

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042221\
 Data File : VN066714.D
 Acq On : 22 Apr 2021 15:03
 Operator : JC/MD
 Sample : M2134-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 210421084-02-VOA

Quant Time: Apr 23 06:30:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Apr 21 16:55:39 2021
 Response via : Initial Calibration

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

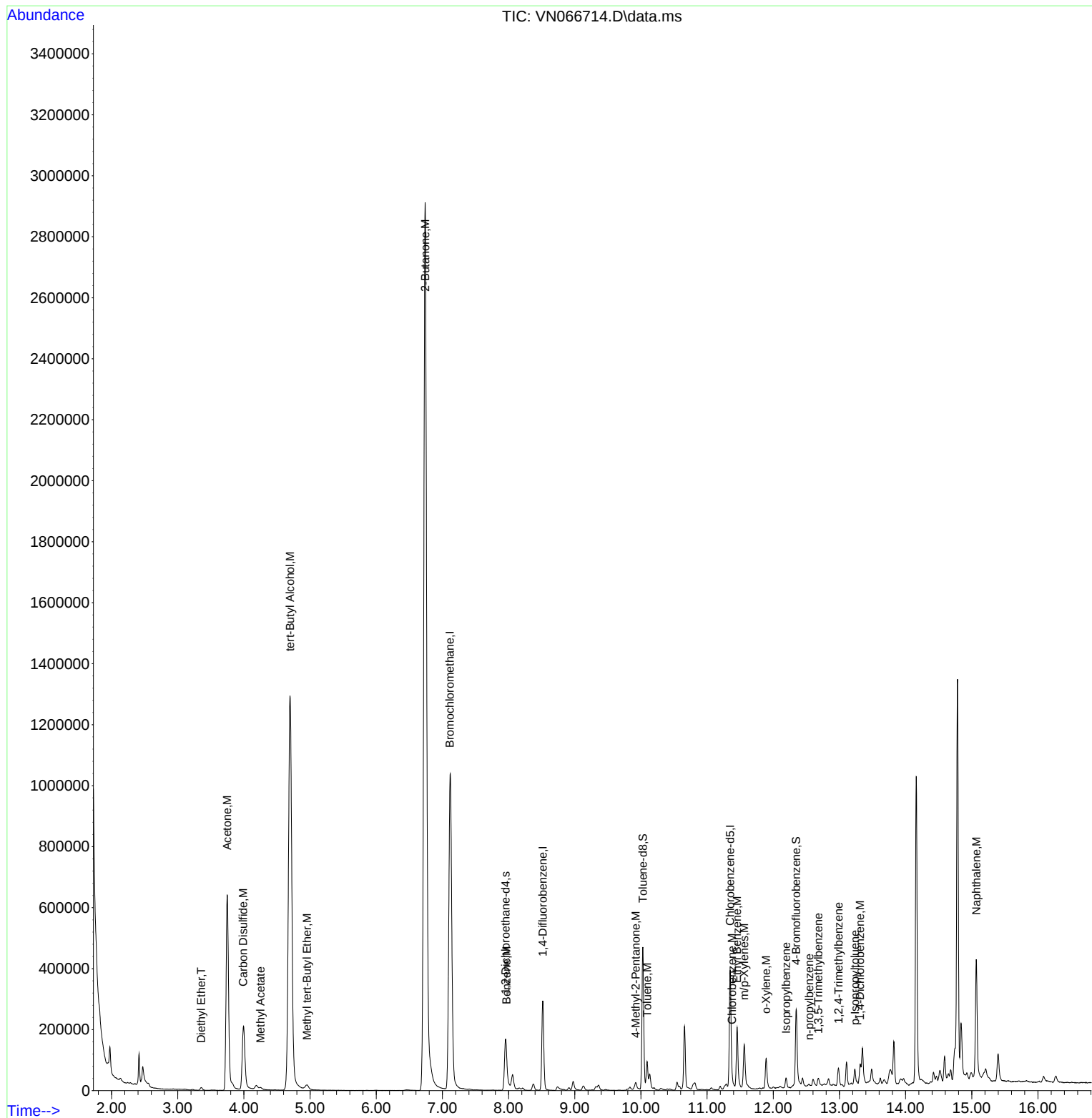
Internal Standards						
1) Bromochloromethane	7.111	128	50770	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.516	114	273137	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.348	117	238084	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	108516	29.66	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.87%		
60) 4-Bromofluorobenzene	12.346	95	101008	27.07	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.23%		
63) Toluene-d8	10.029	98	334331	30.52	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.73%		
Target Compounds						Qvalue
8) Diethyl Ether	3.356	74	4215	2.30	ug/l	71
12) Methyl Acetate	4.249	43	9014	2.51	ug/l	94
15) Acetone	3.748	58	346521	835.22	ug/l	84
16) Carbon Disulfide	3.986	76	25164	3.09	ug/l #	93
23) tert-Butyl Alcohol	4.697	59	2675112	4972.04	ug/l #	100
24) Methyl tert-Butyl Ether	4.955	73	24264	2.64	ug/l #	53
30) 2-Butanone	6.741	43	2225360	1071.84	ug/l	98
34) Benzene	7.966	78	54492	3.93	ug/l #	63
58) 4-Methyl-2-Pentanone	9.922	43	19196	4.73	ug/l	97
62) Toluene	10.093	91	66124	4.89	ug/l	99
64) Chlorobenzene	11.375	112	11653	1.44	ug/l	97
66) Ethyl Benzene	11.453	91	149016	10.32	ug/l	99
67) m/p-Xylenes	11.560	106	47632	8.79	ug/l	98
68) o-Xylene	11.893	106	28451	5.41	ug/l	94
70) Isopropylbenzene	12.193	105	17269	1.26	ug/l	97
74) n-propylbenzene	12.542	91	7112	0.45	ug/l	98
76) 1,3,5-Trimethylbenzene	12.679	105	8217	0.71	ug/l	89
80) 1,2,4-Trimethylbenzene	12.984	105	35967	3.23	ug/l	100
82) p-Isopropyltoluene	13.234	119	27650	2.50	ug/l	96
84) 1,4-Dichlorobenzene	13.312	146	20215	3.63	ug/l	97
91) Naphthalene	15.068	128	376234	47.80	ug/l	100

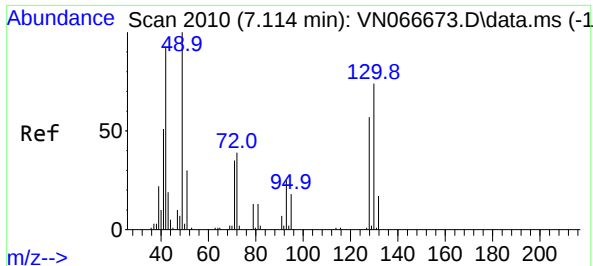
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 21 16:55:39 2021
Response via : Initial Calibration

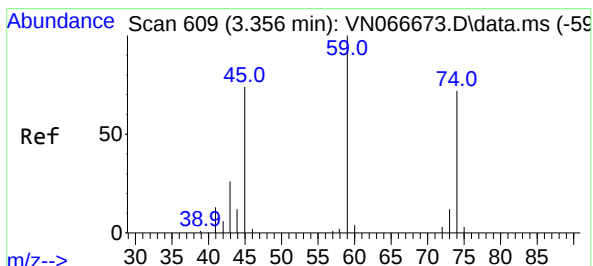
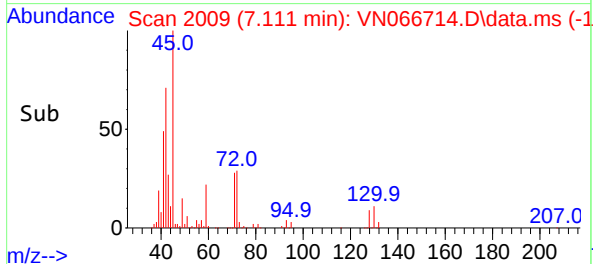
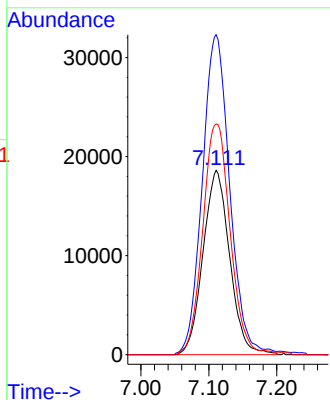
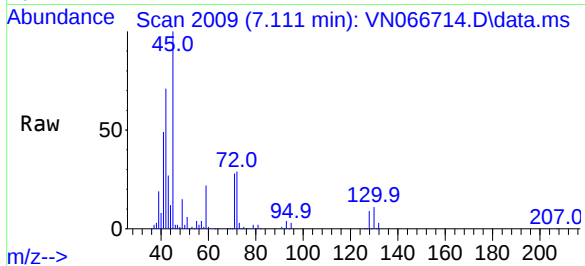




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.111 min Scan# 2009
Delta R.T. -0.003 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

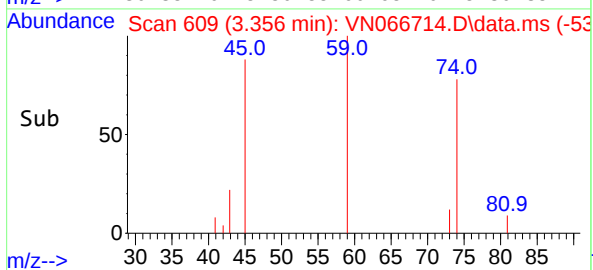
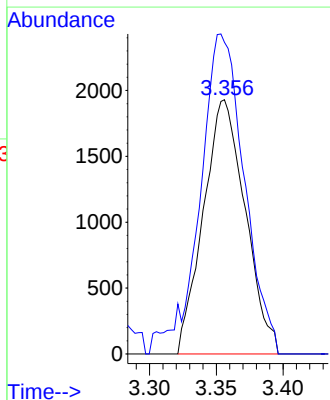
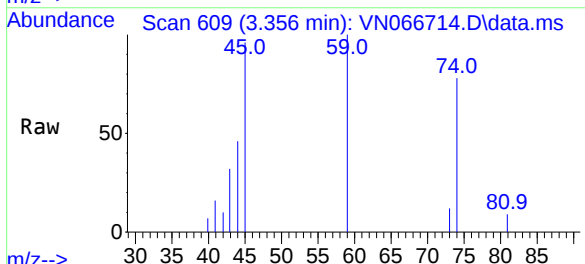
Instrument :
MSVOA_N
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210421084-02-VOA

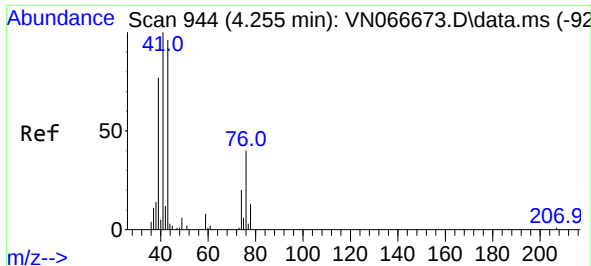
Tgt Ion:128 Resp: 50770
Ion Ratio Lower Upper
128 100
49 177.4 0.0 429.3
130 128.1 0.0 328.5



#8
Diethyl Ether
Concen: 2.30 ug/l
RT: 3.356 min Scan# 609
Delta R.T. 0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion: 74 Resp: 4215
Ion Ratio Lower Upper
74 100
45 126.3 19.6 176.4

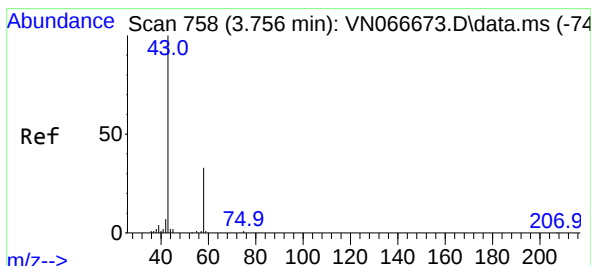
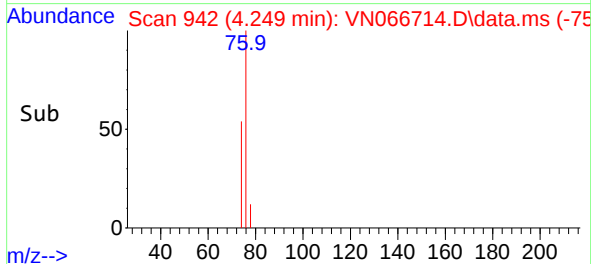
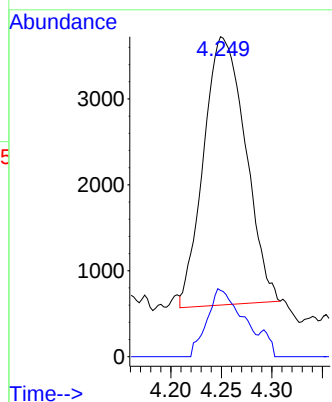
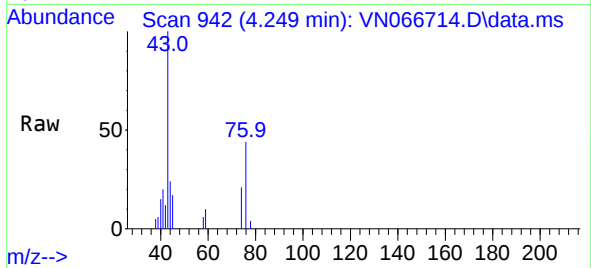




#12
Methyl Acetate
Concen: 2.51 ug/l
RT: 4.249 min Scan# 942
Delta R.T. -0.006 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

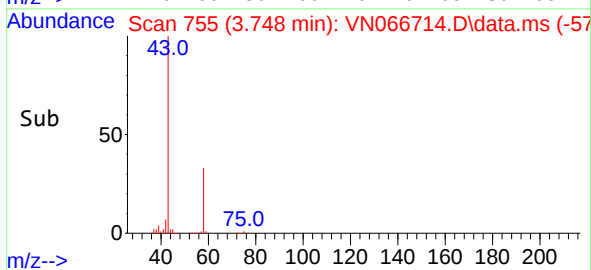
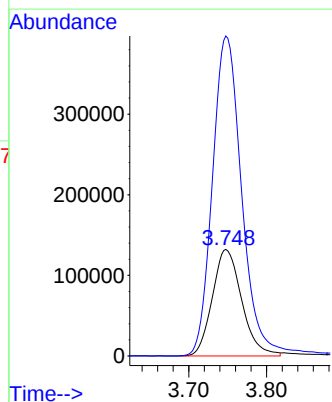
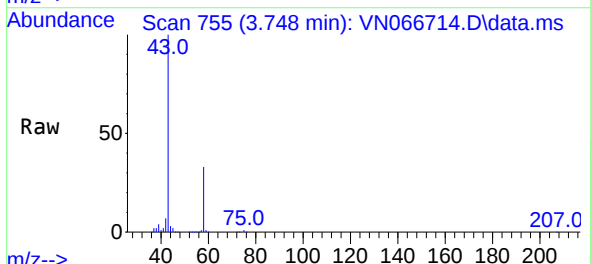
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MSVOA_N
ClientSampleId :
210421084-02-VOA

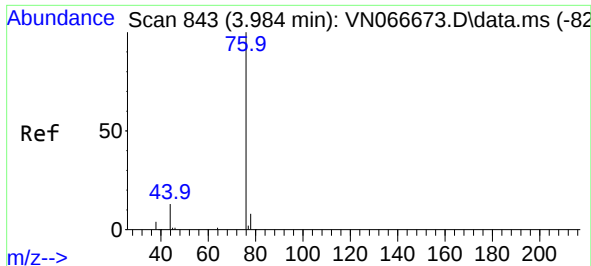
Tgt Ion: 43 Resp: 9014
Ion Ratio Lower Upper
43 100
74 25.3 18.0 27.0



#15
Acetone
Concen: 835.22 ug/l
RT: 3.748 min Scan# 755
Delta R.T. -0.008 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion: 58 Resp: 346521
Ion Ratio Lower Upper
58 100
43 300.2 267.3 400.9

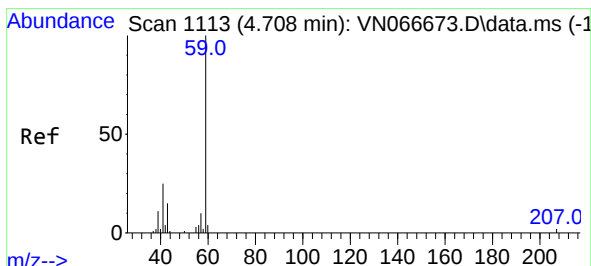
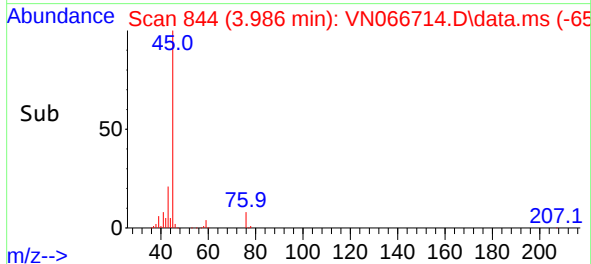
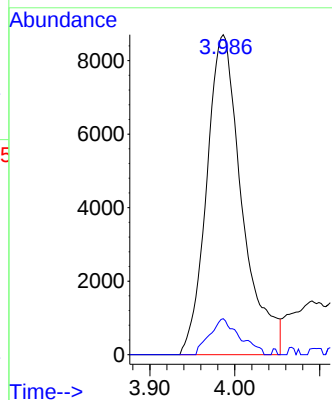
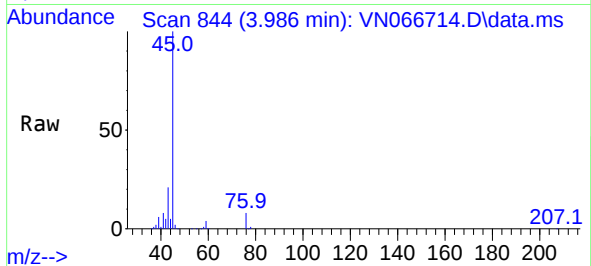




#16
Carbon Disulfide
Concen: 3.09 ug/l
RT: 3.986 min Scan# 844
Delta R.T. 0.002 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

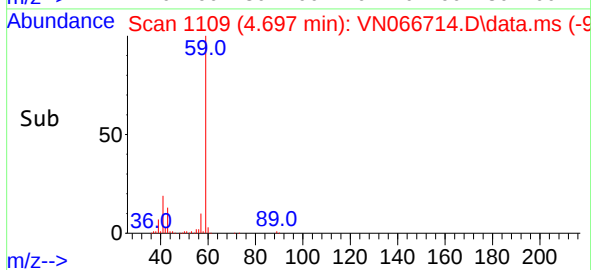
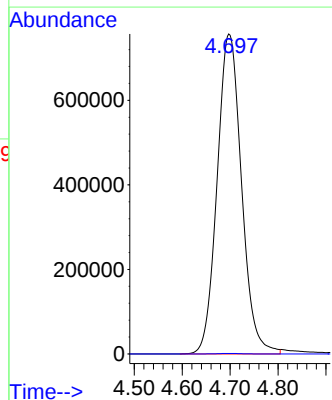
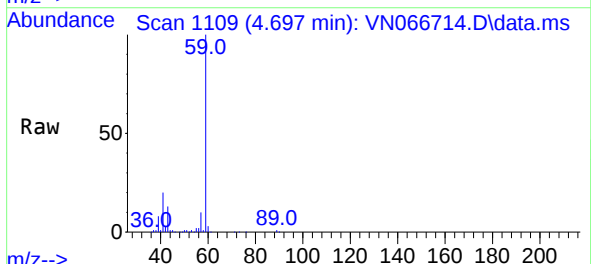
Instrument :
MSVOA_N
ClientSampleId :
210421084-02-VOA

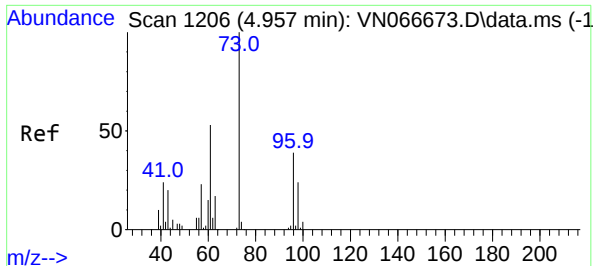
Tgt Ion: 76 Resp: 25164
Ion Ratio Lower Upper
76 100
78 11.2 7.0 10.6#



#23
tert-Butyl Alcohol
Concen: 4972.04 ug/l
RT: 4.697 min Scan# 1109
Delta R.T. -0.011 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion: 59 Resp: 2675112
Ion Ratio Lower Upper
59 100
52 0.2 0.1 0.1#



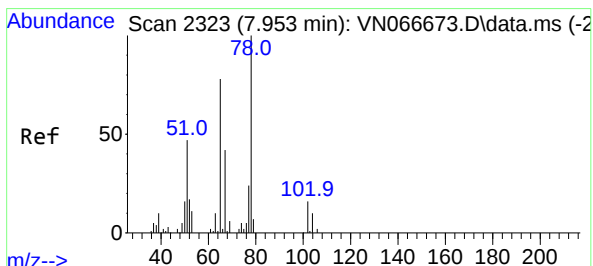
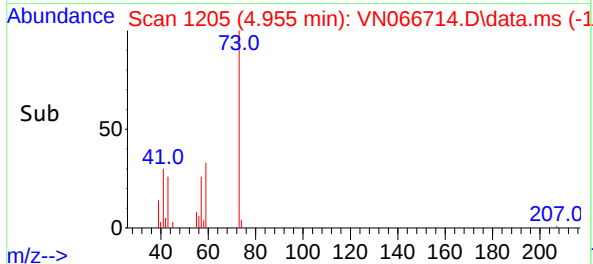
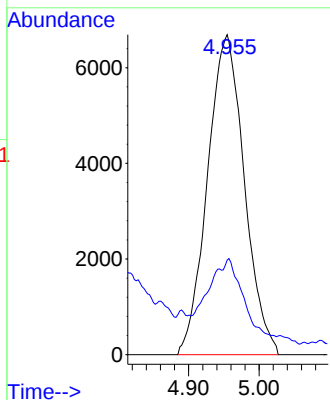
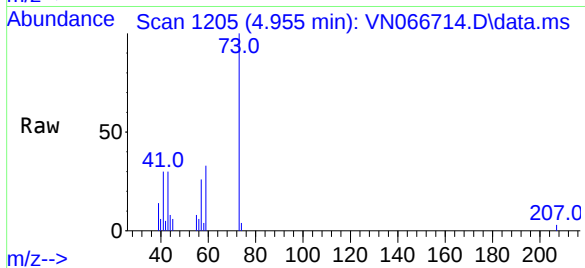


#24

Methyl tert-Butyl Ether
Concen: 2.64 ug/l
RT: 4.955 min Scan# 1205
Delta R.T. -0.002 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Instrument :
MSVOA_N
ClientSampleId :
210421084-02-VOA

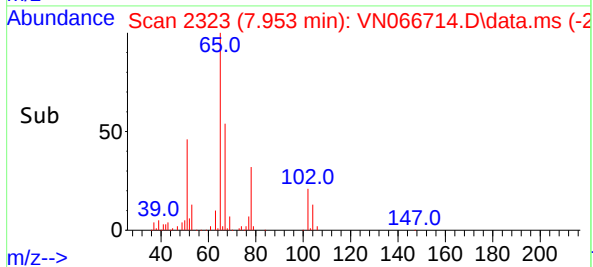
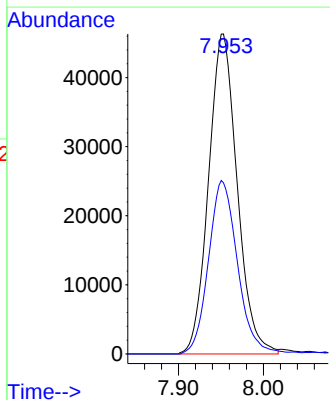
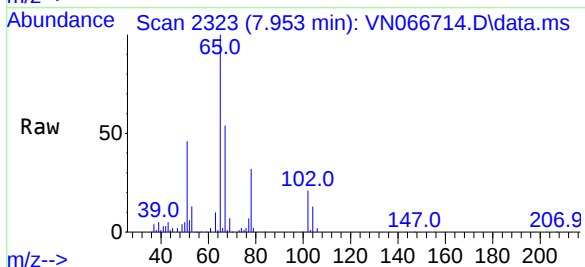
Tgt Ion: 73 Resp: 24264
Ion Ratio Lower Upper
73 100
43 0.1 18.5 27.7#

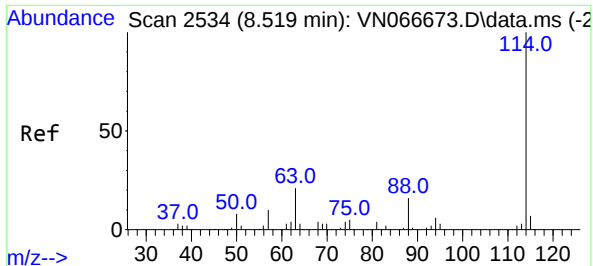


#27

1,2-Dichloroethane-d4
Concen: 29.66 ug/l
RT: 7.953 min Scan# 2323
Delta R.T. -0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion: 65 Resp: 108516
Ion Ratio Lower Upper
65 100
67 54.7 42.2 63.4

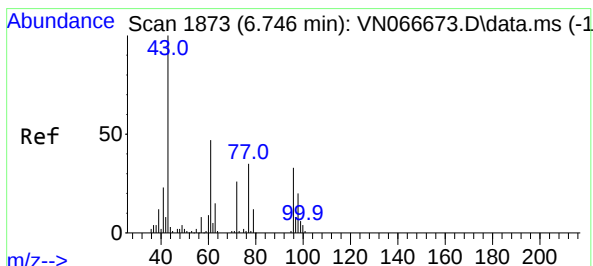
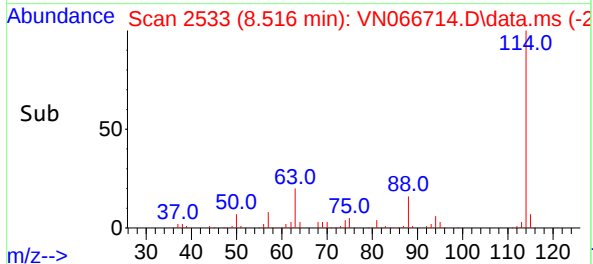
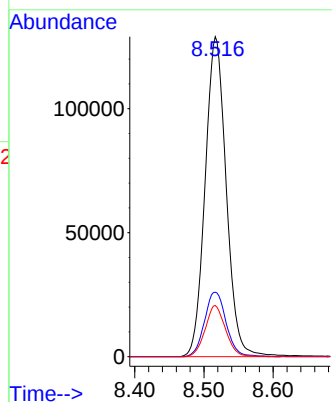
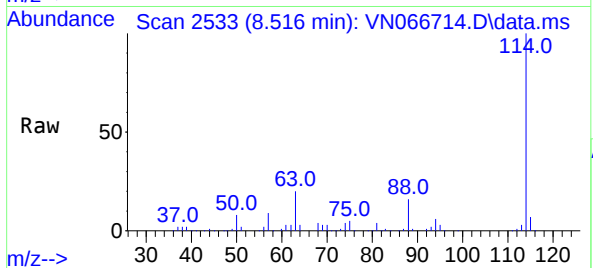




#28
1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 8.516 min Scan# 2533
Delta R.T. -0.003 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

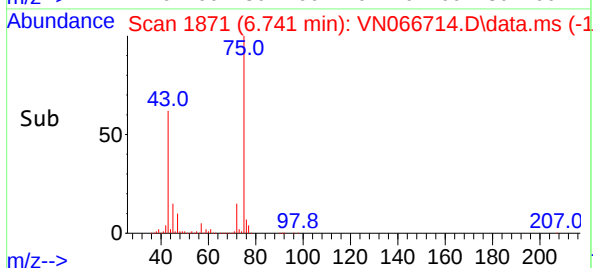
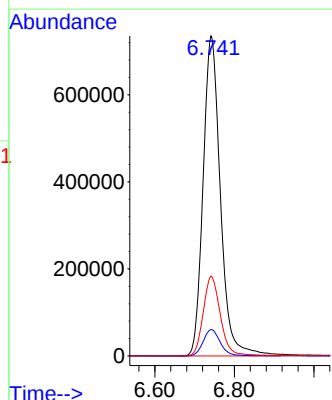
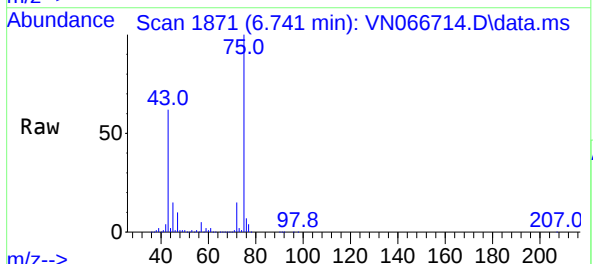
Instrument :
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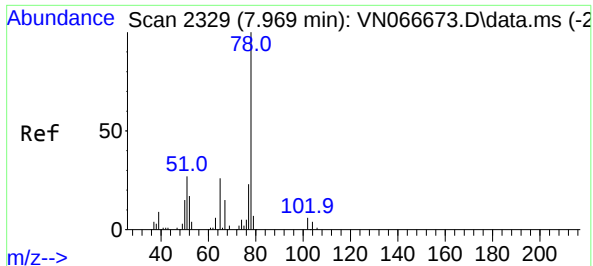
Tgt Ion:114 Resp: 273137
Ion Ratio Lower Upper
114 100
63 20.8 17.4 26.0
88 15.5 12.6 19.0



#30
2-Butanone
Concen: 1071.84 ug/l
RT: 6.741 min Scan# 1871
Delta R.T. -0.005 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion: 43 Resp: 2225360
Ion Ratio Lower Upper
43 100
57 8.1 6.9 10.3
72 24.6 20.9 31.3

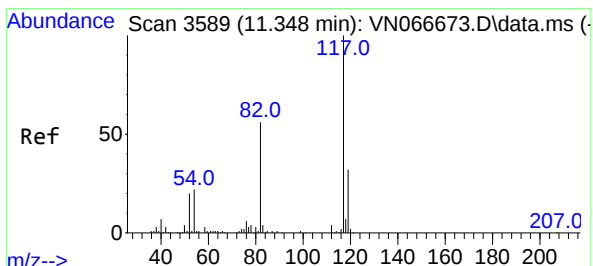
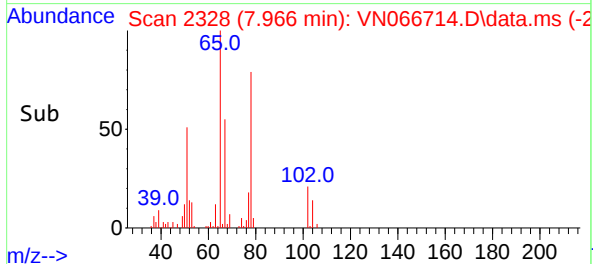
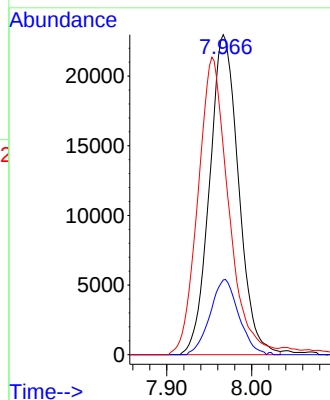
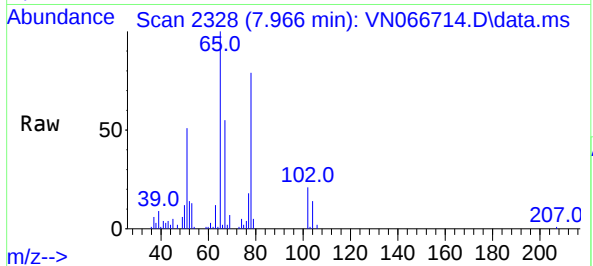




#34
Benzene
Concen: 3.93 ug/l
RT: 7.966 min Scan# 2328
Delta R.T. -0.003 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

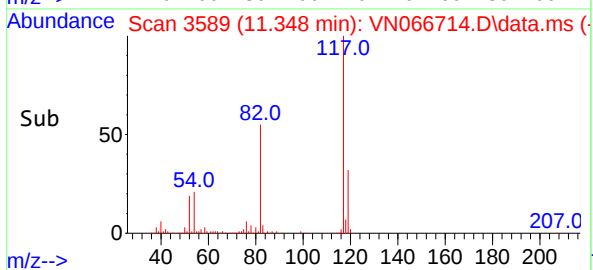
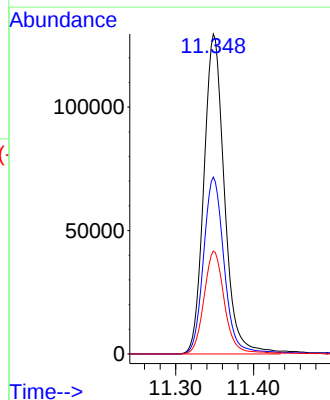
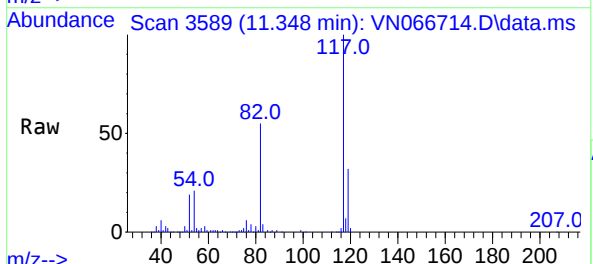
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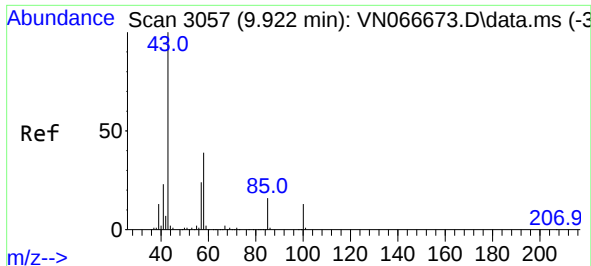
Tgt Ion:	78	Resp:	54492
Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	27.8
51	62.7	21.9	32.9#



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.348 min Scan# 3589
Delta R.T. 0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion:	117	Resp:	238084
Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.0	67.6
119	32.0	25.5	38.3

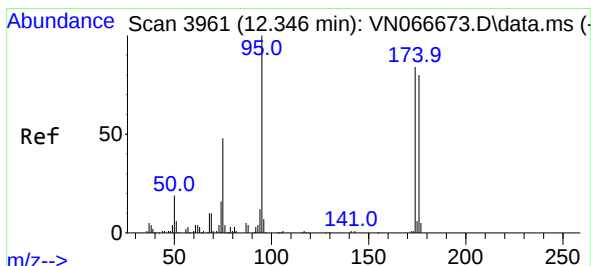
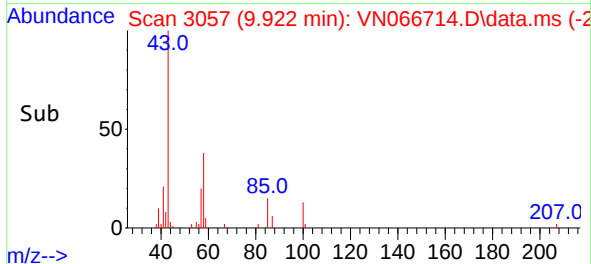
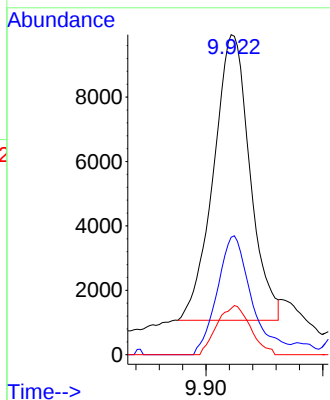
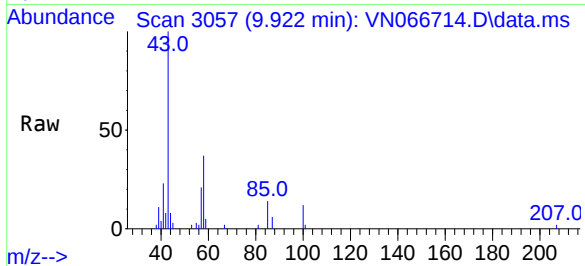




#58
4-Methyl-2-Pentanone
Concen: 4.73 ug/l
RT: 9.922 min Scan# 3057
Delta R.T. -0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

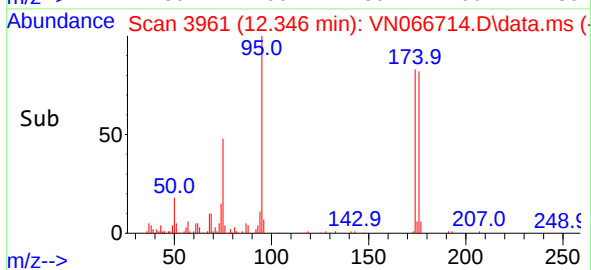
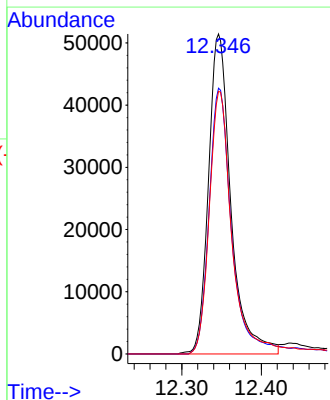
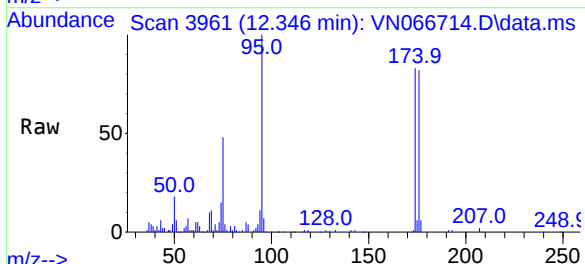
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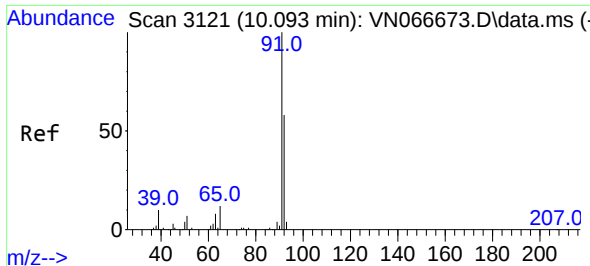
Tgt Ion:	43	Resp:	19196
Ion	Ratio	Lower	Upper
43	100		
58	39.5	30.4	45.6
85	15.7	13.8	20.8



#60
4-Bromofluorobenzene
Concen: 27.07 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. 0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion:	95	Resp:	101008
Ion	Ratio	Lower	Upper
95	100		
174	81.9	68.1	102.1
176	80.3	65.4	98.0

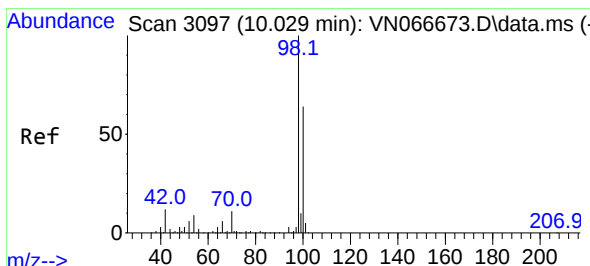
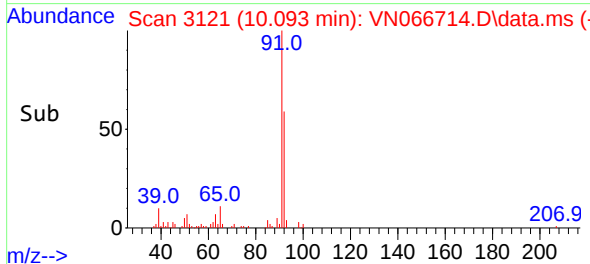
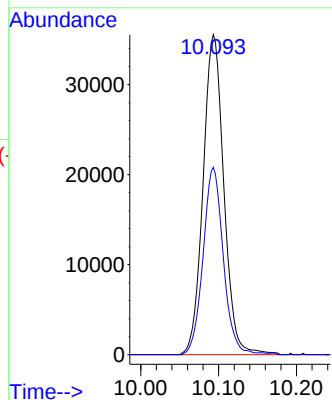
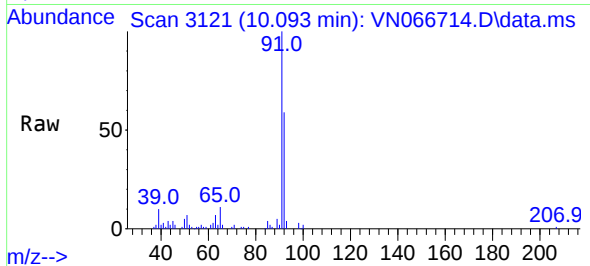




#62
Toluene
Concen: 4.89 ug/l
RT: 10.093 min Scan# 3121
Delta R.T. 0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

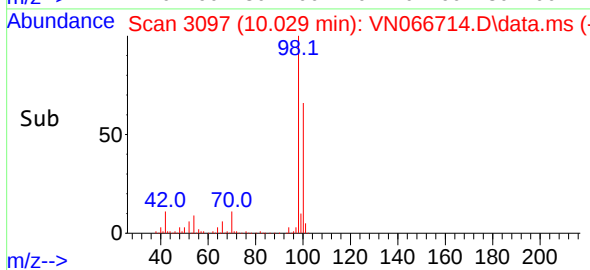
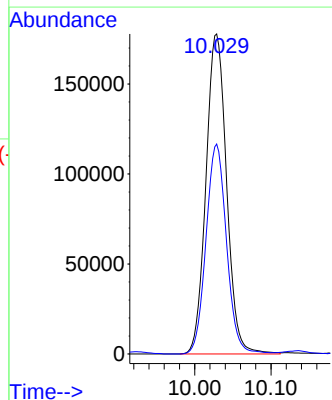
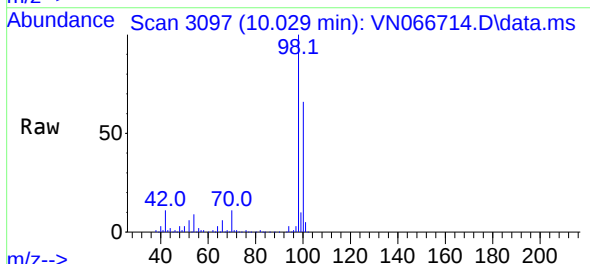
Instrument :
MSVOA_N
ClientSampleId :
210421084-02-VOA

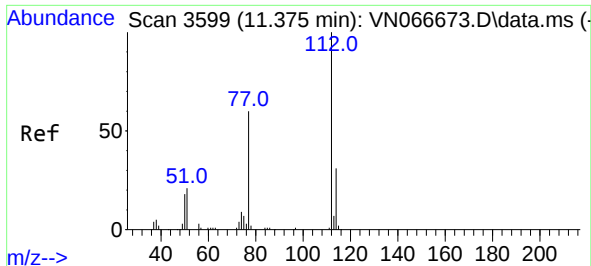
Tgt Ion: 91 Resp: 66124
Ion Ratio Lower Upper
91 100
92 56.7 46.2 69.2



#63
Toluene-d8
Concen: 30.52 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion: 98 Resp: 334331
Ion Ratio Lower Upper
98 100
100 65.2 51.1 76.7

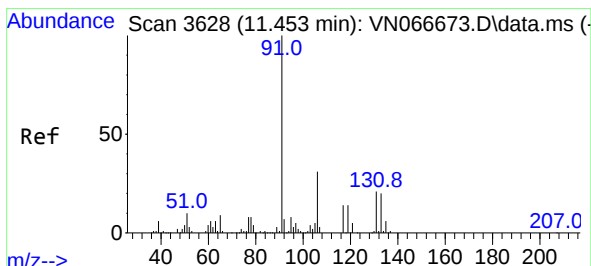
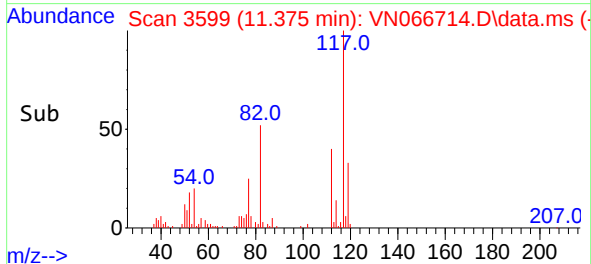
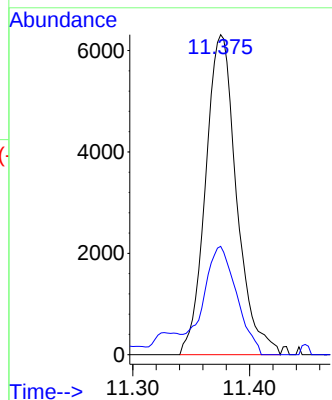
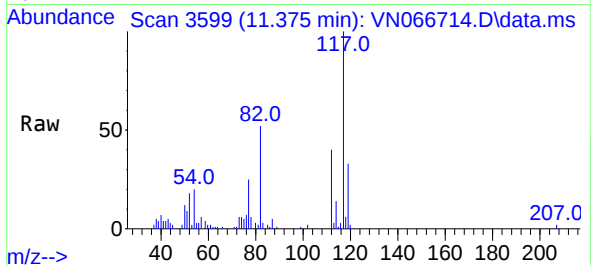




#64
Chlorobenzene
Concen: 1.44 ug/l
RT: 11.375 min Scan# 3599
Delta R.T. 0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

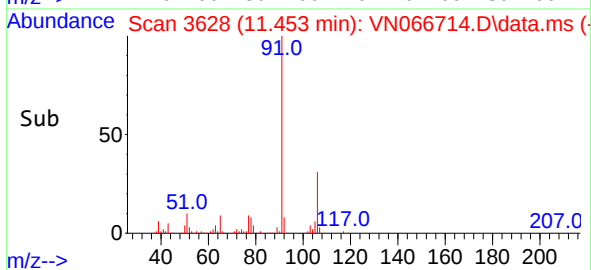
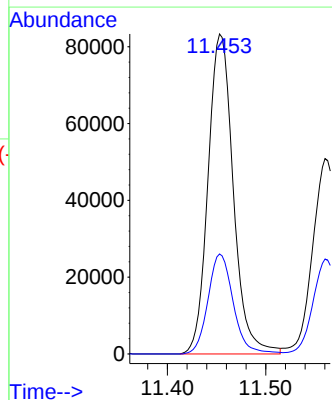
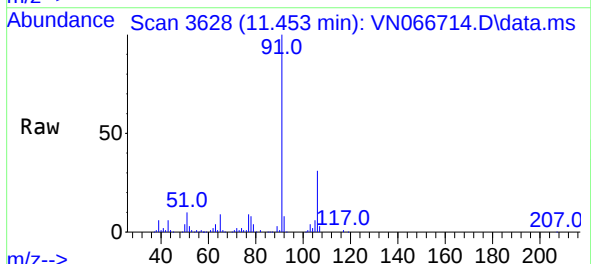
Instrument :
MSVOA_N
ClientSampleId :
210421084-02-VOA

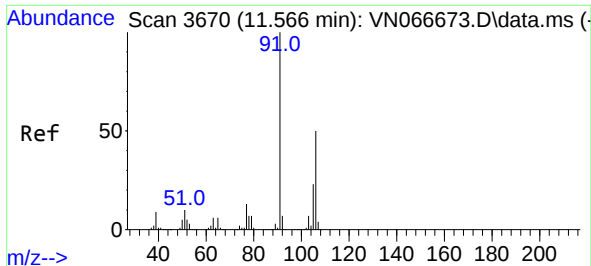
Tgt Ion:112 Resp: 11653
Ion Ratio Lower Upper
112 100
114 33.9 25.6 38.4



#66
Ethyl Benzene
Concen: 10.32 ug/l
RT: 11.453 min Scan# 3628
Delta R.T. -0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion: 91 Resp: 149016
Ion Ratio Lower Upper
91 100
106 31.2 25.5 38.3

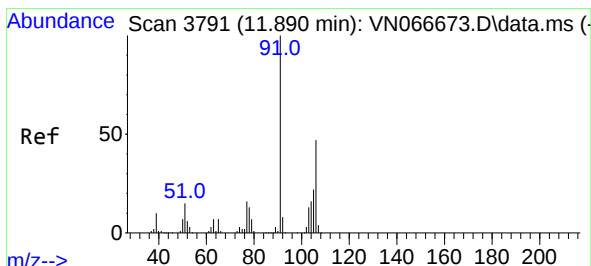
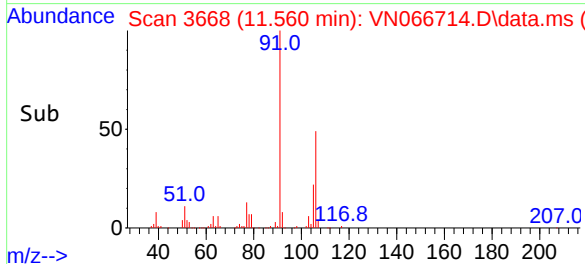
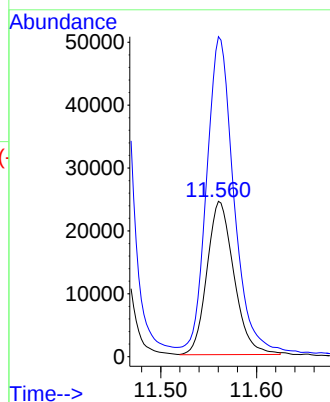
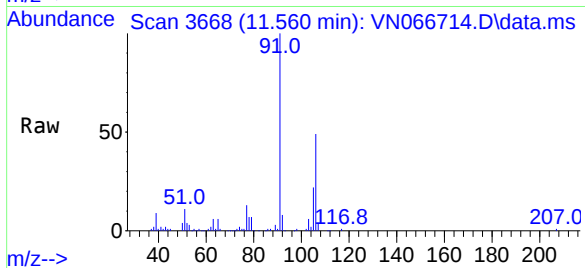




#67
m/p-Xylenes
Concen: 8.79 ug/l
RT: 11.560 min Scan# 3668
Delta R.T. -0.006 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

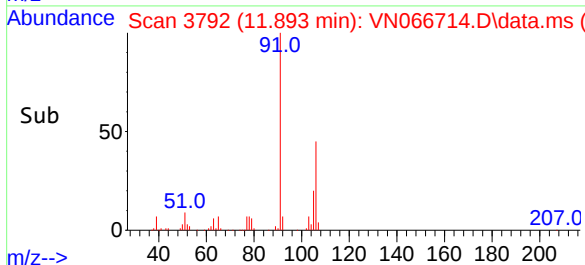
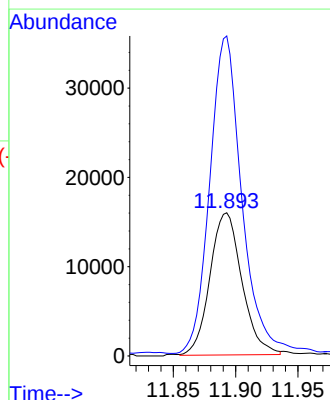
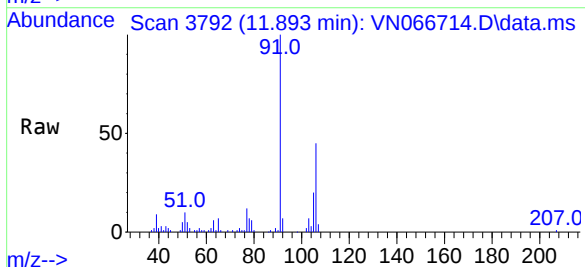
Instrument :
MSVOA_N
ClientSampleId :
210421084-02-VOA

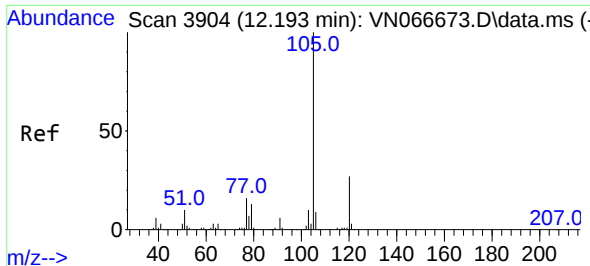
Tgt Ion:106 Resp: 47632
Ion Ratio Lower Upper
106 100
91 209.7 164.8 247.2



#68
o-Xylene
Concen: 5.41 ug/l
RT: 11.893 min Scan# 3792
Delta R.T. 0.003 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion:106 Resp: 28451
Ion Ratio Lower Upper
106 100
91 224.1 107.1 321.4

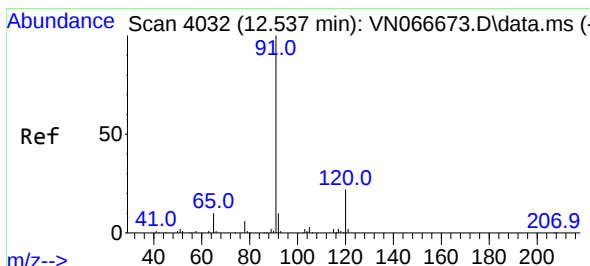
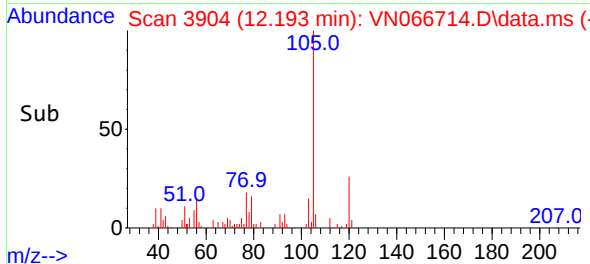
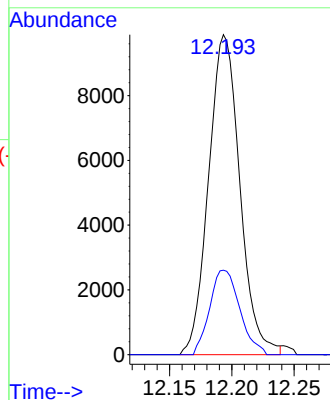
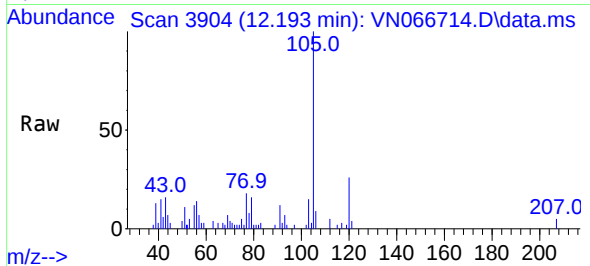




#70
Isopropylbenzene
Concen: 1.26 ug/l
RT: 12.193 min Scan# 3904
Delta R.T. 0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

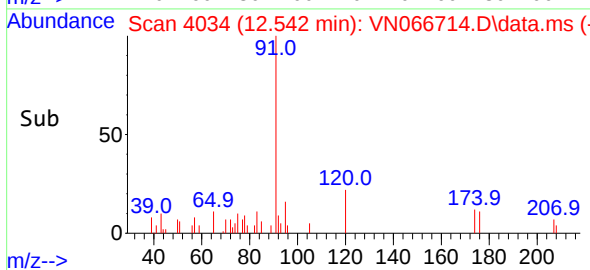
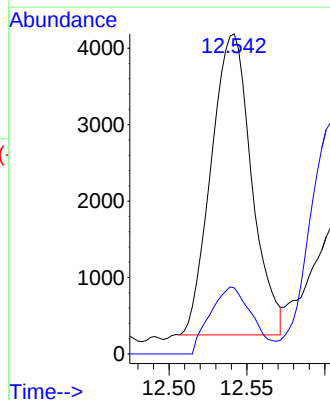
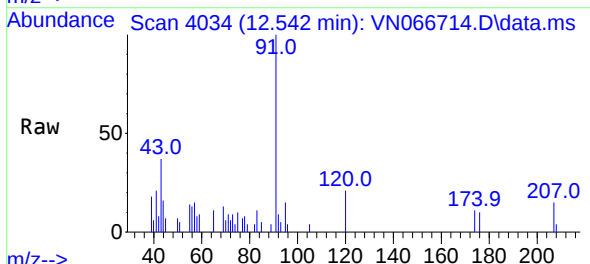
Instrument :
MSVOA_N
ClientSampleId :
210421084-02-VOA

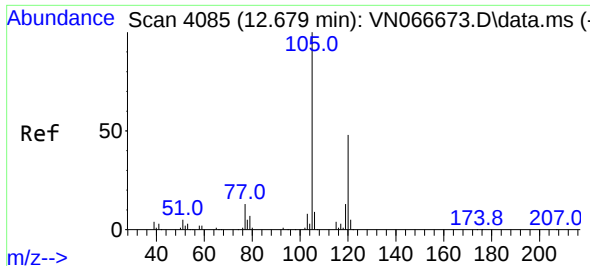
Tgt Ion:105 Resp: 17269
Ion Ratio Lower Upper
105 100
120 25.4 18.7 34.7



#74
n-propylbenzene
Concen: 0.45 ug/l
RT: 12.542 min Scan# 4034
Delta R.T. 0.005 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion: 91 Resp: 7112
Ion Ratio Lower Upper
91 100
120 23.3 0.0 45.2

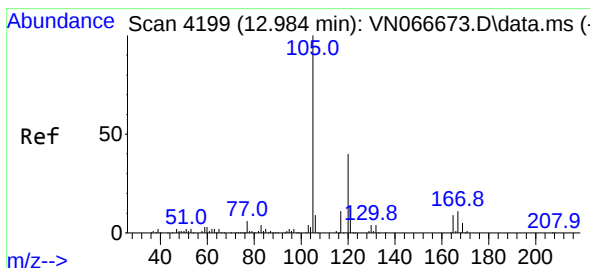
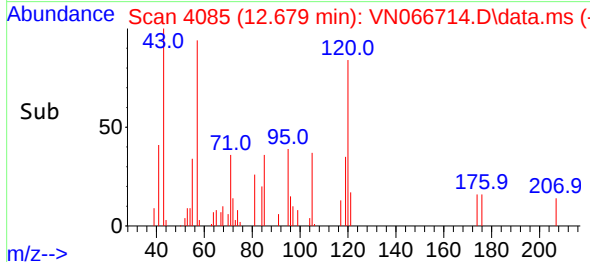
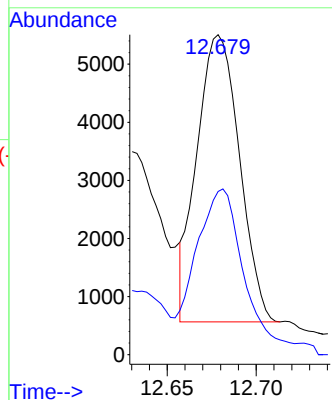
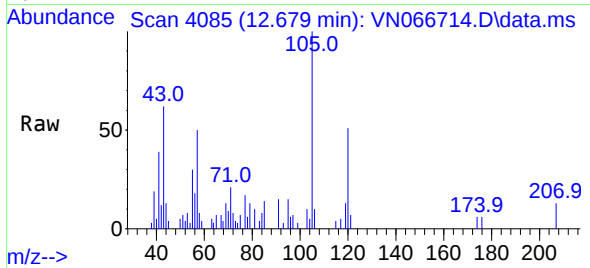




#76
1,3,5-Trimethylbenzene
Concen: 0.71 ug/l
RT: 12.679 min Scan# 4085
Delta R.T. -0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

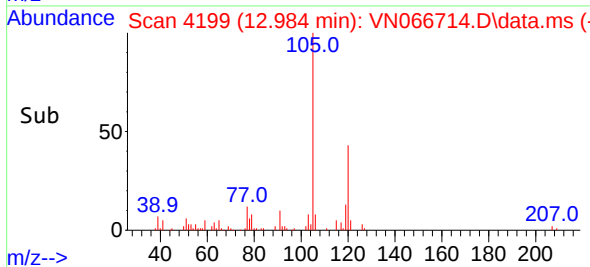
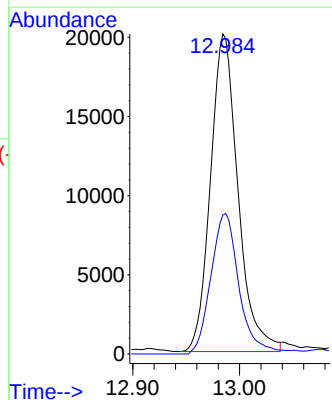
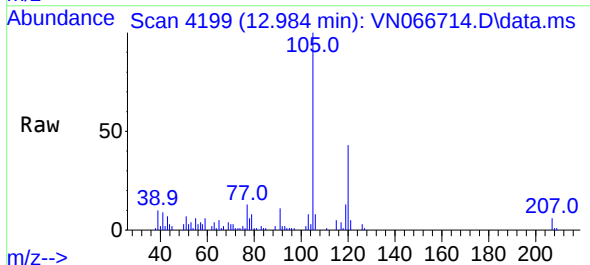
Instrument :
MSVOA_N
ClientSampleId :
210421084-02-VOA

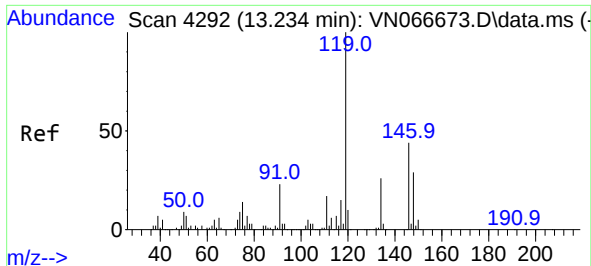
Tgt Ion:105 Resp: 8217
Ion Ratio Lower Upper
105 100
120 56.5 0.0 98.2



#80
1,2,4-Trimethylbenzene
Concen: 3.23 ug/l
RT: 12.984 min Scan# 4199
Delta R.T. 0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion:105 Resp: 35967
Ion Ratio Lower Upper
105 100
120 45.1 0.0 90.6

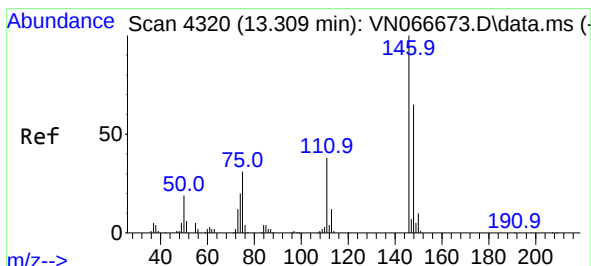
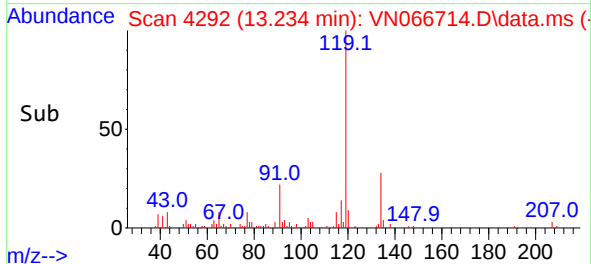
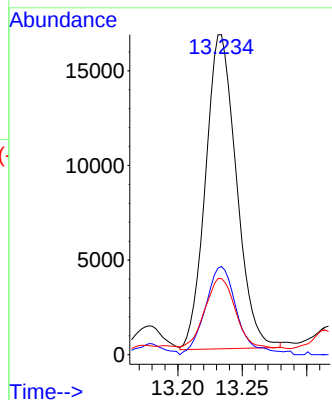
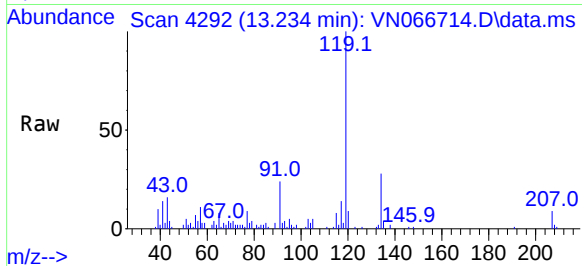




#82
p-Isopropyltoluene
Concen: 2.50 ug/l
RT: 13.234 min Scan# 4292
Delta R.T. -0.000 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

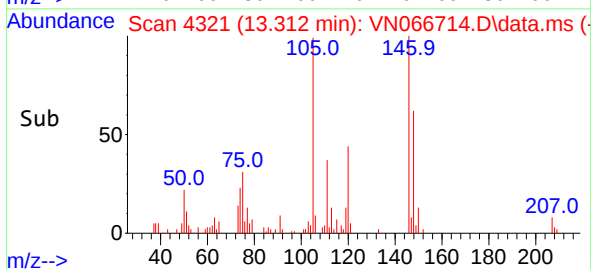
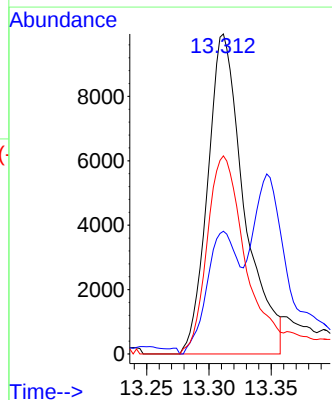
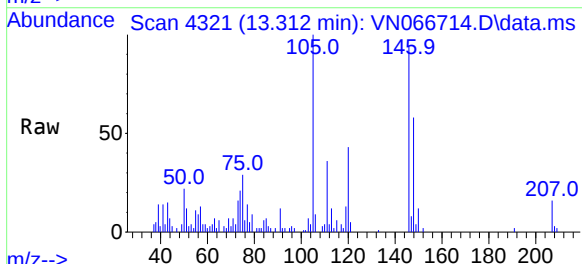
Instrument :
MSVOA_N
ClientSampleId :
210421084-02-VOA

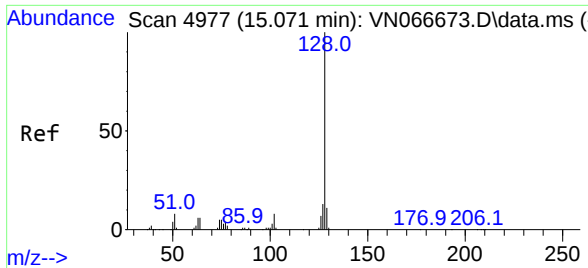
Tgt Ion:	119	Resp:	27650
Ion Ratio	Lower	Upper	
119	100		
134	28.6	0.0	53.4
91	21.5	0.0	47.6



#84
1,4-Dichlorobenzene
Concen: 3.63 ug/l
RT: 13.312 min Scan# 4321
Delta R.T. 0.003 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Tgt Ion:	146	Resp:	20215
Ion Ratio	Lower	Upper	
146	100		
111	33.7	18.4	55.0
148	65.3	31.9	95.5





#91
Naphthalene
Concen: 47.80 ug/l
RT: 15.068 min Scan# 4976
Delta R.T. -0.003 min
Lab File: VN066714.D
Acq: 22 Apr 2021 15:03

Instrument :
MSVOA_N
ClientSampleId :
210421084-02-VOA

Tgt Ion:128 Resp: 376234
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.8 8.6 13.0

