

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092721\
 Data File : VN068710.D
 Acq On : 27 Sep 2021 20:09
 Operator : JC/MD
 Sample : M3895-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 210922099-02-VOARE

Quant Time: Sep 28 05:30:02 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 27 14:37:57 2021
 Response via : Initial Calibration

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

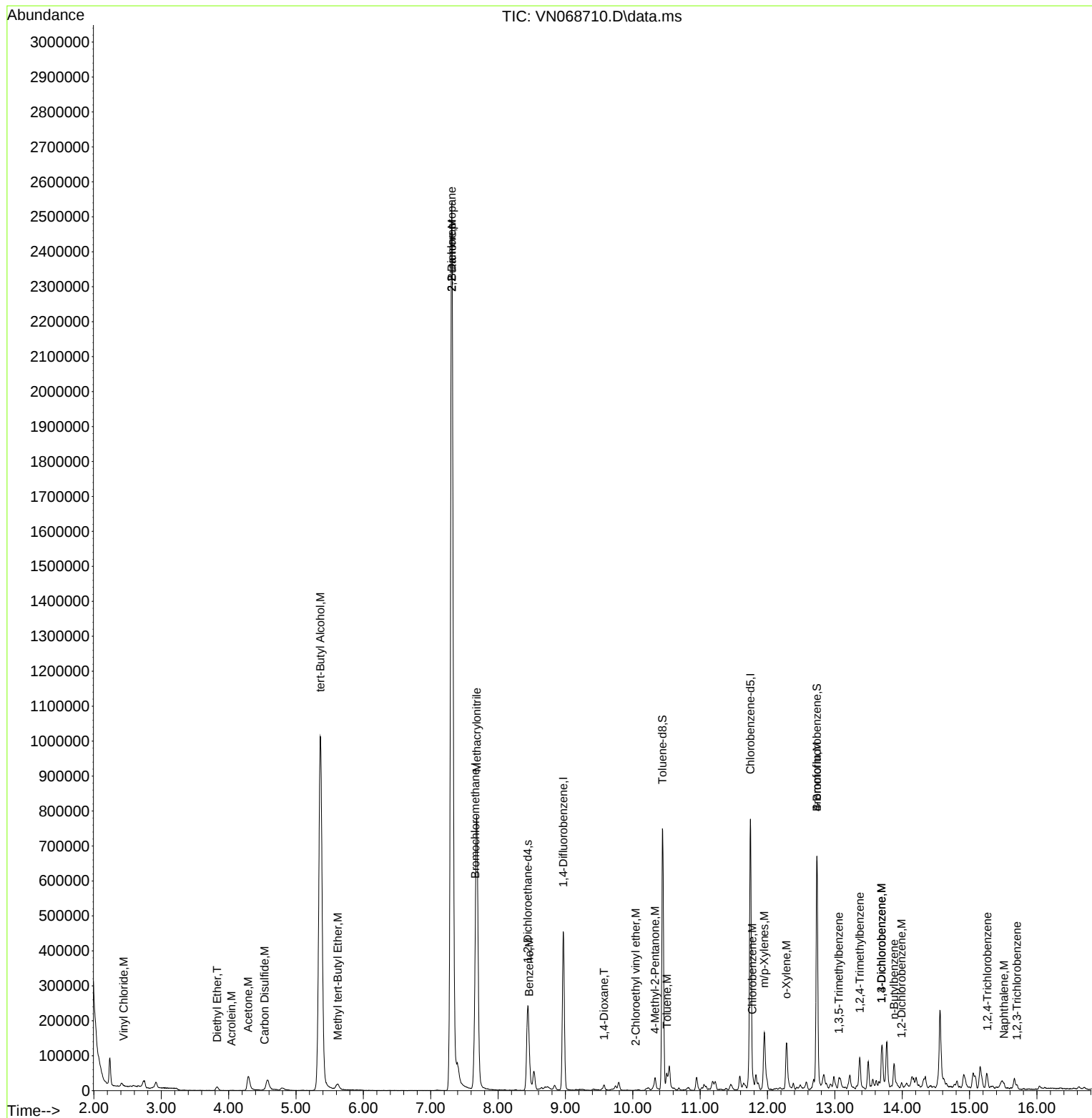
Internal Standards						
1) Bromochloromethane	7.662	128	69651	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	388138	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	416363	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	181343	28.204	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.000%
60) 4-Bromofluorobenzene	12.733	95	228066	30.640	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	102.133%
63) Toluene-d8	10.440	98	500085	25.719	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	85.733%#
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.443	62	1611	0.252	ug/l	95
8) Diethyl Ether	3.829	74	2932	1.097	ug/l #	1
13) Acrolein	4.041	56	259	1.021	ug/l #	43
15) Acetone	4.291	58	13044	19.569	ug/l	98
16) Carbon Disulfide	4.532	76	5214	0.484	ug/l	98
23) tert-Butyl Alcohol	5.361	59	1917227	2378.323	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	20164	1.347	ug/l #	75
30) 2-Butanone	7.313	43	137421	38.412	ug/l #	80
31) 2,2-Dichloropropane	7.310	77	165324	21.773	ug/l #	53
34) Benzene	8.461	78	65500	3.244	ug/l #	66
35) Methacrylonitrile	7.683	41	335873	92.352	ug/l #	51
45) 1,4-Dioxane	9.574	88	8006	85.729	ug/l #	88
55) 2-Chloroethyl vinyl ether	10.043	63	548	0.226	ug/l #	45
56) Bromoform	12.733	173	1223	0.273	ug/l #	1
58) 4-Methyl-2-Pentanone	10.330	43	25818	2.850	ug/l	92
62) Toluene	10.505	91	28106	1.057	ug/l	98
64) Chlorobenzene	11.773	112	8386	0.547	ug/l	92
67) m/p-Xylenes	11.953	106	53255	4.582	ug/l	100
68) o-Xylene	12.280	106	35260	2.929	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	14076	0.577	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	46114	2.075	ug/l #	81
83) 1,3-Dichlorobenzene	13.694	146	33169	2.839	ug/l	98
84) 1,4-Dichlorobenzene	13.694	146	33169	3.087	ug/l	97
85) n-Butylbenzene	13.881	91	5673	0.292	ug/l	52
87) 1,2-Dichlorobenzene	13.991	146	2766	0.262	ug/l	95
89) 1,2,4-Trichlorobenzene	15.262	180	2197	0.415	ug/l	89
91) Naphthalene	15.512	128	14112	1.026	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	2861	0.568	ug/l	96

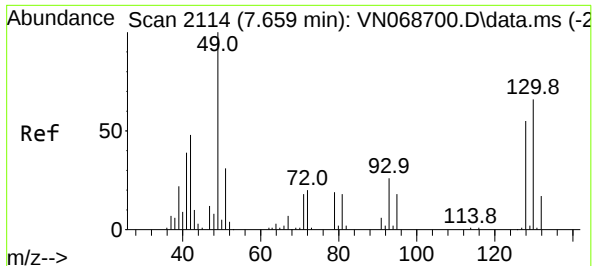
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092721\
Data File : VN068710.D
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092721W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Sep 27 14:37:57 2021
Response via : Initial Calibration

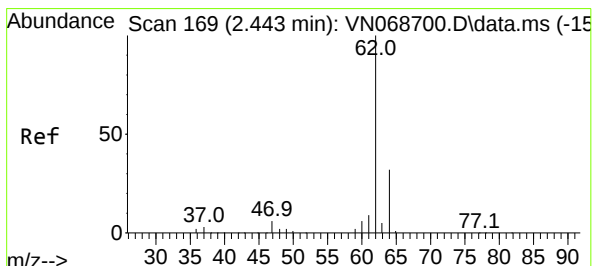
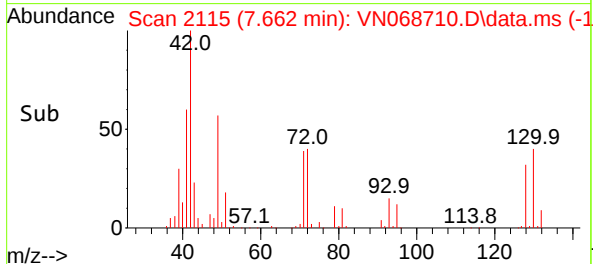
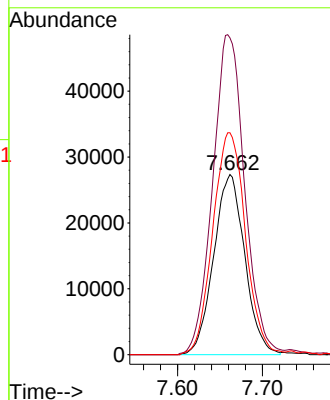
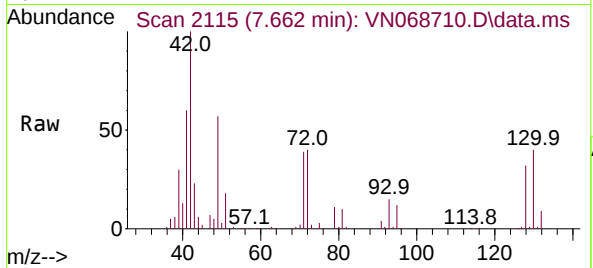




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

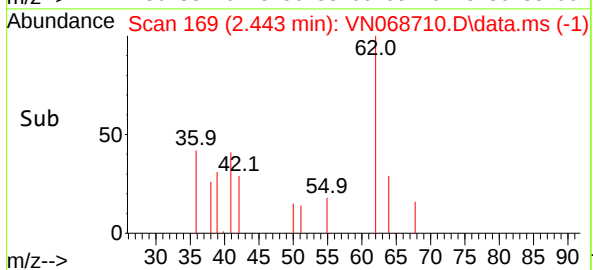
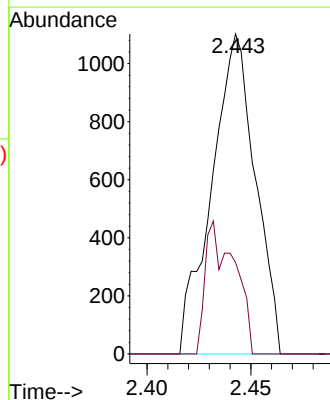
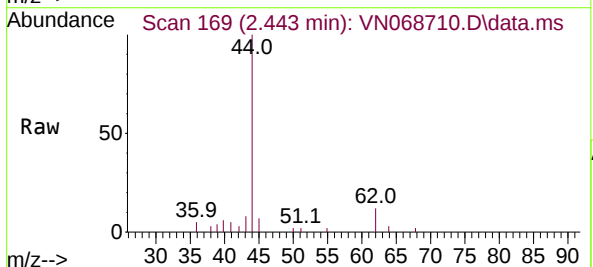
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOARE

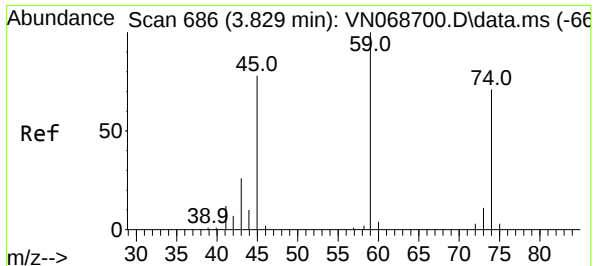
Tgt Ion:128 Resp: 69651
Ion Ratio Lower Upper
128 100
49 182.5 0.0 450.0
130 129.2 0.0 319.5



#4
Vinyl Chloride
Concen: 0.252 ug/l
RT: 2.443 min Scan# 169
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion: 62 Resp: 1611
Ion Ratio Lower Upper
62 100
64 28.6 25.2 37.8





#8

Diethyl Ether

Concen: 1.097 ug/l

RT: 3.829 min Scan# 686

Delta R.T. -0.000 min

Lab File: VN068710.D

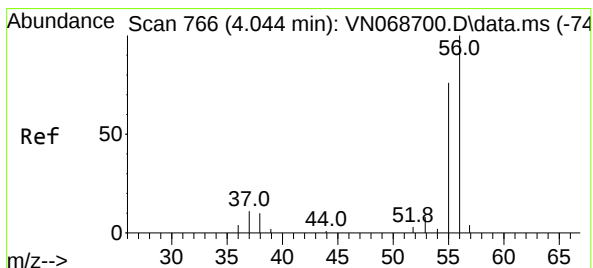
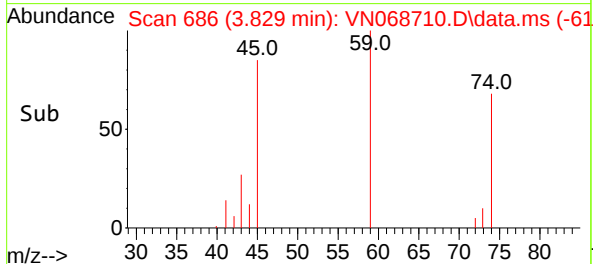
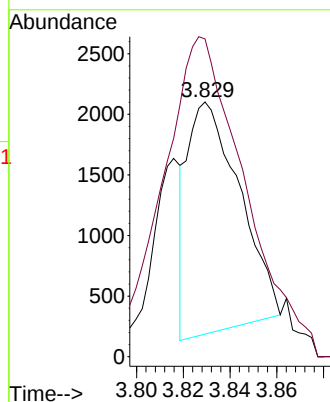
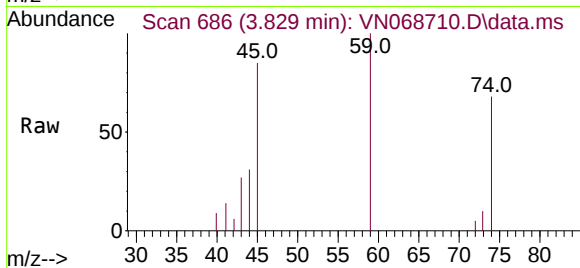
Acq: 27 Sep 2021 20:09

Tgt Ion: 74 Resp: 2932

Ion Ratio Lower Upper

74 100

45 220.9 21.2 191.0#



#13

Acrolein

Concen: 1.021 ug/l

RT: 4.041 min Scan# 765

Delta R.T. -0.003 min

Lab File: VN068710.D

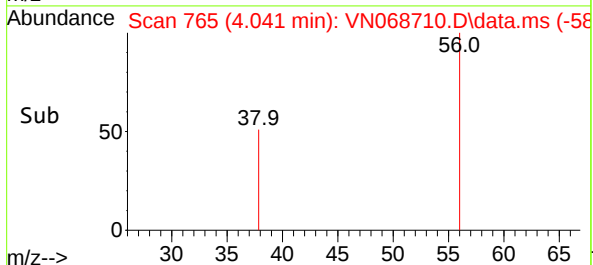
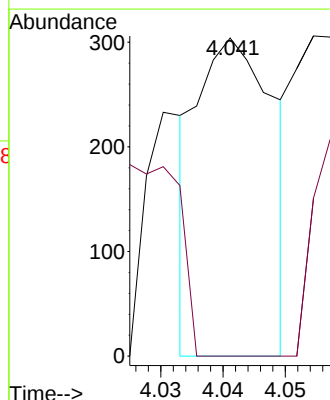
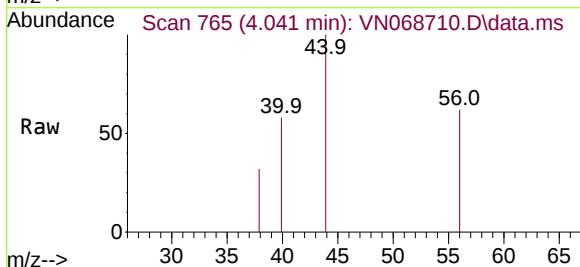
Acq: 27 Sep 2021 20:09

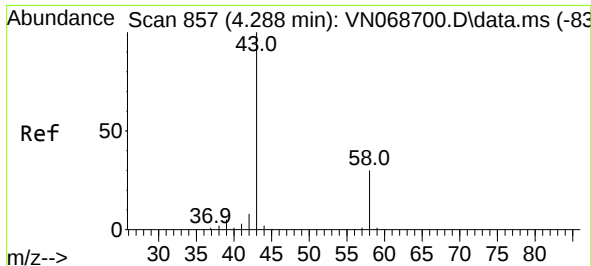
Tgt Ion: 56 Resp: 259

Ion Ratio Lower Upper

56 100

55 0.0 25.4 38.0#

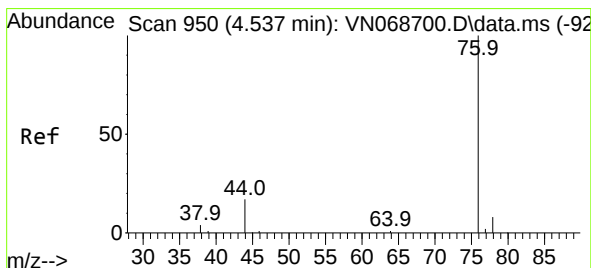
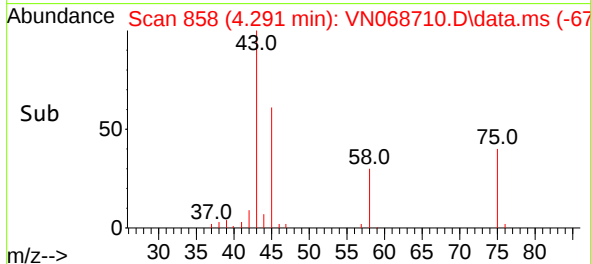
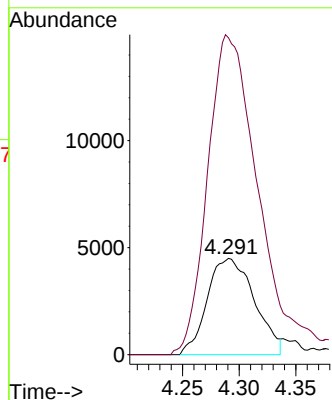
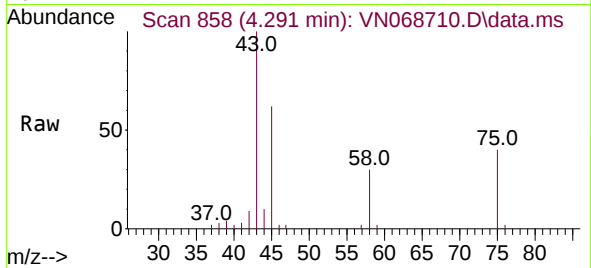




#15
Acetone
Concen: 19.569 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

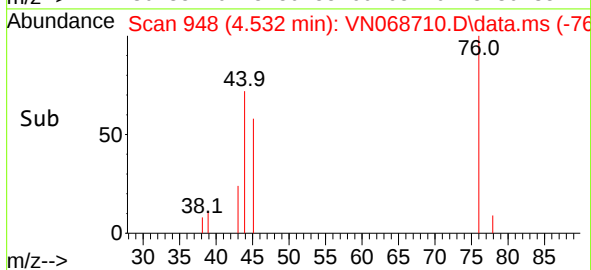
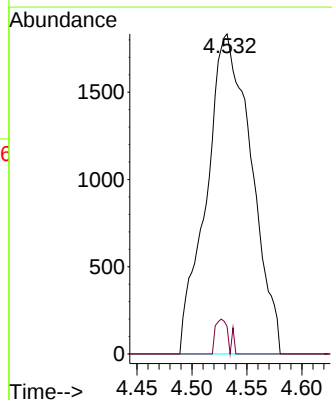
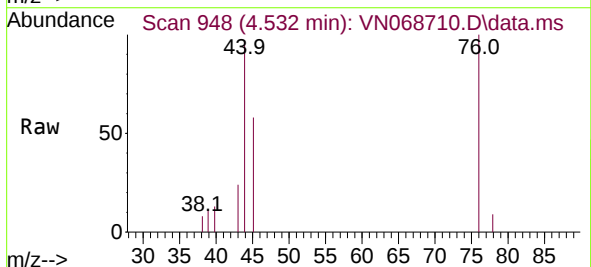
Instrument :
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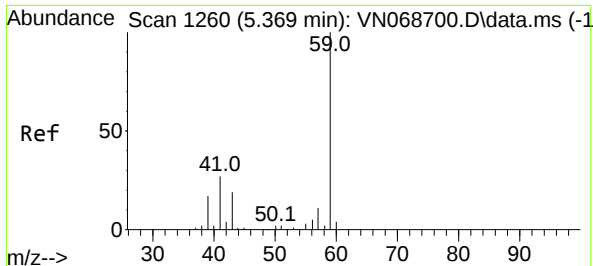
Tgt Ion: 58 Resp: 13044
Ion Ratio Lower Upper
58 100
43 321.6 261.0 391.4



#16
Carbon Disulfide
Concen: 0.484 ug/l
RT: 4.532 min Scan# 948
Delta R.T. -0.005 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion: 76 Resp: 5214
Ion Ratio Lower Upper
76 100
78 8.6 7.5 11.3



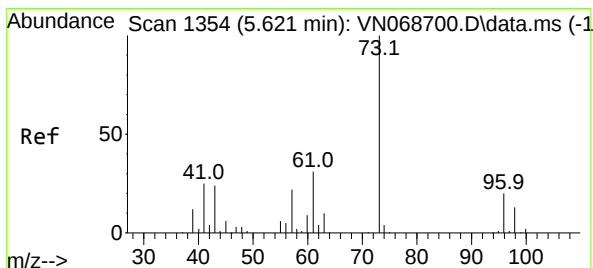
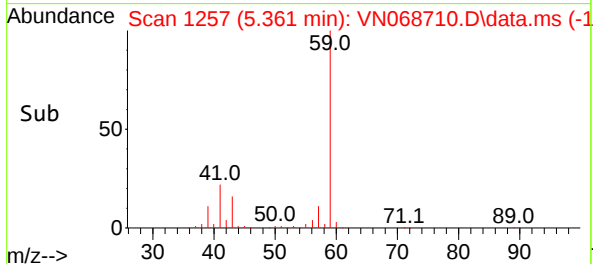
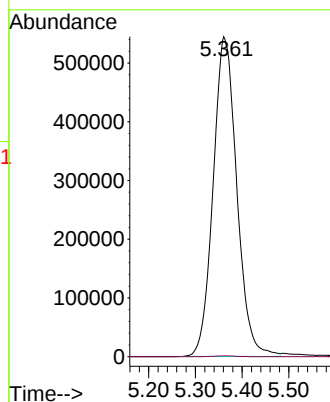
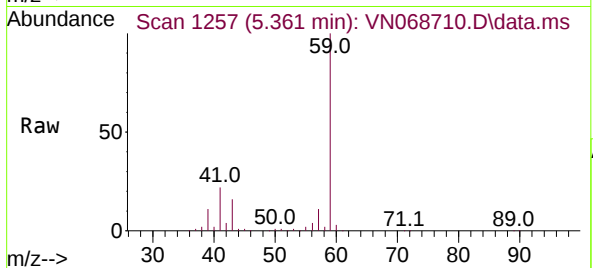


#23

tert-Butyl Alcohol
Concen: 2378.323 ug/l
RT: 5.361 min Scan# 1257
Delta R.T. -0.008 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOARE

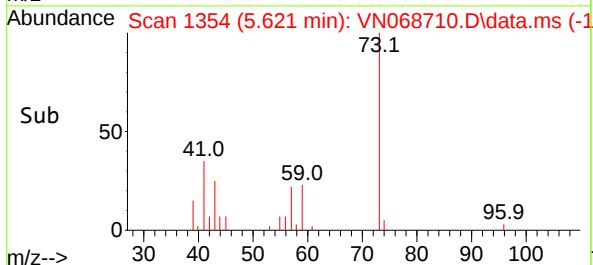
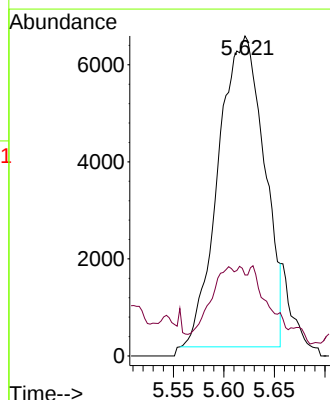
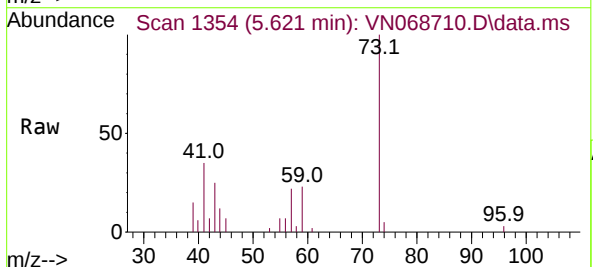
Tgt Ion: 59 Resp: 1917227
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0#

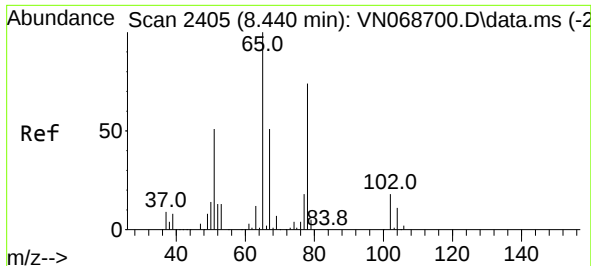


#24

Methyl tert-Butyl Ether
Concen: 1.347 ug/l
RT: 5.621 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion: 73 Resp: 20164
Ion Ratio Lower Upper
73 100
43 10.3 17.7 26.5#



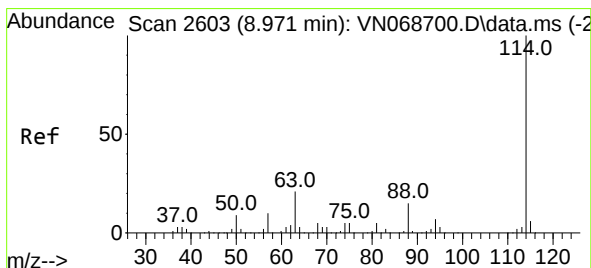
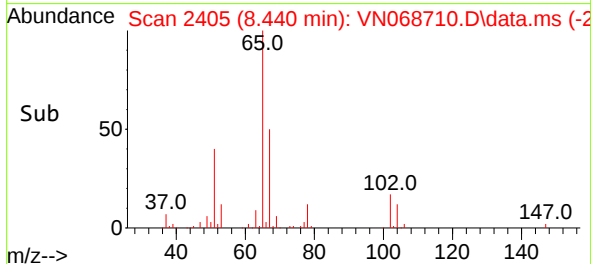
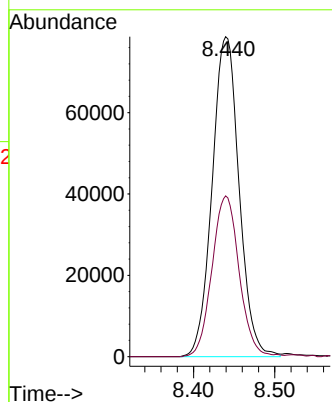
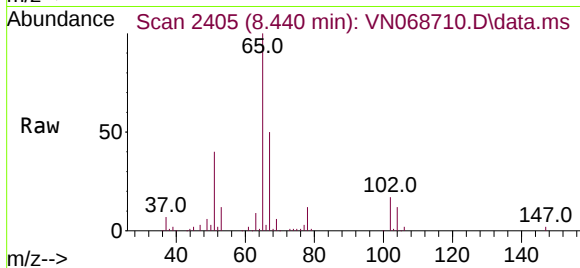


#27

1,2-Dichloroethane-d4
Concen: 28.204 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Instrument :
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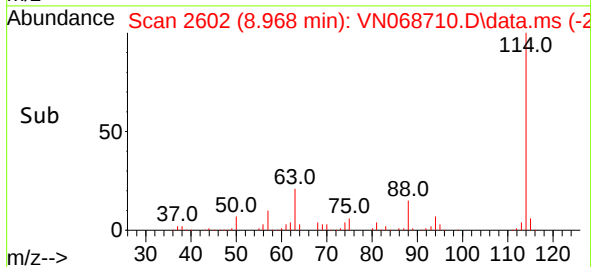
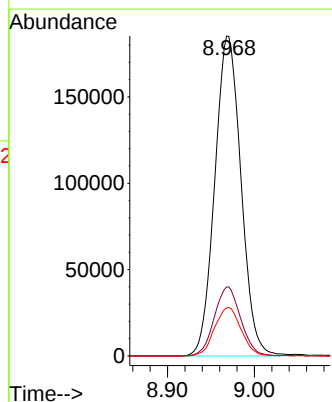
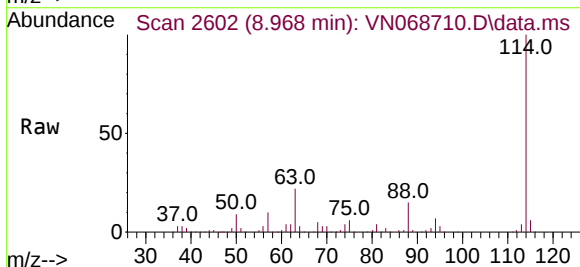
Tgt Ion: 65 Resp: 181343
Ion Ratio Lower Upper
65 100
67 50.5 41.0 61.6

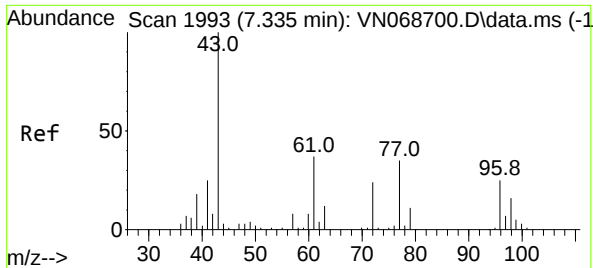


#28

1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion: 114 Resp: 388138
Ion Ratio Lower Upper
114 100
63 21.8 17.1 25.7
88 15.3 12.2 18.4

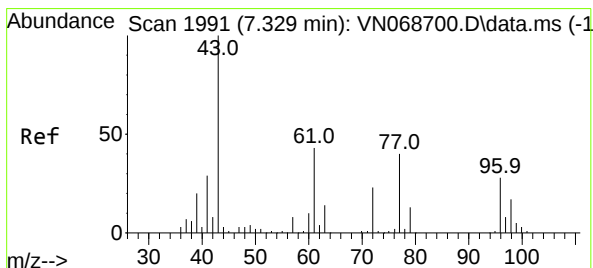
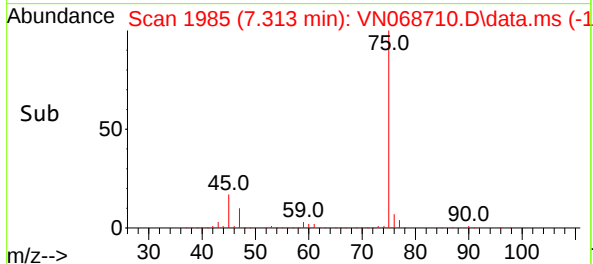
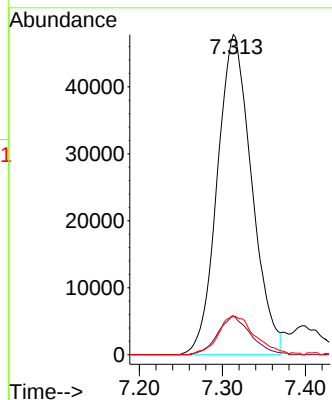
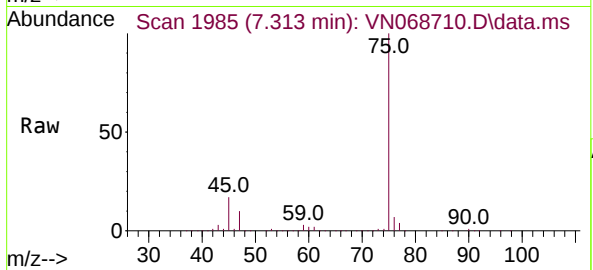




#30
2-Butanone
Concen: 38.412 ug/l
RT: 7.313 min Scan# 1985
Delta R.T. -0.021 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

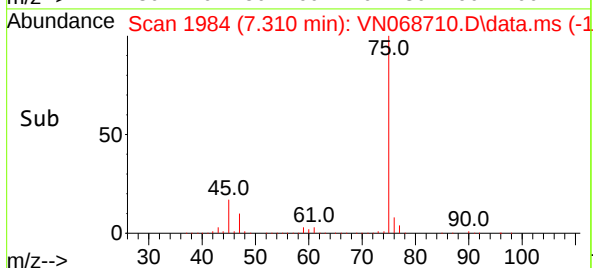
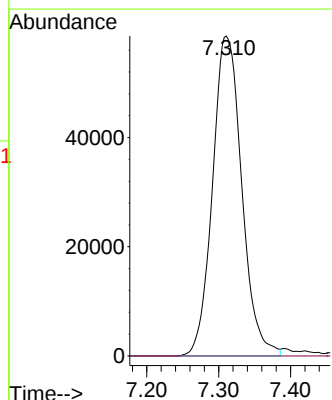
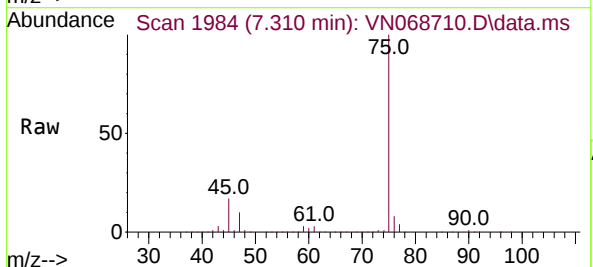
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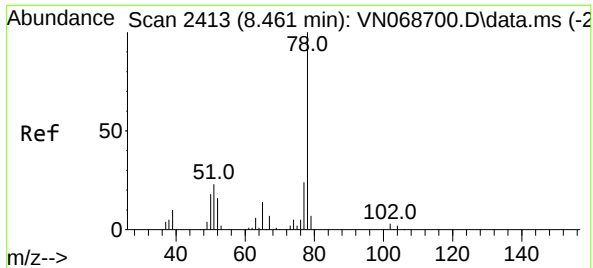
Tgt Ion: 43 Resp: 137421
Ion Ratio Lower Upper
43 100
57 11.6 6.4 9.6#
72 12.8 19.6 29.4#



#31
2,2-Dichloropropane
Concen: 21.773 ug/l
RT: 7.310 min Scan# 1984
Delta R.T. -0.019 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion: 77 Resp: 165324
Ion Ratio Lower Upper
77 100
97 0.0 17.9 26.9#

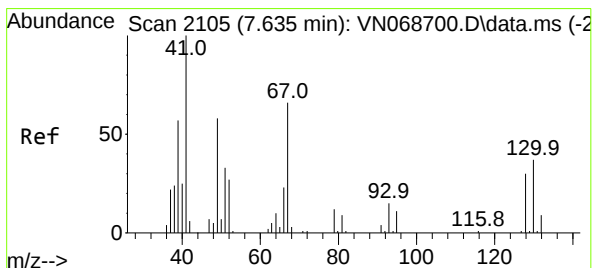
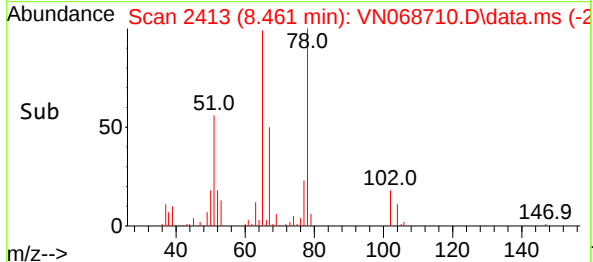
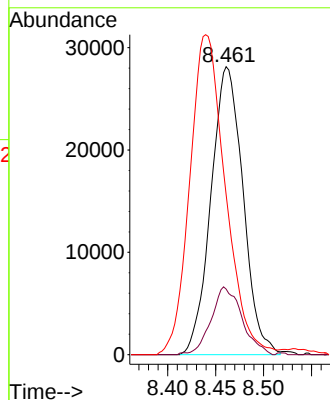
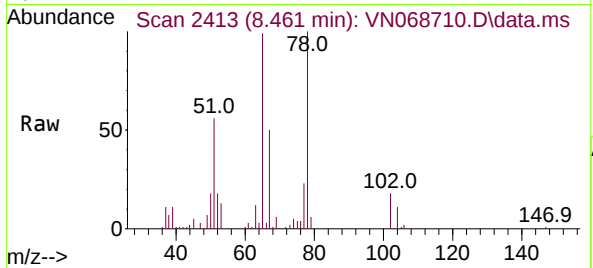




#34
Benzene
Concen: 3.244 ug/l
RT: 8.461 min Scan# 2413
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

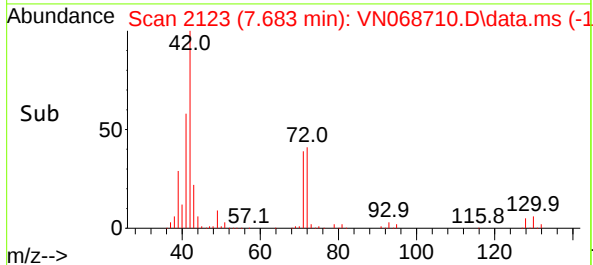
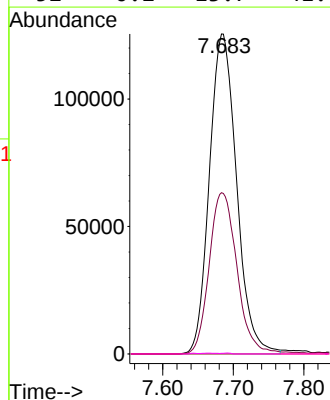
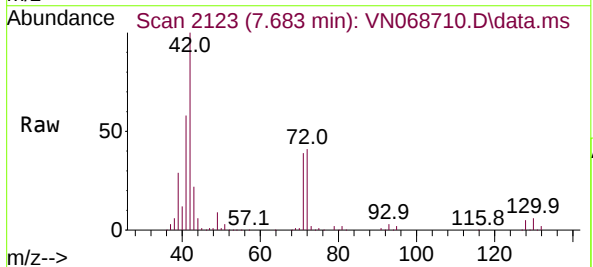
Instrument :
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ClientSampleId :
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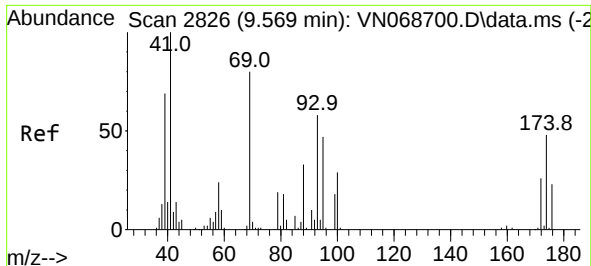
Tgt Ion: 78 Resp: 65500
Ion Ratio Lower Upper
78 100
77 22.2 19.1 28.7
51 53.9 17.2 25.8#



#35
Methacrylonitrile
Concen: 92.352 ug/l
RT: 7.683 min Scan# 2123
Delta R.T. 0.048 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion: 41 Resp: 335873
Ion Ratio Lower Upper
41 100
39 50.4 28.2 84.7
67 0.0 32.5 97.4#
52 0.2 13.7 41.0#

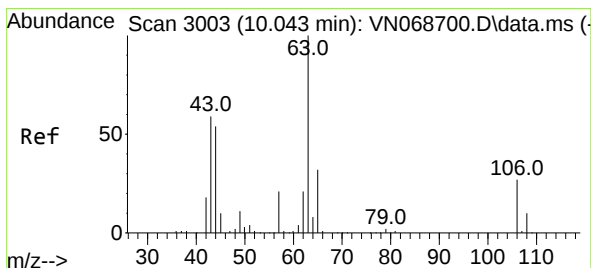
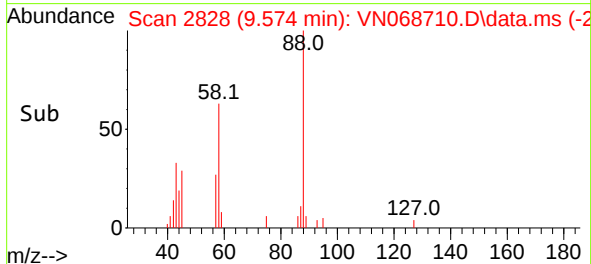
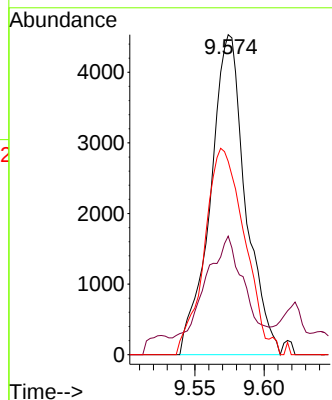
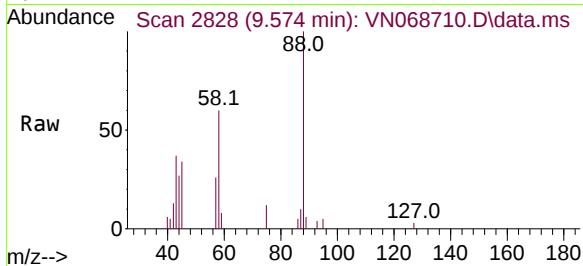




#45
1,4-Dioxane
Concen: 85.729 ug/l
RT: 9.574 min Scan# 2828
Delta R.T. 0.005 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

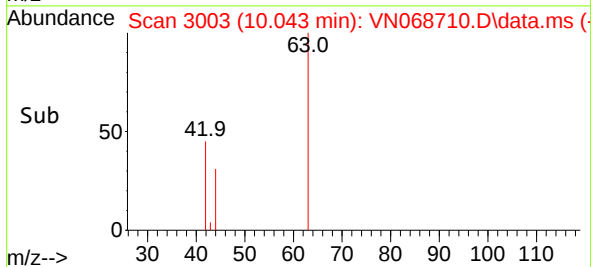
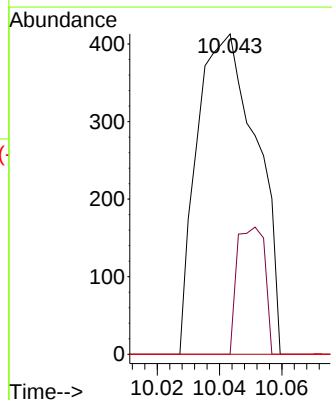
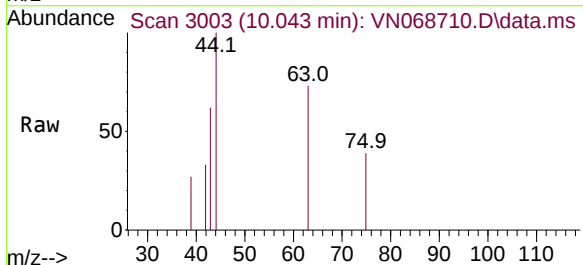
Instrument :
MSVOA_N
ClientSampleId :
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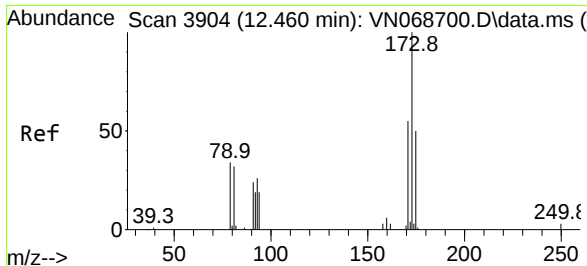
Tgt Ion: 88 Resp: 8006
Ion Ratio Lower Upper
88 100
43 19.8 27.3 40.9#
58 72.9 55.0 82.6



#55
2-Chloroethyl vinyl ether
Concen: 0.226 ug/l
RT: 10.043 min Scan# 3003
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion: 63 Resp: 548
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.0#
106 0.0 21.3 31.9#

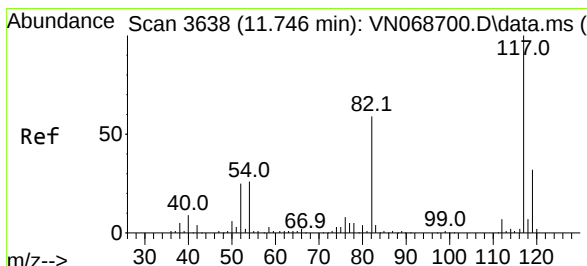
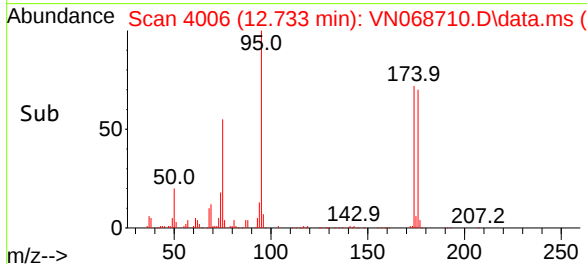
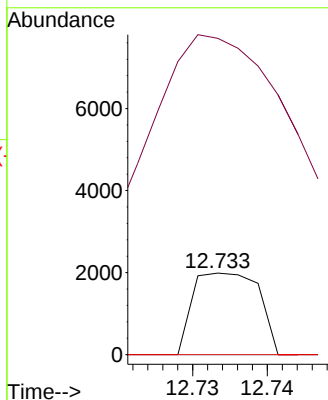
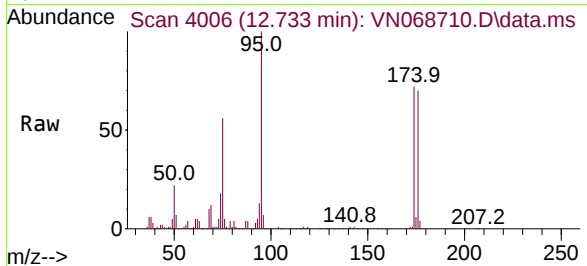




#56
Bromoform
Concen: 0.273 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.274 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

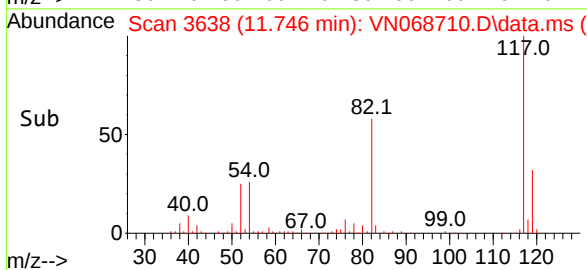
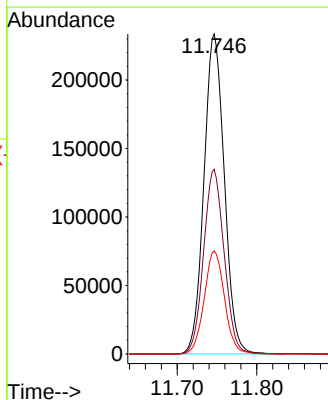
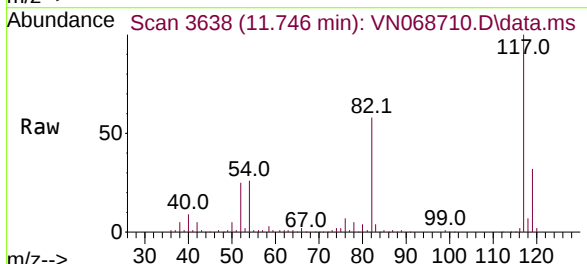
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MSVOA_N
ClientSampleId :
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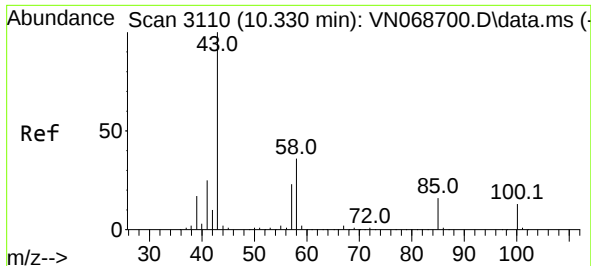
Tgt Ion:173 Resp: 1223
Ion Ratio Lower Upper
173 100
175 1091.1 39.4 59.0#
254 0.0 0.0 0.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion:117 Resp: 416363
Ion Ratio Lower Upper
117 100
82 58.3 44.6 66.8
119 32.1 25.7 38.5

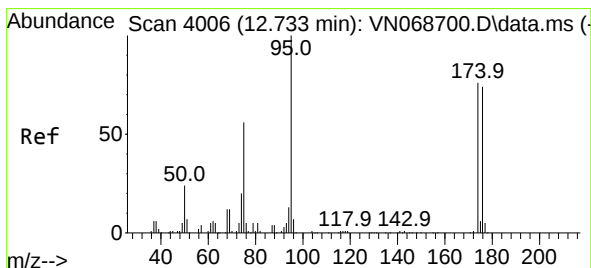
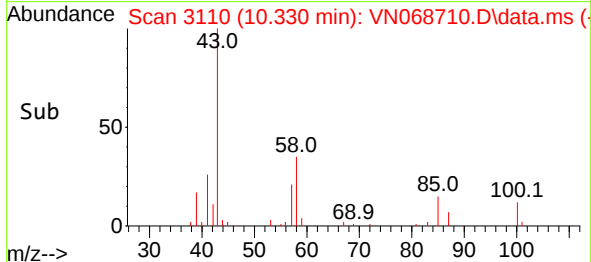
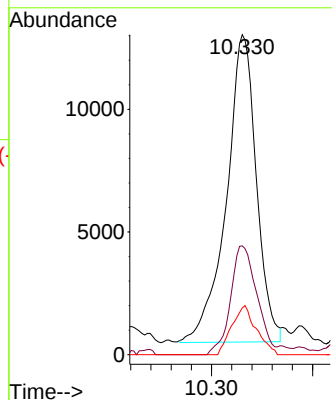
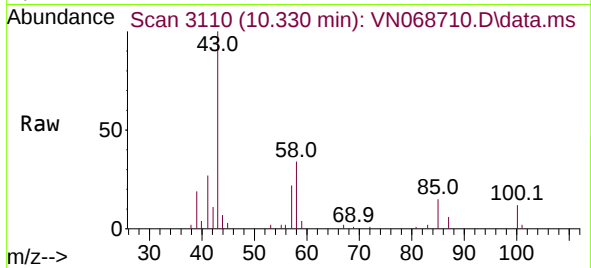




#58
4-Methyl-2-Pentanone
Concen: 2.850 ug/l
RT: 10.330 min Scan# 3110
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

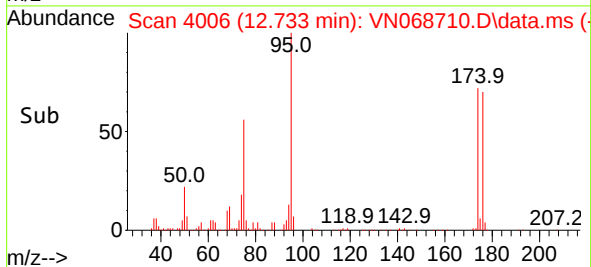
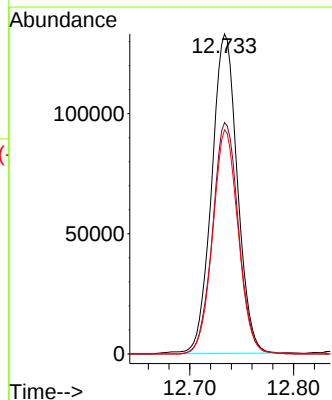
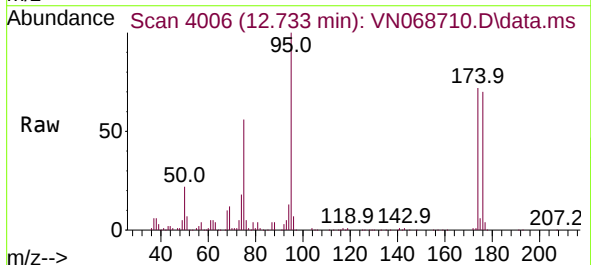
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOARE

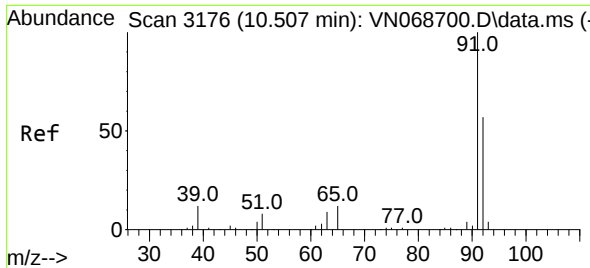
Tgt Ion:	43	Resp:	25818
Ion	Ratio	Lower	Upper
43	100		
58	31.0	28.5	42.7
85	13.1	12.8	19.2



#60
4-Bromofluorobenzene
Concen: 30.640 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion:	95	Resp:	228066
Ion	Ratio	Lower	Upper
95	100		
174	73.4	63.0	94.6
176	69.7	60.6	90.8

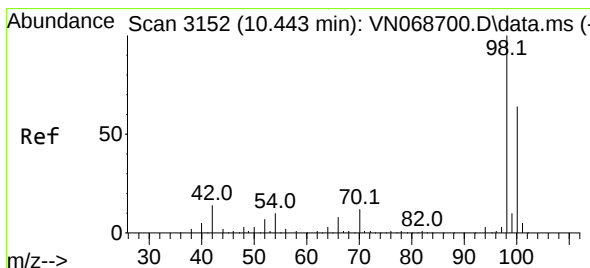
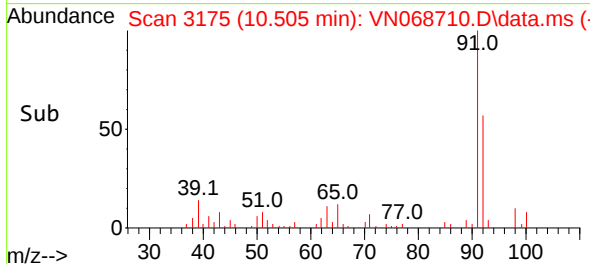
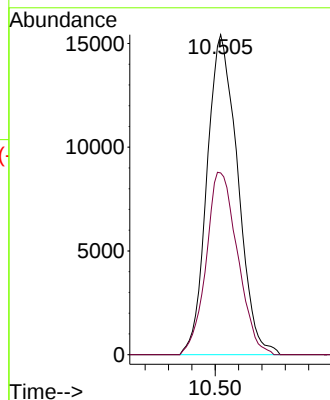
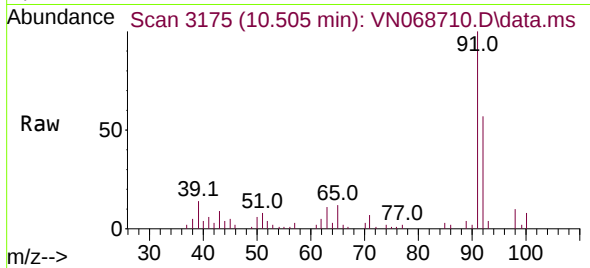




#62
Toluene
Concen: 1.057 ug/l
RT: 10.505 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

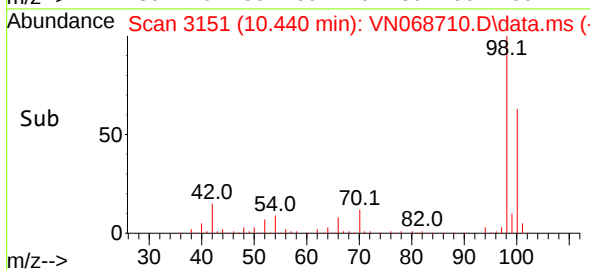
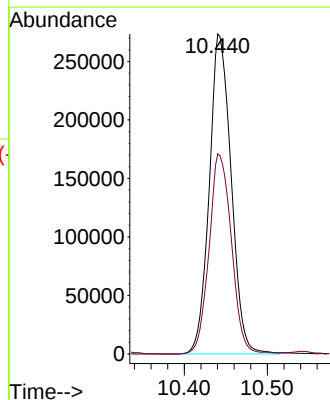
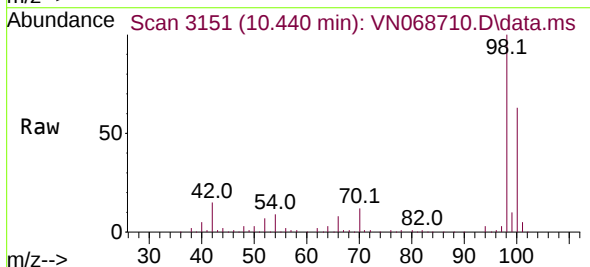
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOARE

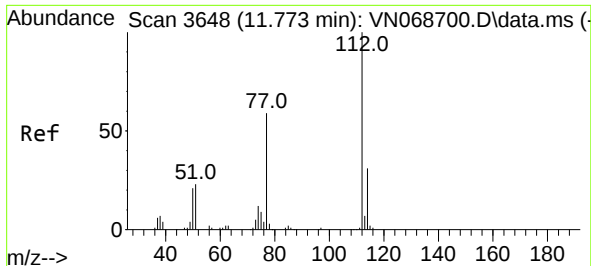
Tgt Ion: 91 Resp: 28106
Ion Ratio Lower Upper
91 100
92 58.4 45.7 68.5



#63
Toluene-d8
Concen: 25.719 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. -0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion: 98 Resp: 500085
Ion Ratio Lower Upper
98 100
100 63.7 51.4 77.2

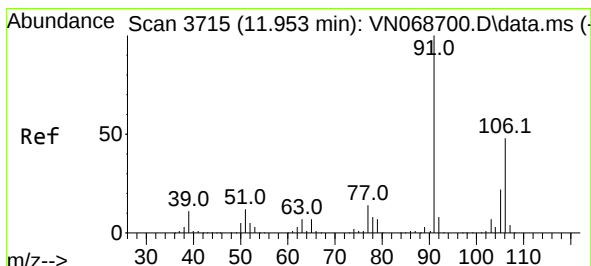
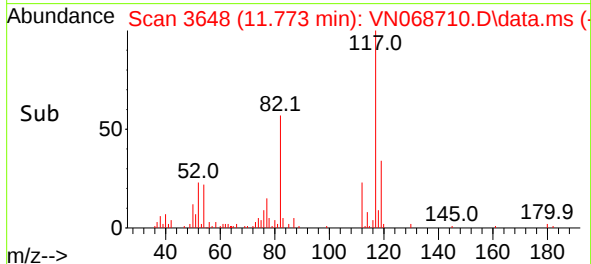
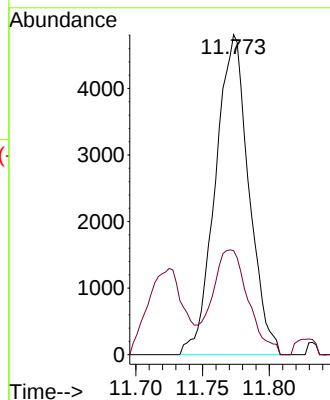
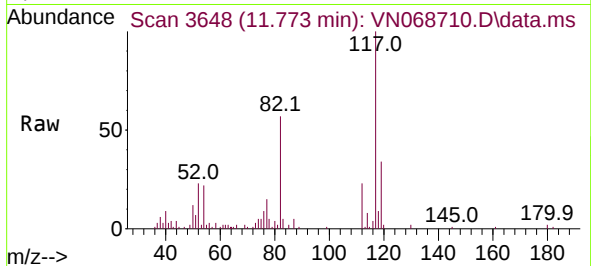




#64
Chlorobenzene
Concen: 0.547 ug/l
RT: 11.773 min Scan# 3648
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

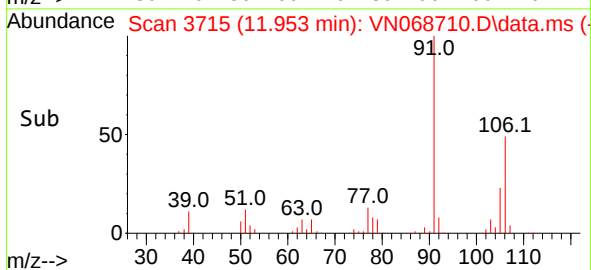
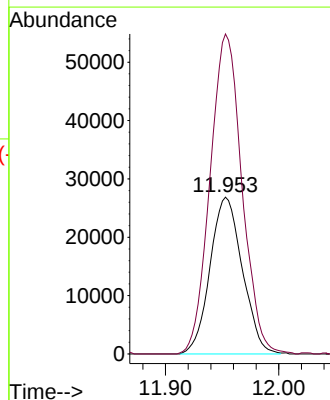
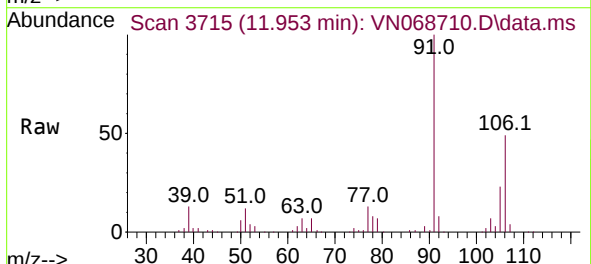
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOARE

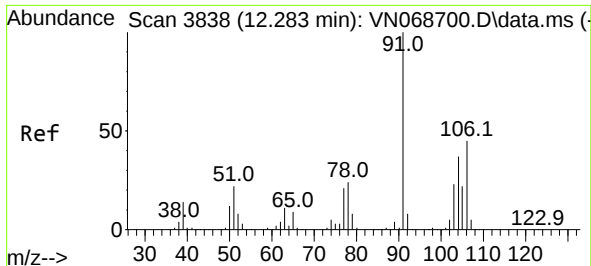
Tgt Ion:112 Resp: 8386
Ion Ratio Lower Upper
112 100
114 35.8 25.2 37.8



#67
m/p-Xylenes
Concen: 4.582 ug/l
RT: 11.953 min Scan# 3715
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion:106 Resp: 53255
Ion Ratio Lower Upper
106 100
91 201.6 161.8 242.6

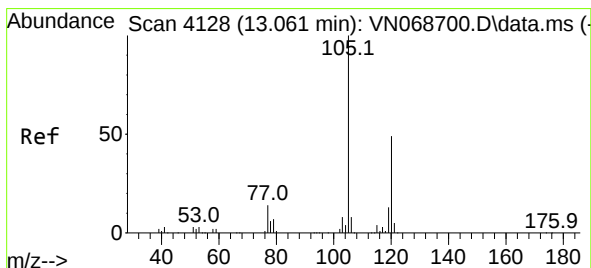
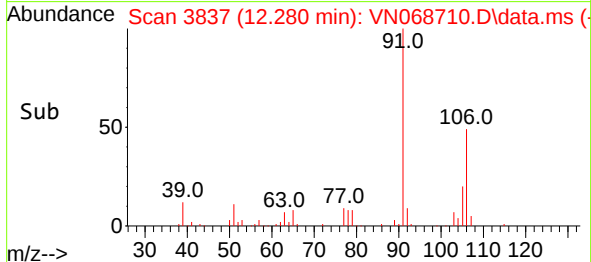
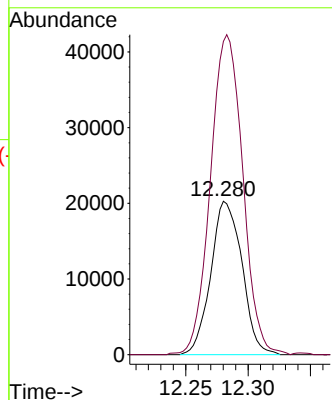
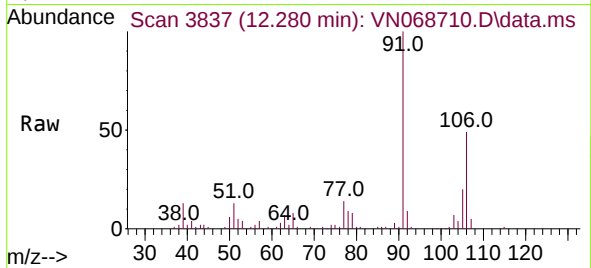




#68
o-Xylene
Concen: 2.929 ug/l
RT: 12.280 min Scan# 3837
Delta R.T. -0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

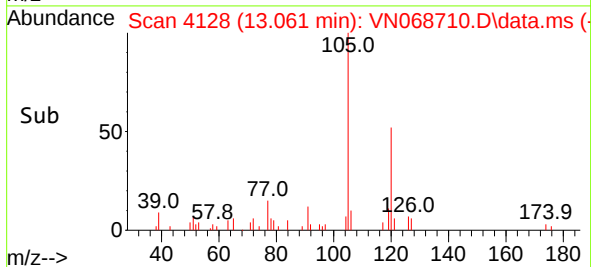
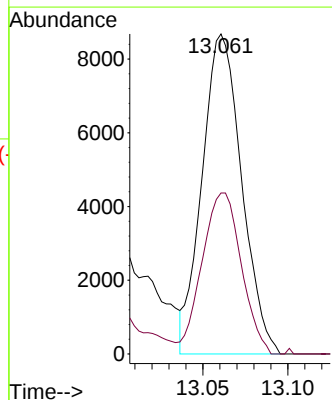
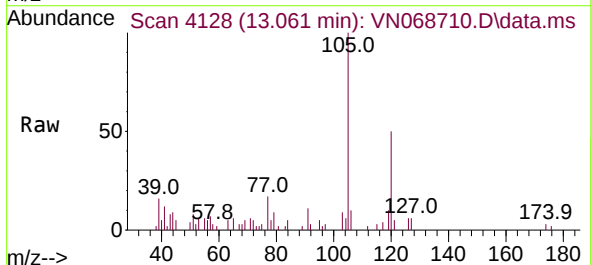
Instrument :
MSVOA_N
ClientSampleId :
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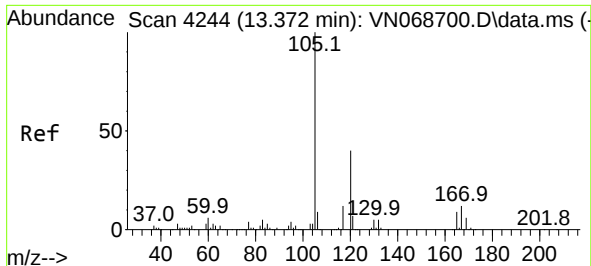
Tgt Ion:106 Resp: 35260
Ion Ratio Lower Upper
106 100
91 216.3 105.9 317.7



#76
1,3,5-Trimethylbenzene
Concen: 0.577 ug/l
RT: 13.061 min Scan# 4128
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion:105 Resp: 14076
Ion Ratio Lower Upper
105 100
120 50.1 0.0 98.0

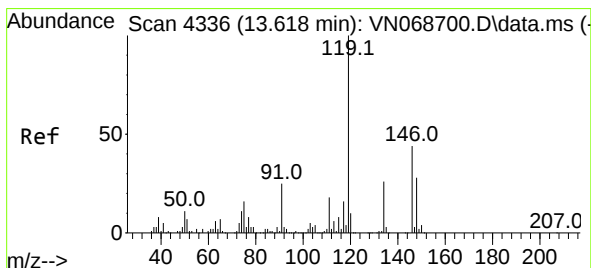
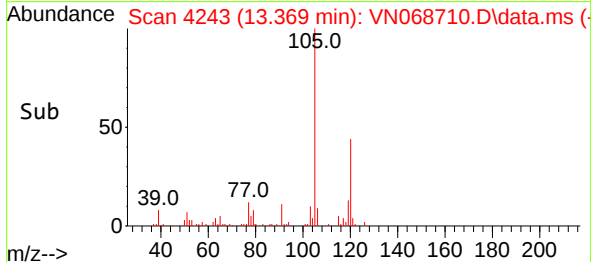
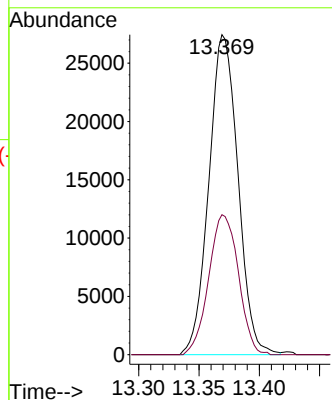
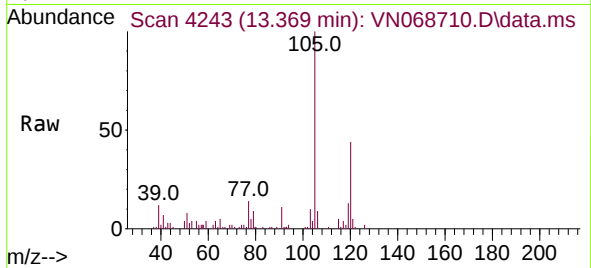




#80
1,2,4-Trimethylbenzene
Concen: 2.075 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. -0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

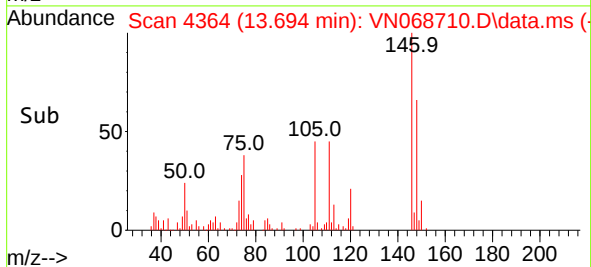
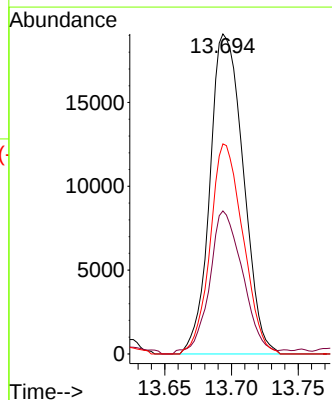
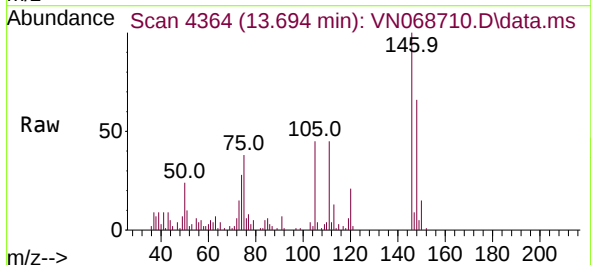
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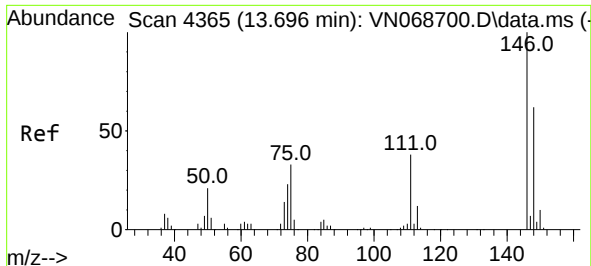
Tgt Ion:105 Resp: 46114
Ion Ratio Lower Upper
105 100
120 44.6 0.0 0.2#



#83
1,3-Dichlorobenzene
Concen: 2.839 ug/l
RT: 13.694 min Scan# 4364
Delta R.T. 0.075 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion:146 Resp: 33169
Ion Ratio Lower Upper
146 100
111 43.1 20.4 61.3
148 64.6 31.8 95.3

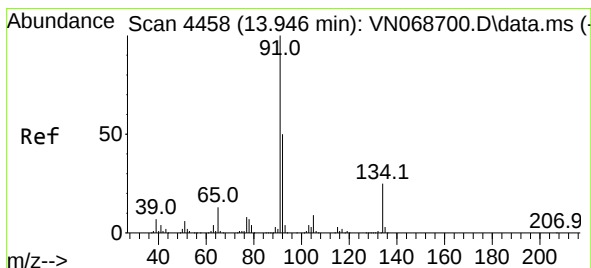
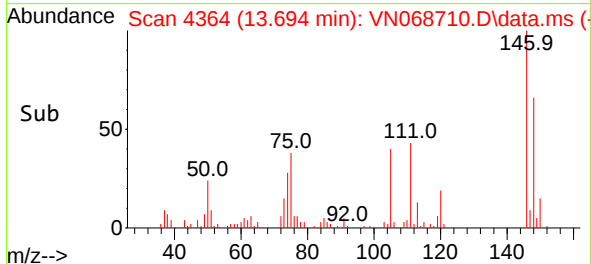
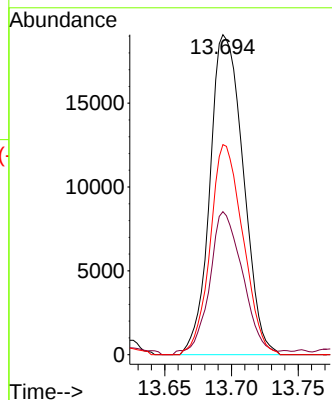
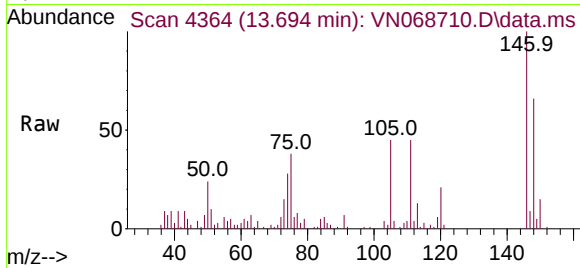




#84
1,4-Dichlorobenzene
Concen: 3.087 ug/l
RT: 13.694 min Scan# 4364
Delta R.T. -0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

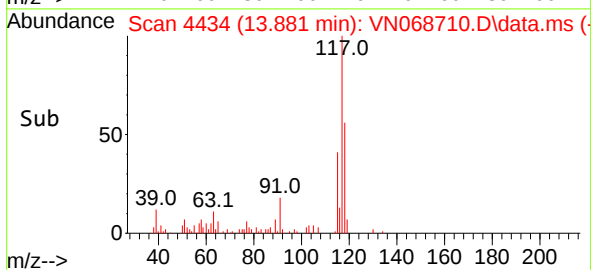
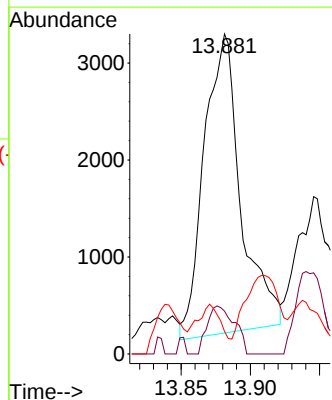
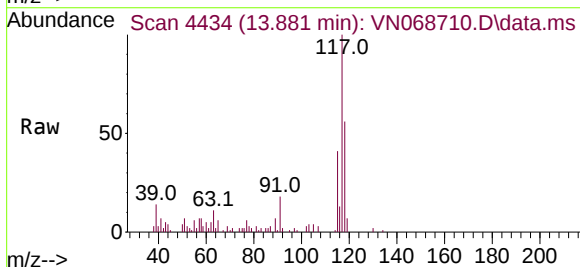
Instrument :
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ClientSampleId :
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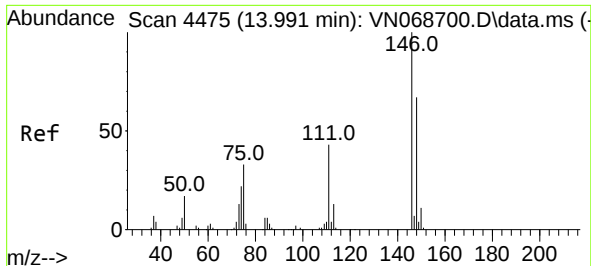
Tgt Ion:146	Resp:	33169
Ion Ratio	Lower	Upper
146	100	
111	43.1	19.6 58.8
148	64.6	31.8 95.4



#85
n-Butylbenzene
Concen: 0.292 ug/l
RT: 13.881 min Scan# 4434
Delta R.T. -0.064 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion: 91	Resp:	5673
Ion Ratio	Lower	Upper
91	100	
92	11.9	0.0 101.6
134	8.8	0.0 49.6

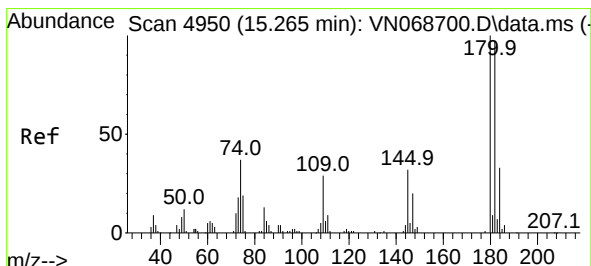
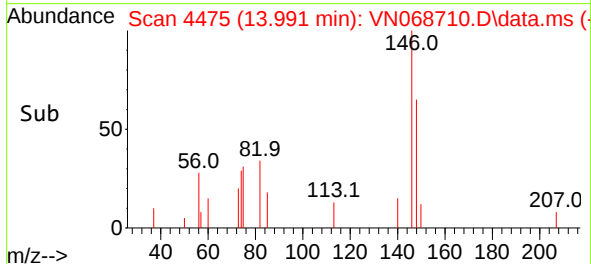
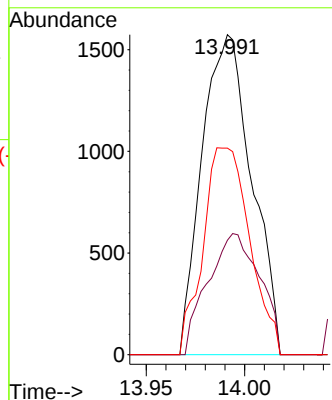
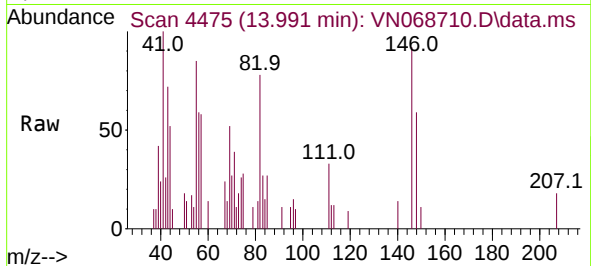




#87
1,2-Dichlorobenzene
Concen: 0.262 ug/l
RT: 13.991 min Scan# 4475
Delta R.T. -0.000 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

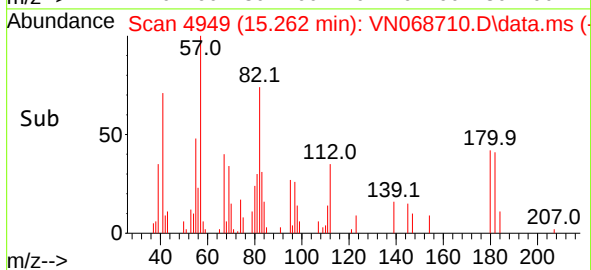
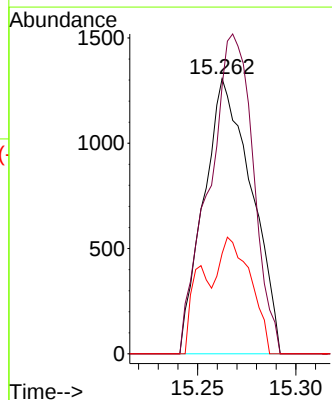
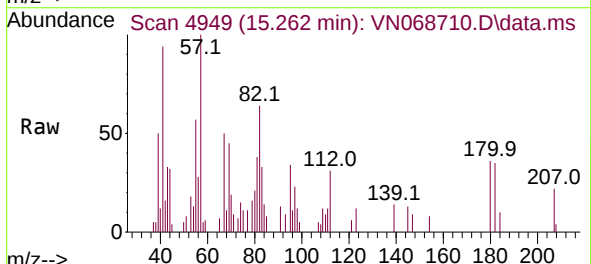
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOARE

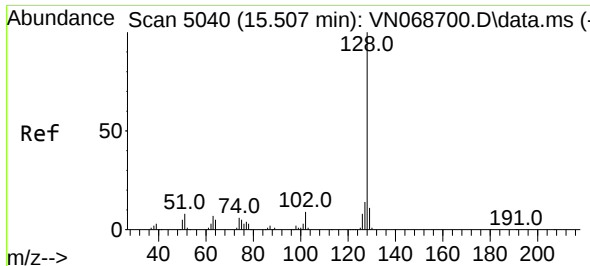
Tgt Ion:	146	Resp:	2766
Ion Ratio	Lower	Upper	
146	100		
111	39.5	21.5	64.5
148	60.7	31.9	95.9



#89
1,2,4-Trichlorobenzene
Concen: 0.415 ug/l
RT: 15.262 min Scan# 4949
Delta R.T. -0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion:	180	Resp:	2197
Ion Ratio	Lower	Upper	
180	100		
182	108.1	75.6	113.4
145	28.8	24.5	36.7

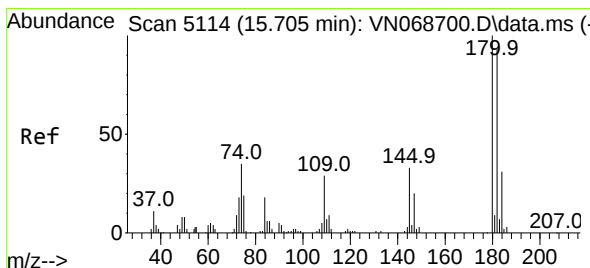
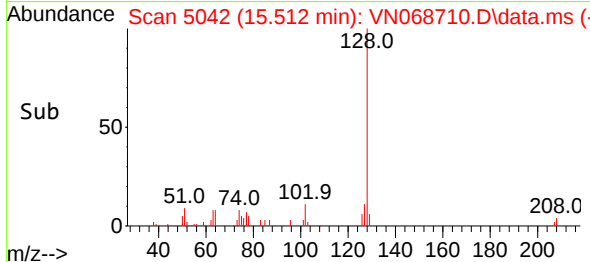
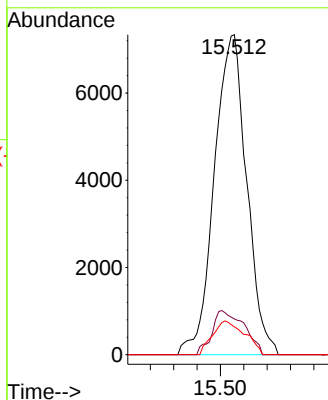
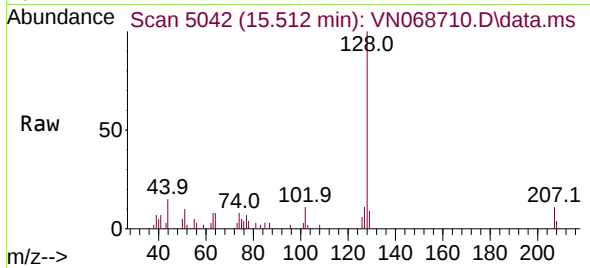




#91
Naphthalene
Concen: 1.026 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOARE

Tgt Ion:128	Resp:	14112
Ion Ratio	Lower	Upper
128	100	
127	13.7	10.9 16.3
129	10.5	9.0 13.6



#92
1,2,3-Trichlorobenzene
Concen: 0.568 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. -0.003 min
Lab File: VN068710.D
Acq: 27 Sep 2021 20:09

Tgt Ion:180	Resp:	2861
Ion Ratio	Lower	Upper
180	100	
182	99.6	0.0 190.0
145	33.3	0.0 66.8

