

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV070621\
 Data File : VV021609.D
 Acq On : 06 Jul 2021 12:09
 Operator : SY/MD
 Sample : M2914-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DBK23

Quant Time: Jul 07 01:03:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 07 01:00:10 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	373155	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	345937	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	180342	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	149011	63.115	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	=	126.240%	
7) Chloroethane-d5	1.561	69	132885	68.866	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	137.740%#	
11) 1,1-Dichloroethene-d2	2.105	63	231173	53.517	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	107.040%	
21) 2-Butanone-d5	3.867	46	330004	163.663	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	=	163.660%#	
24) Chloroform-d	4.343	84	359537	72.805	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	145.620%#	
26) 1,2-Dichloroethane-d4	5.027	65	222912	76.606	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	153.220%#	
32) Benzene-d6	5.047	84	724199	74.559	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	149.120%#	
36) 1,2-Dichloropropane-d6	6.066	67	237821	77.630	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	=	155.260%#	
41) Toluene-d8	7.314	98	665425	74.077	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	148.160%#	
43) trans-1,3-Dichloroprop...	7.619	79	112723	73.968	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	147.940%#	
47) 2-Hexanone-d5	8.085	63	250863	176.534	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	=	176.530%#	
56) 1,1,2,2-Tetrachloroeth...	10.217	84	331617	80.342	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	=	160.680%#	
66) 1,2-Dichlorobenzene-d4	11.625	152	271616	75.545	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	151.100%#	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	26296	8.549	ug/L	91
12) 1,1-Dichloroethene	2.114	96	12996	6.098	ug/L #	1
13) Acetone	2.159	43	2781691	1668.721	ug/L #	100
16) Methylene chloride	2.503	84	43276	14.959	ug/L	98
17) trans-1,2-Dichloroethene	2.761	96	9778	3.761	ug/L	98
19) 1,1-Dichloroethane	3.188	63	165790	35.007	ug/L	100
20) cis-1,2-Dichloroethene	3.909	96	155839	53.904	ug/L	97
22) 2-Butanone	3.960	43	94632	41.106	ug/L	97
27) 1,2-Dichloroethane	5.130	62	7856	2.237	ug/L	100
29) Cyclohexane	4.674	56	12009	2.749	ug/L	96
30) 1,1,1-Trichloroethane	4.606	97	57681	13.263	ug/L	99
33) Benzene	5.095	78	534612	50.780	ug/L	100
34) Trichloroethene	5.912	95	101096	35.525	ug/L	99
35) Methylcyclohexane	6.130	83	11486	2.542	ug/L	95
37) 1,2-Dichloropropane	6.172	63	30705	11.221	ug/L	98
40) 4-Methyl-2-pentanone	7.224	43	2198085	547.200	ug/L	100
42) Toluene	7.384	91	2293947	203.427	ug/L	100
46) Tetrachloroethene	7.976	164	21903	9.677	ug/L	97
48) 2-Hexanone	8.137	43	177604	55.936	ug/L	97

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

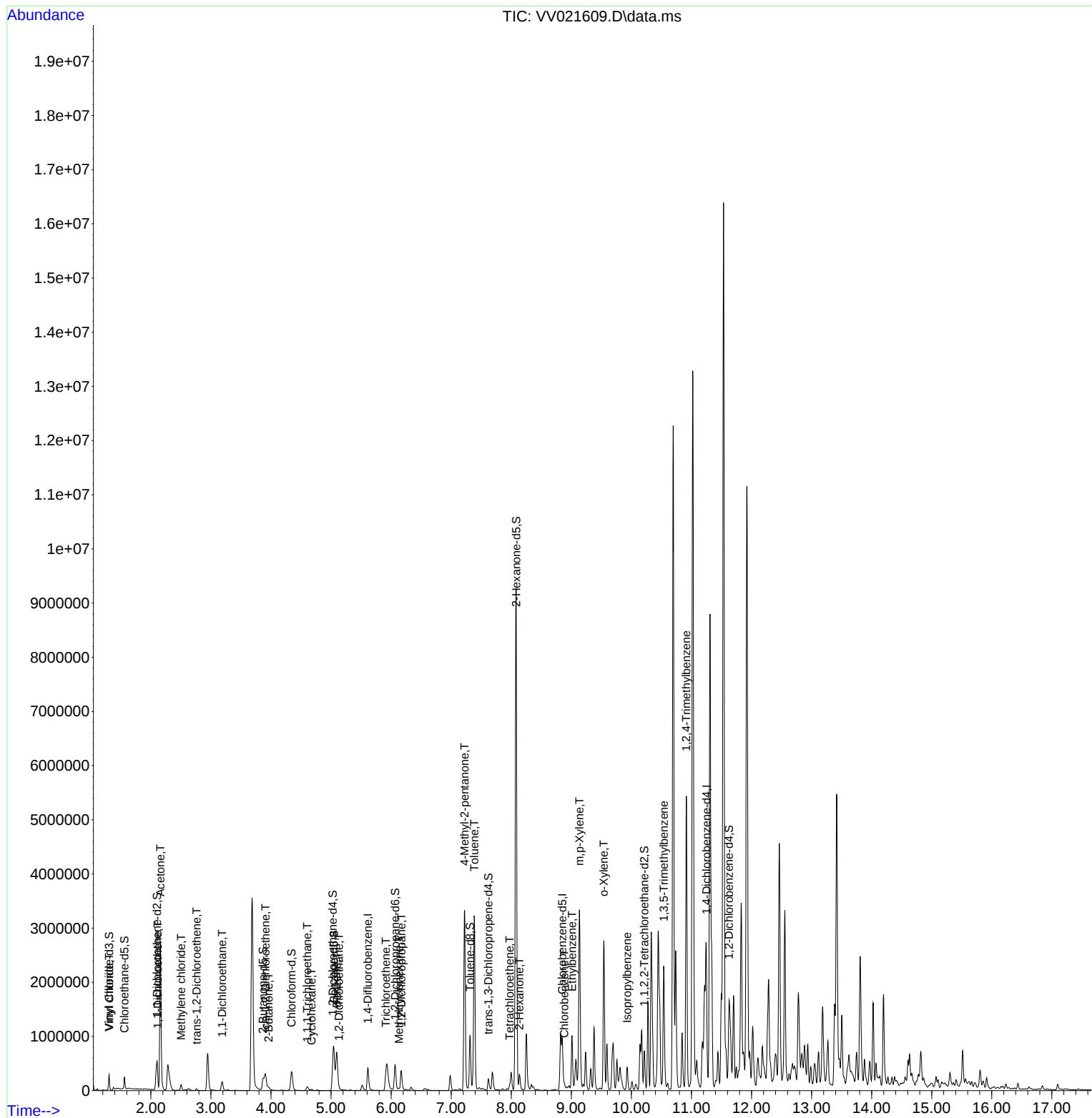
51) Chlorobenzene	8.883	112	43331	5.905	ug/L	92
52) Ethylbenzene	9.011	91	704657	57.519	ug/L	99
53) m,p-Xylene	9.137	106	865301	184.051	ug/L	99
54) o-Xylene	9.542	106	715014	152.443	ug/L	99
60) Isopropylbenzene	9.931	105	250233	20.343	ug/L	100
62) 1,3,5-Trimethylbenzene	10.539	105	1174366	112.022	ug/L	99
63) 1,2,4-Trimethylbenzene	10.915	105	2841440	267.831	ug/L	100

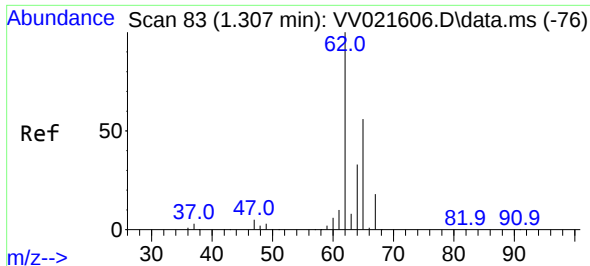
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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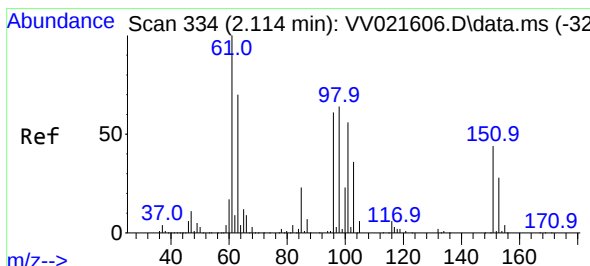
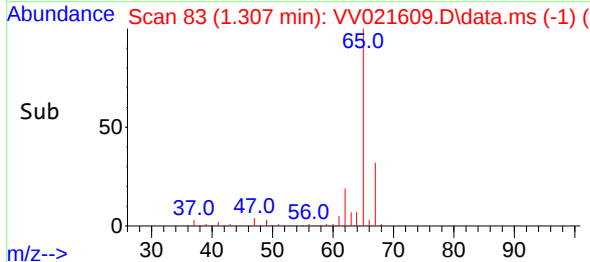
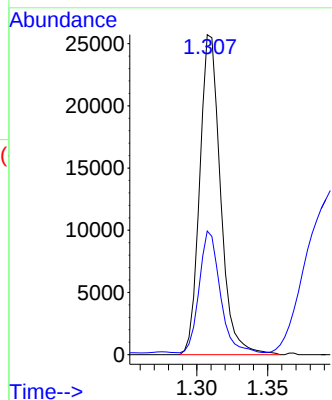
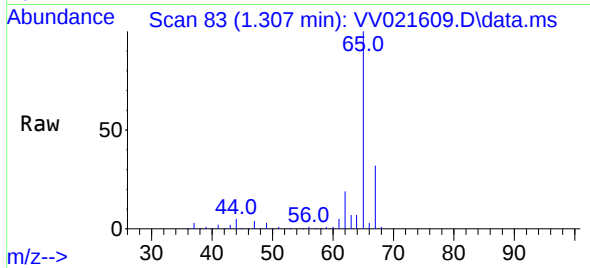




#5
 Vinyl chloride
 Concen: 8.549 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VV021609.D
 Acq: 06 Jul 2021 12:09

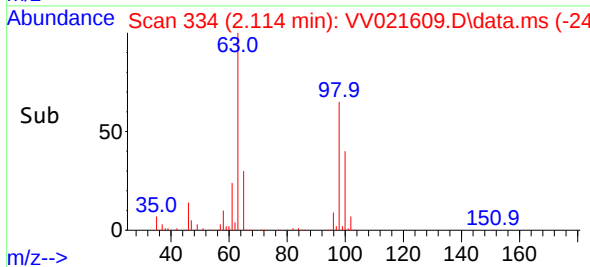
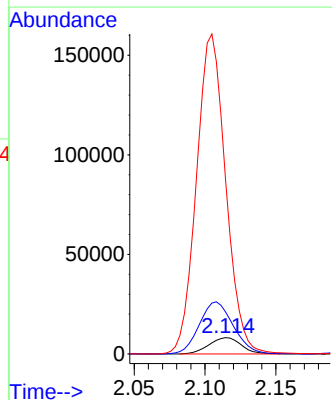
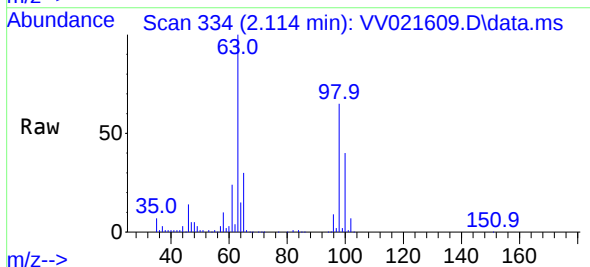
Instrument :
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 ClientSampled :
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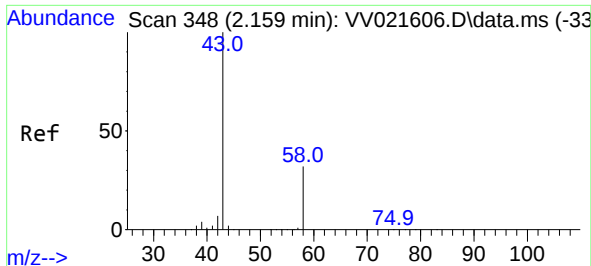
Tgt Ion: 62 Resp: 26296
 Ion Ratio Lower Upper
 62 100
 64 38.7 23.3 43.3



#12
 1,1-Dichloroethene
 Concen: 6.098 ug/L
 RT: 2.114 min Scan# 334
 Delta R.T. 0.000 min
 Lab File: VV021609.D
 Acq: 06 Jul 2021 12:09

Tgt Ion: 96 Resp: 12996
 Ion Ratio Lower Upper
 96 100
 61 256.8 112.9 209.7#
 63 1067.1 90.8 168.6#

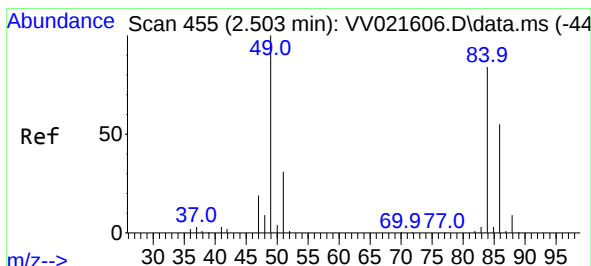
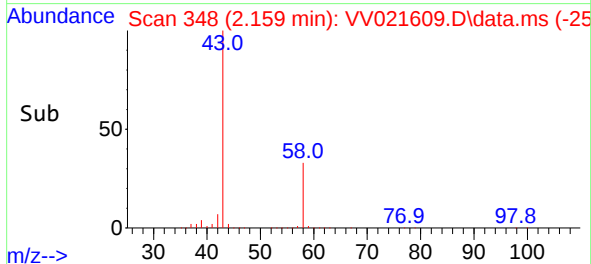
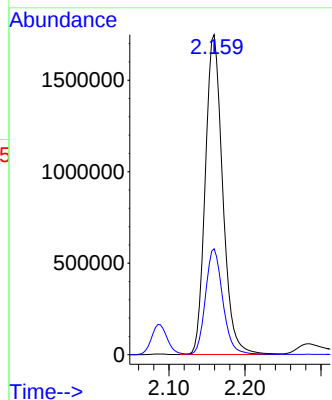
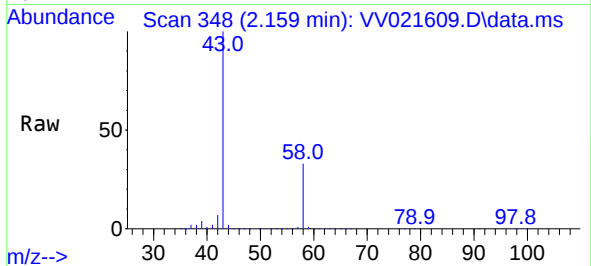




#13
Acetone
Concen: 1668.721 ug/L
RT: 2.159 min Scan# 348
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

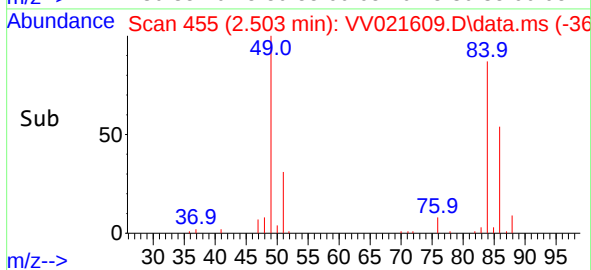
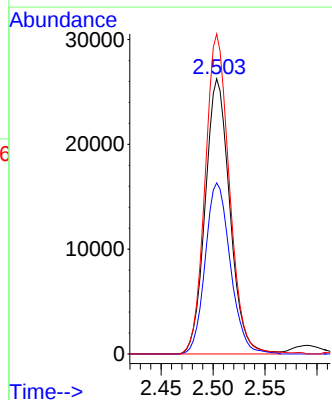
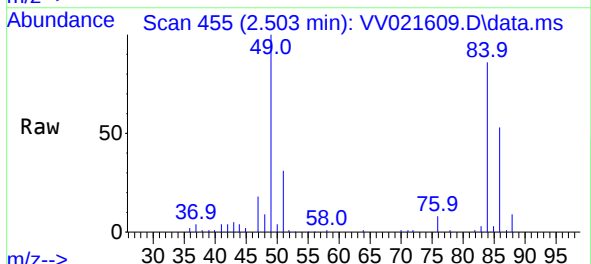
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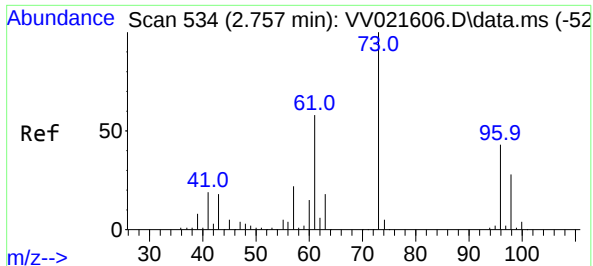
Tgt Ion: 43 Resp: 2781691
Ion Ratio Lower Upper
43 100
58 33.1 0.0 0.0#



#16
Methylene chloride
Concen: 14.959 ug/L
RT: 2.503 min Scan# 455
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion: 84 Resp: 43276
Ion Ratio Lower Upper
84 100
86 62.1 45.1 83.9
49 116.3 82.5 153.3

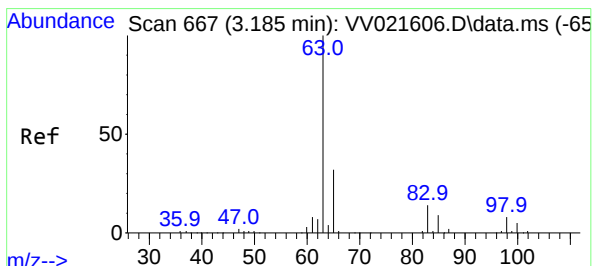
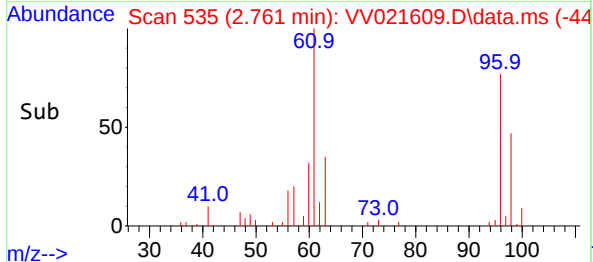
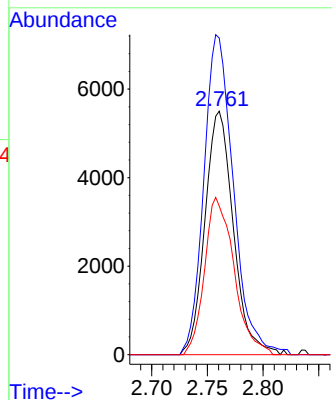
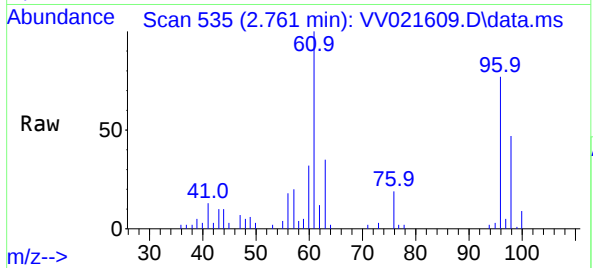




#17
trans-1,2-Dichloroethene
Concen: 3.761 ug/L
RT: 2.761 min Scan# 535
Delta R.T. 0.003 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

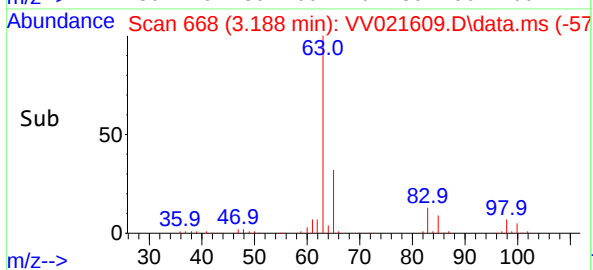
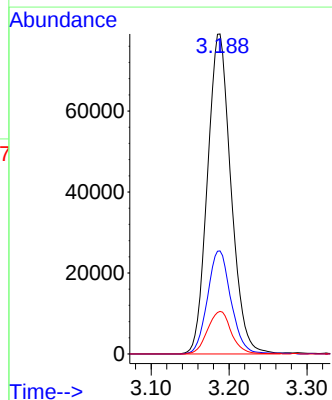
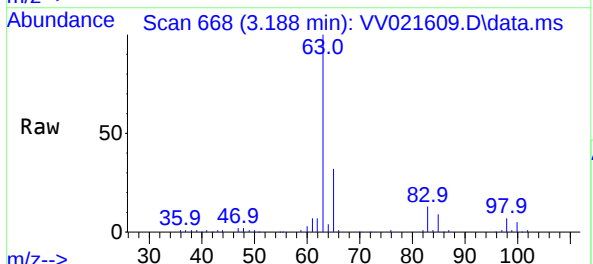
Instrument :
MSVOA_V
ClientSampled :
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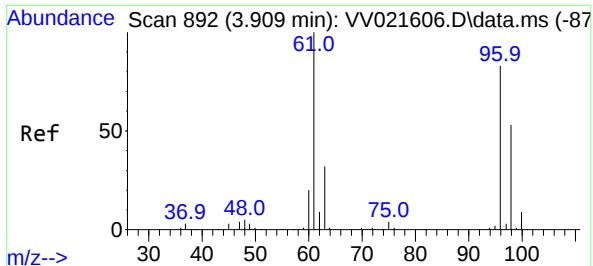
Tgt Ion: 96 Resp: 9778
Ion Ratio Lower Upper
96 100
61 130.1 93.0 172.6
98 61.0 44.2 82.0



#19
1,1-Dichloroethane
Concen: 35.007 ug/L
RT: 3.188 min Scan# 668
Delta R.T. 0.003 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion: 63 Resp: 165790
Ion Ratio Lower Upper
63 100
65 32.2 22.4 41.6
83 13.3 9.4 17.6

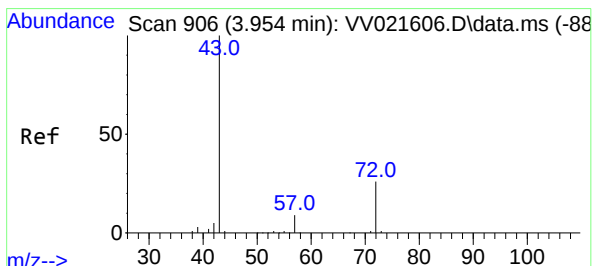
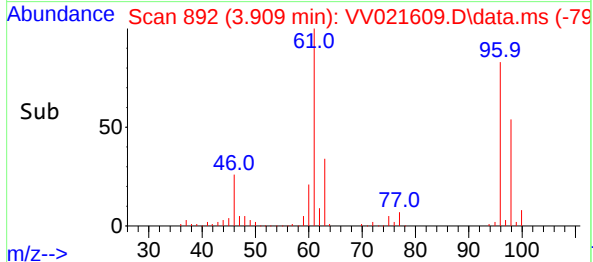
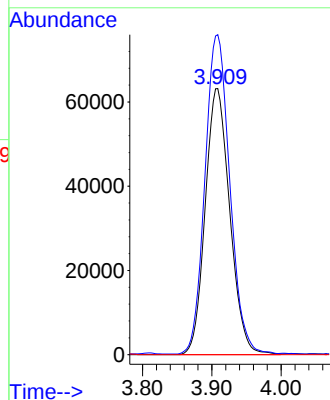
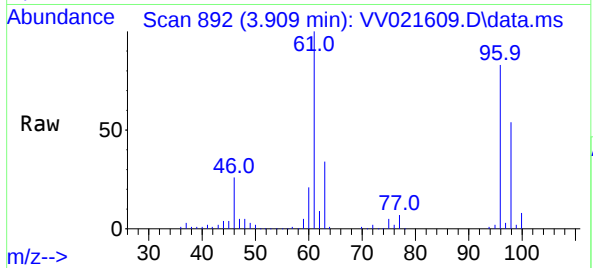




#20
cis-1,2-Dichloroethene
Concen: 53.904 ug/L
RT: 3.909 min Scan# 892
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

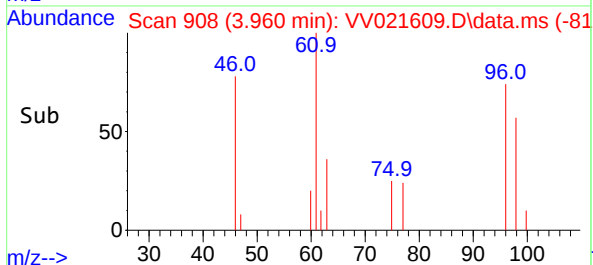
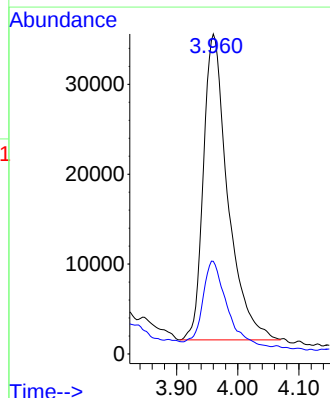
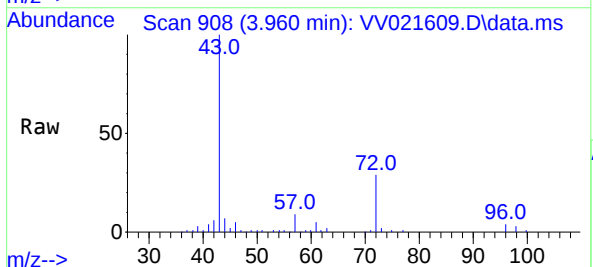
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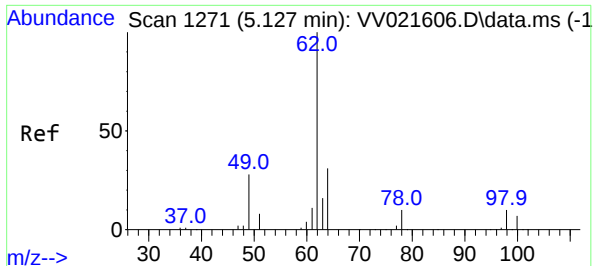
Tgt Ion: 96 Resp: 155839
Ion Ratio Lower Upper
96 100
61 120.3 86.9 161.3
68 0.0 0.0 0.0



#22
2-Butanone
Concen: 41.106 ug/L
RT: 3.960 min Scan# 908
Delta R.T. 0.006 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion: 43 Resp: 94632
Ion Ratio Lower Upper
43 100
72 27.9 13.3 39.8



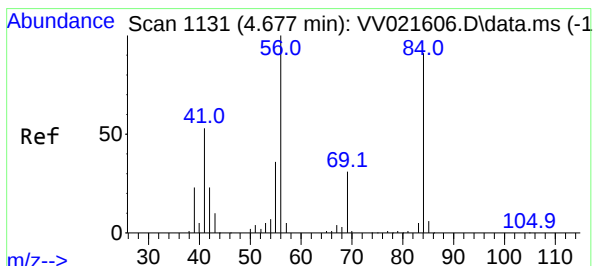
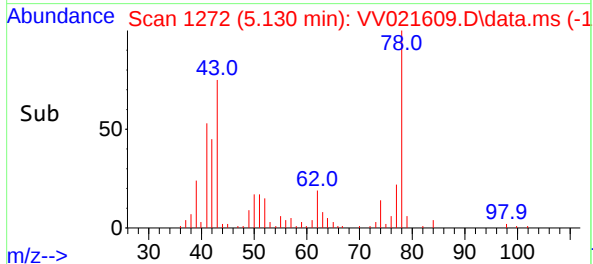
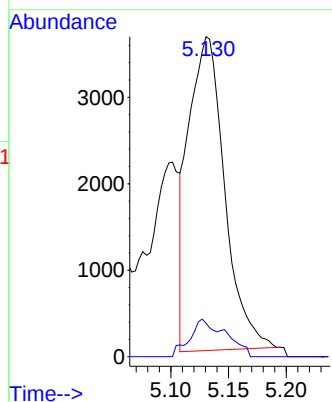
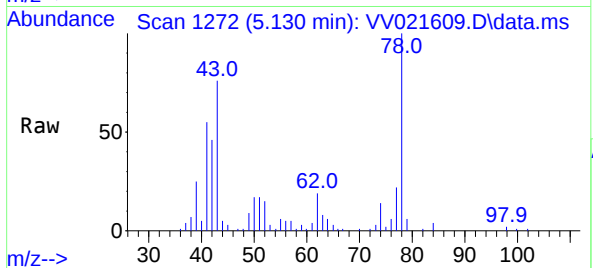


#27

1,2-Dichloroethane
Concen: 2.237 ug/L
RT: 5.130 min Scan# 1272
Delta R.T. 0.003 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

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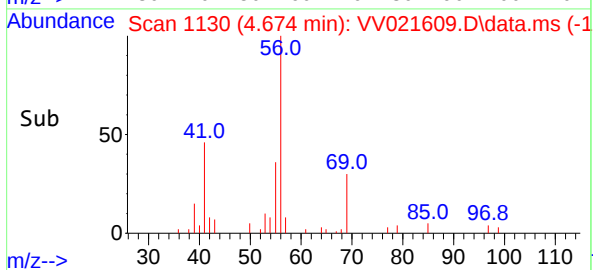
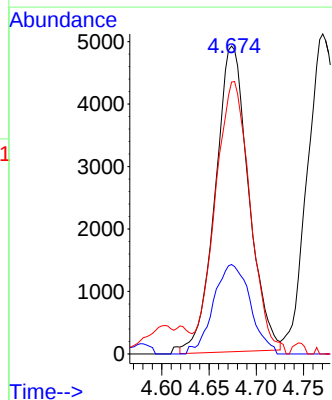
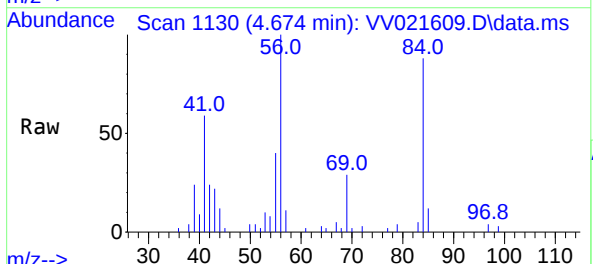
Tgt Ion: 62 Resp: 7856
Ion Ratio Lower Upper
62 100
98 10.5 8.2 12.4

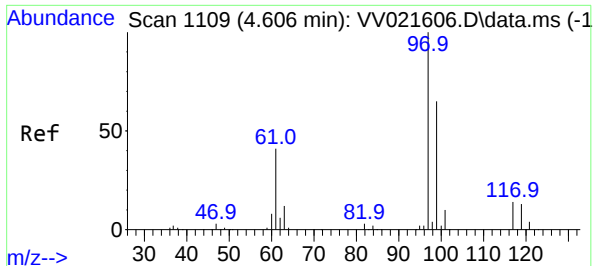


#29

Cyclohexane
Concen: 2.749 ug/L
RT: 4.674 min Scan# 1130
Delta R.T. -0.003 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion: 56 Resp: 12009
Ion Ratio Lower Upper
56 100
69 31.8 24.9 37.3
84 93.6 71.6 107.4

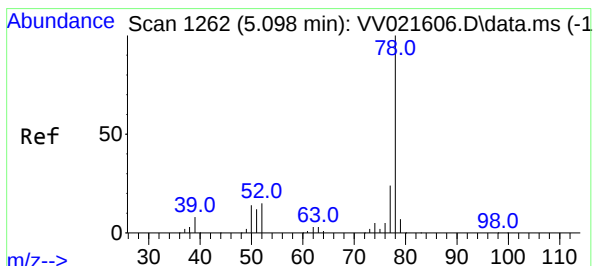
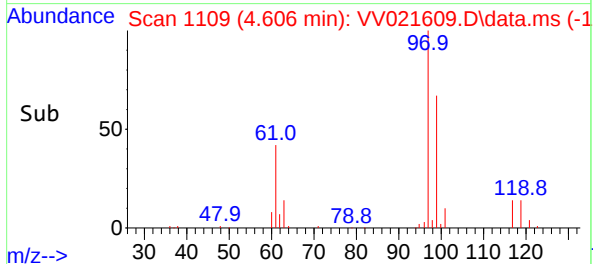
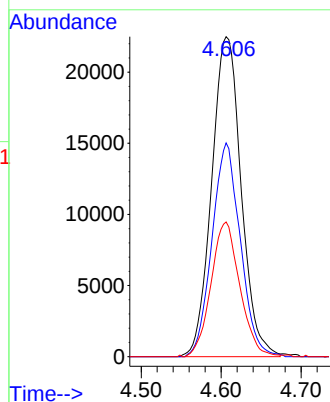
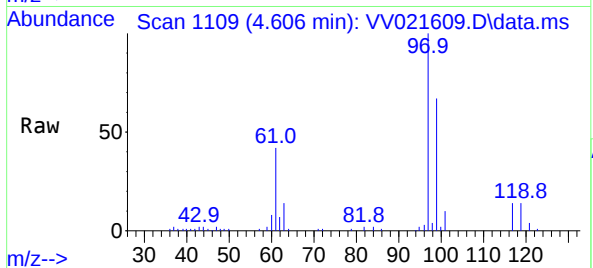




#30
1,1,1-Trichloroethane
Concen: 13.263 ug/L
RT: 4.606 min Scan# 1109
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

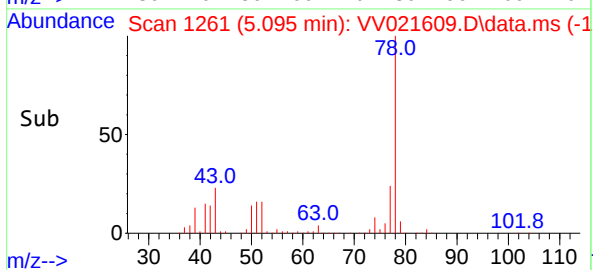
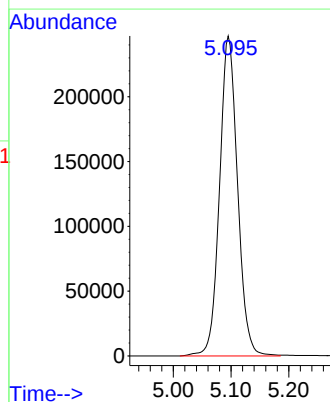
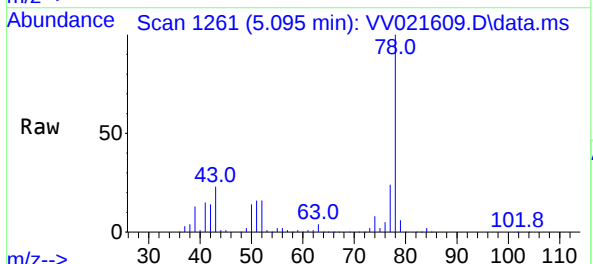
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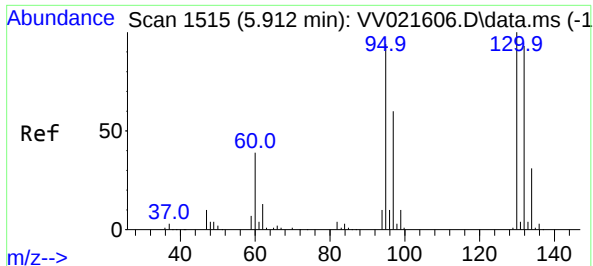
Tgt Ion: 97 Resp: 57681
Ion Ratio Lower Upper
97 100
99 64.1 52.1 78.1
61 41.1 32.6 49.0



#33
Benzene
Concen: 50.780 ug/L
RT: 5.095 min Scan# 1261
Delta R.T. -0.003 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion: 78 Resp: 534612





#34

Trichloroethene

Concen: 35.525 ug/L

RT: 5.912 min Scan# 1515

Delta R.T. 0.000 min

Lab File: VV021609.D

Acq: 06 Jul 2021 12:09

Tgt Ion: 95 Resp: 101096

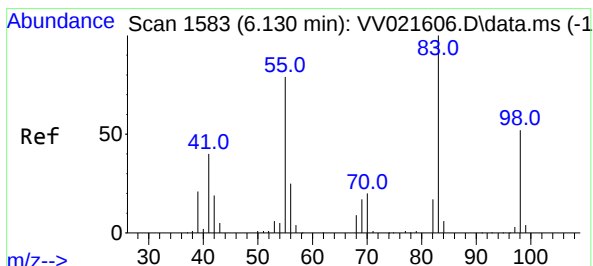
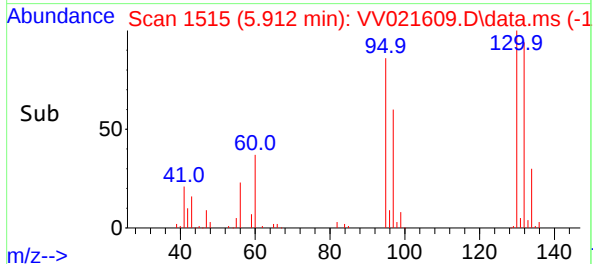
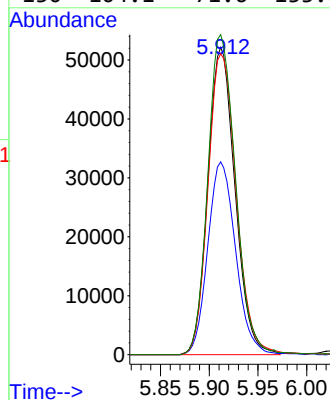
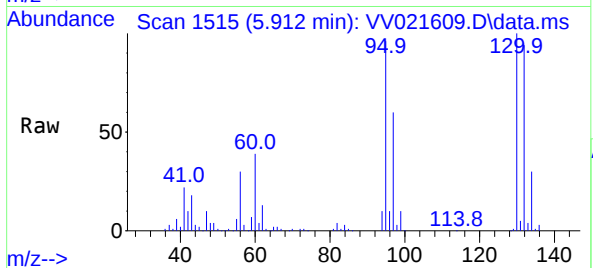
Ion Ratio Lower Upper

95 100

97 62.7 44.6 82.8

132 97.9 69.0 128.1

130 104.1 71.6 133.0



#35

Methylcyclohexane

Concen: 2.542 ug/L

RT: 6.130 min Scan# 1583

Delta R.T. 0.000 min

Lab File: VV021609.D

Acq: 06 Jul 2021 12:09

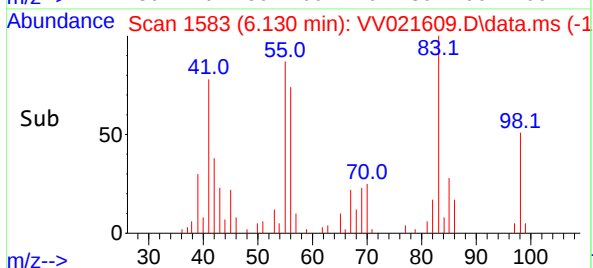
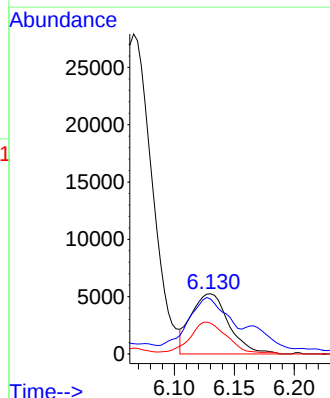
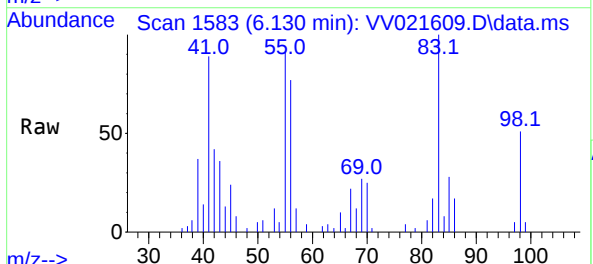
Tgt Ion: 83 Resp: 11486

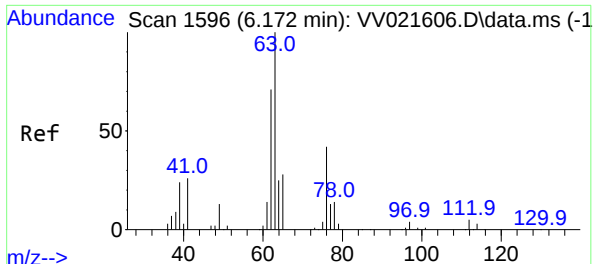
Ion Ratio Lower Upper

83 100

55 80.0 58.7 88.1

98 48.3 39.7 59.5

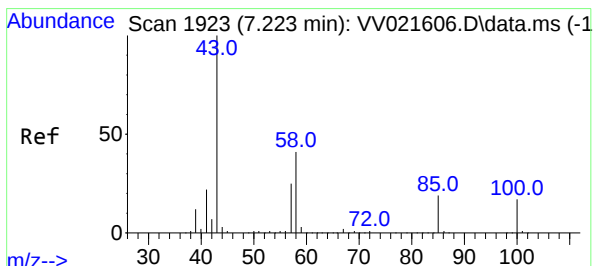
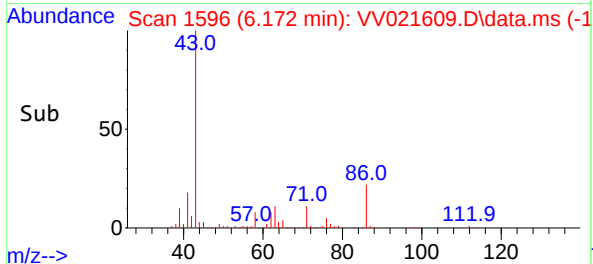
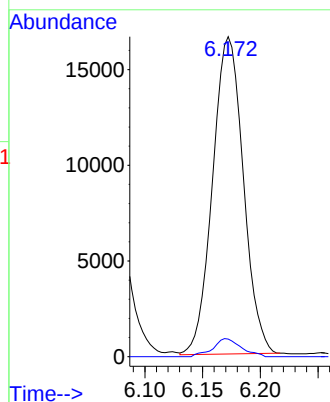
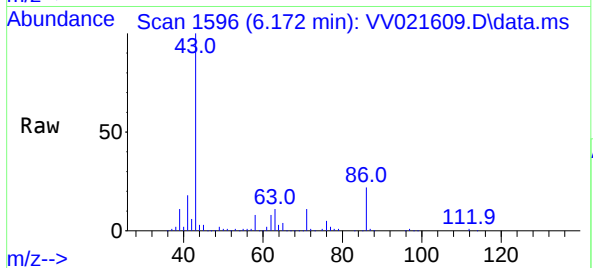




#37
1,2-Dichloropropane
Concen: 11.221 ug/L
RT: 6.172 min Scan# 1596
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

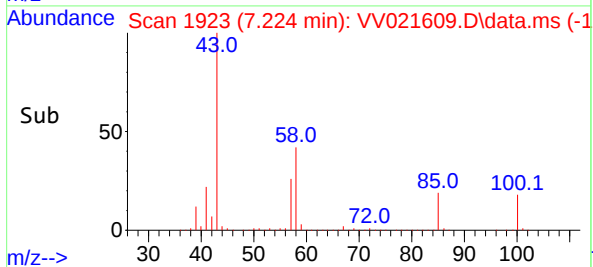
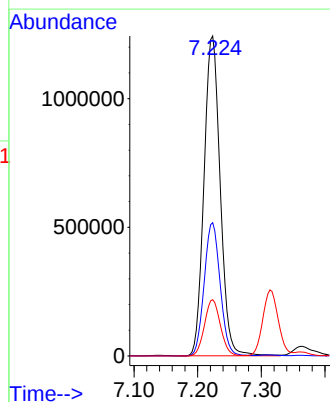
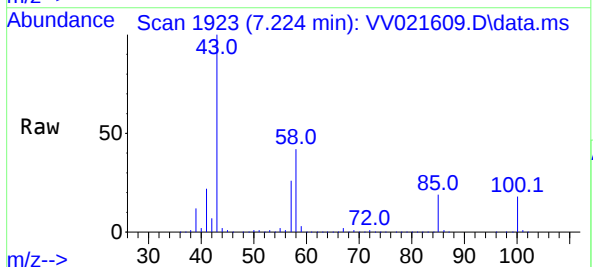
Instrument :
MSVOA_V
ClientSampleId :
DBK23

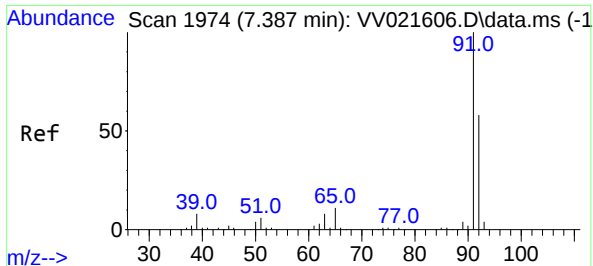
Tgt Ion: 63 Resp: 30705
Ion Ratio Lower Upper
63 100
112 5.2 3.8 5.6



#40
4-Methyl-2-pentanone
Concen: 547.200 ug/L
RT: 7.224 min Scan# 1923
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion: 43 Resp: 2198085
Ion Ratio Lower Upper
43 100
58 41.1 32.8 49.2
100 17.4 13.5 20.3





#42

Toluene

Concen: 203.427 ug/L

RT: 7.384 min Scan# 1973

Delta R.T. -0.003 min

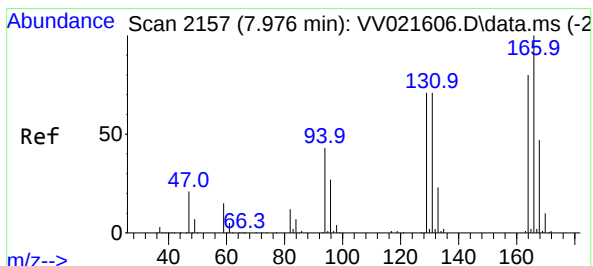
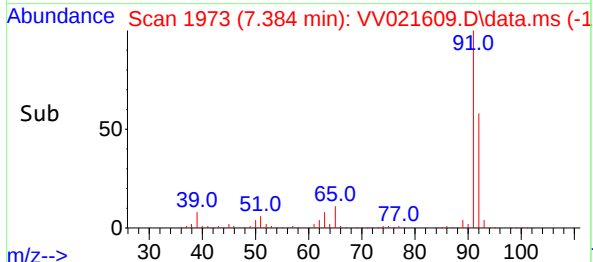
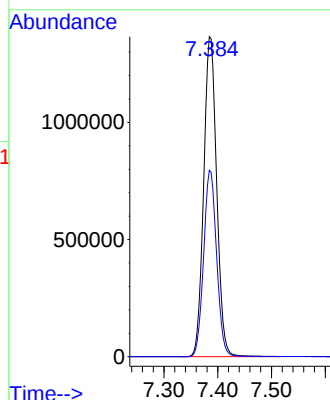
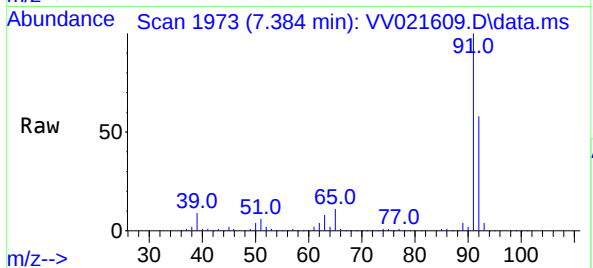
Lab File: VV021609.D

Acq: 06 Jul 2021 12:09

Tgt Ion: 91 Resp: 2293947

Ion	Ratio	Lower	Upper
91	100		
92	58.3	40.6	75.4

Instrument :
MSVOA_V
ClientSampleId :
DBK23



#46

Tetrachloroethene

Concen: 9.677 ug/L

RT: 7.976 min Scan# 2157

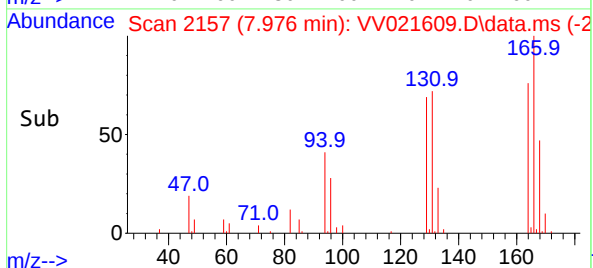
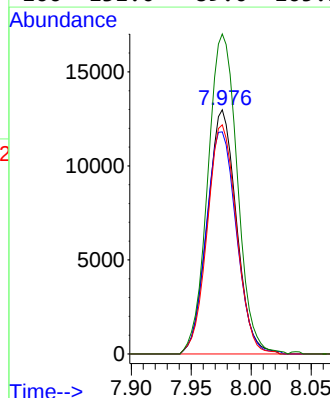
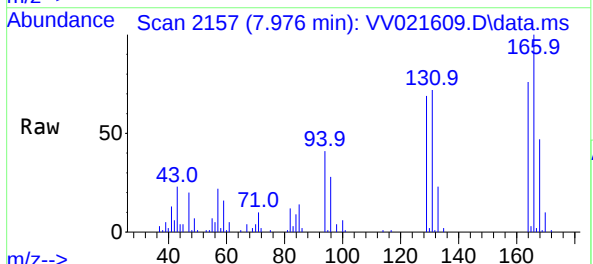
Delta R.T. 0.000 min

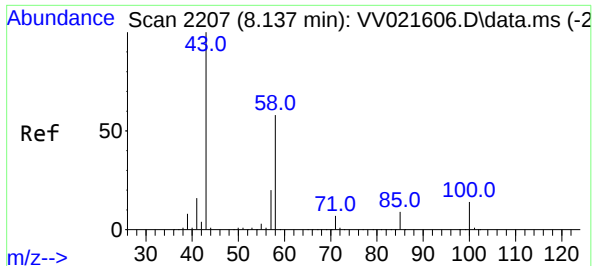
Lab File: VV021609.D

Acq: 06 Jul 2021 12:09

Tgt Ion: 164 Resp: 21903

Ion	Ratio	Lower	Upper
164	100		
129	90.9	65.9	122.3
131	93.8	64.0	119.0
166	131.0	89.0	165.2



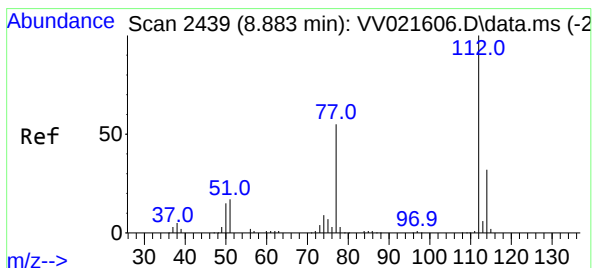
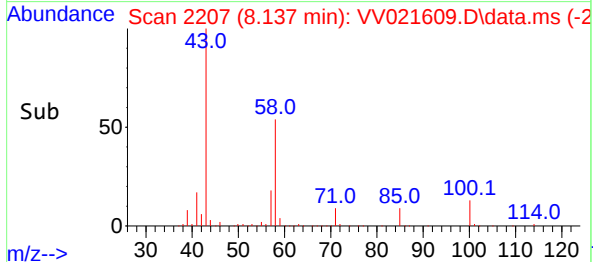
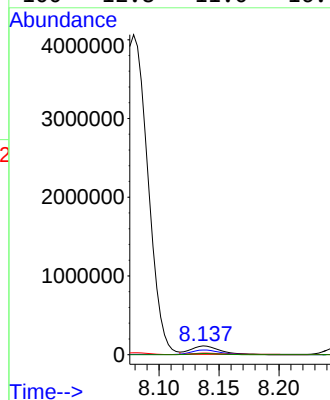
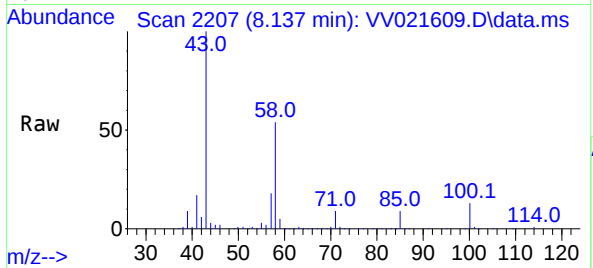


#48
2-Hexanone
Concen: 55.936 ug/L
RT: 8.137 min Scan# 2207
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Instrument :
MSVOA_V
ClientSampleId :
DBK23

Tgt Ion: 43 Resp: 177604

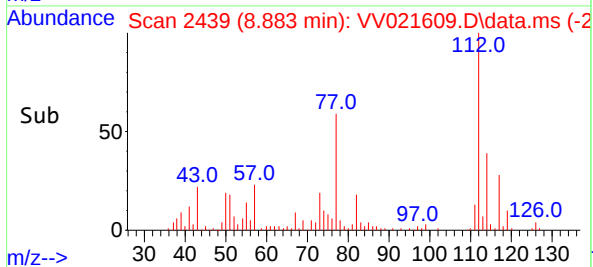
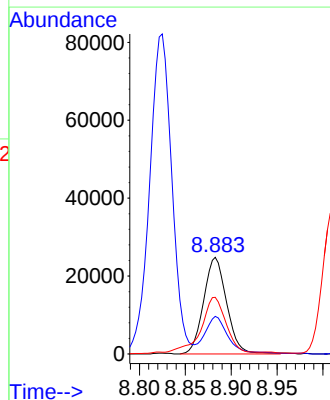
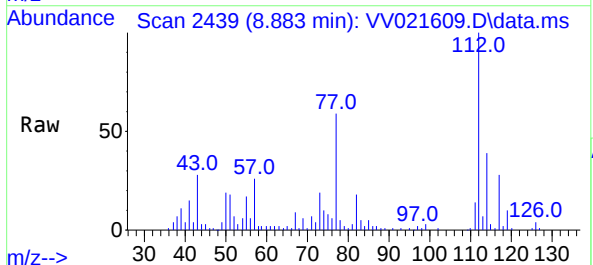
Ion	Ratio	Lower	Upper
43	100		
58	55.4	46.7	70.1
57	19.9	15.5	23.3
100	12.8	11.0	16.4

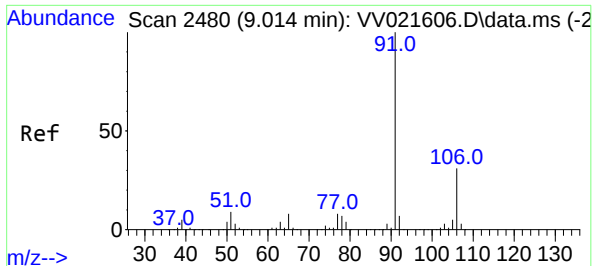


#51
Chlorobenzene
Concen: 5.905 ug/L
RT: 8.883 min Scan# 2439
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion: 112 Resp: 43331

Ion	Ratio	Lower	Upper
112	100		
114	38.9	21.9	40.7
77	58.6	44.0	66.0

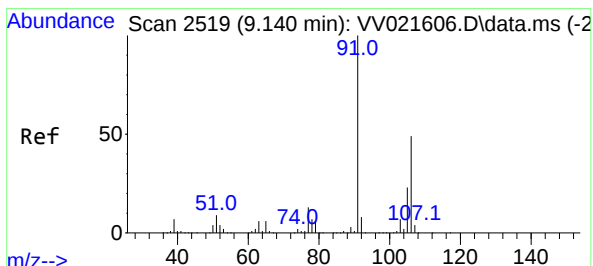
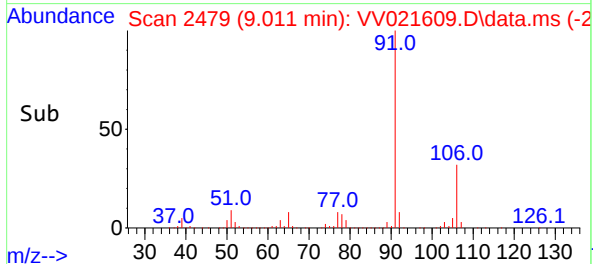
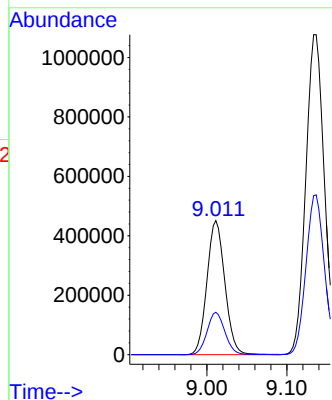
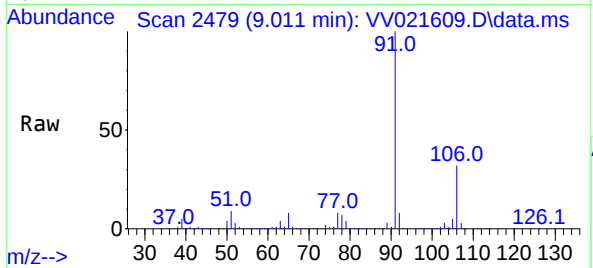




#52
Ethylbenzene
Concen: 57.519 ug/L
RT: 9.011 min Scan# 2479
Delta R.T. -0.003 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

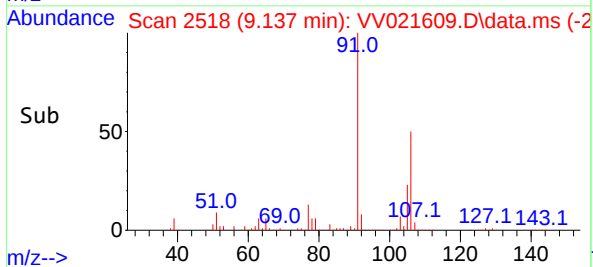
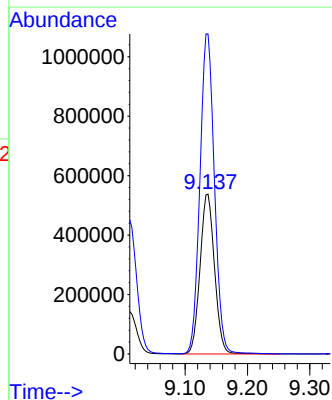
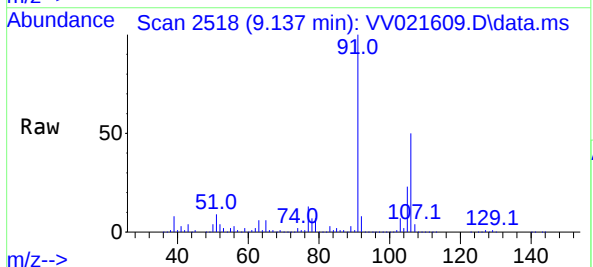
Instrument :
MSVOA_V
ClientSampleId :
DBK23

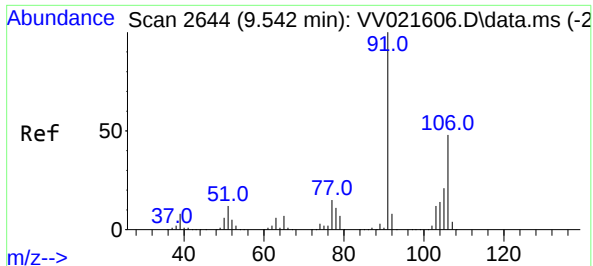
Tgt Ion: 91 Resp: 704657
Ion Ratio Lower Upper
91 100
106 31.7 21.8 40.6



#53
m,p-Xylene
Concen: 184.051 ug/L
RT: 9.137 min Scan# 2518
Delta R.T. -0.003 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion: 106 Resp: 865301
Ion Ratio Lower Upper
106 100
91 200.1 138.7 257.5

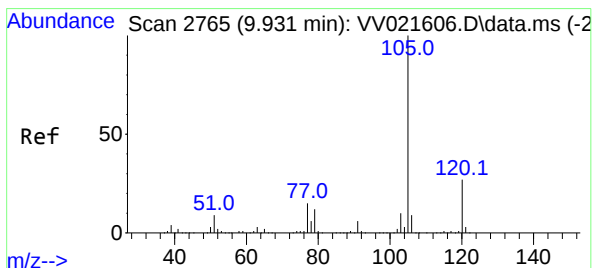
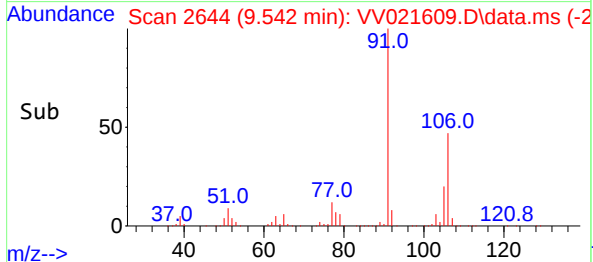
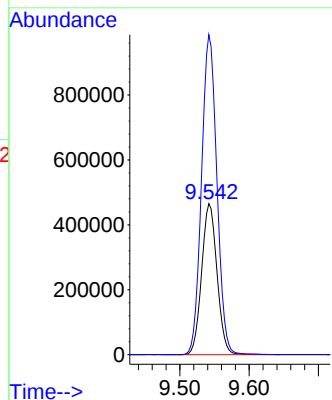
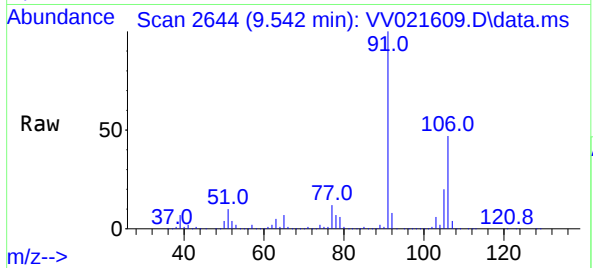




#54
o-Xylene
Concen: 152.443 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

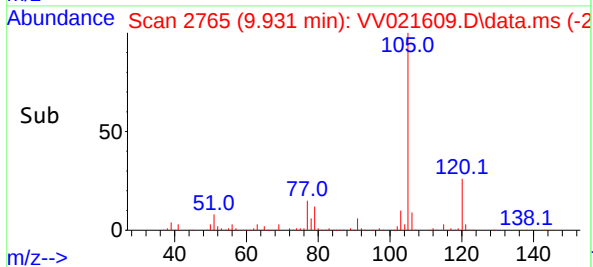
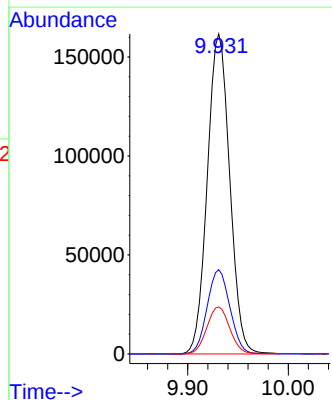
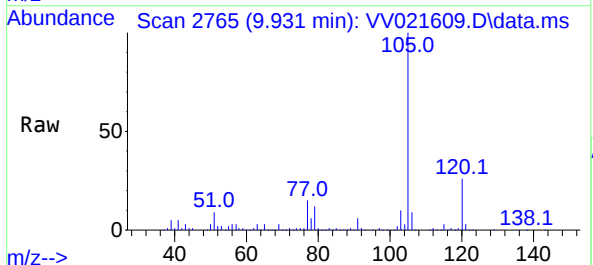
Instrument :
MSVOA_V
ClientSampleId :
DBK23

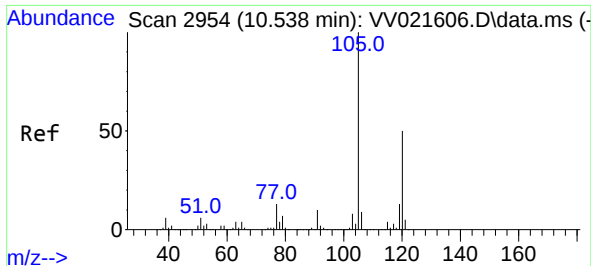
Tgt Ion:106 Resp: 715014
Ion Ratio Lower Upper
106 100
91 211.8 149.0 276.8



#60
Isopropylbenzene
Concen: 20.343 ug/L
RT: 9.931 min Scan# 2765
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion:105 Resp: 250233
Ion Ratio Lower Upper
105 100
120 26.8 21.5 32.3
77 15.2 12.0 18.0

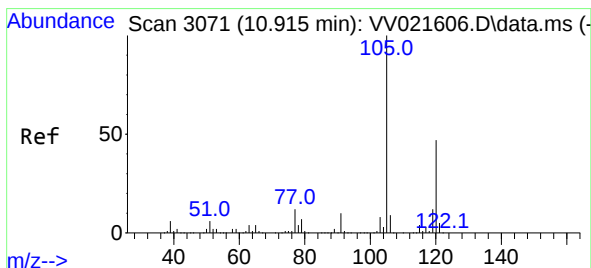
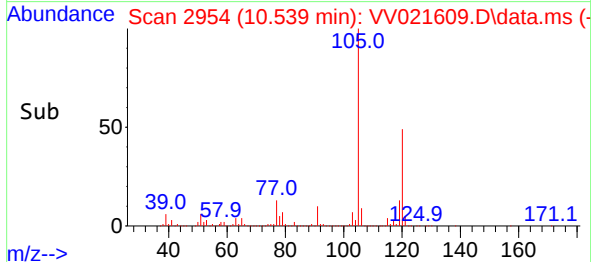
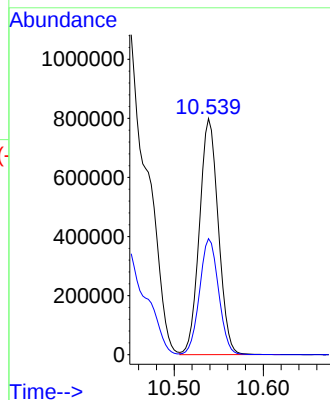
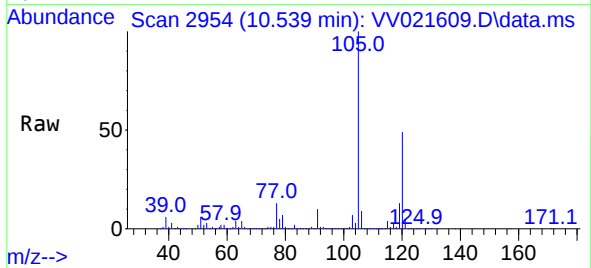




#62
1,3,5-Trimethylbenzene
Concen: 112.022 ug/L
RT: 10.539 min Scan# 2954
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Instrument :
MSVOA_V
ClientSampleId :
DBK23

Tgt Ion:105 Resp: 1174366
Ion Ratio Lower Upper
105 100
120 49.5 40.0 60.0



#63
1,2,4-Trimethylbenzene
Concen: 267.831 ug/L
RT: 10.915 min Scan# 3071
Delta R.T. 0.000 min
Lab File: VV021609.D
Acq: 06 Jul 2021 12:09

Tgt Ion:105 Resp: 2841440
Ion Ratio Lower Upper
105 100
120 46.4 37.1 55.7

