

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051722\
 Data File : VN072528.D
 Acq On : 17 May 2022 14:00
 Operator : JC\MD
 Sample : VN0517WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0517WBL01

Quant Time: May 18 07:24:34 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

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

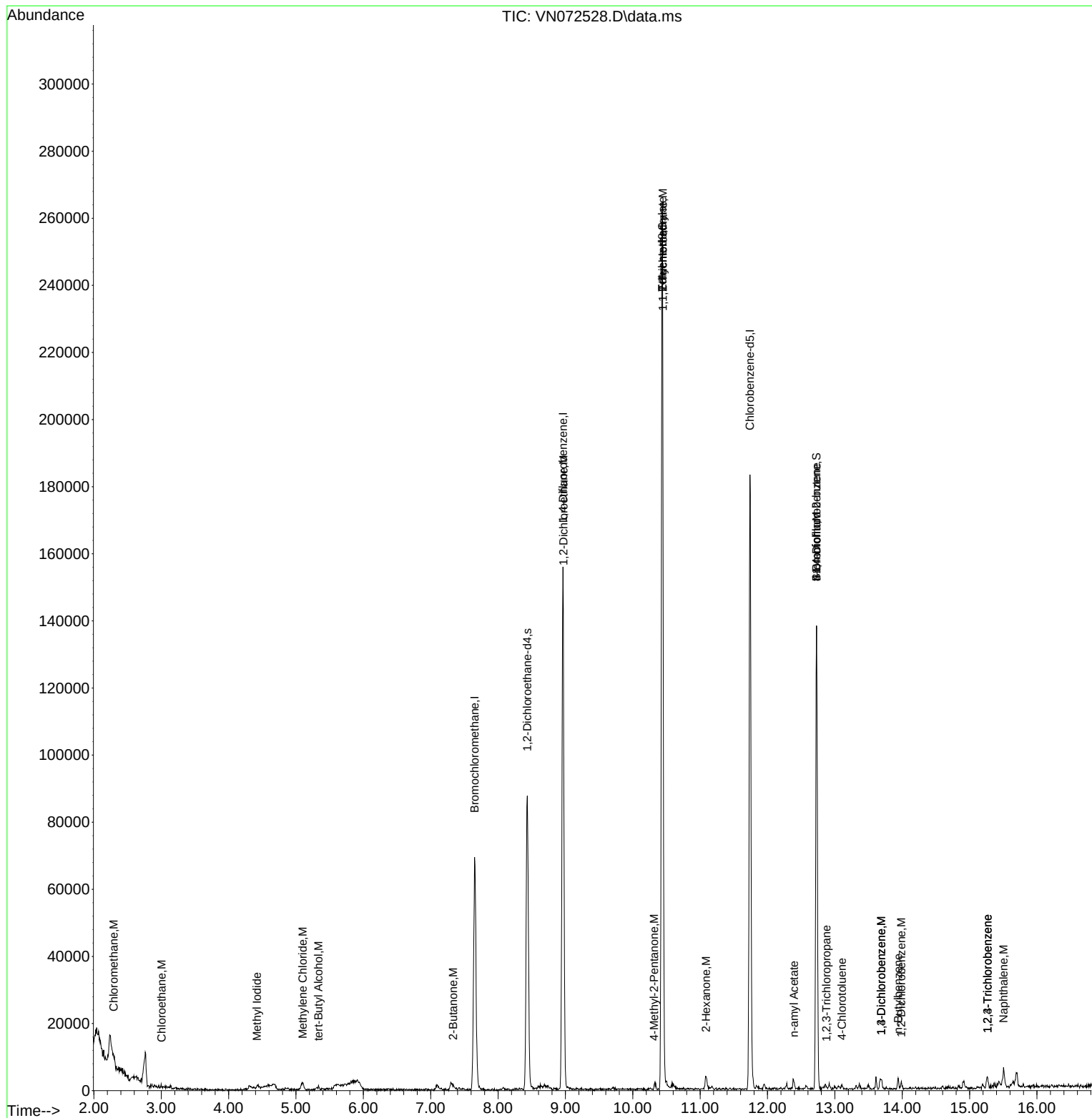
Internal Standards						
1) Bromochloromethane	7.651	128	25323	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	130855	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	110230	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	82170	28.837	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.133%		
60) 4-Bromofluorobenzene	12.727	95	47922	22.266	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	74.233%		
63) Toluene-d8	10.439	98	185684	30.859	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.867%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.293	50	442	0.233	ug/l #	40
6) Chloroethane	3.004	64	237	0.226	ug/l #	44
11) Methyl Iodide	4.422	142	566	0.234	ug/l #	13
18) Methylene Chloride	5.098	84	1751	0.919	ug/l #	65
23) tert-Butyl Alcohol	5.334	59	359	0.745	ug/l #	100
30) 2-Butanone	7.334	43	703	0.466	ug/l #	53
36) 1,2-Dichloroethane	8.969	62	5119	1.484	ug/l #	77
47) n-amyl Acetate	12.392	43	1921	0.609	ug/l	100
50) 1,1,2-Trichloroethane	10.445	97	6550	3.298	ug/l #	1
51) Ethyl methacrylate	10.439	69	661	0.213	ug/l	87
56) Bromoform	12.727	173	395	0.218	ug/l #	1
58) 4-Methyl-2-Pentanone	10.316	43	919	0.354	ug/l	96
59) 2-Hexanone	11.086	43	3757	1.969	ug/l #	56
72) 1,2,3-Trichloropropane	12.874	75	684	0.287	ug/l	1
77) t-1,4-Dichloro-2-butene	12.727	75	25998	32.980	ug/l #	8
78) 4-Chlorotoluene	13.104	91	1474	0.267	ug/l	69
83) 1,3-Dichlorobenzene	13.686	146	1100	0.321	ug/l	93
84) 1,4-Dichlorobenzene	13.686	146	1100	0.330	ug/l	91
85) n-Butylbenzene	13.939	91	2256	0.443	ug/l	89
87) 1,2-Dichlorobenzene	13.986	146	1096	0.328	ug/l	91
89) 1,2,4-Trichlorobenzene	15.268	180	1856	1.226	ug/l #	64
91) Naphthalene	15.504	128	6987	8.849	ug/l #	92
92) 1,2,3-Trichlorobenzene	15.268	180	1856	1.204	ug/l	65

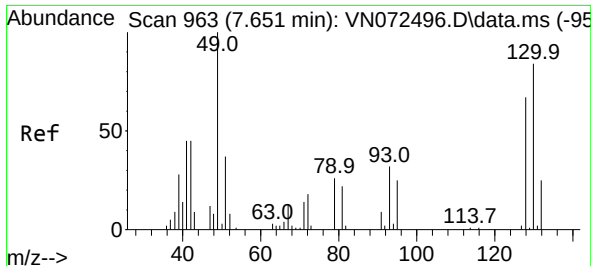
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampleId :
VN0517WBL01

Quant Time: May 18 07:24:34 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue May 17 06:34:50 2022
Response via : Initial Calibration

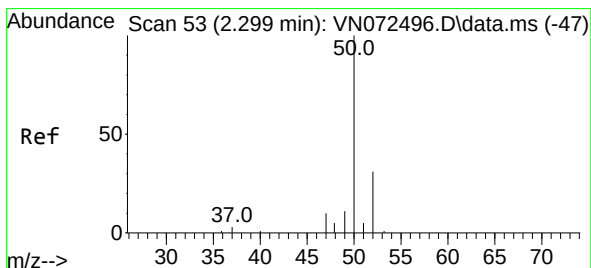
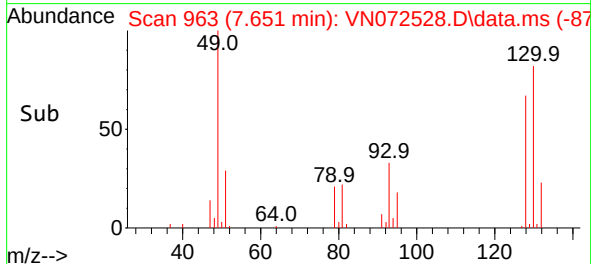
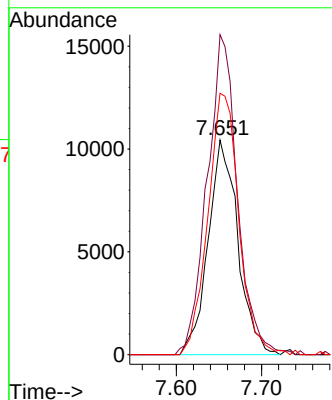
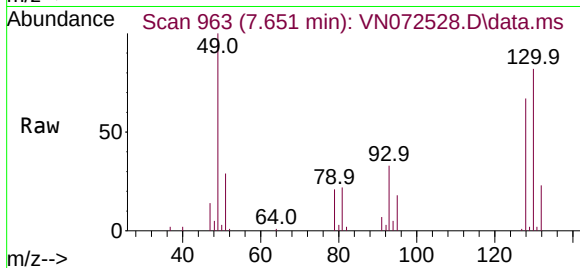




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.651 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

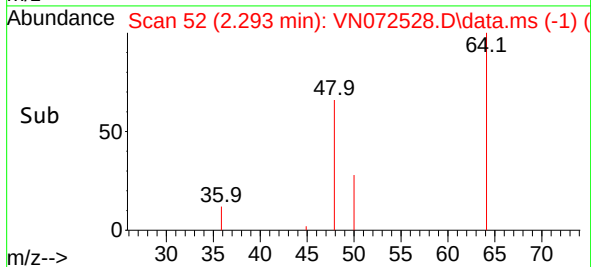
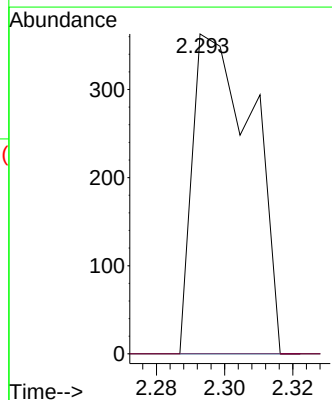
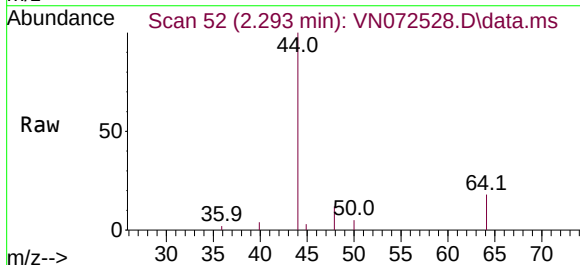
Instrument :
MSVOA_N
ClientSampleId :
VN0517WBL01

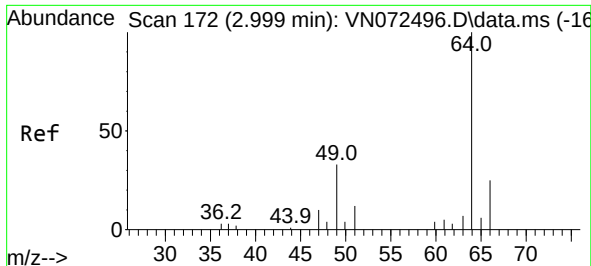
Tgt Ion:128 Resp: 25323
Ion Ratio Lower Upper
128 100
49 151.4 0.0 392.3
130 126.3 0.0 320.2



#3
Chloromethane
Concen: 0.233 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion: 50 Resp: 442
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.6#

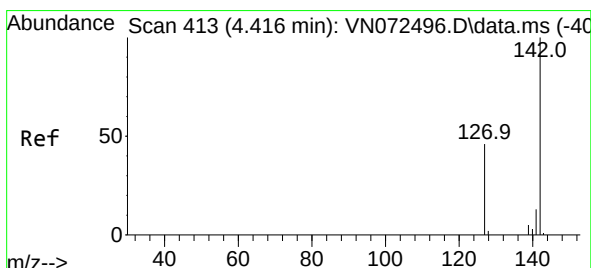
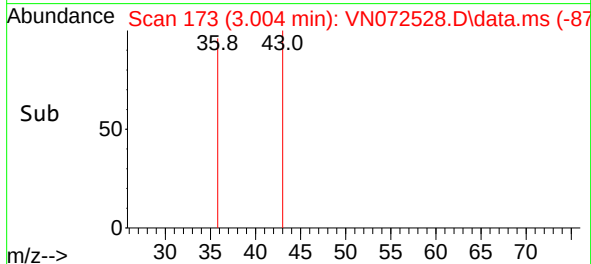
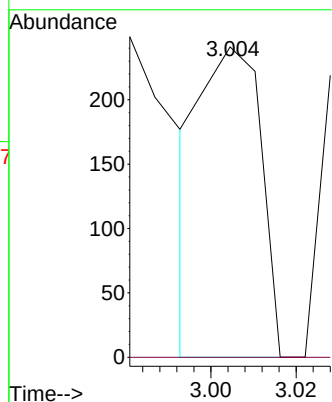
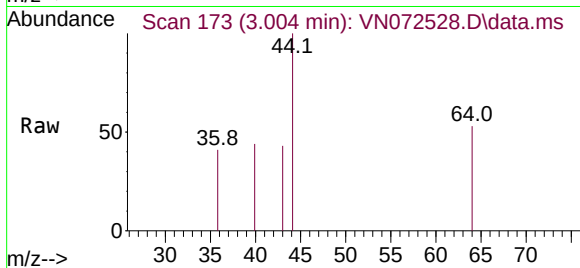




#6
Chloroethane
Concen: 0.226 ug/l
RT: 3.004 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

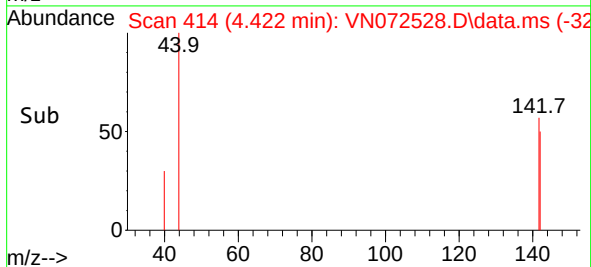
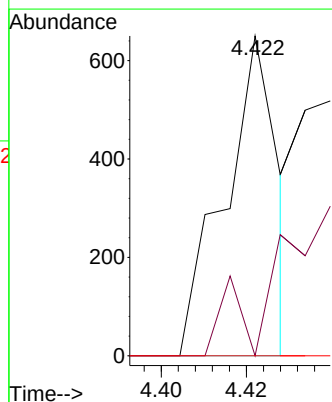
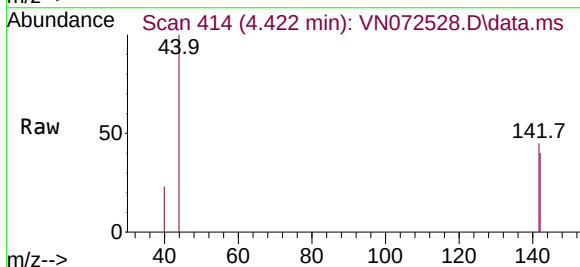
Instrument :
MSVOA_N
ClientSampleId :
VN0517WBL01

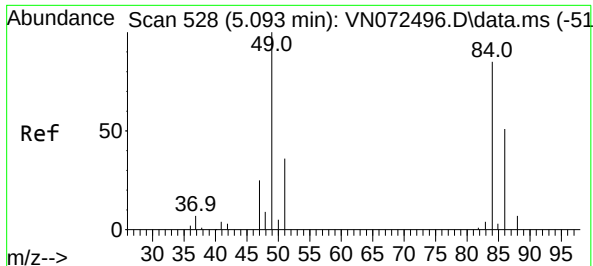
Tgt Ion: 64 Resp: 237
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#11
Methyl Iodide
Concen: 0.234 ug/l
RT: 4.422 min Scan# 414
Delta R.T. 0.006 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion: 142 Resp: 566
Ion Ratio Lower Upper
142 100
127 0.0 24.0 72.0#
141 74.2 8.4 25.2#

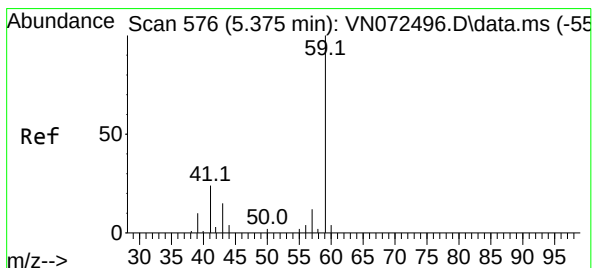
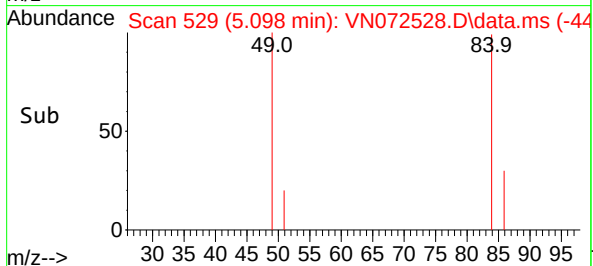
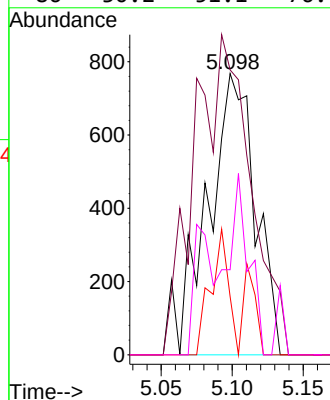
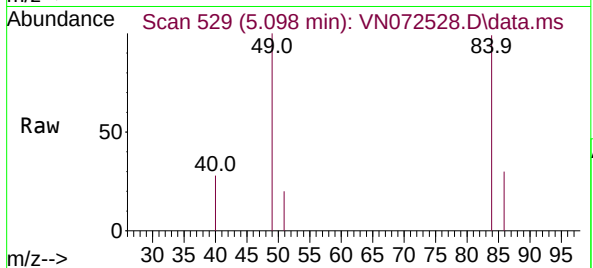




#18
Methylene Chloride
Concen: 0.919 ug/l
RT: 5.098 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

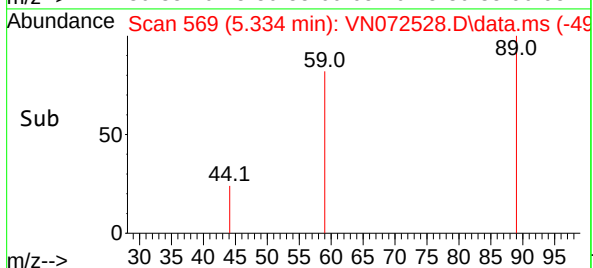
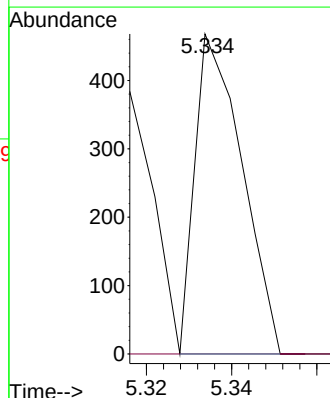
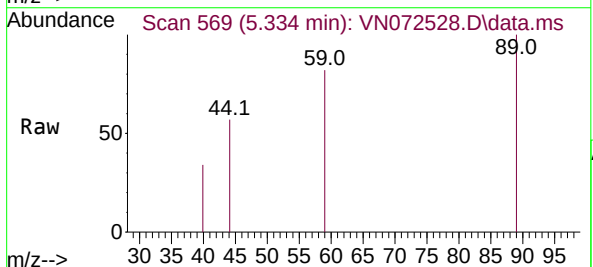
Instrument :
MSVOA_N
ClientSampleId :
VN0517WBL01

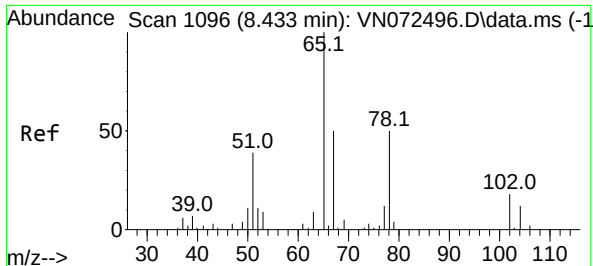
Tgt Ion:	84	Resp:	1751
Ion	Ratio	Lower	Upper
84	100		
49	78.8	91.4	137.0#
51	20.7	29.4	44.0#
86	30.2	51.1	76.7#



#23
tert-Butyl Alcohol
Concen: 0.745 ug/l
RT: 5.334 min Scan# 569
Delta R.T. -0.041 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion:	59	Resp:	359
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

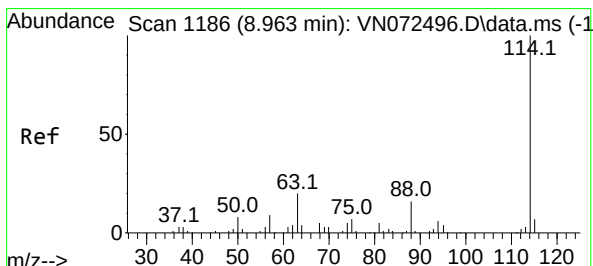
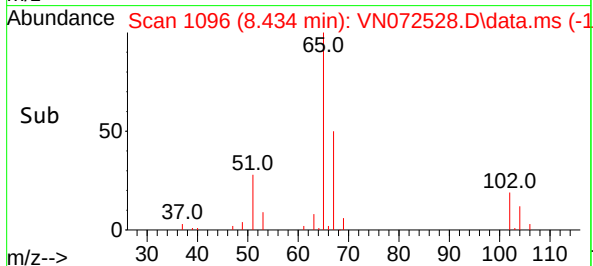
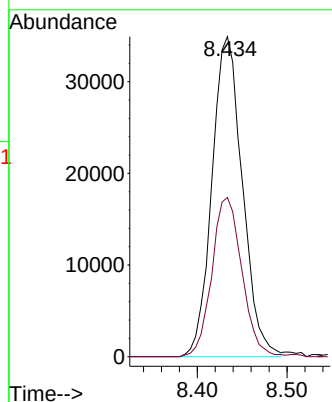
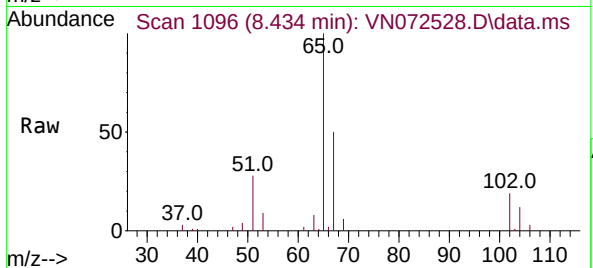




#27
1,2-Dichloroethane-d4
Concen: 28.837 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. 0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

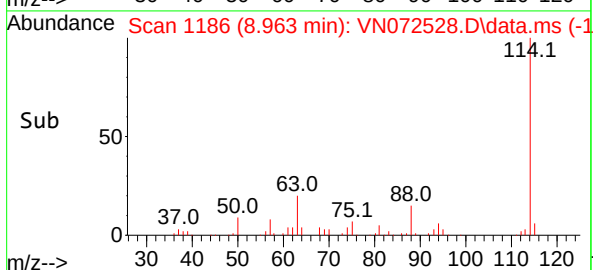
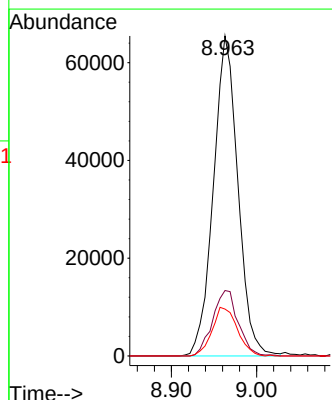
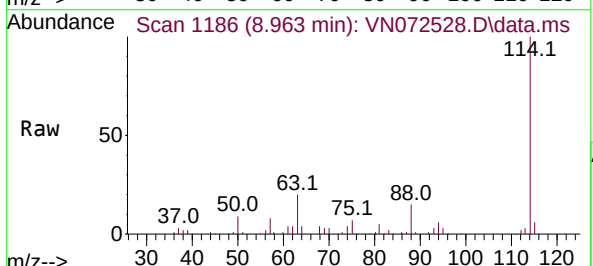
Instrument :
MSVOA_N
ClientSampleId :
VN0517WBL01

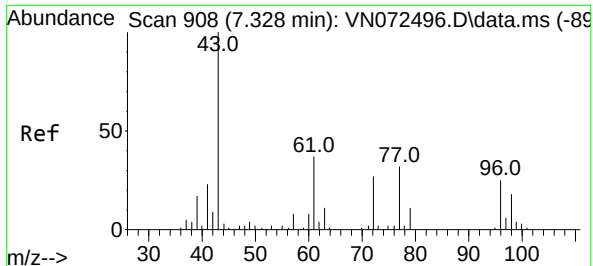
Tgt Ion: 65 Resp: 82170
Ion Ratio Lower Upper
65 100
67 49.0 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion: 114 Resp: 130855
Ion Ratio Lower Upper
114 100
63 21.2 15.8 23.6
88 15.6 11.6 17.4





#30

2-Butanone

Concen: 0.466 ug/l

RT: 7.334 min Scan# 908

Delta R.T. 0.006 min

Lab File: VN072528.D

Acq: 17 May 2022 14:00

Instrument :

MSVOA_N

ClientSampleId :

VN0517WBL01

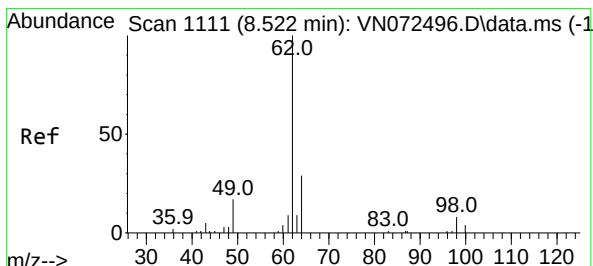
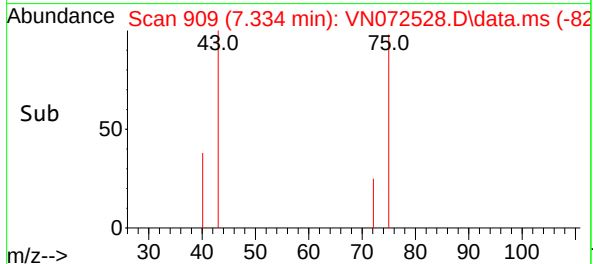
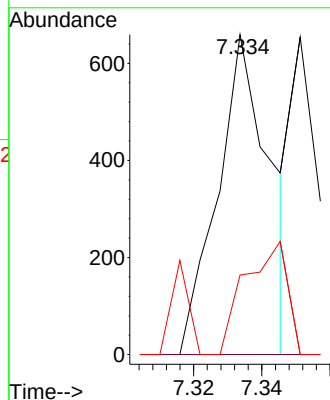
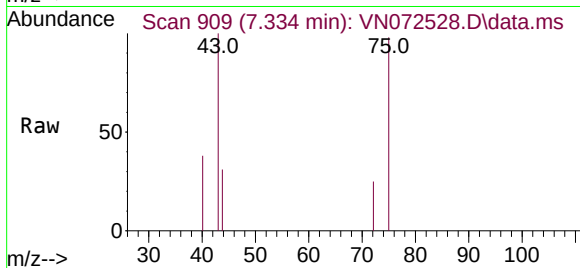
Tgt Ion: 43 Resp: 703

Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 0.0 23.2 34.8#



#36

1,2-Dichloroethane

Concen: 1.484 ug/l

RT: 8.969 min Scan# 1187

Delta R.T. 0.447 min

Lab File: VN072528.D

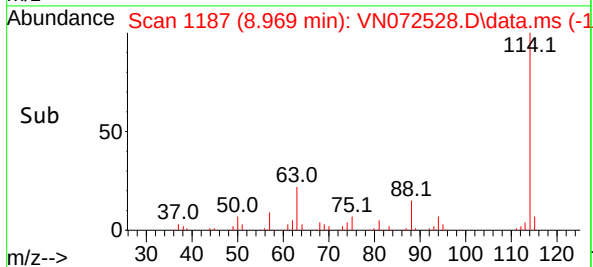
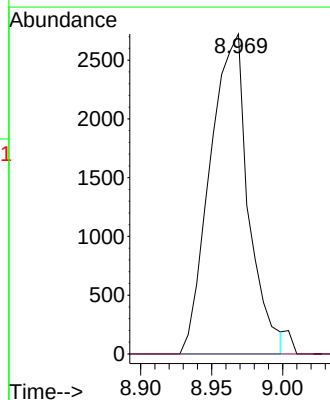
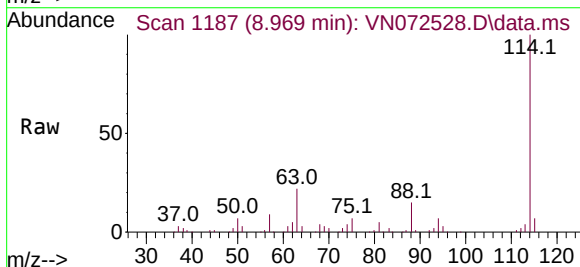
Acq: 17 May 2022 14:00

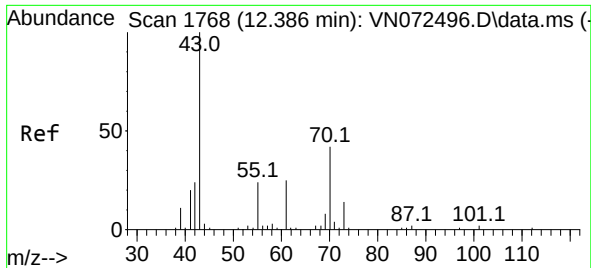
Tgt Ion: 62 Resp: 5119

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#

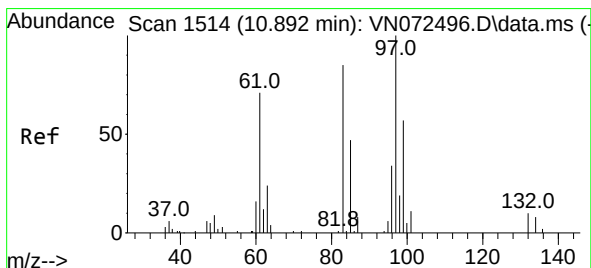
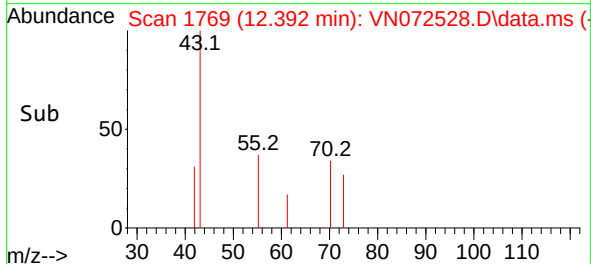
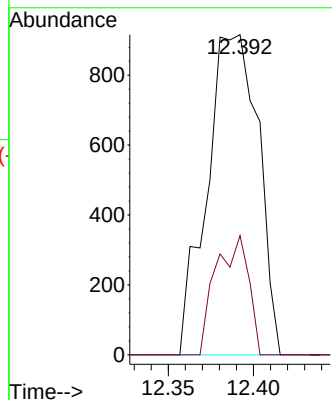
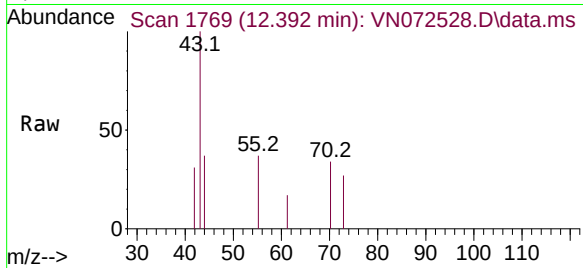




#47
n-amy1 Acetate
Concen: 0.609 ug/l
RT: 12.392 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

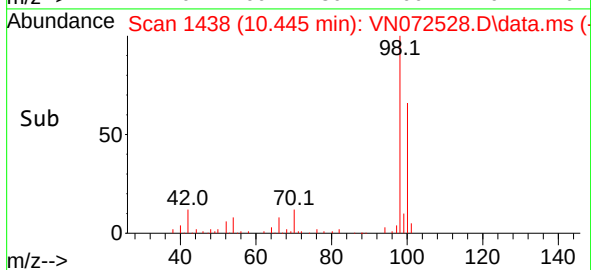
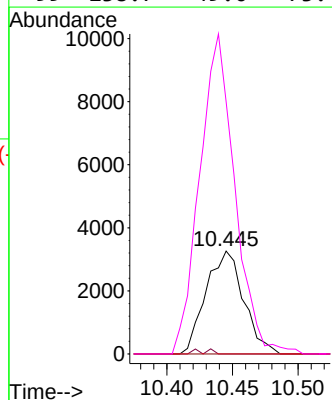
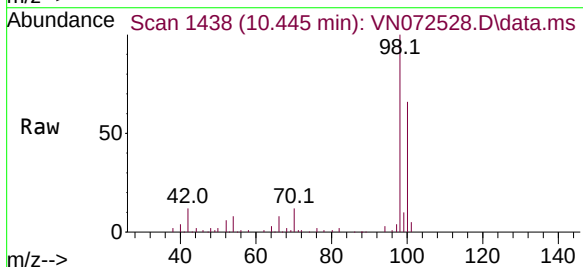
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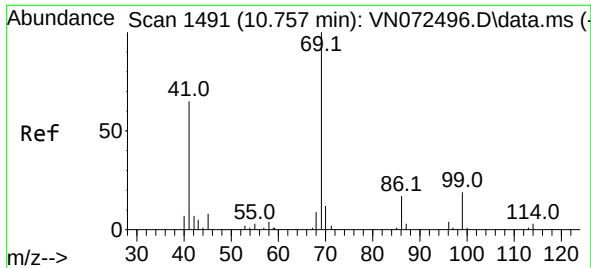
Tgt Ion: 43 Resp: 1921
Ion Ratio Lower Upper
43 100
55 23.7 19.0 28.6



#50
1,1,2-Trichloroethane
Concen: 3.298 ug/l
RT: 10.445 min Scan# 1438
Delta R.T. -0.447 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion: 97 Resp: 6550
Ion Ratio Lower Upper
97 100
83 0.0 67.2 100.8#
85 0.0 43.0 64.4#
99 238.7 49.0 73.4#

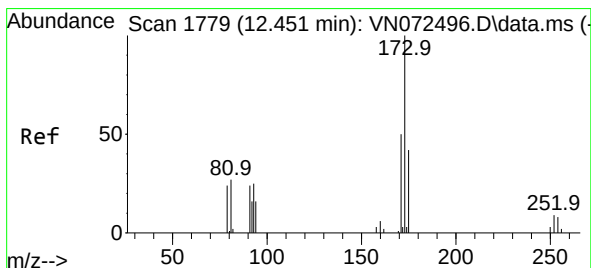
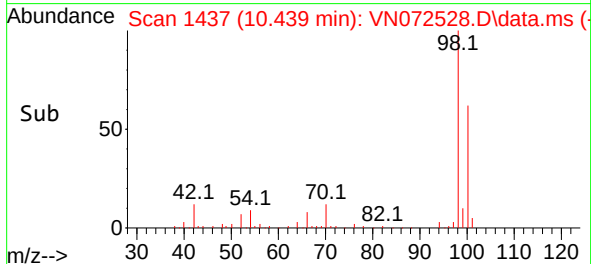
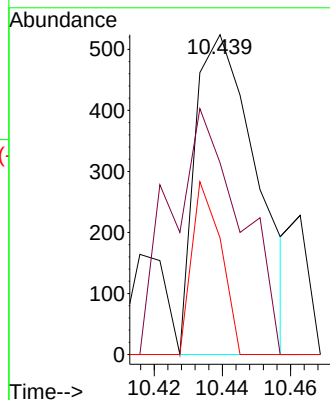
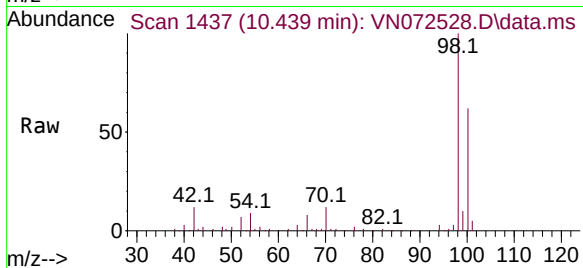




#51
Ethyl methacrylate
Concen: 0.213 ug/l
RT: 10.439 min Scan# 1491
Delta R.T. -0.318 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

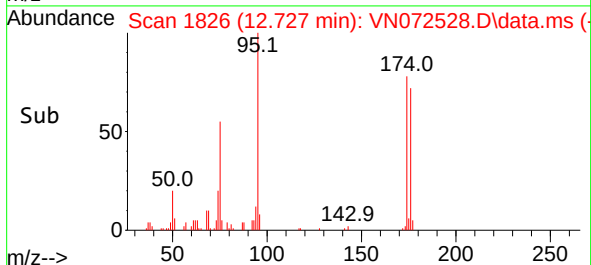
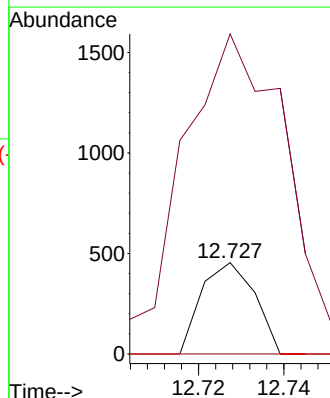
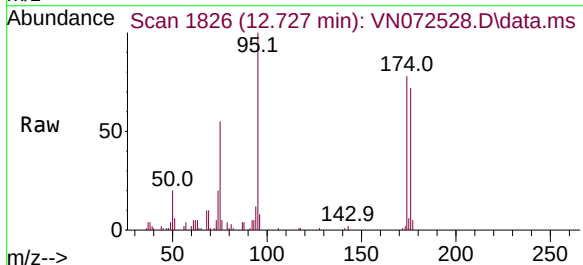
Instrument :
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VN0517WBL01

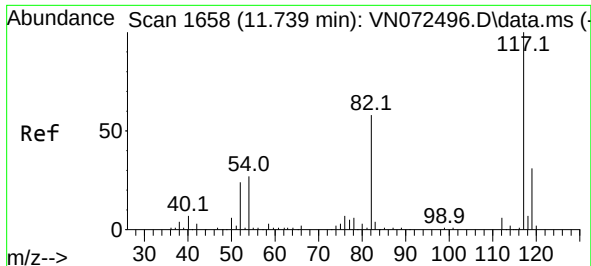
Tgt Ion:	69	Resp:	661
Ion	Ratio	Lower	Upper
69	100		
41	59.9	33.0	98.9
39	36.5	25.4	76.4



#56
Bromoform
Concen: 0.218 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.277 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion:	173	Resp:	395
Ion	Ratio	Lower	Upper
173	100		
175	678.0	38.6	58.0#
254	0.0	0.0	0.0





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.739 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN072528.D

Acq: 17 May 2022 14:00

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MSVOA_N

ClientSampleId :

VN0517WBL01

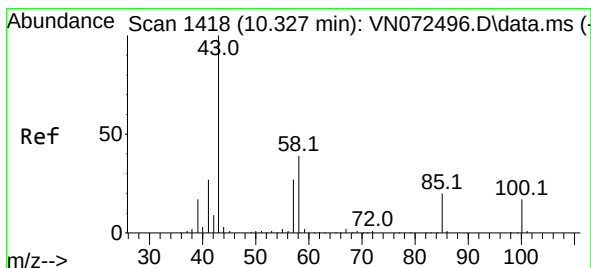
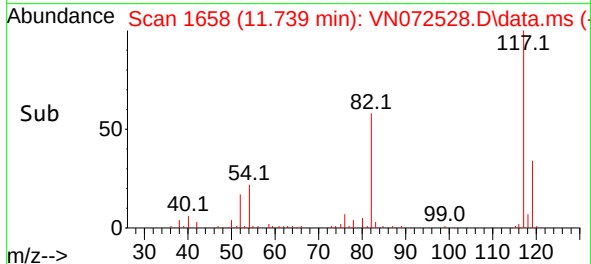
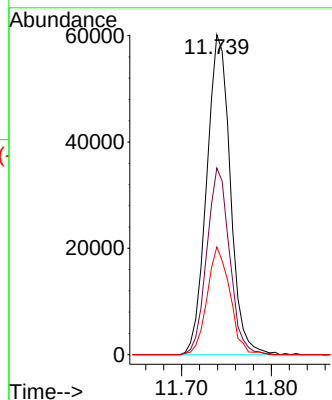
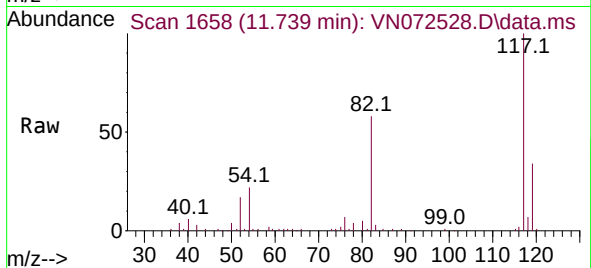
Tgt Ion:117 Resp: 110230

Ion Ratio Lower Upper

117 100

82 56.3 43.6 65.4

119 32.3 25.8 38.6



#58

4-Methyl-2-Pentanone

Concen: 0.354 ug/l

RT: 10.316 min Scan# 1416

Delta R.T. -0.012 min

Lab File: VN072528.D

Acq: 17 May 2022 14:00

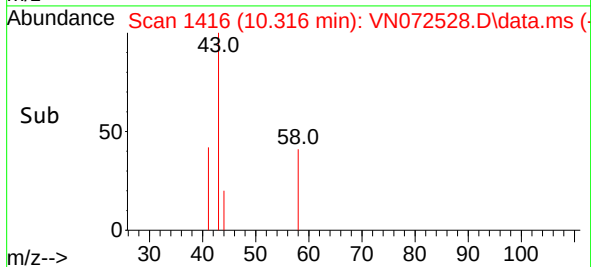
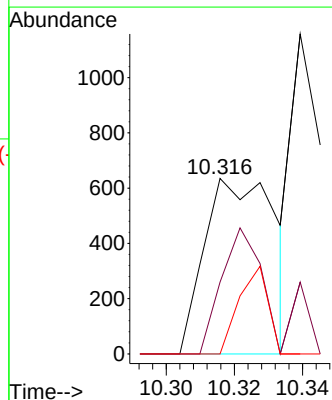
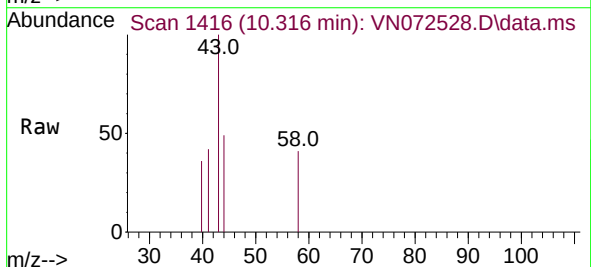
Tgt Ion: 43 Resp: 919

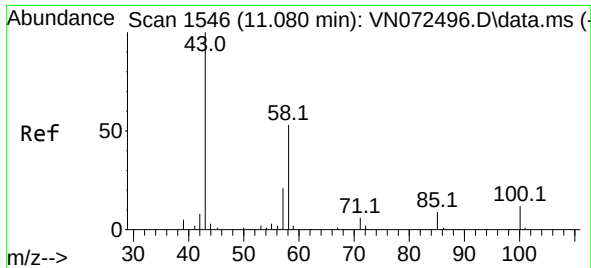
Ion Ratio Lower Upper

43 100

58 40.0 30.0 45.0

85 20.2 15.0 22.6

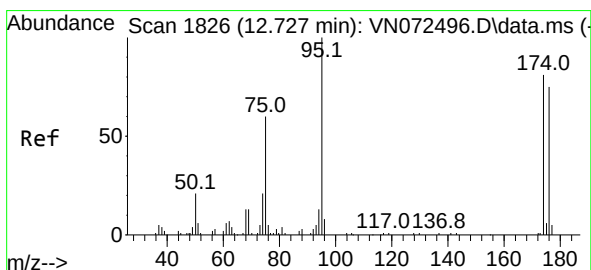
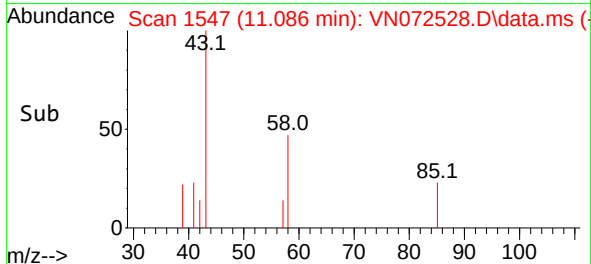
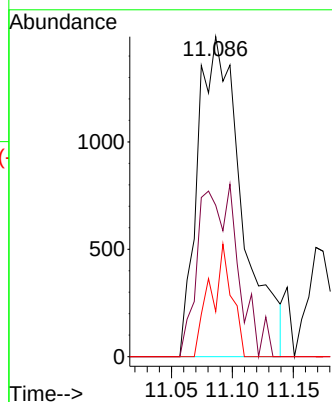
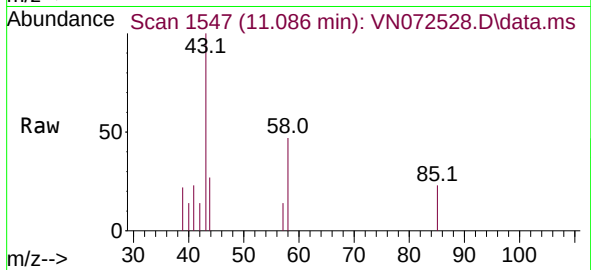




#59
2-Hexanone
Concen: 1.969 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

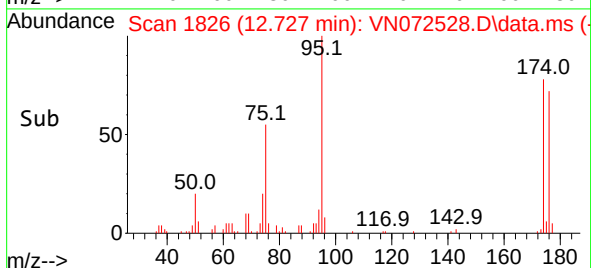
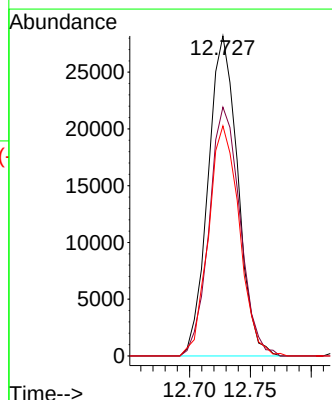
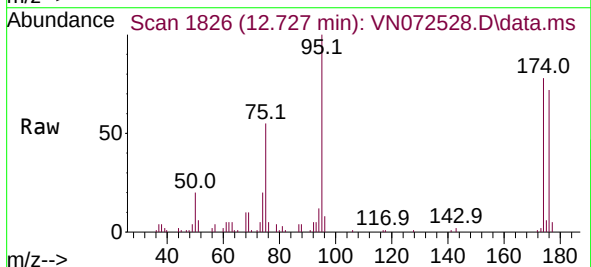
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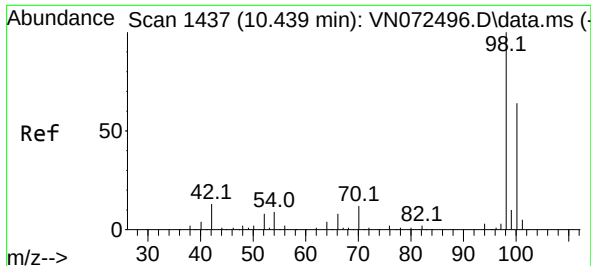
Tgt Ion: 43 Resp: 3757
Ion Ratio Lower Upper
43 100
58 15.8 42.2 63.2#
57 9.8 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 22.266 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion: 95 Resp: 47922
Ion Ratio Lower Upper
95 100
174 80.6 62.9 94.3
176 74.8 61.0 91.4

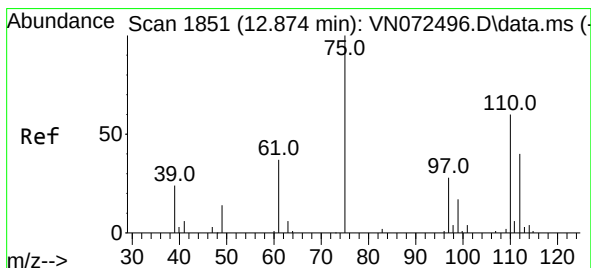
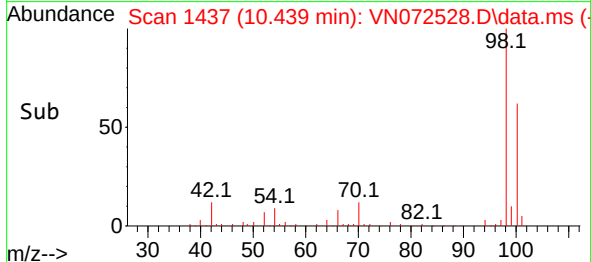
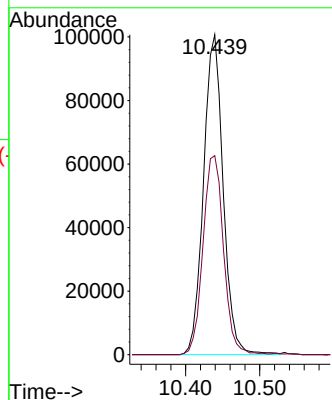
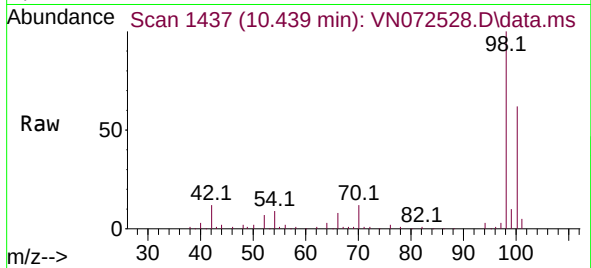




#63
Toluene-d8
Concen: 30.859 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

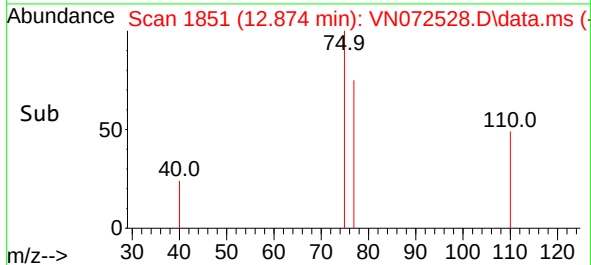
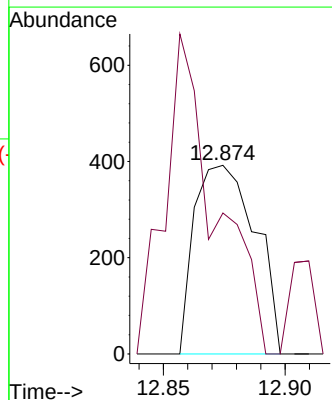
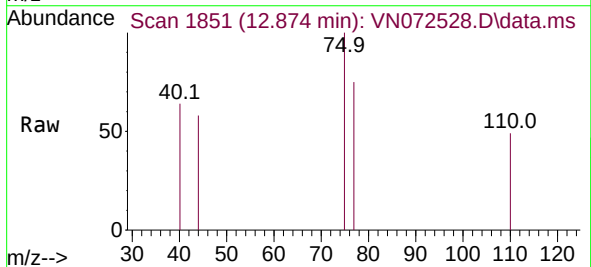
Instrument :
MSVOA_N
ClientSampleId :
VN0517WBL01

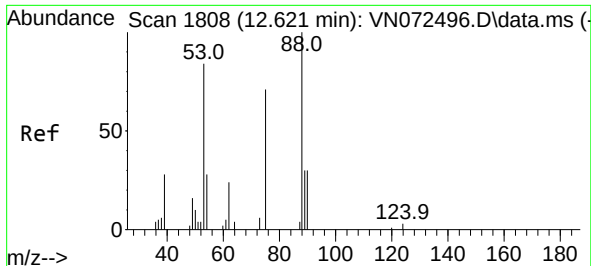
Tgt Ion: 98 Resp: 185684
Ion Ratio Lower Upper
98 100
100 64.8 50.6 76.0



#72
1,2,3-Trichloropropane
Concen: 0.287 ug/l
RT: 12.874 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion: 75 Resp: 684
Ion Ratio Lower Upper
75 100
77 39.0 0.0 378.0

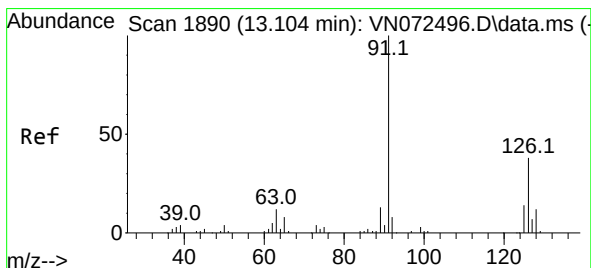
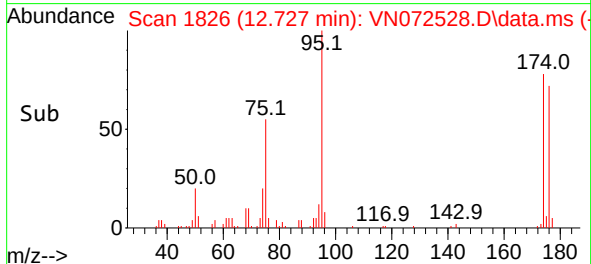
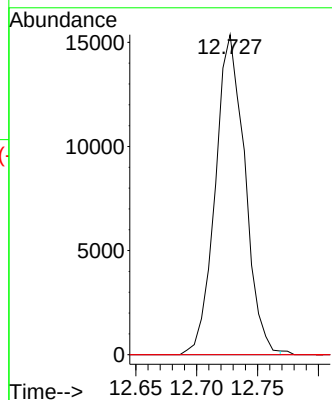
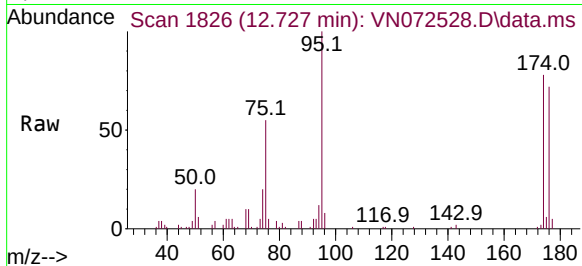




#77
t-1,4-Dichloro-2-butene
Concen: 32.980 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

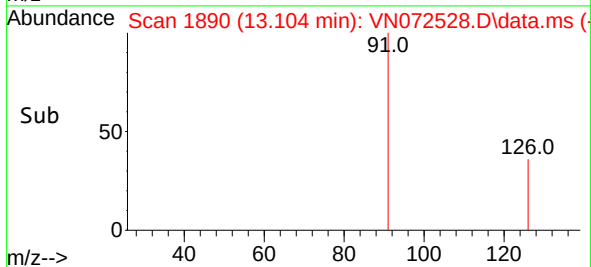
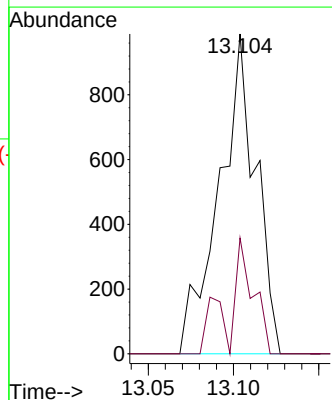
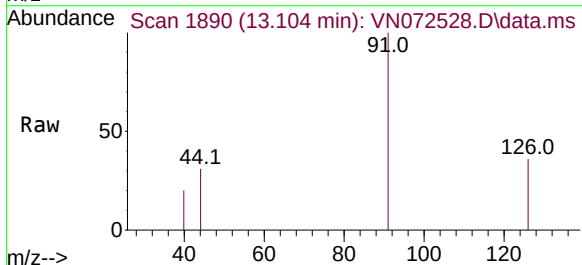
Instrument :
MSVOA_N
ClientSampleId :
VN0517WBL01

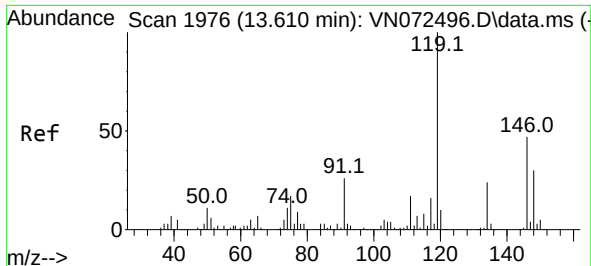
Tgt Ion: 75 Resp: 25998
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



#78
4-Chlorotoluene
Concen: 0.267 ug/l
RT: 13.104 min Scan# 1890
Delta R.T. 0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion: 91 Resp: 1474
Ion Ratio Lower Upper
91 100
126 17.2 0.0 70.6

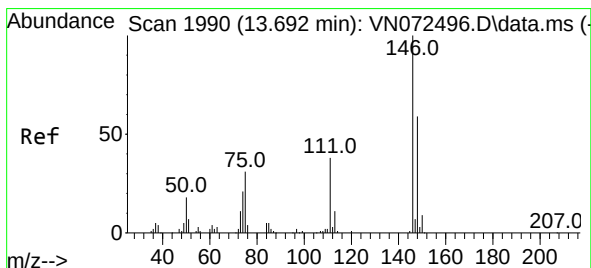
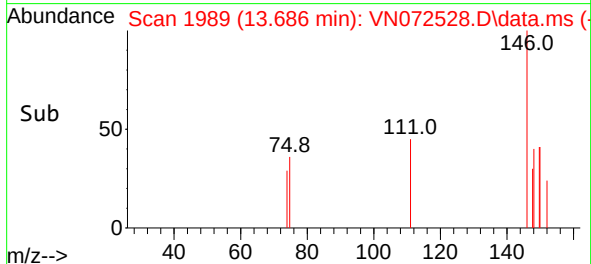
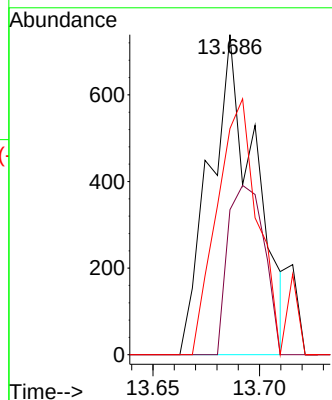
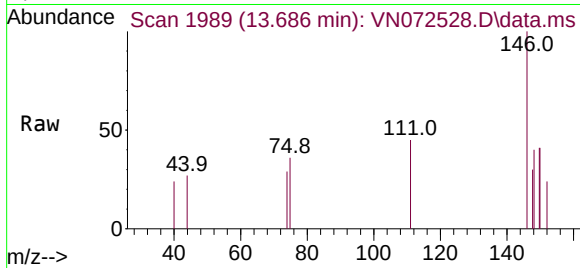




#83
 1,3-Dichlorobenzene
 Concen: 0.321 ug/l
 RT: 13.686 min Scan# 1989
 Delta R.T. 0.077 min
 Lab File: VN072528.D
 Acq: 17 May 2022 14:00

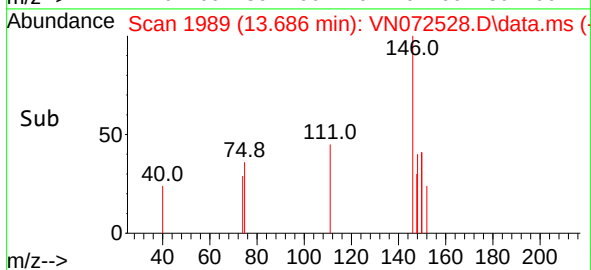
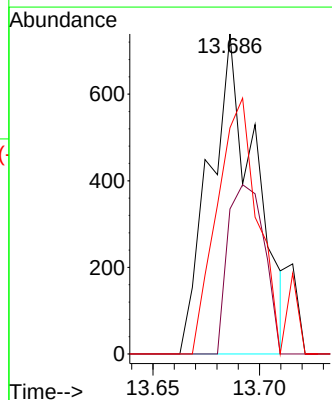
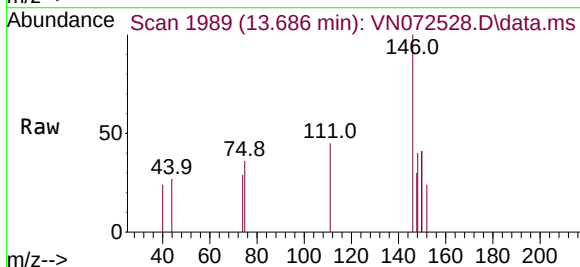
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0517WBL01

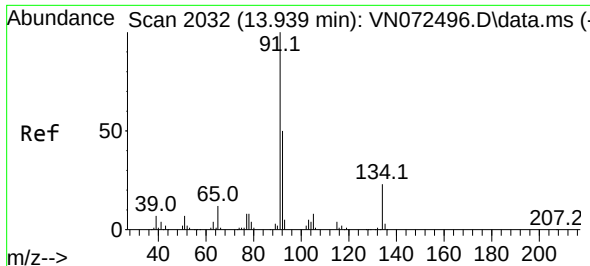
Tgt Ion:146 Resp: 1100
 Ion Ratio Lower Upper
 146 100
 111 42.2 20.8 62.2
 148 70.9 31.4 94.3



#84
 1,4-Dichlorobenzene
 Concen: 0.330 ug/l
 RT: 13.686 min Scan# 1989
 Delta R.T. -0.006 min
 Lab File: VN072528.D
 Acq: 17 May 2022 14:00

Tgt Ion:146 Resp: 1100
 Ion Ratio Lower Upper
 146 100
 111 42.2 19.5 58.5
 148 70.9 31.1 93.5

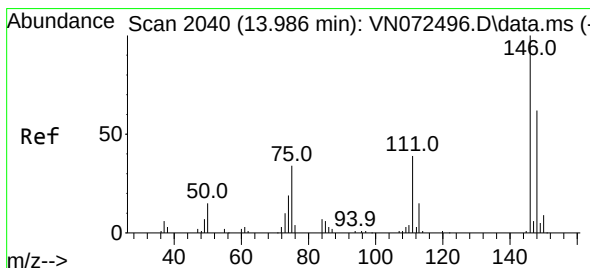
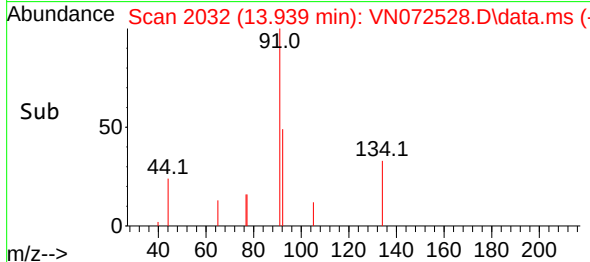
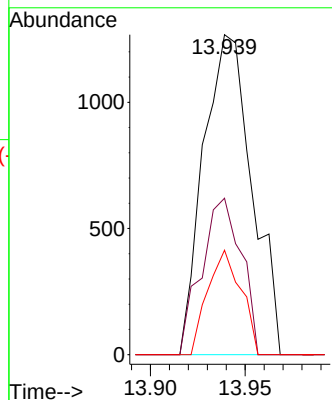
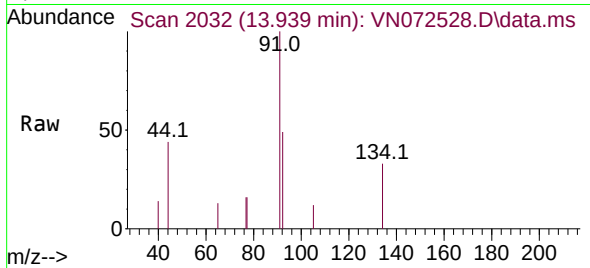




#85
n-Butylbenzene
Concen: 0.443 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. 0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

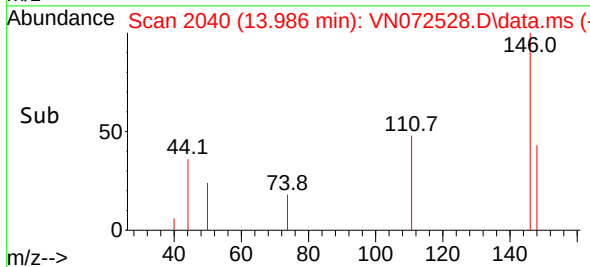
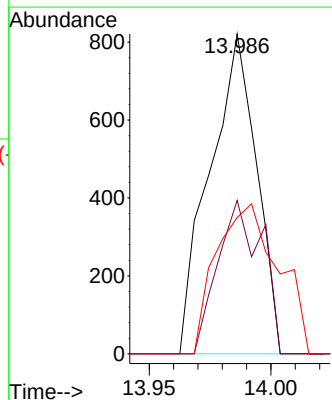
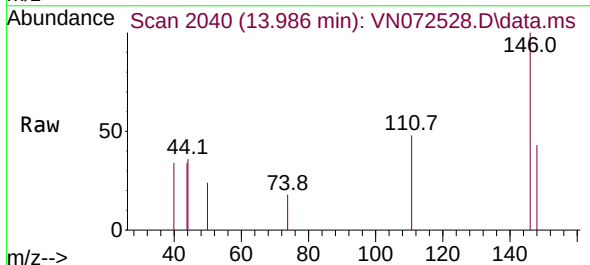
Instrument :
MSVOA_N
ClientSampleId :
VN0517WBL01

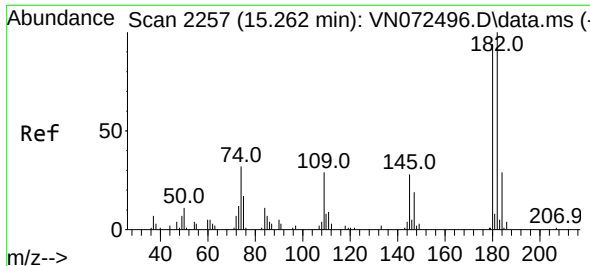
Tgt Ion: 91	Resp:	2256
Ion	Ratio	Lower Upper
91	100	
92	40.3	0.0 100.6
134	22.6	0.0 50.2



#87
1,2-Dichlorobenzene
Concen: 0.328 ug/l
RT: 13.986 min Scan# 2040
Delta R.T. 0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion: 146	Resp:	1096
Ion	Ratio	Lower Upper
146	100	
111	45.3	21.4 64.2
148	55.3	32.5 97.4

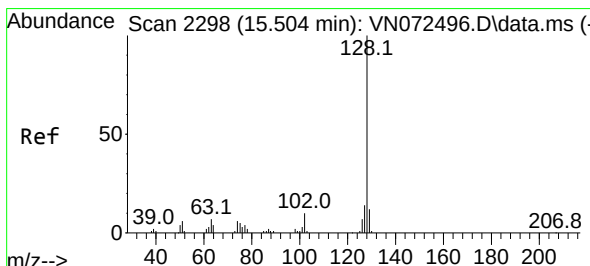
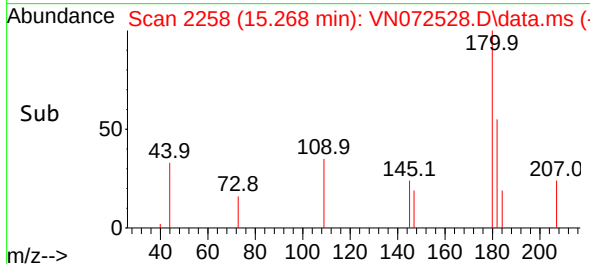
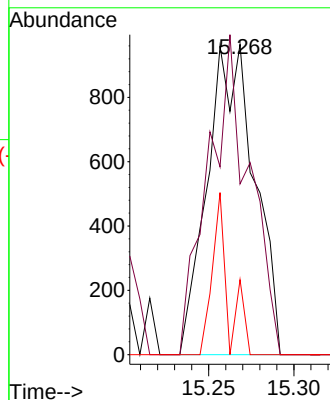
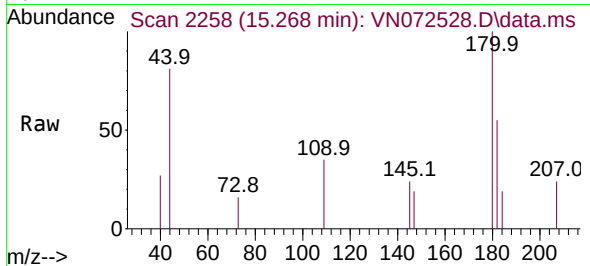




#89
1,2,4-Trichlorobenzene
Concen: 1.226 ug/l
RT: 15.268 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

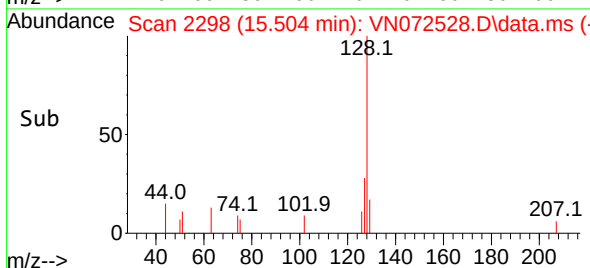
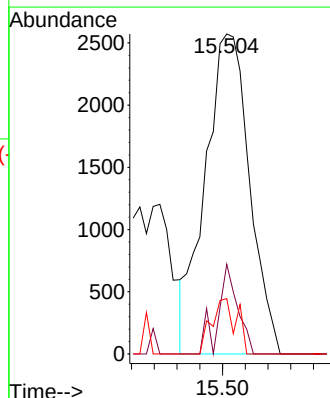
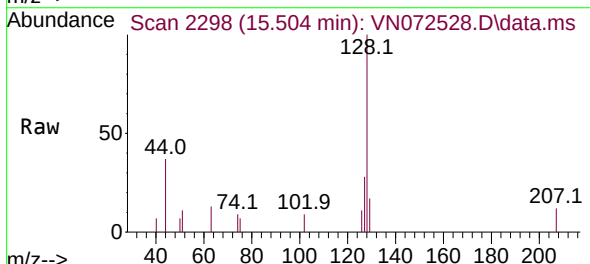
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MSVOA_N
ClientSampleId :
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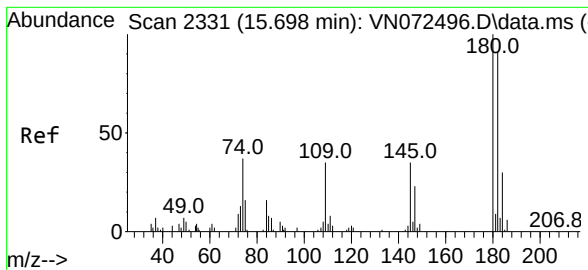
Tgt Ion:180 Resp: 1856
Ion Ratio Lower Upper
180 100
182 66.3 77.7 116.5#
145 4.4 26.6 39.8#



#91
Naphthalene
Concen: 8.849 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. -0.000 min
Lab File: VN072528.D
Acq: 17 May 2022 14:00

Tgt Ion:128 Resp: 6987
Ion Ratio Lower Upper
128 100
127 10.6 10.7 16.1#
129 7.7 9.0 13.6#





#92
 1,2,3-Trichlorobenzene
 Concen: 1.204 ug/l
 RT: 15.268 min Scan# 21
 Delta R.T. -0.429 min
 Lab File: VN072528.D
 Acq: 17 May 2022 14:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0517WBL01

Tgt Ion:180	Resp:	1856
Ion Ratio	Lower	Upper
180	100	
182	66.3	0.0 190.0
145	4.4	0.0 67.8

