

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122420\
 Data File : VN065263.D
 Acq On : 24 Dec 2020 15:52
 Operator : JC/MD
 Sample : L5139-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE115D2-20201215

Quant Time: Dec 25 02:38:45 2020
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122220W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 22 15:42:18 2020
 Response via : Initial Calibration

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

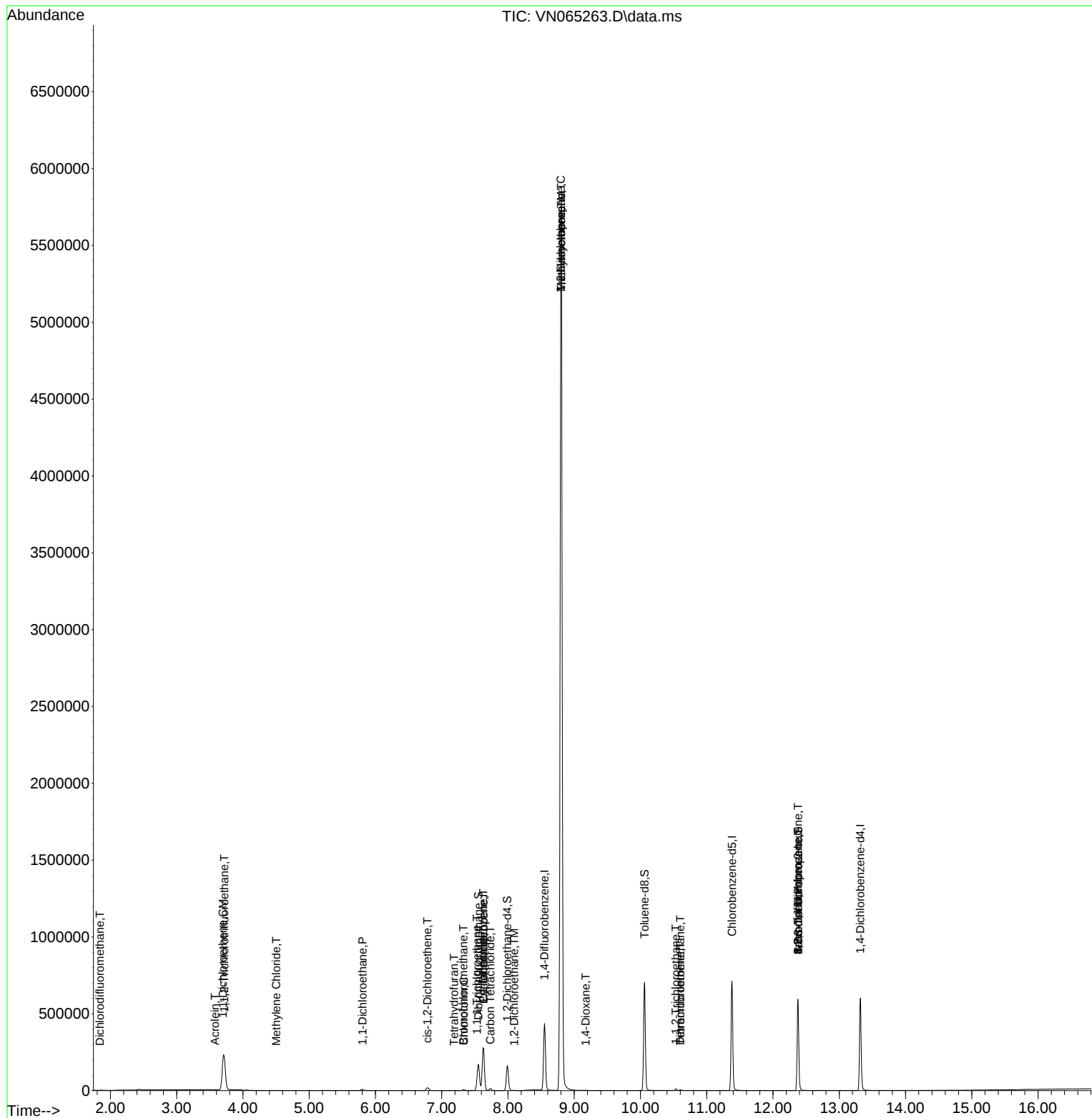
Internal Standards						
1) Pentafluorobenzene	7.627	168	250385	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.550	114	405978	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.379	117	426404	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.318	152	179001	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.990	65	141016	49.89	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 99.78%			
35) Dibromofluoromethane	7.553	113	125388	51.19	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 102.38%			
50) Toluene-d8	10.061	98	496594	54.10	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 108.20%			
62) 4-Bromofluorobenzene	12.376	95	199396	54.42	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 108.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.840	85	750	0.32	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.717	101	106070	46.08	ug/l	97
12) 1,1-Dichloroethene	3.695	96	51405	20.90	ug/l	99
13) Acrolein	3.576	56	61	2.60	ug/l #	1
16) Acetone	3.788	43	907	Below Cal		91
20) Methylene Chloride	4.502	84	758	0.27	ug/l #	59
24) 1,1-Dichloroethane	5.804	63	12081	2.73	ug/l	98
27) cis-1,2-Dichloroethene	6.785	96	13802	4.91	ug/l	85
28) Bromochloromethane	7.328	49	421	0.85	ug/l #	10
29) Tetrahydrofuran	7.187	42	902	0.88	ug/l #	40
30) Chloroform	7.335	83	6362	1.40	ug/l	95
31) Cyclohexane	7.627	56	4675	1.12	ug/l #	16
32) 1,1,1-Trichloroethane	7.531	97	7308	1.77	ug/l	97
36) 1,1-Dichloropropene	7.627	75	16278	4.41	ug/l #	50
38) Carbon Tetrachloride	7.733	117	10067	2.60	ug/l	98
39) Methylcyclohexane	8.804	83	25201	5.68	ug/l #	1
42) 1,2-Dichloroethane	8.093	62	1974	0.49	ug/l #	73
44) Trichloroethene	8.804	130	2216013	699.11	ug/l	97
45) 1,2-Dichloropropane	8.801	63	4978	1.74	ug/l #	1
49) 1,4-Dioxane	9.174	88	952	19.19	ug/l #	91
55) 1,1,2-Trichloroethane	10.534	97	3545	1.29	ug/l	97
60) Dibromochloromethane	10.601	129	1161	0.36	ug/l #	10
64) Tetrachloroethene	10.601	164	1263	0.31	ug/l	90
71) Bromoform	12.376	173	1030	0.35	ug/l #	1
76) 1,2,3-Trichloropropane	12.376	75	102056	27.95	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.376	75	102056	70.47	ug/l #	15

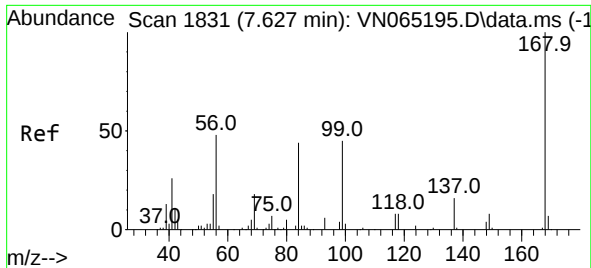
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

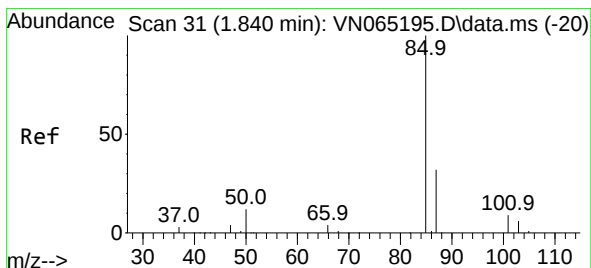
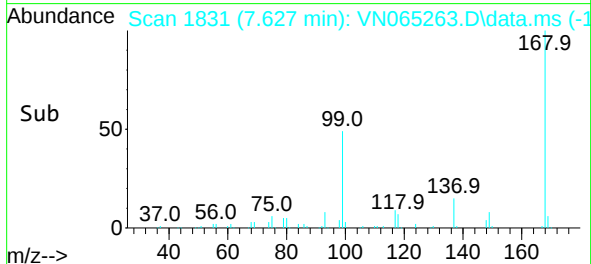
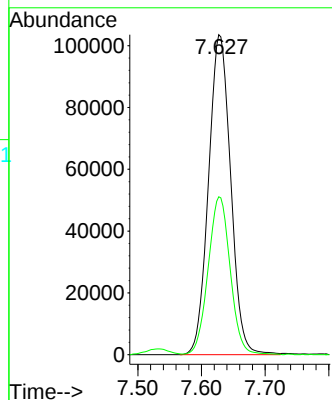
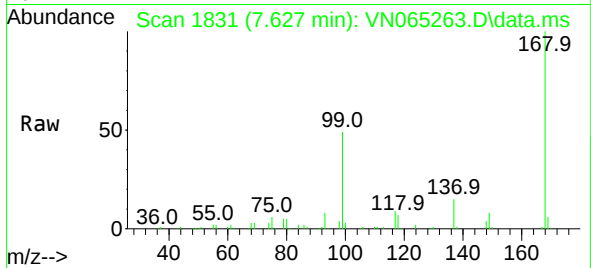




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.627 min Scan# 1831
Delta R.T. 0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

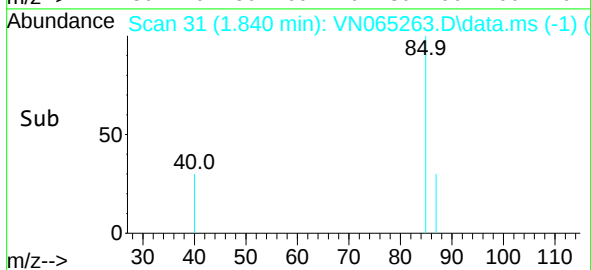
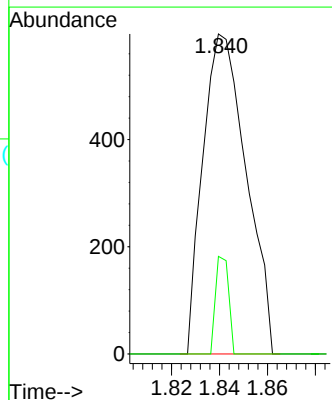
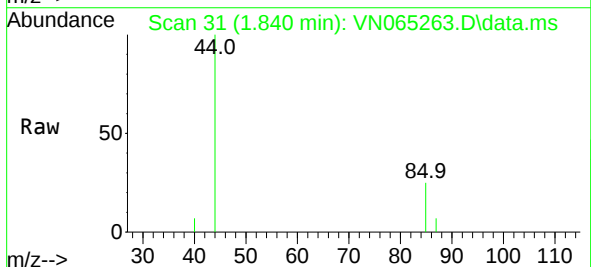
Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215

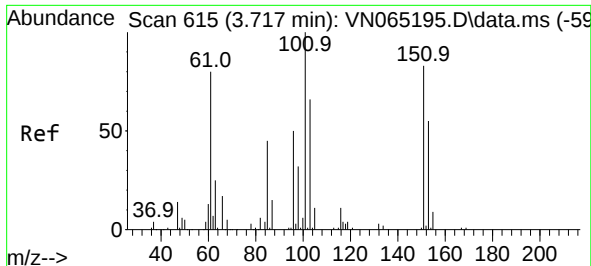
Tgt Ion:168 Resp: 250385
Ion Ratio Lower Upper
168 100
99 49.2 43.0 64.4



#2
Dichlorodifluoromethane
Concen: 0.32 ug/l
RT: 1.840 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion: 85 Resp: 750
Ion Ratio Lower Upper
85 100
87 30.5 16.4 49.4

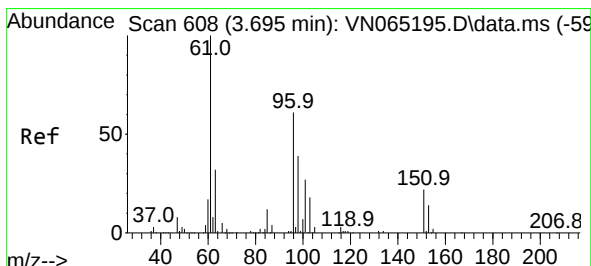
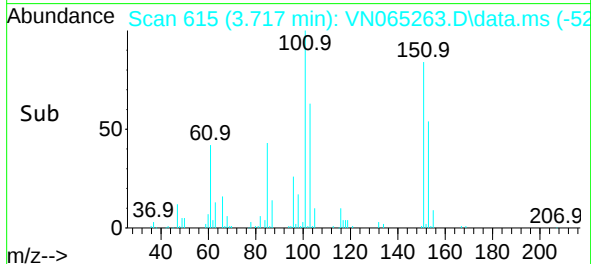
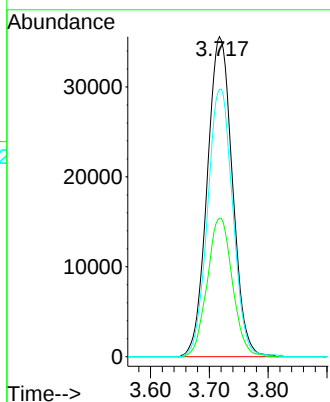
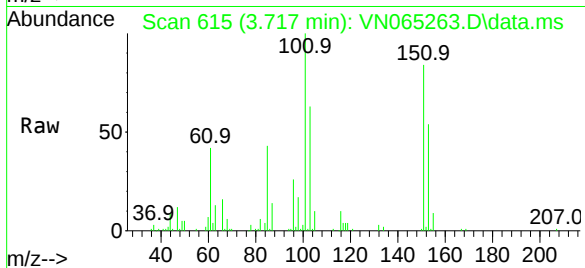




#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.08 ug/l
RT: 3.717 min Scan# 615
Delta R.T. 0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

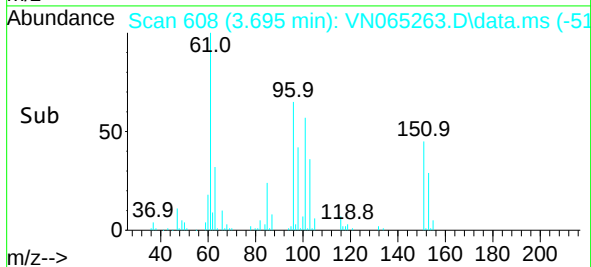
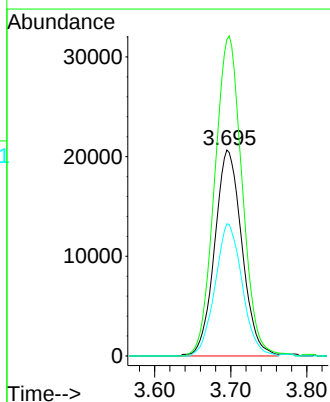
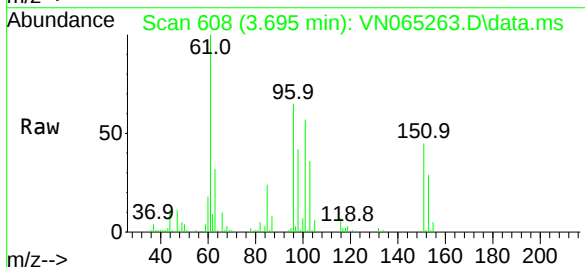
Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215

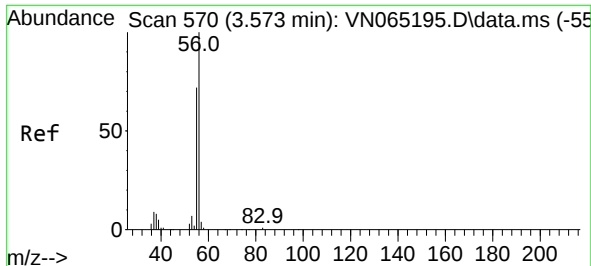
Tgt Ion:101 Resp: 106070
Ion Ratio Lower Upper
101 100
85 43.2 34.4 51.6
151 83.5 64.0 96.0



#12
1,1-Dichloroethene
Concen: 20.90 ug/l
RT: 3.695 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion: 96 Resp: 51405
Ion Ratio Lower Upper
96 100
61 153.7 123.4 185.2
98 64.1 49.8 74.8

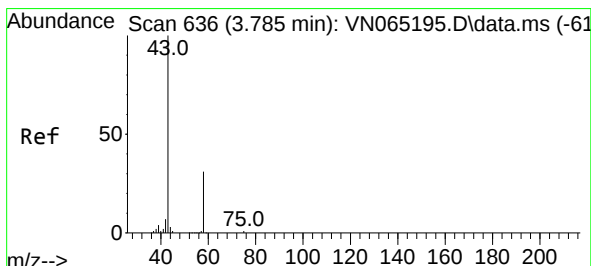
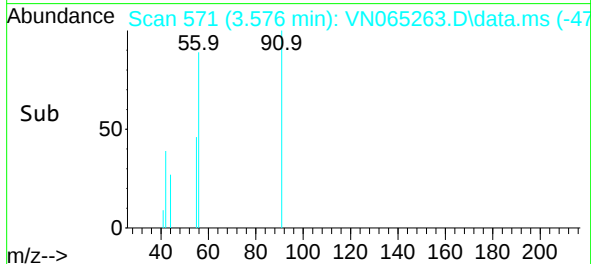
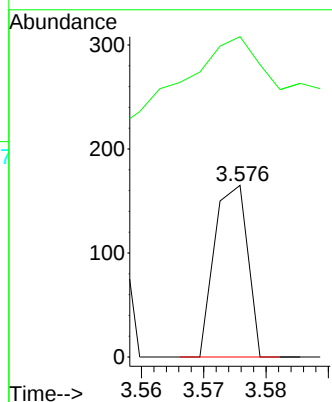
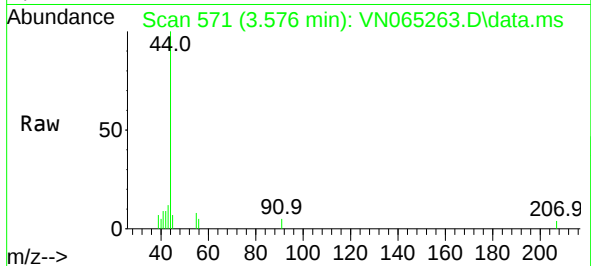




#13
Acrolein
Concen: 2.60 ug/l
RT: 3.576 min Scan# 571
Delta R.T. 0.003 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

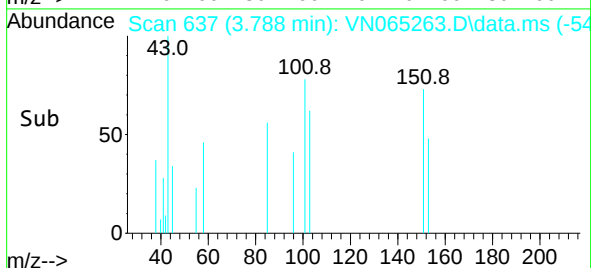
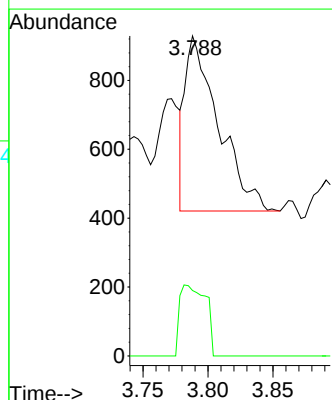
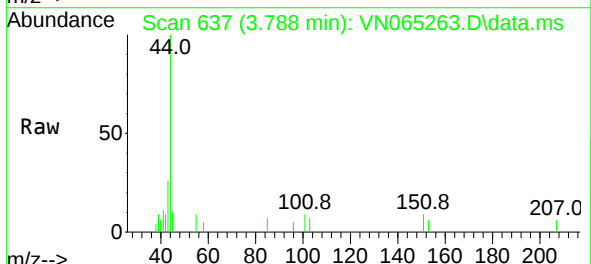
Instrument :
MSVOA_N
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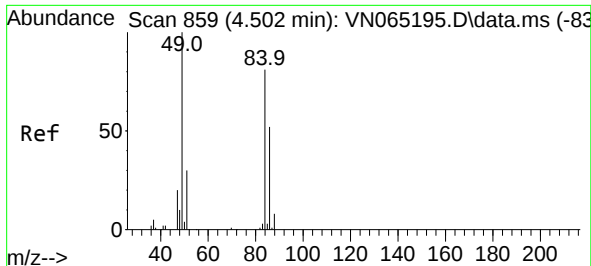
Tgt Ion: 56 Resp: 61
Ion Ratio Lower Upper
56 100
55 336.1 56.5 84.7#



#16
Acetone
Concen: Below Cal
RT: 3.788 min Scan# 637
Delta R.T. 0.003 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion: 43 Resp: 907
Ion Ratio Lower Upper
43 100
58 37.4 25.7 38.5





#20

Methylene Chloride

Concen: 0.27 ug/l

RT: 4.502 min Scan# 859

Delta R.T. -0.000 min

Lab File: VN065263.D

Acq: 24 Dec 2020 15:52

Tgt Ion: 84 Resp: 758

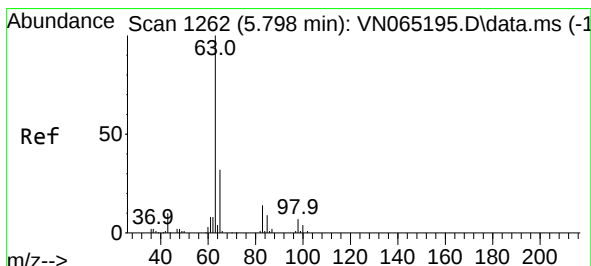
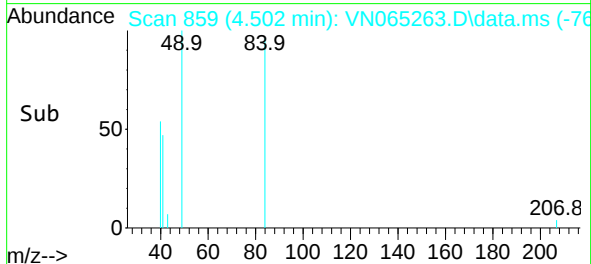
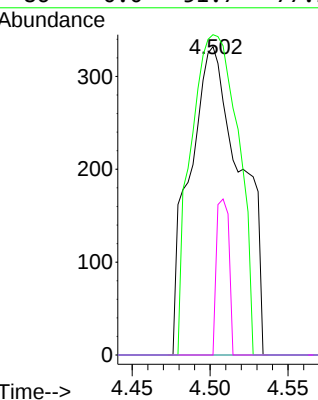
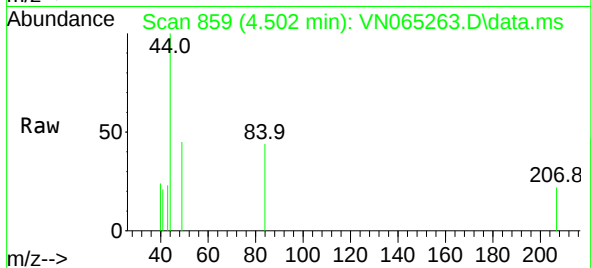
Ion Ratio Lower Upper

84 100

49 103.9 93.4 140.0

51 0.0 28.2 42.4#

86 0.0 51.7 77.5#



#24

1,1-Dichloroethane

Concen: 2.73 ug/l

RT: 5.804 min Scan# 1264

Delta R.T. 0.006 min

Lab File: VN065263.D

Acq: 24 Dec 2020 15:52

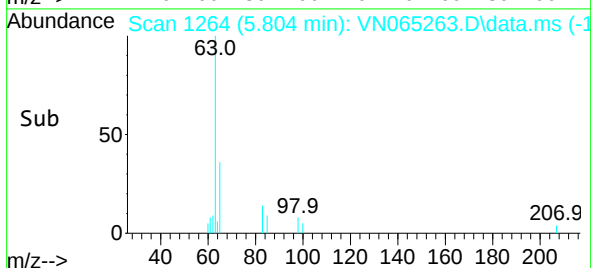
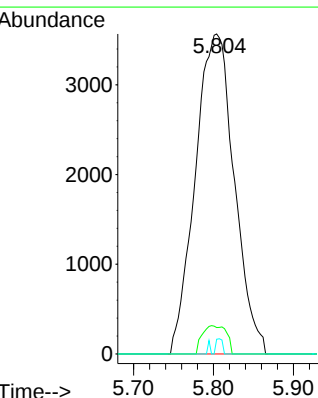
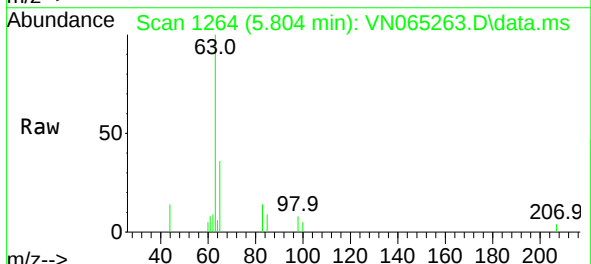
Tgt Ion: 63 Resp: 12081

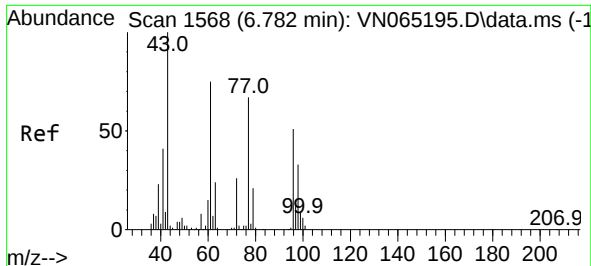
Ion Ratio Lower Upper

63 100

98 8.3 3.5 10.5

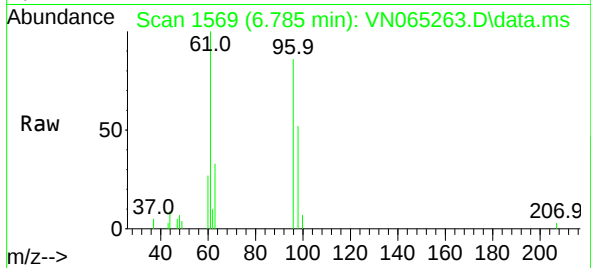
100 4.6 2.3 6.8



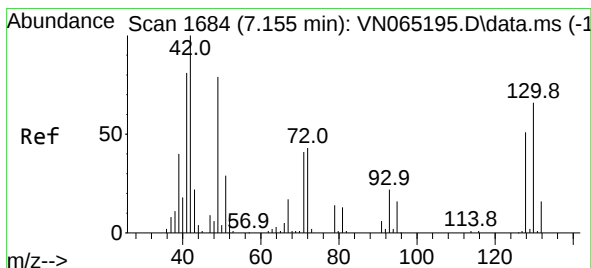
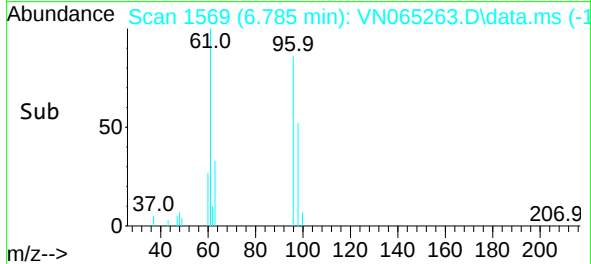
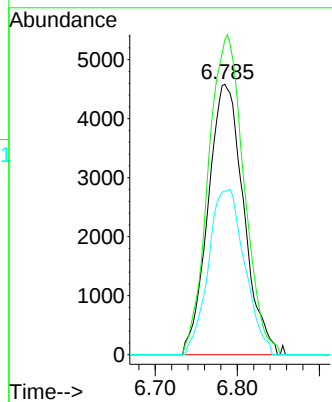


#27
 cis-1,2-Dichloroethene
 Concen: 4.91 ug/l
 RT: 6.785 min Scan# 1569
 Delta R.T. 0.003 min
 Lab File: VN065263.D
 Acq: 24 Dec 2020 15:52

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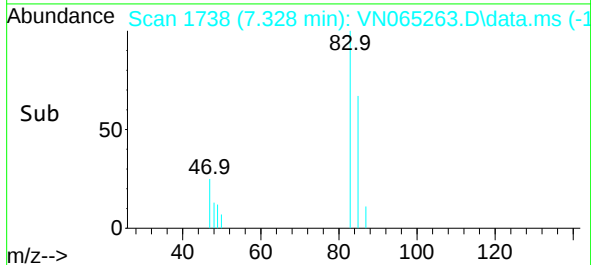
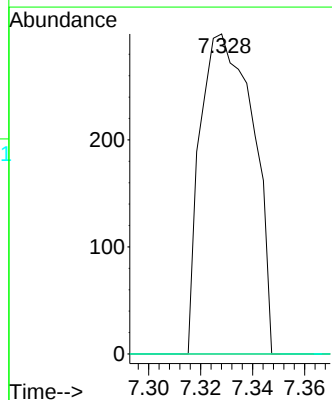
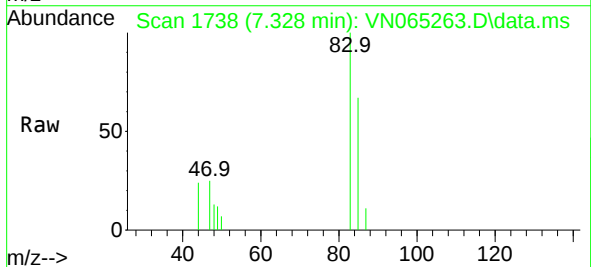


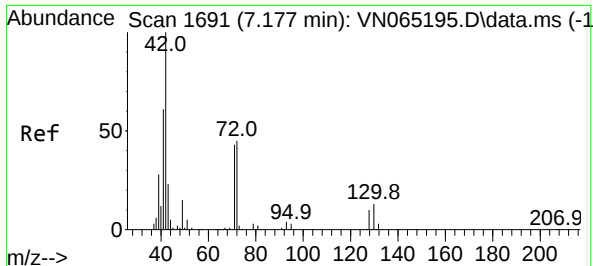
Tgt Ion:	96	Resp:	13802
Ion	Ratio	Lower	Upper
96	100		
61	118.5	0.0	285.8
98	62.4	0.0	130.6



#28
 Bromochloromethane
 Concen: 0.85 ug/l
 RT: 7.328 min Scan# 1738
 Delta R.T. 0.173 min
 Lab File: VN065263.D
 Acq: 24 Dec 2020 15:52

Tgt Ion:	49	Resp:	421
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	66.2	99.2#





#29

Tetrahydrofuran

Concen: 0.88 ug/l

RT: 7.187 min Scan# 1694

Delta R.T. 0.010 min

Lab File: VN065263.D

Acq: 24 Dec 2020 15:52

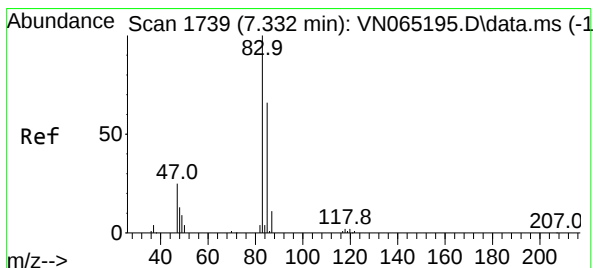
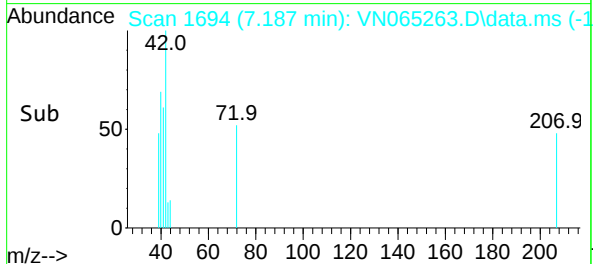
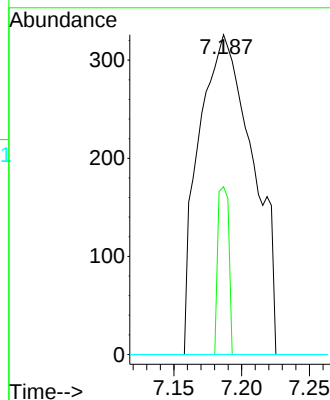
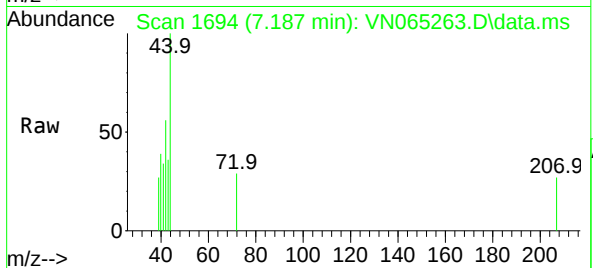
Instrument :

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Tgt Ion:	42	Resp:	902
Ion	Ratio	Lower	Upper
42	100		
72	10.6	36.6	54.8#
71	0.0	33.6	50.4#



#30

Chloroform

Concen: 1.40 ug/l

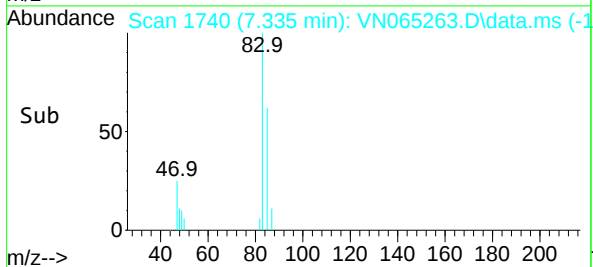
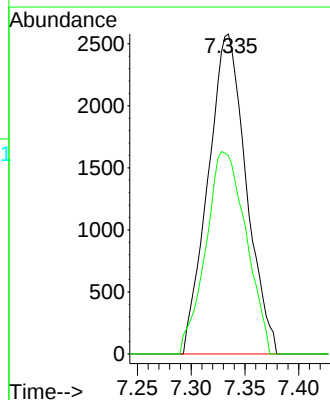
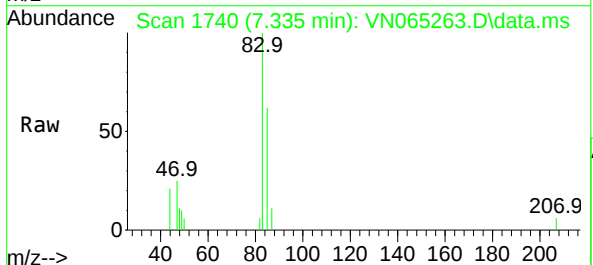
RT: 7.335 min Scan# 1740

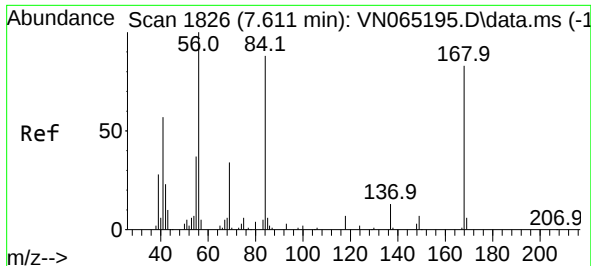
Delta R.T. 0.003 min

Lab File: VN065263.D

Acq: 24 Dec 2020 15:52

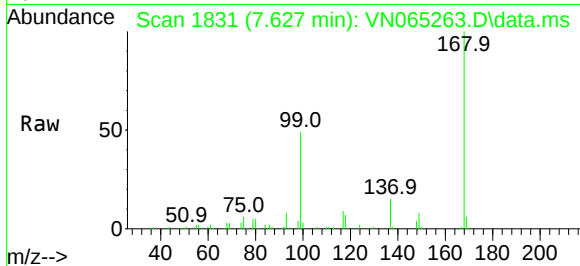
Tgt Ion:	83	Resp:	6362
Ion	Ratio	Lower	Upper
83	100		
85	62.0	52.6	78.8



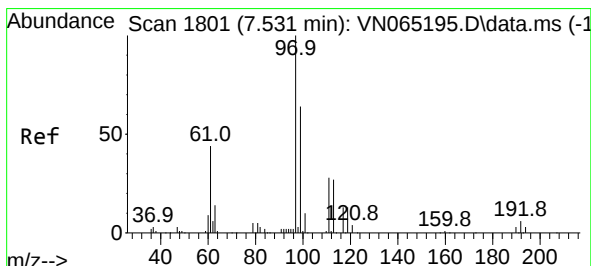
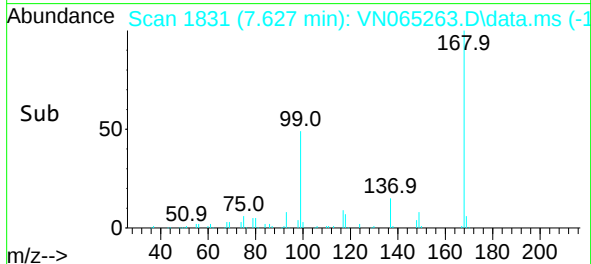
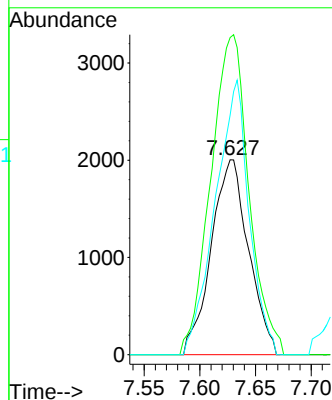


#31
Cyclohexane
Concen: 1.12 ug/l
RT: 7.627 min Scan# 1831
Delta R.T. 0.016 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Instrument :
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ClientSampleId :
RE115D2-20201215

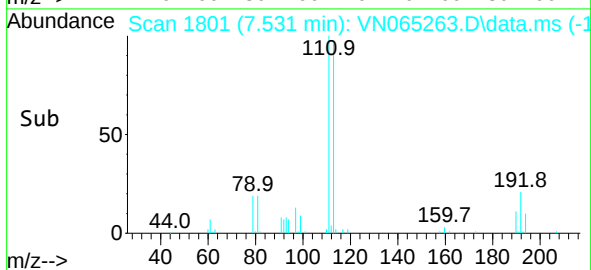
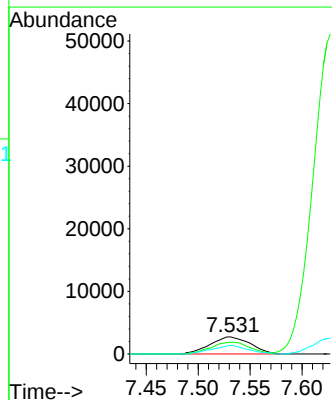
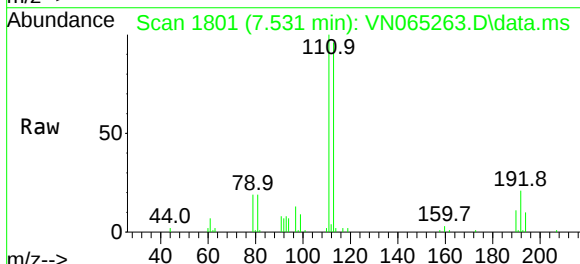


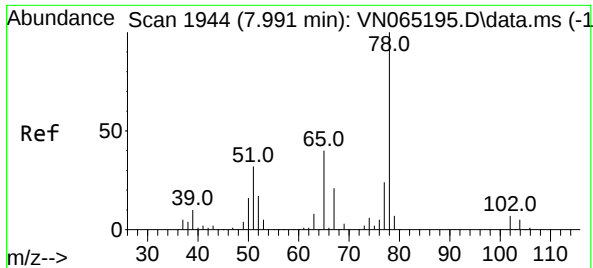
Tgt Ion: 56 Resp: 4675
Ion Ratio Lower Upper
56 100
69 162.7 27.5 41.3#
84 122.9 73.9 110.9#



#32
1,1,1-Trichloroethane
Concen: 1.77 ug/l
RT: 7.531 min Scan# 1801
Delta R.T. -0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion: 97 Resp: 7308
Ion Ratio Lower Upper
97 100
99 66.5 51.7 77.5
61 44.3 33.9 50.9

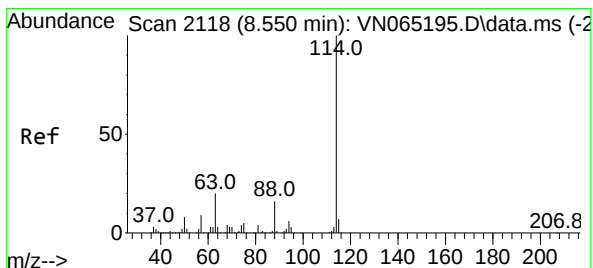
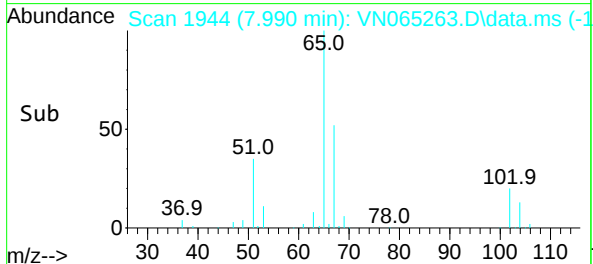
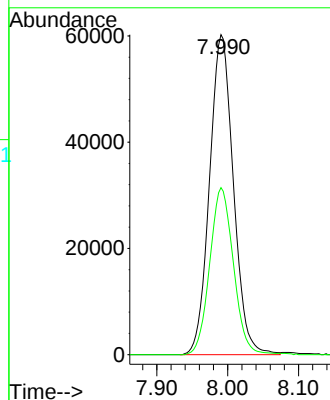
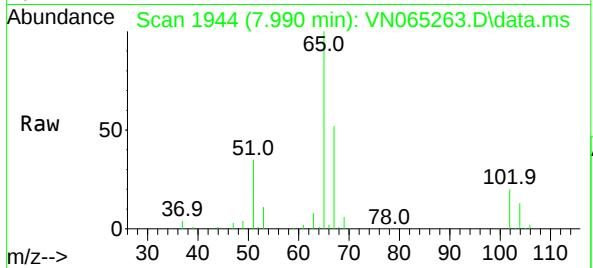




#33
1,2-Dichloroethane-d4
Concen: 49.89 ug/l
RT: 7.990 min Scan# 1944
Delta R.T. -0.001 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

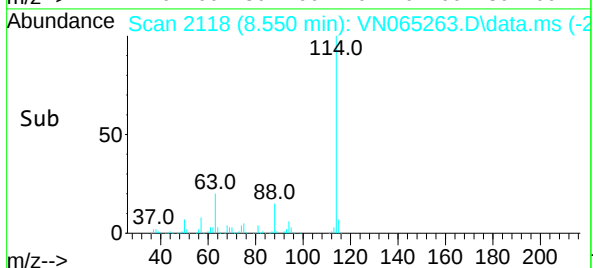
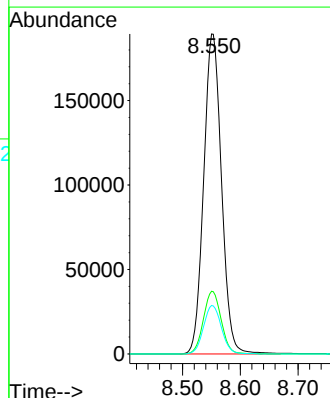
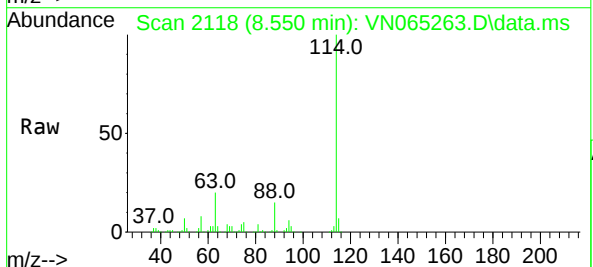
Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215

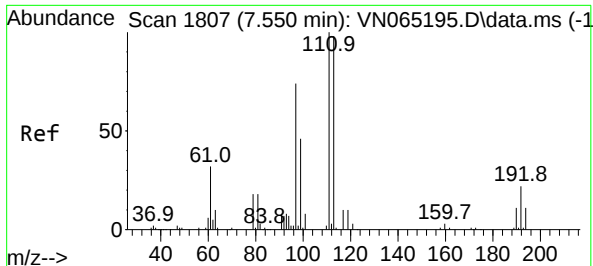
Tgt Ion: 65 Resp: 141016
Ion Ratio Lower Upper
65 100
67 52.0 0.0 108.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.550 min Scan# 2118
Delta R.T. -0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion: 114 Resp: 405978
Ion Ratio Lower Upper
114 100
63 19.6 0.0 38.6
88 15.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.19 ug/l

RT: 7.553 min Scan# 1808

Delta R.T. 0.003 min

Lab File: VN065263.D

Acq: 24 Dec 2020 15:52

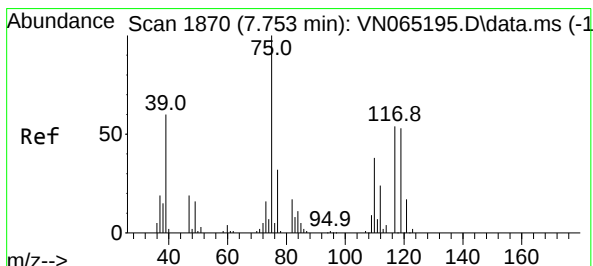
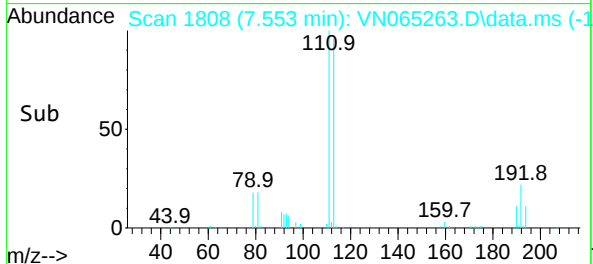
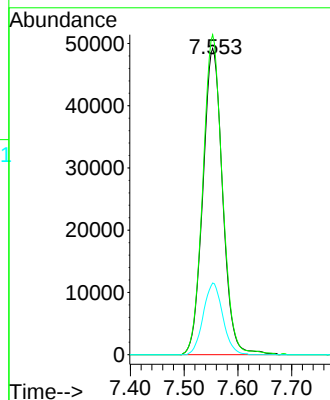
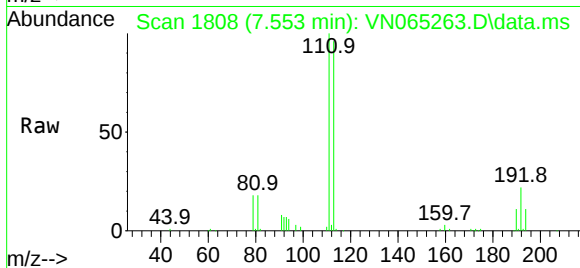
Tgt Ion:113 Resp: 125388

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

192 23.1 16.2 24.2



#36

1,1-Dichloropropene

Concen: 4.41 ug/l

RT: 7.627 min Scan# 1831

Delta R.T. -0.126 min

Lab File: VN065263.D

Acq: 24 Dec 2020 15:52

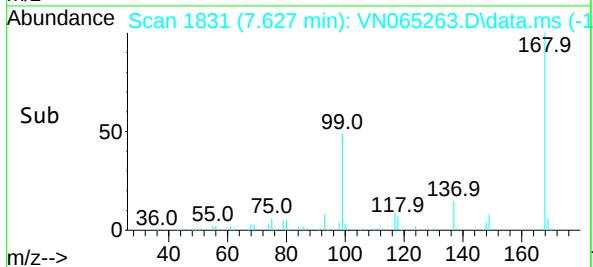
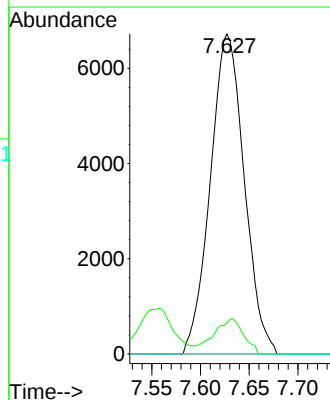
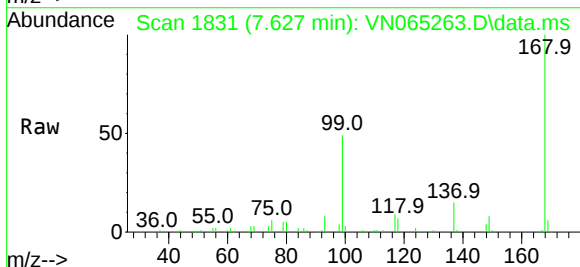
Tgt Ion: 75 Resp: 16278

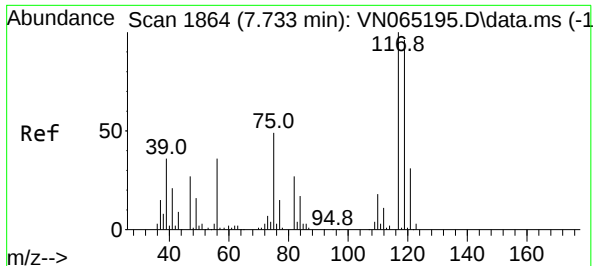
Ion Ratio Lower Upper

75 100

110 9.7 17.8 53.3#

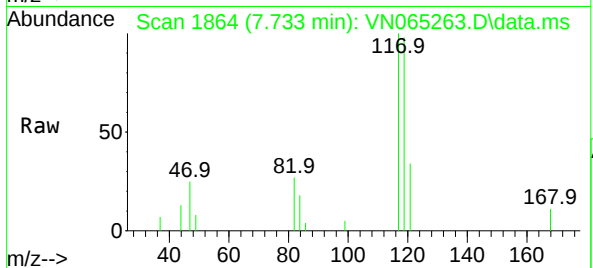
77 0.0 25.0 37.4#



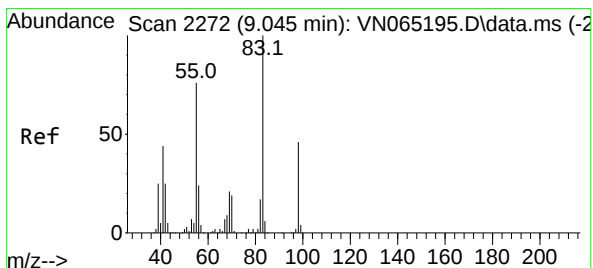
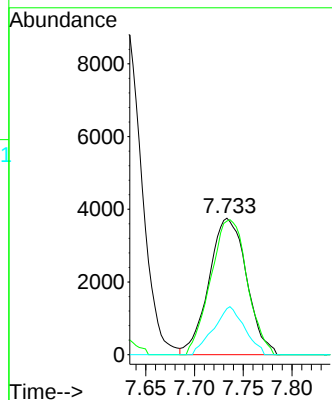
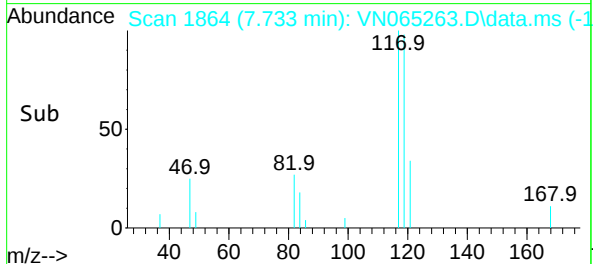


#38
Carbon Tetrachloride
Concen: 2.60 ug/l
RT: 7.733 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

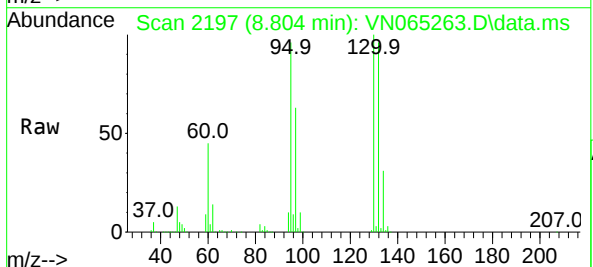
Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215



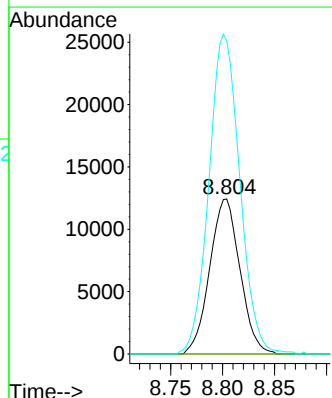
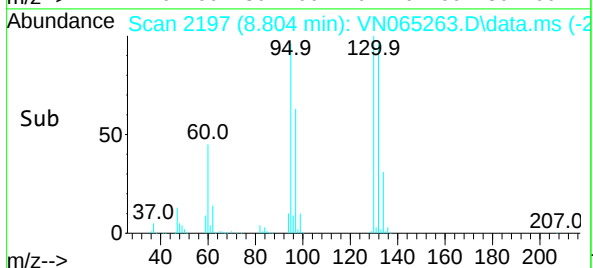
Tgt Ion:117 Resp: 10067
Ion Ratio Lower Upper
117 100
119 97.9 76.7 115.1
121 33.7 25.4 38.2

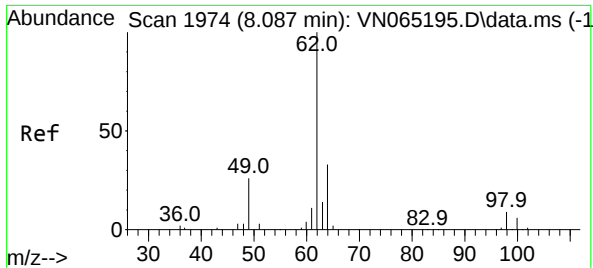


#39
Methylcyclohexane
Concen: 5.68 ug/l
RT: 8.804 min Scan# 2197
Delta R.T. -0.241 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52



Tgt Ion: 83 Resp: 25201
Ion Ratio Lower Upper
83 100
55 0.0 60.2 90.2#
98 200.6 37.4 56.2#

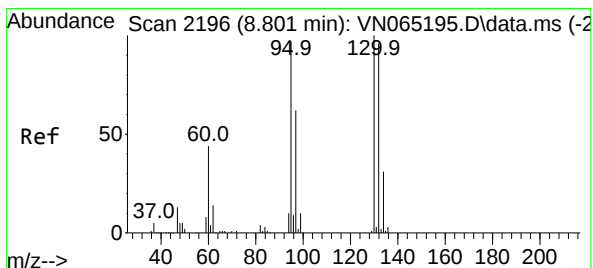
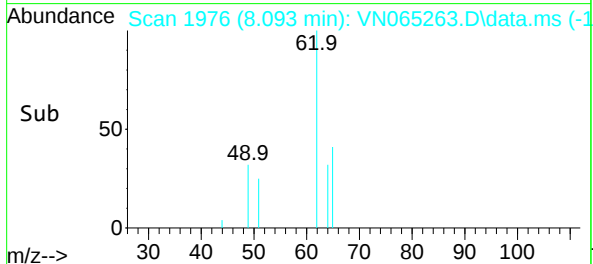
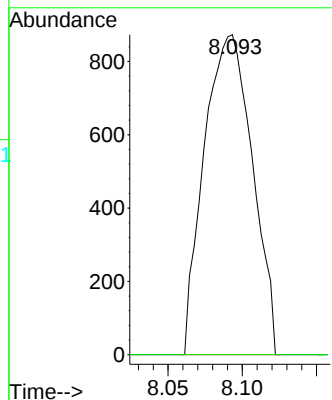
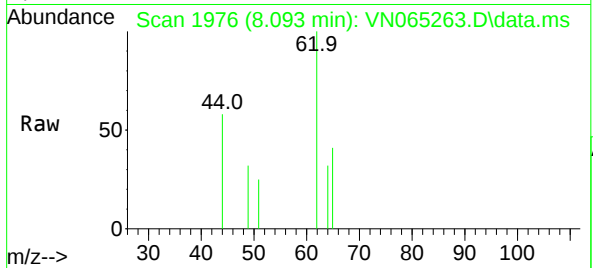




#42
1,2-Dichloroethane
Concen: 0.49 ug/l
RT: 8.093 min Scan# 1976
Delta R.T. 0.006 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

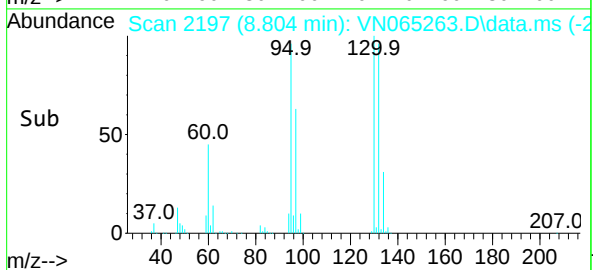
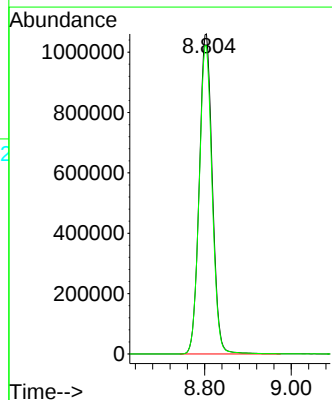
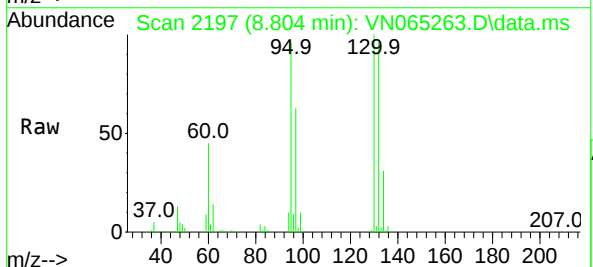
Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215

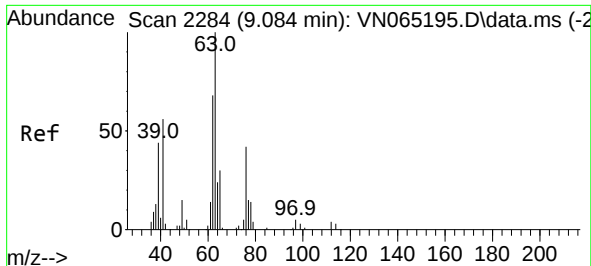
Tgt Ion: 62 Resp: 1974
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.6



#44
Trichloroethene
Concen: 699.11 ug/l
RT: 8.804 min Scan# 2197
Delta R.T. 0.003 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion:130 Resp: 2216013
Ion Ratio Lower Upper
130 100
95 96.2 0.0 197.8



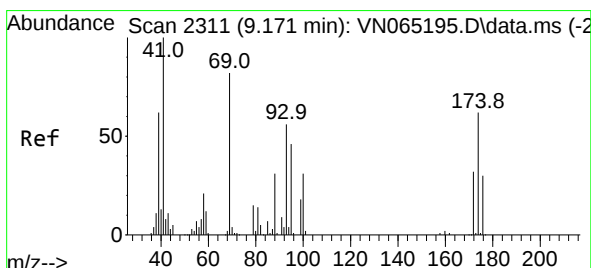
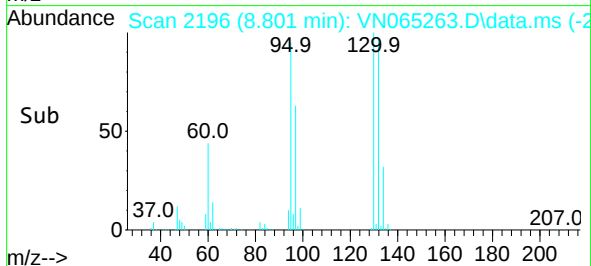
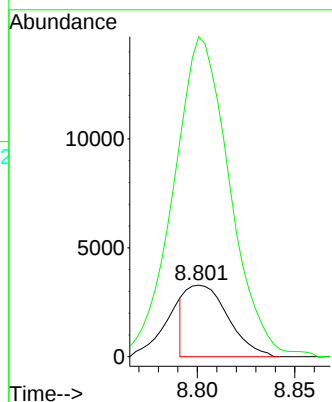
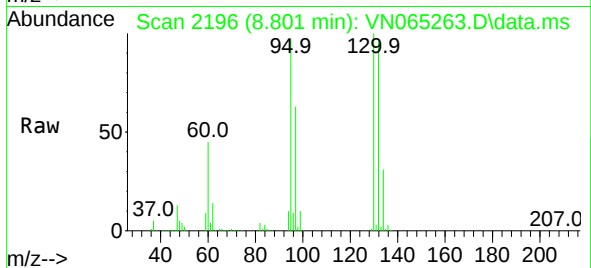


#45

1,2-Dichloropropane
Concen: 1.74 ug/l
RT: 8.801 min Scan# 2196
Delta R.T. -0.283 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215

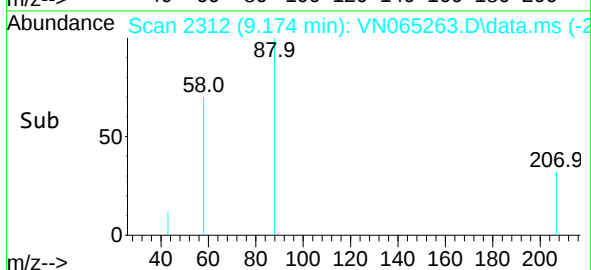
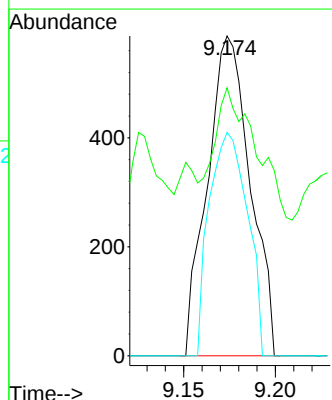
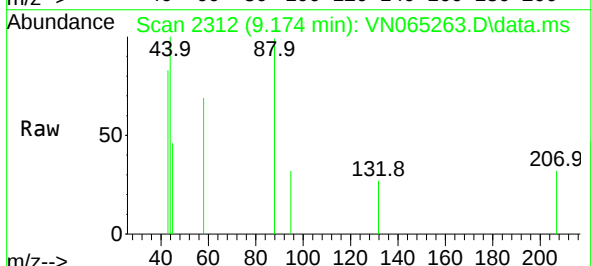
Tgt Ion: 63 Resp: 4978
Ion Ratio Lower Upper
63 100
65 437.0 25.0 37.4#

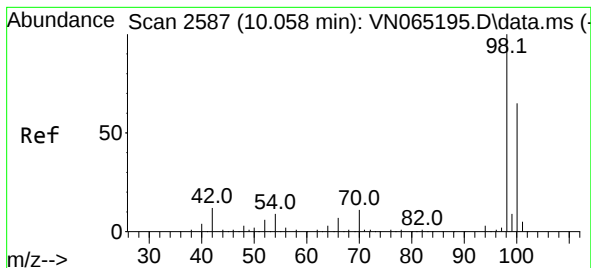


#49

1,4-Dioxane
Concen: 19.19 ug/l
RT: 9.174 min Scan# 2312
Delta R.T. 0.003 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion: 88 Resp: 952
Ion Ratio Lower Upper
88 100
43 40.4 24.2 36.4#
58 62.4 52.5 78.7

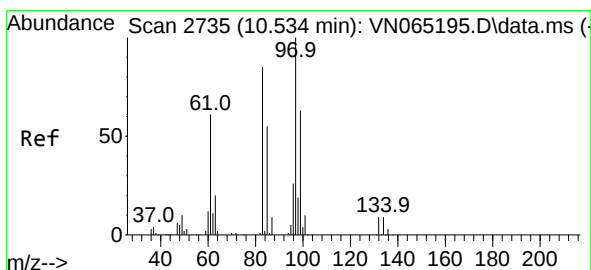
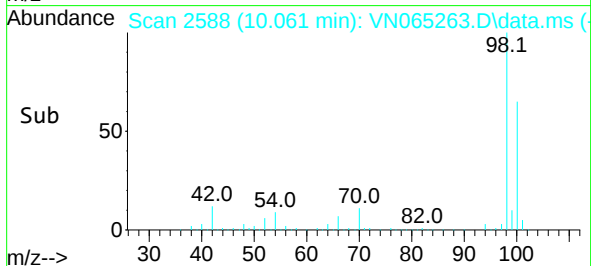
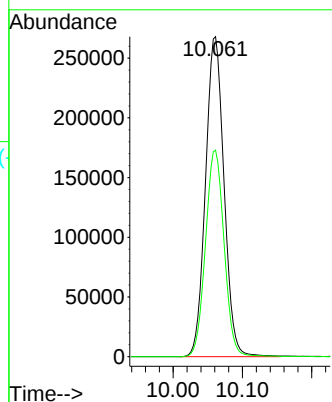
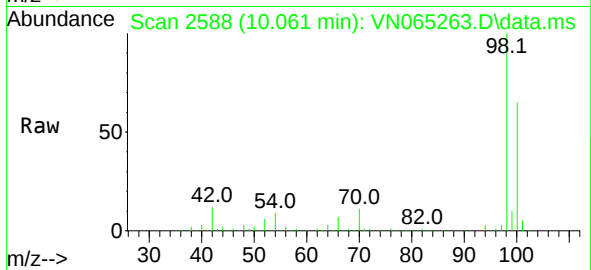




#50
Toluene-d8
Concen: 54.10 ug/l
RT: 10.061 min Scan# 2588
Delta R.T. 0.003 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

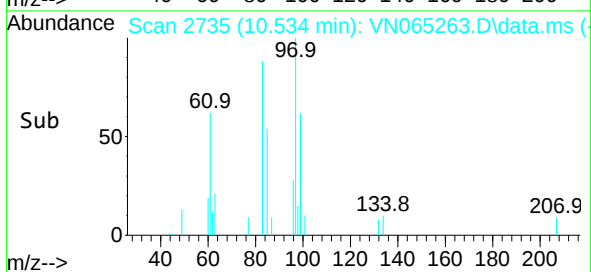
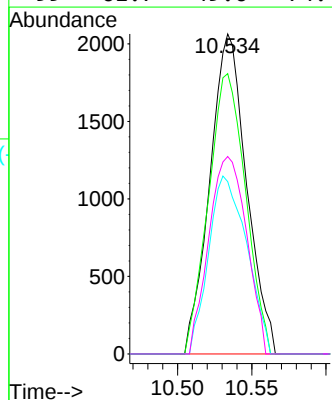
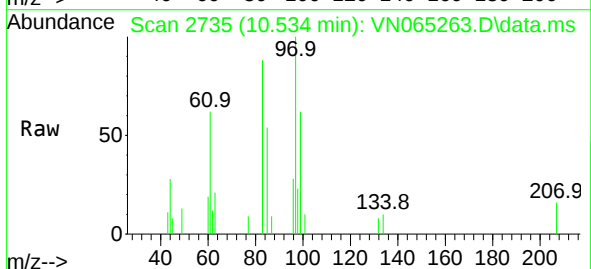
Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215

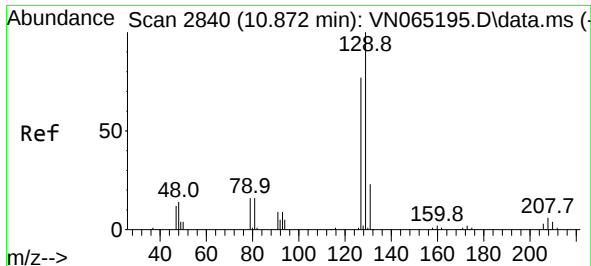
Tgt Ion: 98 Resp: 496594
Ion Ratio Lower Upper
98 100
100 65.0 51.7 77.5



#55
1,1,2-Trichloroethane
Concen: 1.29 ug/l
RT: 10.534 min Scan# 2735
Delta R.T. -0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion: 97 Resp: 3545
Ion Ratio Lower Upper
97 100
83 87.6 72.1 108.1
85 53.8 46.8 70.2
99 61.7 49.6 74.4

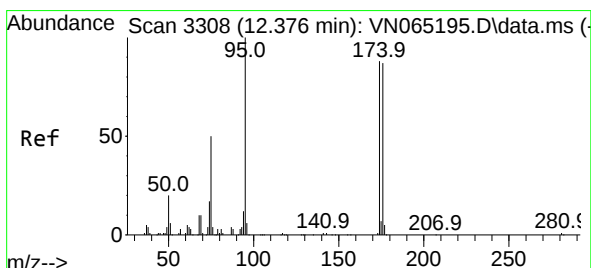
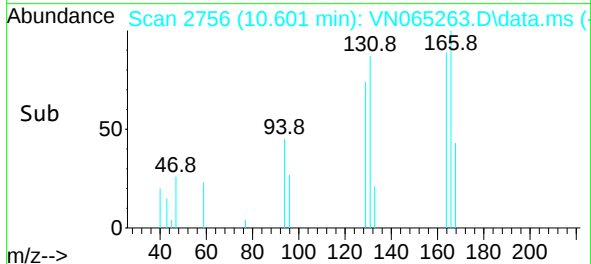
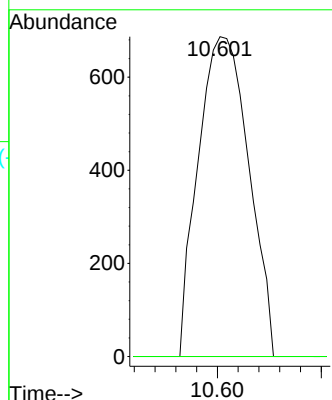
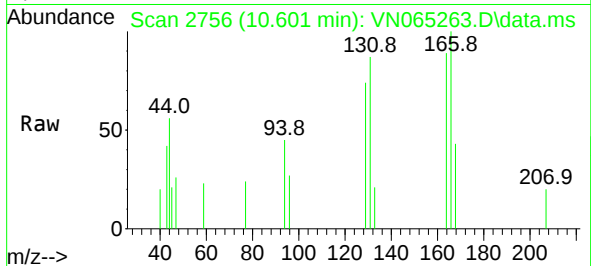




#60
Dibromochloromethane
Concen: 0.36 ug/l
RT: 10.601 min Scan# 2756
Delta R.T. -0.271 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

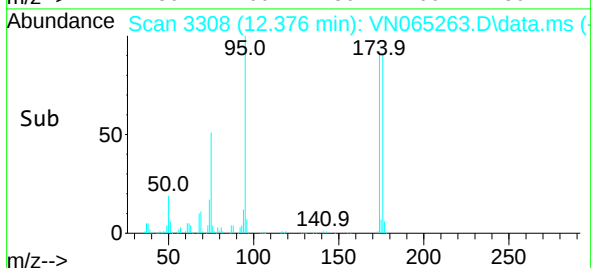
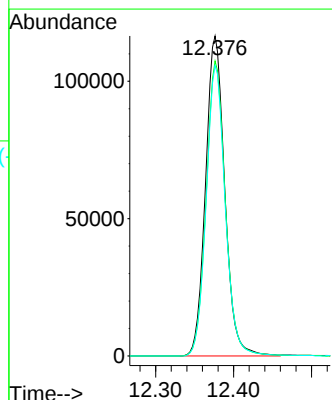
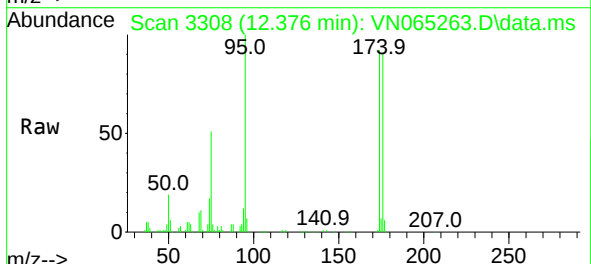
Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215

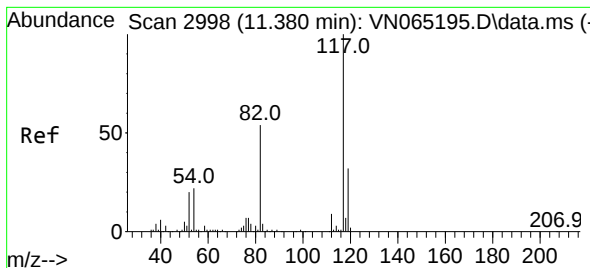
Tgt Ion:129 Resp: 1161
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#



#62
4-Bromofluorobenzene
Concen: 54.42 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion: 95 Resp: 199396
Ion Ratio Lower Upper
95 100
174 92.0 0.0 160.4
176 90.0 0.0 158.4

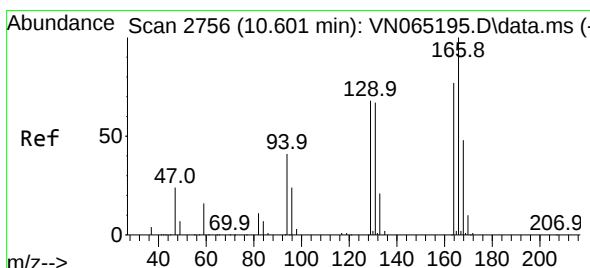
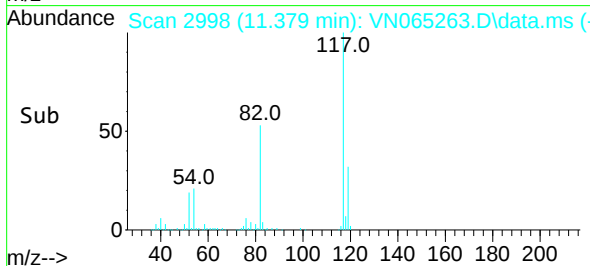
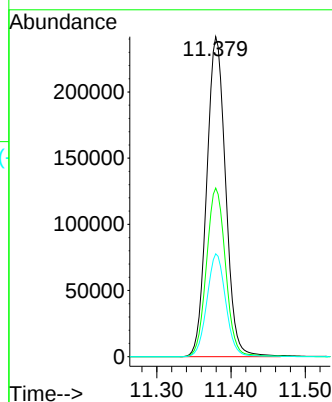
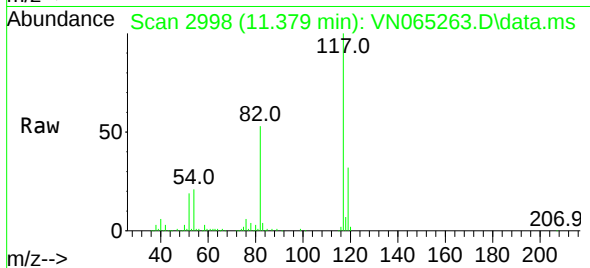




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.379 min Scan# 2998
Delta R.T. -0.001 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

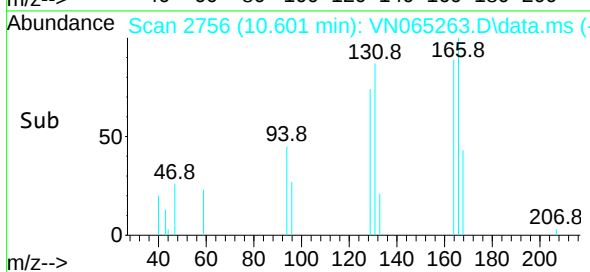
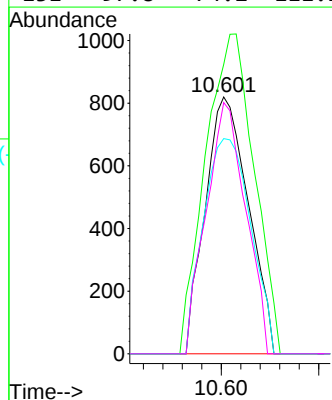
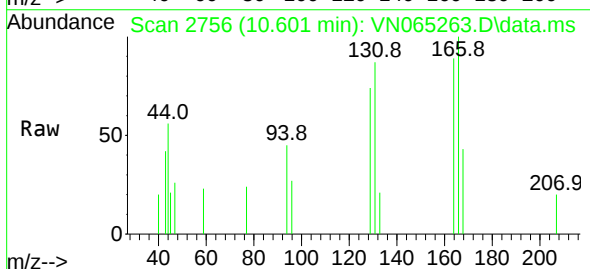
Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215

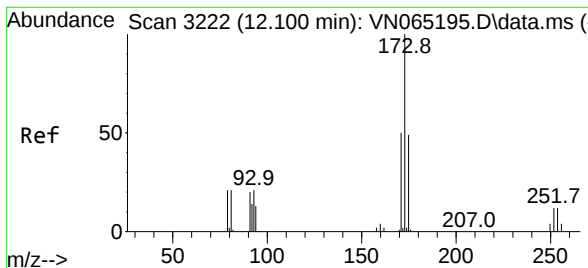
Tgt Ion:	117	Resp:	426404
Ion	Ratio	Lower	Upper
117	100		
82	52.7	44.2	66.2
119	32.2	25.8	38.6



#64
Tetrachloroethene
Concen: 0.31 ug/l
RT: 10.601 min Scan# 2756
Delta R.T. 0.000 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion:	164	Resp:	1263
Ion	Ratio	Lower	Upper
164	100		
166	112.7	101.4	152.0
129	83.8	76.1	114.1
131	97.8	74.2	111.2





#71

Bromoform

Concen: 0.35 ug/l

RT: 12.376 min Scan# 3308

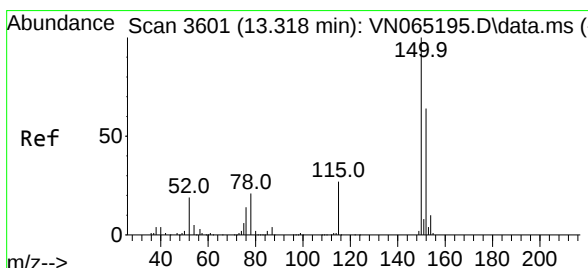
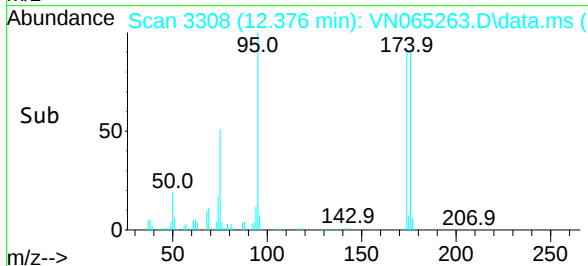
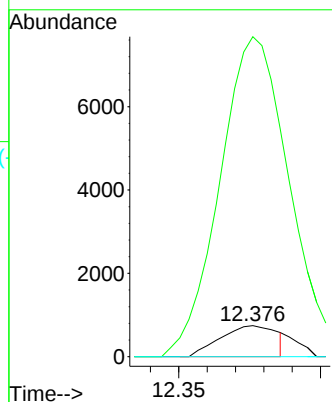
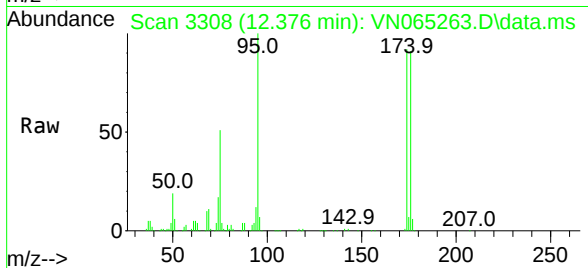
Delta R.T. 0.276 min

Lab File: VN065263.D

Acq: 24 Dec 2020 15:52

Tgt Ion:	173	Resp:	1030
Ion Ratio	Lower	Upper	
173	100		
175	1037.8	24.3	72.8#
254	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

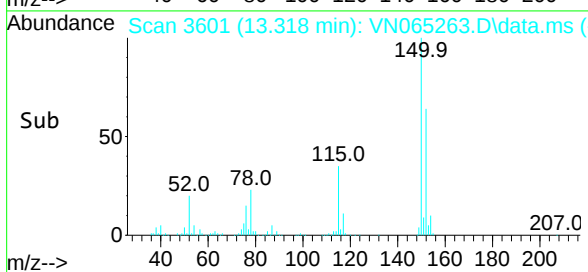
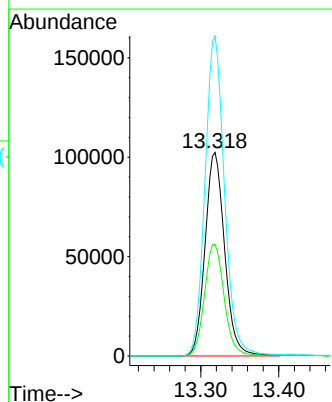
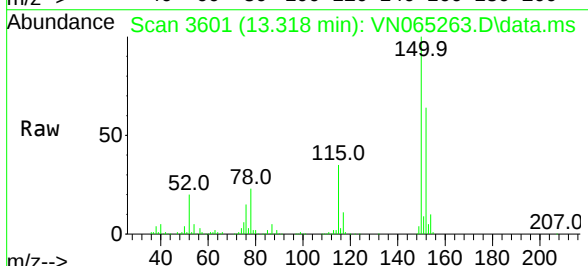
RT: 13.318 min Scan# 3601

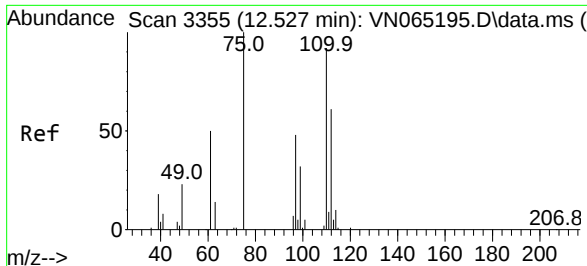
Delta R.T. 0.000 min

Lab File: VN065263.D

Acq: 24 Dec 2020 15:52

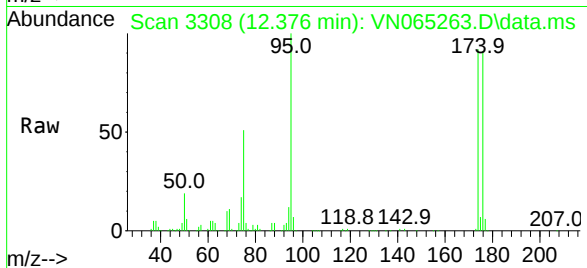
Tgt Ion:	152	Resp:	179001
Ion Ratio	Lower	Upper	
152	100		
115	55.4	29.7	89.1
150	156.7	0.0	350.6



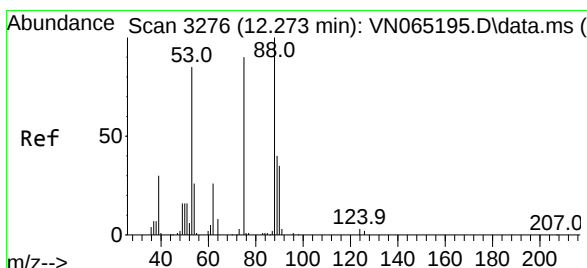
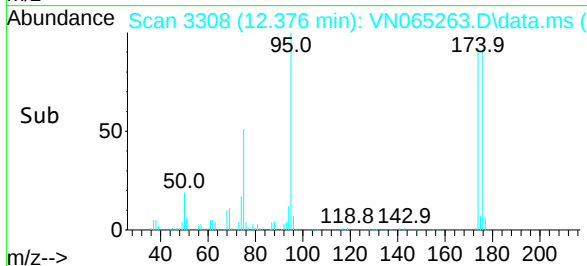
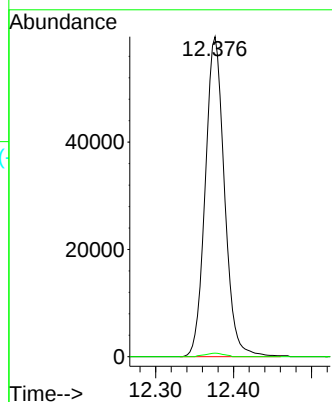


#76
1,2,3-Trichloropropane
Concen: 27.95 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. -0.151 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Instrument :
MSVOA_N
ClientSampleId :
RE115D2-20201215



Tgt Ion: 75 Resp: 102056
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.47 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.103 min
Lab File: VN065263.D
Acq: 24 Dec 2020 15:52

Tgt Ion: 75 Resp: 102056
Ion Ratio Lower Upper
75 100
53 0.0 67.0 100.4#
89 0.0 39.6 59.4#

