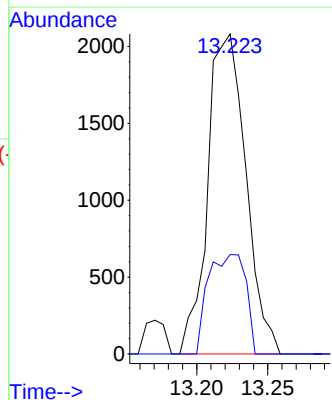
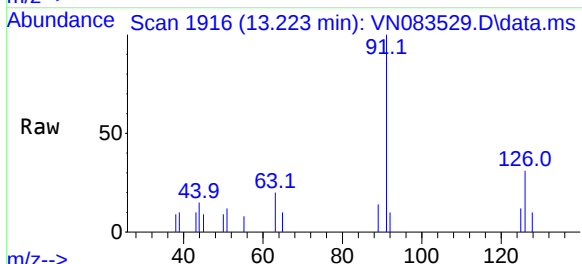
Instrument :
MSVOA_N
ClientSampleId :

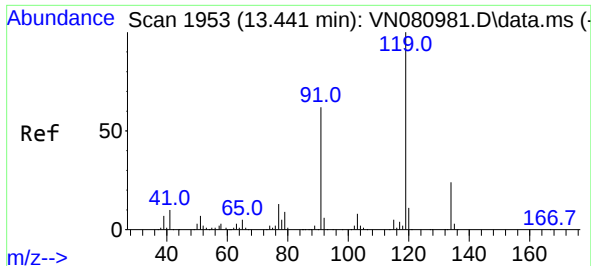
Tgt Ion: 75 Resp: 41640
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#78
4-Chlorotoluene
Concen: 0.545 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Tgt Ion: 91 Resp: 3885
Ion Ratio Lower Upper
91 100
126 30.6 0.0 62.8





#79

tert-butylbenzene

Concen: 0.282 ug/l

RT: 13.729 min Scan# 2044

Delta R.T. 0.288 min

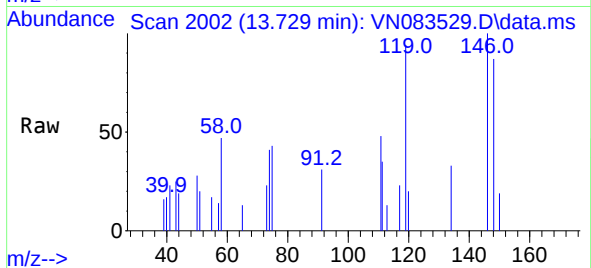
Lab File: VN083529.D

Acq: 28 Aug 2024 10:31

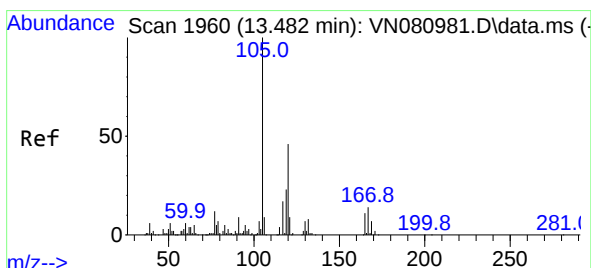
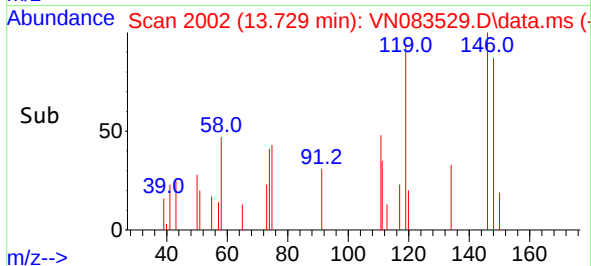
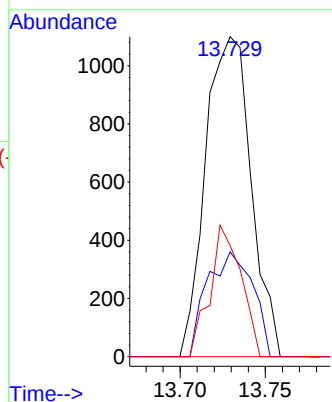
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	119	Resp:	2044
Ion	Ratio	Lower	Upper
119	100		
91	32.8	0.0	138.8
134	28.0	0.0	48.6



#80

1,2,4-Trimethylbenzene

Concen: 0.241 ug/l

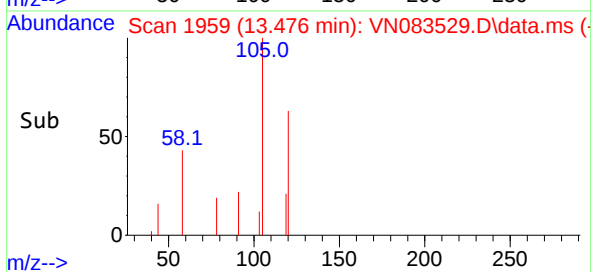
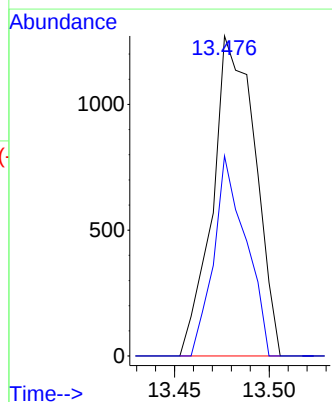
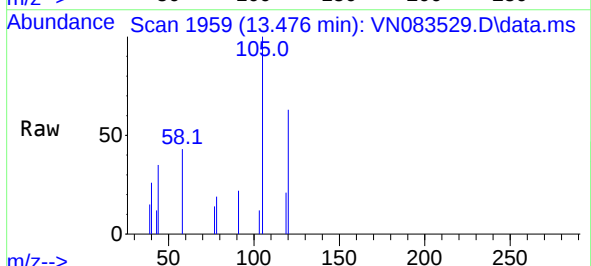
RT: 13.476 min Scan# 1959

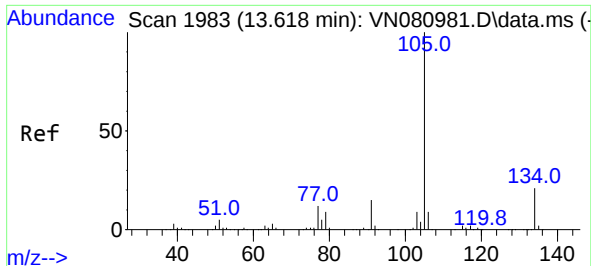
Delta R.T. -0.006 min

Lab File: VN083529.D

Acq: 28 Aug 2024 10:31

Tgt Ion:	105	Resp:	1987
Ion	Ratio	Lower	Upper
105	100		
120	47.3	0.0	86.8

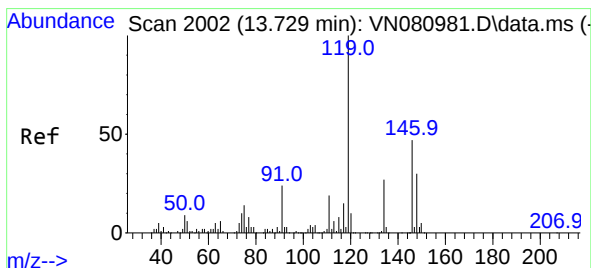
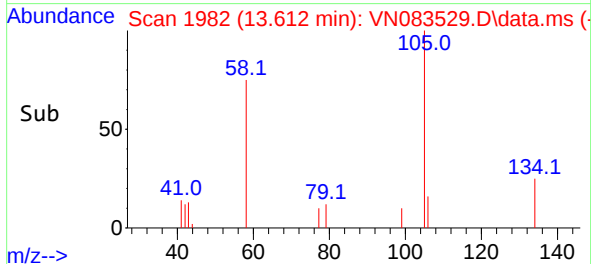
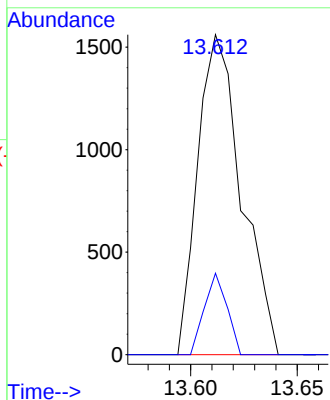
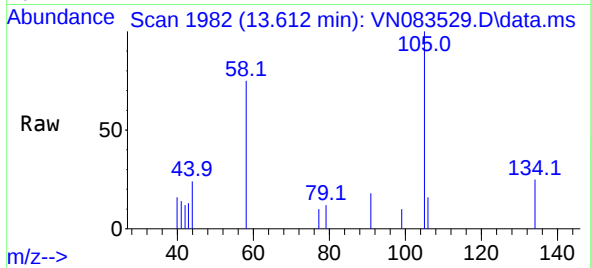




#81
sec-Butylbenzene
Concen: 0.229 ug/l
RT: 13.612 min Scan# 1983
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

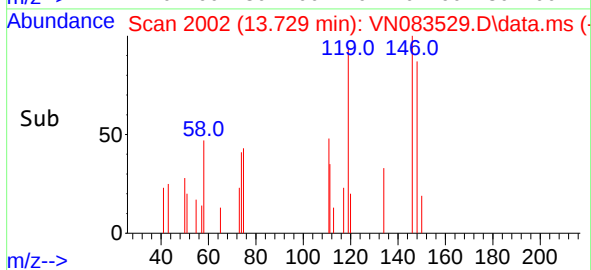
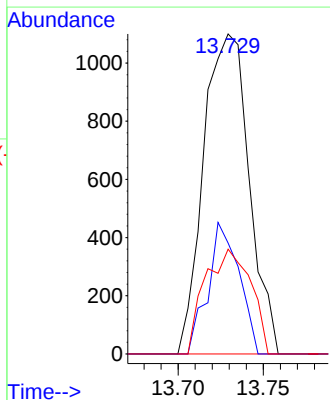
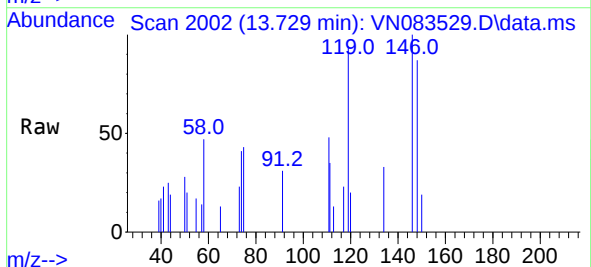
Instrument :
MSVOA_N
ClientSampleId :

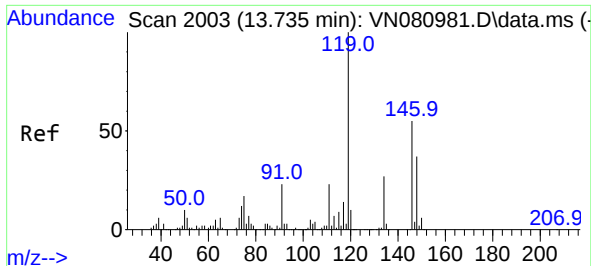
Tgt Ion:105 Resp: 2234
Ion Ratio Lower Upper
105 100
134 13.0 0.0 39.0



#82
p-Isopropyltoluene
Concen: 0.248 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

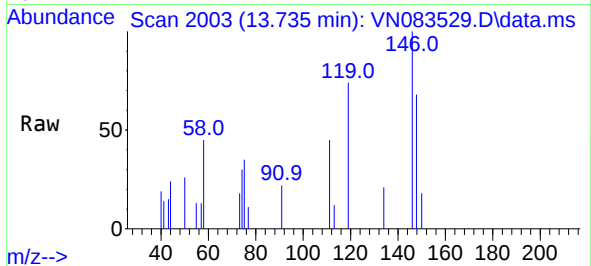
Tgt Ion:119 Resp: 2044
Ion Ratio Lower Upper
119 100
134 28.0 0.0 49.2
91 32.8 0.0 48.8



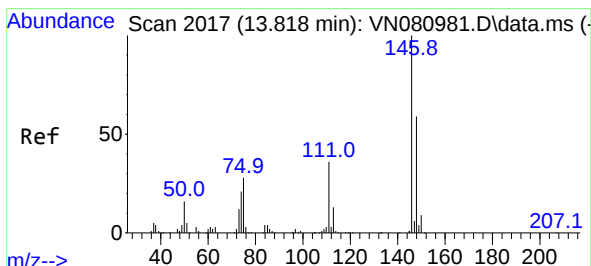
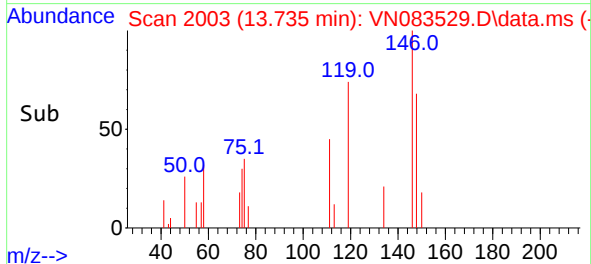
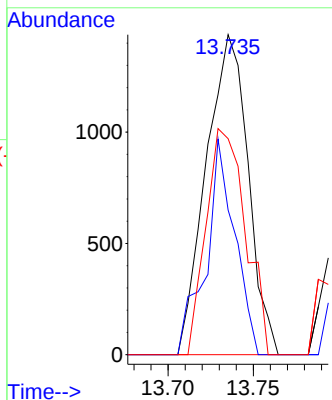


#83
1,3-Dichlorobenzene
Concen: 0.576 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :

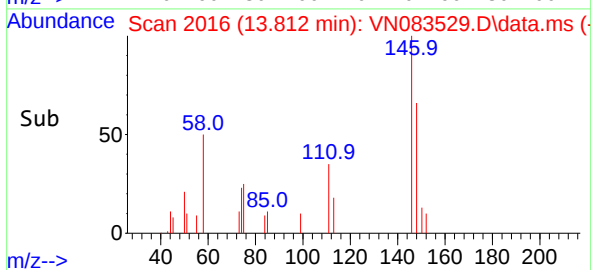
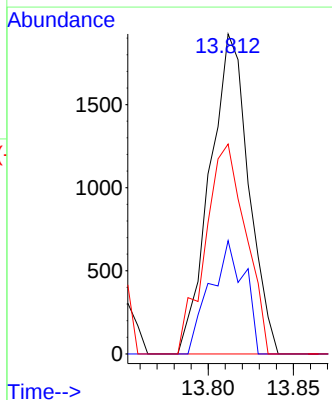
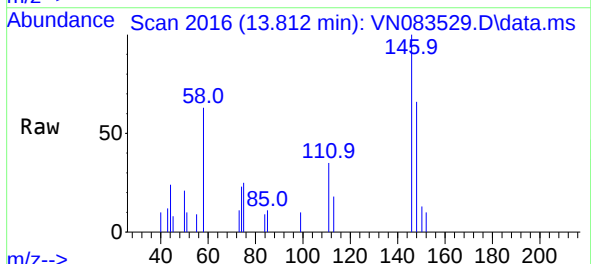


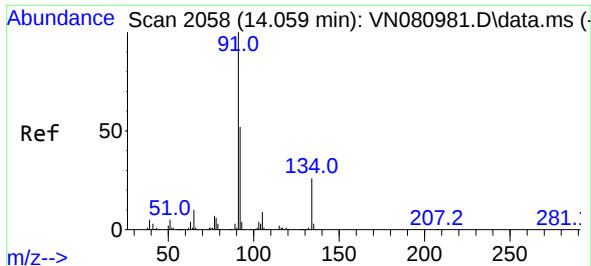
Tgt Ion:146 Resp: 2466
Ion Ratio Lower Upper
146 100
111 38.5 22.4 67.0
148 66.3 32.1 96.5



#84
1,4-Dichlorobenzene
Concen: 0.708 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

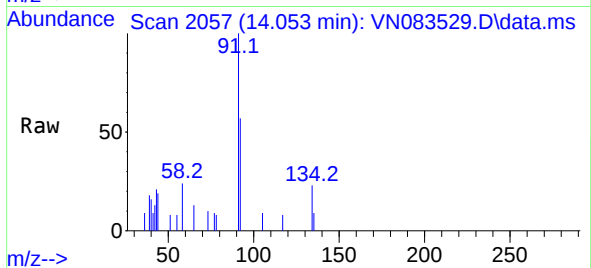
Tgt Ion:146 Resp: 3044
Ion Ratio Lower Upper
146 100
111 31.2 21.3 63.9
148 68.5 31.9 95.5



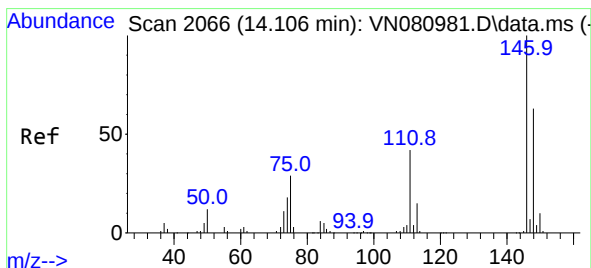
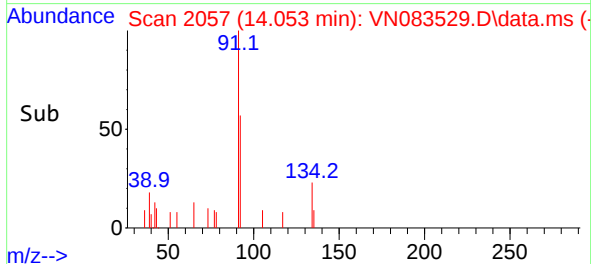
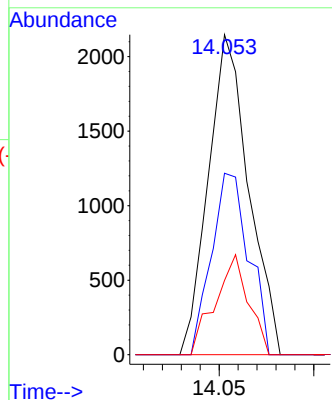


#85
n-Butylbenzene
Concen: 0.435 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :

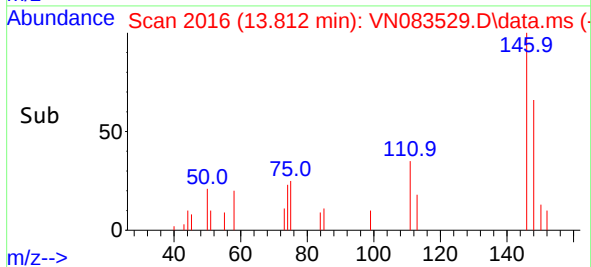
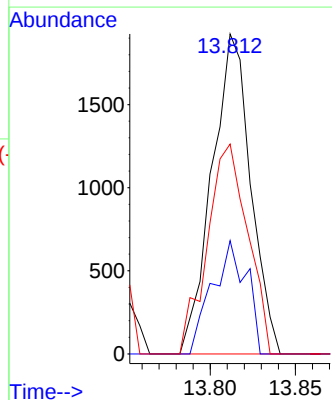
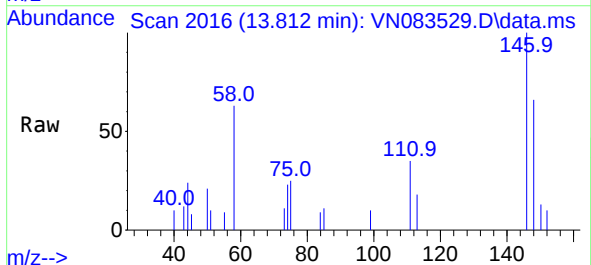


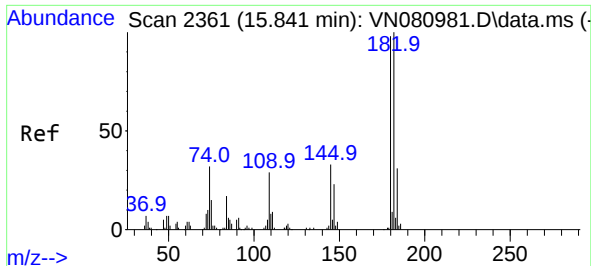
Tgt Ion: 91 Resp: 3182
Ion Ratio Lower Upper
91 100
92 52.6 0.0 105.0
134 25.8 0.0 51.8



#87
1,2-Dichlorobenzene
Concen: 0.722 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.294 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

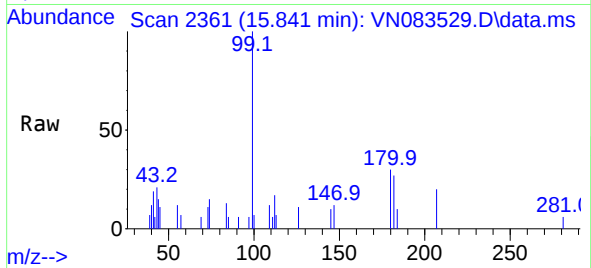
Tgt Ion: 146 Resp: 3044
Ion Ratio Lower Upper
146 100
111 31.2 22.6 67.8
148 68.5 31.3 93.8



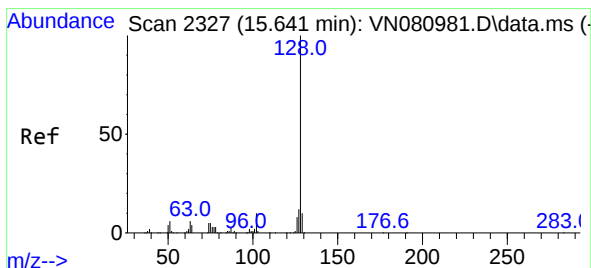
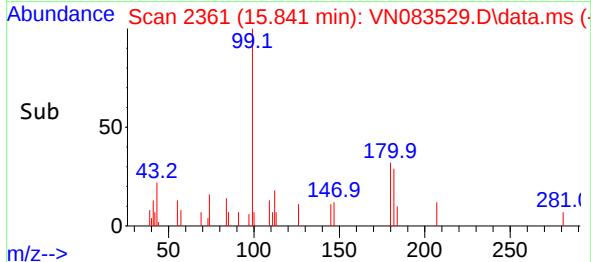
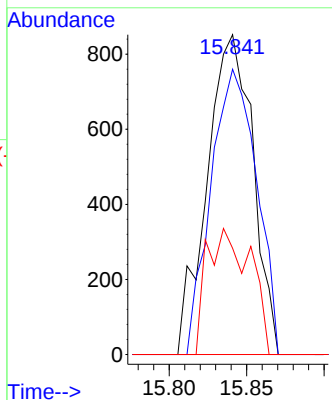


#89
1,2,4-Trichlorobenzene
Concen: 0.759 ug/l
RT: 15.841 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :

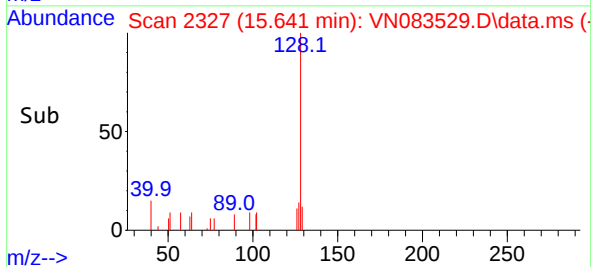
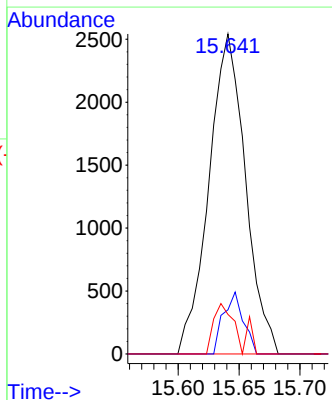
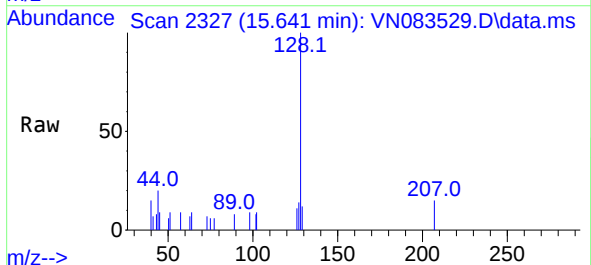


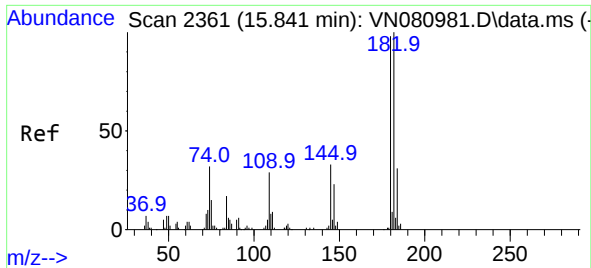
Tgt Ion:180 Resp: 1755
Ion Ratio Lower Upper
180 100
182 88.8 76.4 114.6
145 7.7 28.4 42.6#



#91
Naphthalene
Concen: 0.664 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083529.D
Acq: 28 Aug 2024 10:31

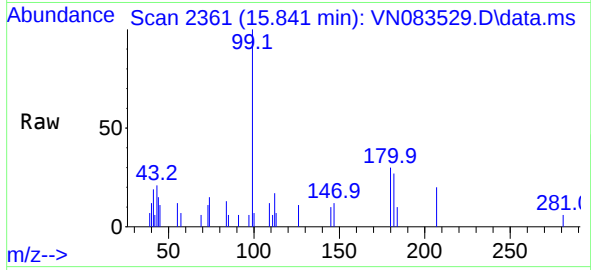
Tgt Ion:128 Resp: 5306
Ion Ratio Lower Upper
128 100
127 10.6 10.6 16.0#
129 8.3 8.6 13.0#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.759 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN083529.D
 Acq: 28 Aug 2024 10:31

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1755
Ion	Ratio	Lower	Upper
180	100		
182	88.8	0.0	191.0
145	7.7	0.0	71.0

