

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV070221\
 Data File : VV021594.D
 Acq On : 02 Jul 2021 13:26
 Operator : SY/MD
 Sample : M2914-03
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DBK27

Quant Time: Jul 03 00:07:22 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 03 00:01:46 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	455187	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	425532	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.252	152	222315	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	112512	39.067	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.140%
7) Chloroethane-d5	1.561	69	95041	40.377	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.760%
11) 1,1-Dichloroethene-d2	2.105	63	163818	31.089	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	62.180%
21) 2-Butanone-d5	3.870	46	249979	101.633	ug/L	-0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.630%
24) Chloroform-d	4.349	84	271036	44.993	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.980%
26) 1,2-Dichloroethane-d4	5.034	65	166768	46.983	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.960%
32) Benzene-d6	5.050	84	556315	46.562	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.120%
36) 1,2-Dichloropropane-d6	6.072	67	179572	47.652	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.300%
41) Toluene-d8	7.317	98	517999	46.879	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.760%
43) trans-1,3-Dichloroprop...	7.622	79	84536	45.096	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.200%
47) 2-Hexanone-d5	8.088	63	199135	113.921	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.920%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	256952	50.609	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.220%
66) 1,2-Dichlorobenzene-d4	11.628	152	208717	47.091	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.180%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	54694	14.576	ug/L	99
8) Chloroethane	1.484	64	4348	2.016	ug/L #	52
12) 1,1-Dichloroethene	2.111	96	2451	0.943	ug/L #	1
13) Acetone	2.156	43	503987	247.853	ug/L #	100
16) Methylene chloride	2.507	84	4554	1.290	ug/L	95
17) trans-1,2-Dichloroethene	2.764	96	6213	1.959	ug/L	99
19) 1,1-Dichloroethane	3.188	63	136564	23.639	ug/L	99
20) cis-1,2-Dichloroethene	3.915	96	17638	5.001	ug/L	93
22) 2-Butanone	3.976	43	23826	8.484	ug/L	84
29) Cyclohexane	4.680	56	6794	1.264	ug/L	96
33) Benzene	5.101	78	479208	37.004	ug/L	100
34) Trichloroethene	5.921	95	3991	1.140	ug/L	94
35) Methylcyclohexane	6.133	83	4852	0.873	ug/L #	81
37) 1,2-Dichloropropane	6.175	63	29128	8.653	ug/L	99
39) cis-1,3-Dichloropropene	6.986	75	5065	0.912	ug/L #	61
40) 4-Methyl-2-pentanone	7.227	43	811427	164.216	ug/L	100
42) Toluene	7.391	91	907896	65.453	ug/L	99
44) trans-1,3-Dichloropropene	7.622	75	3300	0.637	ug/L #	67
48) 2-Hexanone	8.143	43	75349	19.292	ug/L #	73

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

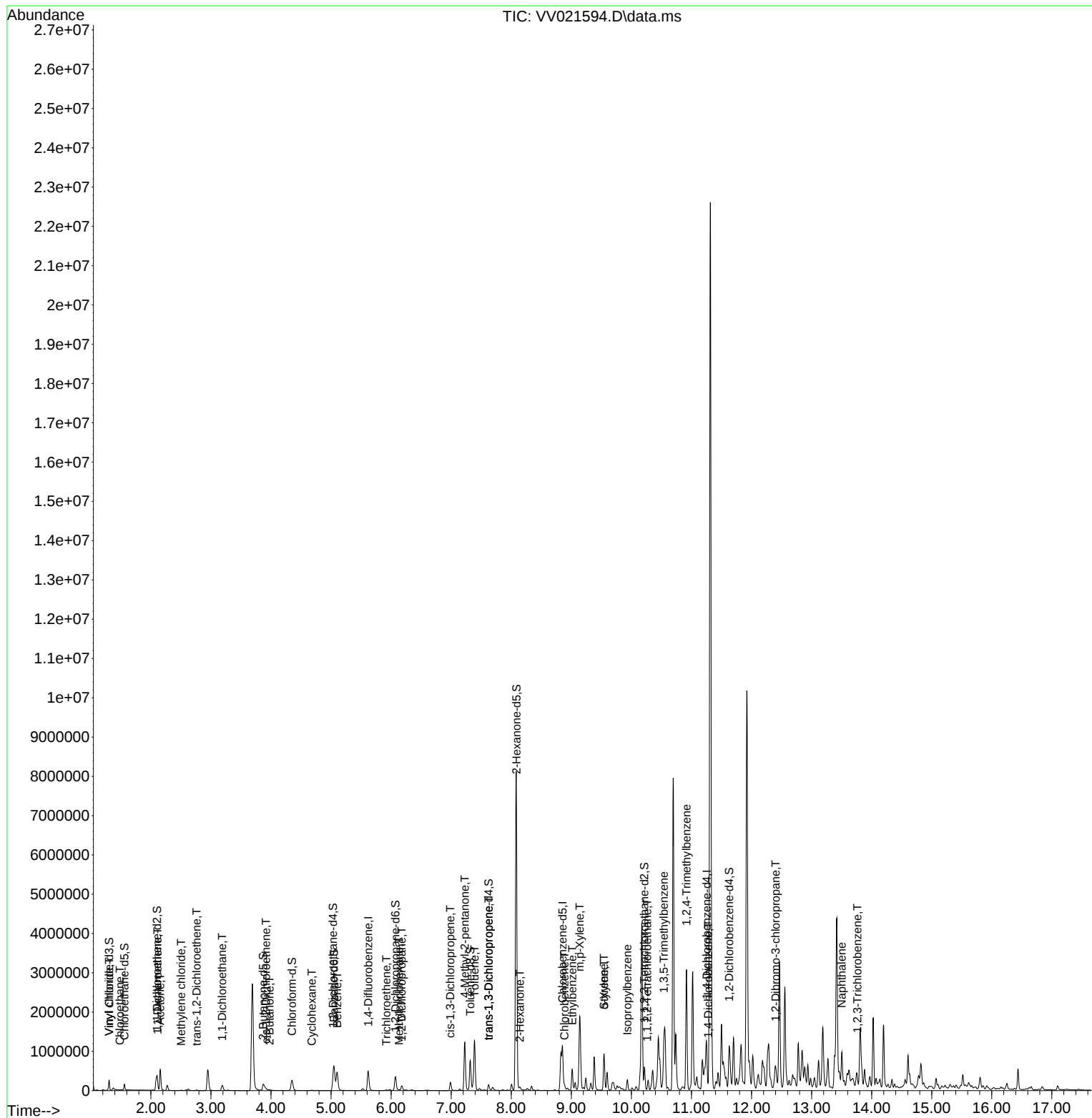
51) Chlorobenzene	8.886	112	44416	4.920	ug/L	96
52) Ethylbenzene	9.014	91	382069	25.354	ug/L	100
53) m,p-Xylene	9.140	106	398292	68.871	ug/L	99
54) o-Xylene	9.545	106	235787	40.867	ug/L	98
55) Styrene	9.545	104	12330	1.265	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.265	83	9135	1.772	ug/L #	54
60) Isopropylbenzene	9.934	105	155609	10.262	ug/L	100
62) 1,3,5-Trimethylbenzene	10.542	105	574862	44.483	ug/L	99
63) 1,2,4-Trimethylbenzene	10.918	105	1620044	123.873	ug/L	99
65) 1,4-Dichlorobenzene	11.278	146	6463	0.907	ug/L #	88
68) 1,2-Dibromo-3-chloropr...	12.400	75	1651	1.296	ug/L #	37
71) Naphthalene	13.503	128	586296	42.008	ug/L	99
72) 1,2,3-Trichlorobenzene	13.763	180	2220	0.490	ug/L #	1

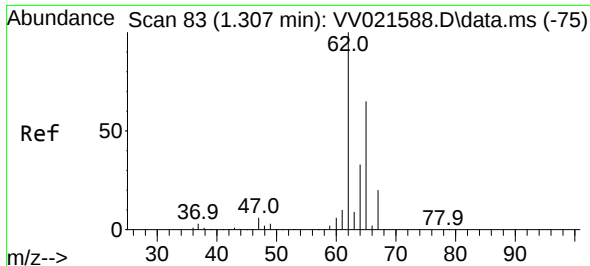
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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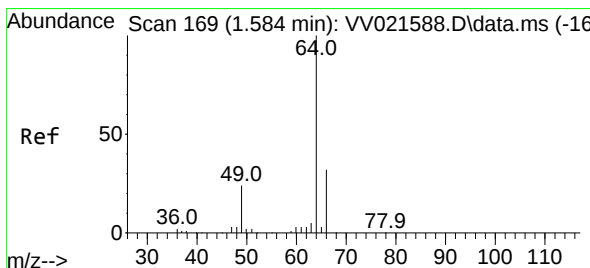
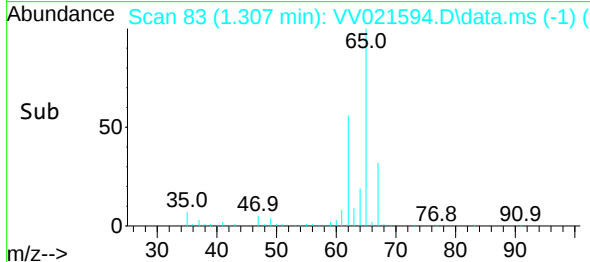
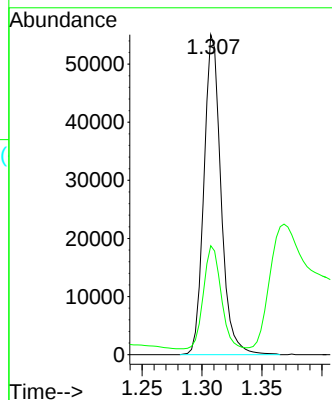
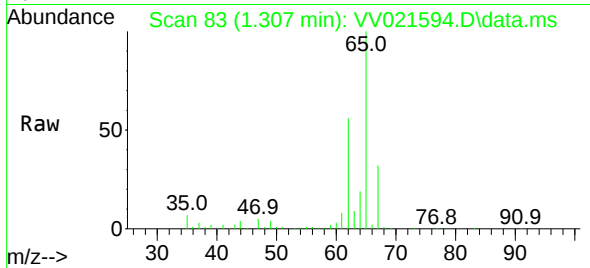




#5
 Vinyl chloride
 Concen: 14.576 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VV021594.D
 Acq: 02 Jul 2021 13:26

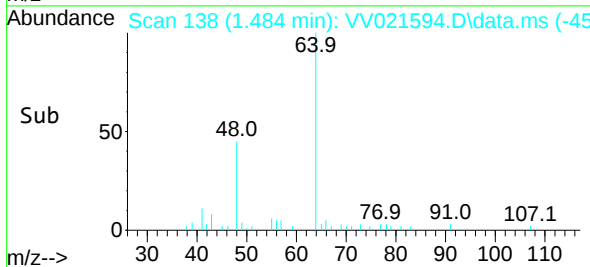
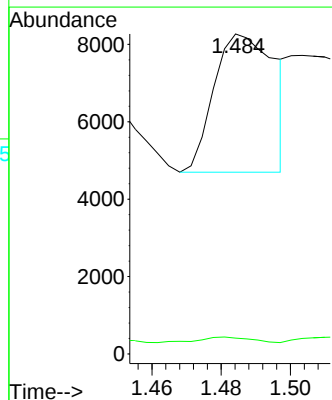
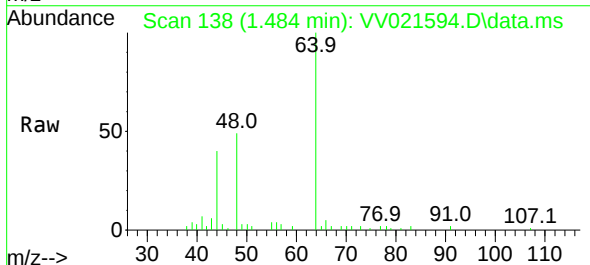
Instrument :
 MSVOA_V
 ClientSampled :
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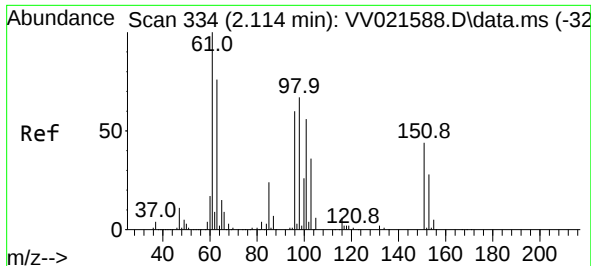
Tgt Ion: 62 Resp: 54694
 Ion Ratio Lower Upper
 62 100
 64 34.1 23.3 43.3



#8
 Chloroethane
 Concen: 2.016 ug/L
 RT: 1.484 min Scan# 138
 Delta R.T. -0.099 min
 Lab File: VV021594.D
 Acq: 02 Jul 2021 13:26

Tgt Ion: 64 Resp: 4348
 Ion Ratio Lower Upper
 64 100
 66 5.0 22.3 41.3#

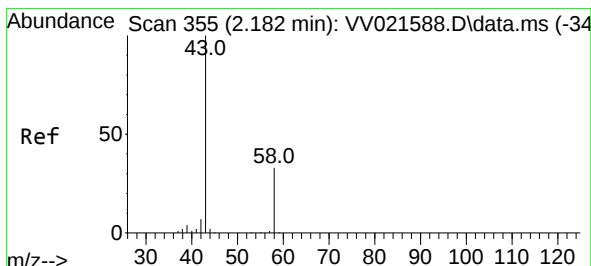
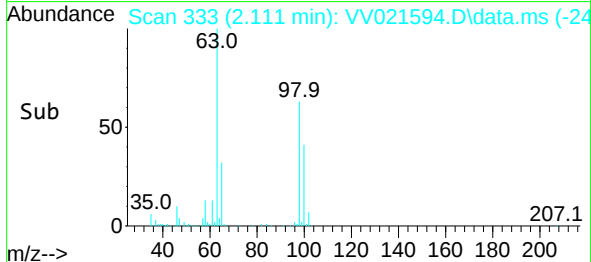
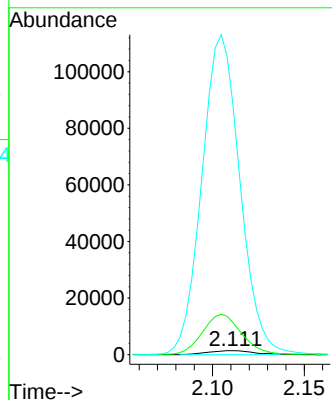
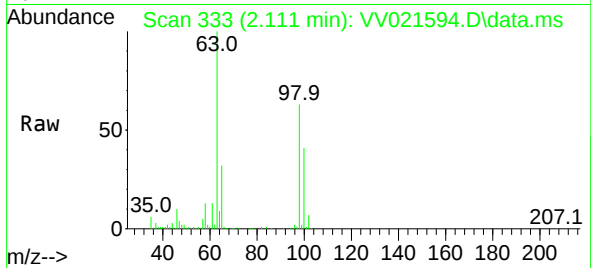




#12
1,1-Dichloroethene
Concen: 0.943 ug/L
RT: 2.111 min Scan# 333
Delta R.T. -0.003 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

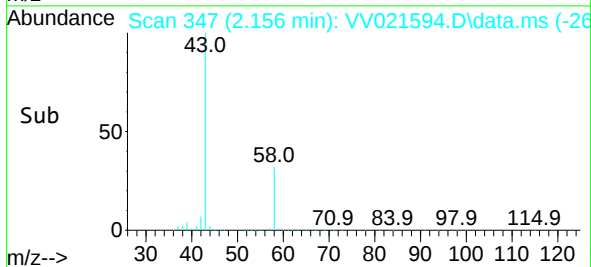
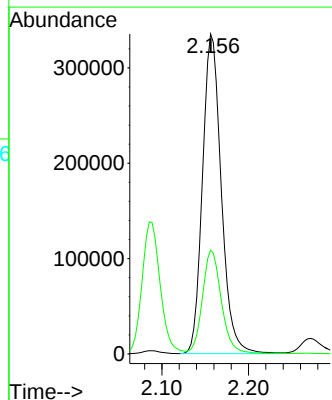
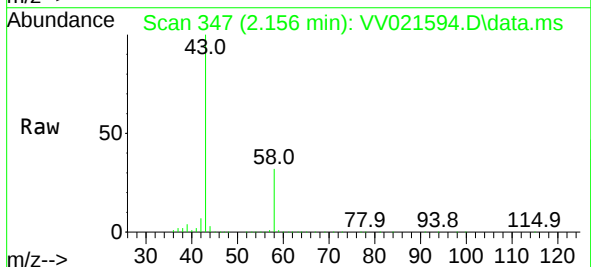
Instrument :
MSVOA_V
ClientSampled :
DBK27

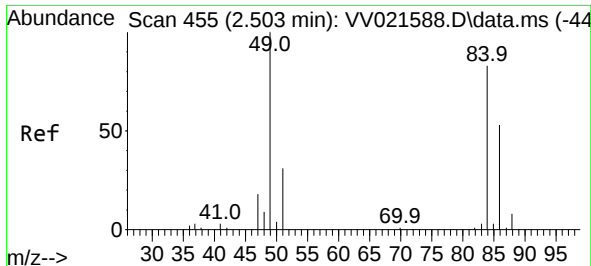
Tgt Ion: 96 Resp: 2451
Ion Ratio Lower Upper
96 100
61 797.1 112.9 209.7#
63 6169.9 90.8 168.6#



#13
Acetone
Concen: 247.853 ug/L
RT: 2.156 min Scan# 347
Delta R.T. -0.026 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

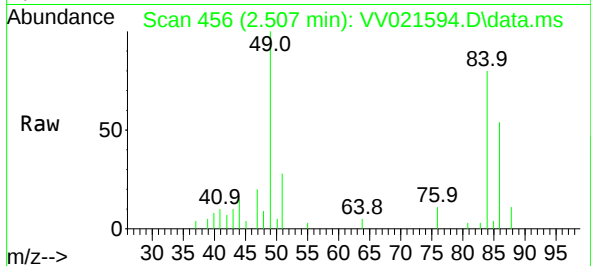
Tgt Ion: 43 Resp: 503987
Ion Ratio Lower Upper
43 100
58 32.3 0.0 0.0#



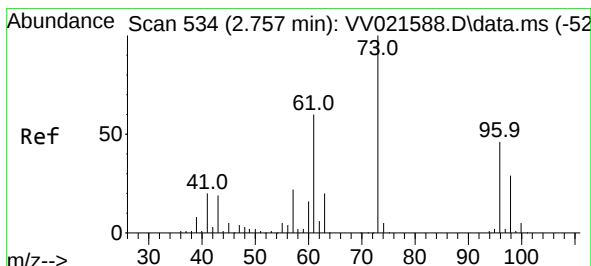
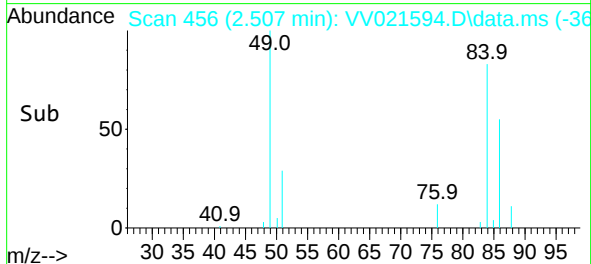
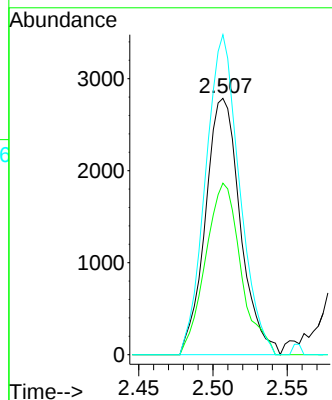


#16
Methylene chloride
Concen: 1.290 ug/L
RT: 2.507 min Scan# 456
Delta R.T. 0.003 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

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ClientSampleId :
DBK27

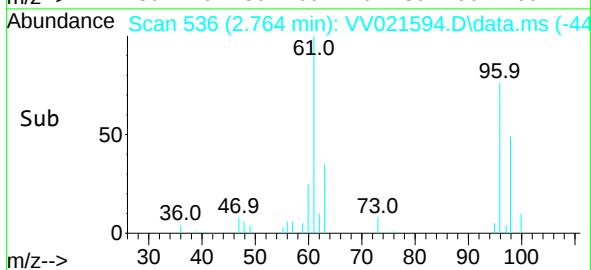
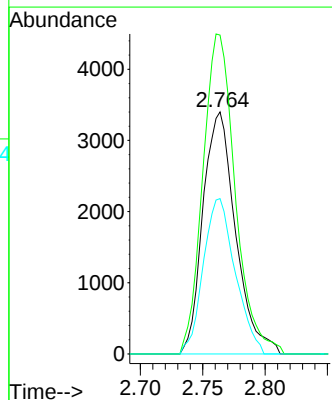
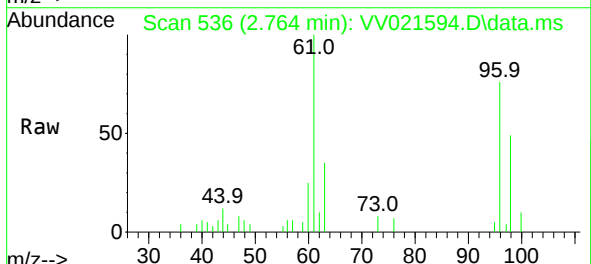


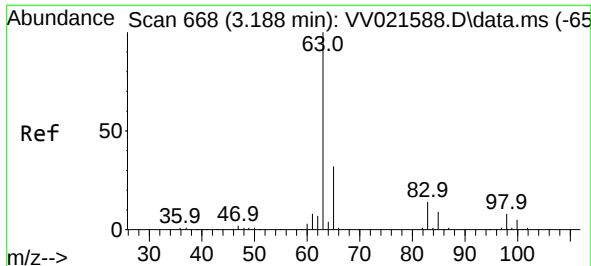
Tgt Ion: 84 Resp: 4554
Ion Ratio Lower Upper
84 100
86 66.9 45.1 83.9
49 124.8 82.5 153.3



#17
trans-1,2-Dichloroethene
Concen: 1.959 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.007 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion: 96 Resp: 6213
Ion Ratio Lower Upper
96 100
61 131.7 93.0 172.6
98 64.2 44.2 82.0



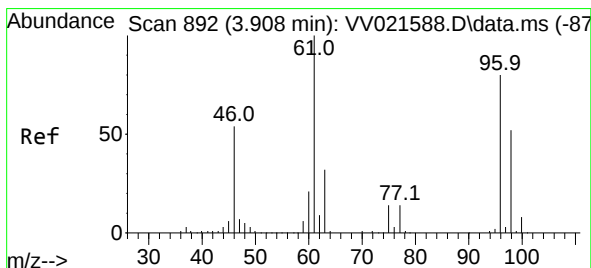
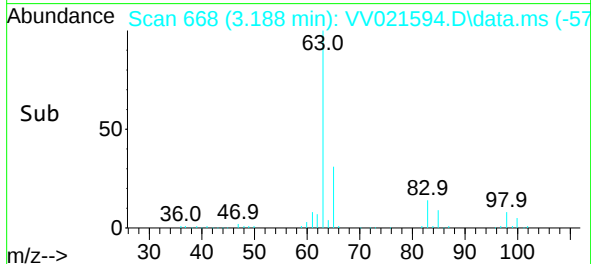
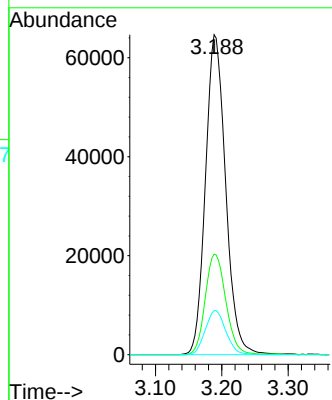
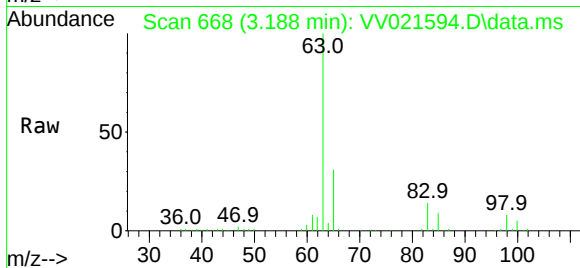


#19
1,1-Dichloroethane
Concen: 23.639 ug/L
RT: 3.188 min Scan# 668
Delta R.T. 0.000 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

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Tgt Ion: 63 Resp: 136564

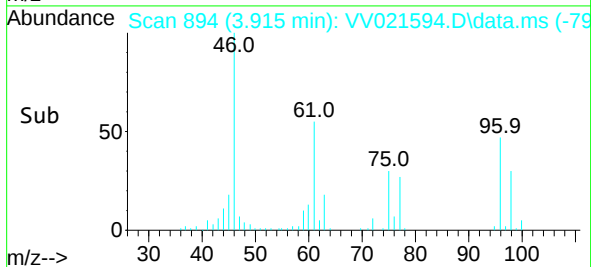
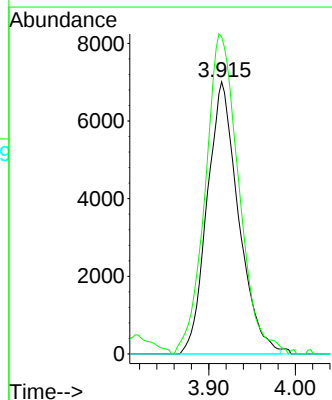
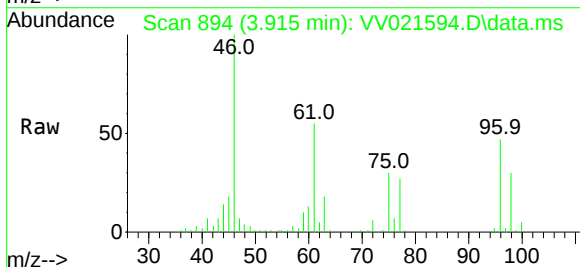
Ion	Ratio	Lower	Upper
63	100		
65	31.4	22.4	41.6
83	13.8	9.4	17.6

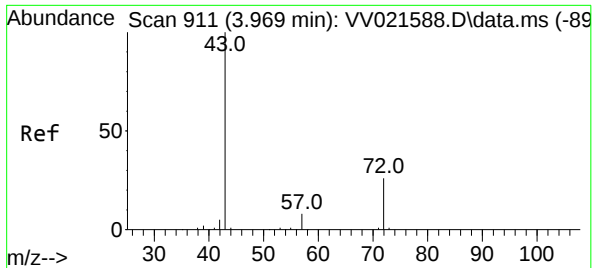


#20
cis-1,2-Dichloroethene
Concen: 5.001 ug/L
RT: 3.915 min Scan# 894
Delta R.T. 0.007 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion: 96 Resp: 17638

Ion	Ratio	Lower	Upper
96	100		
61	116.5	86.9	161.3
68	0.0	0.0	0.0

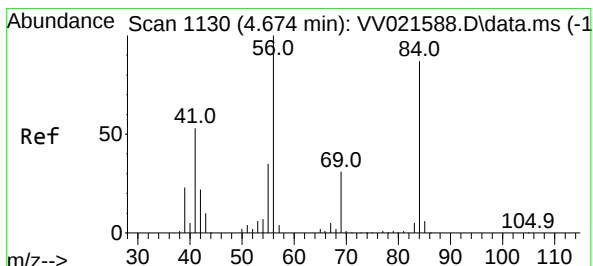
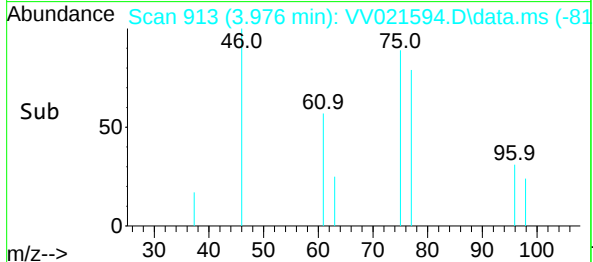
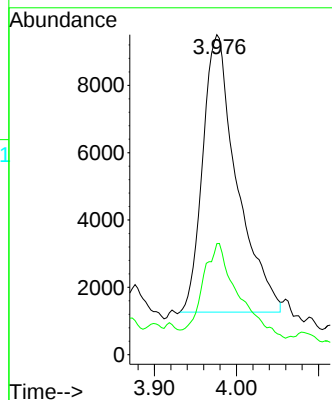
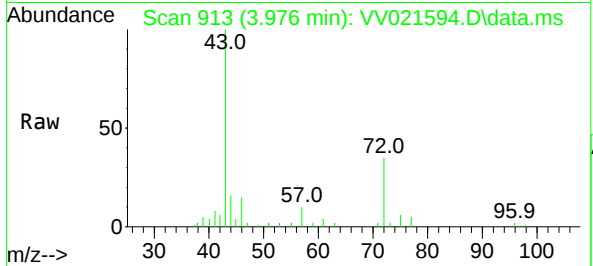




#22
2-Butanone
Concen: 8.484 ug/L
RT: 3.976 min Scan# 913
Delta R.T. 0.007 min
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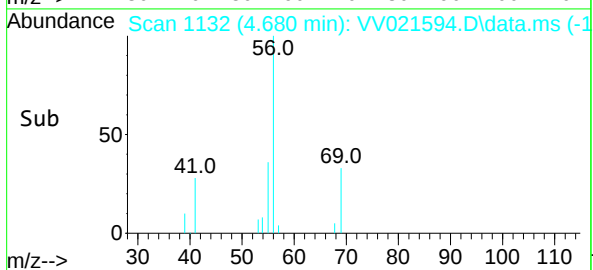
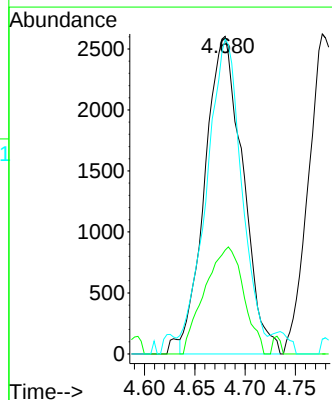
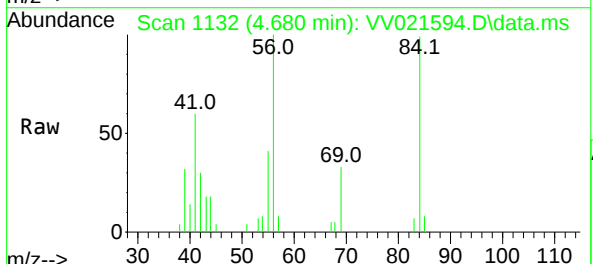
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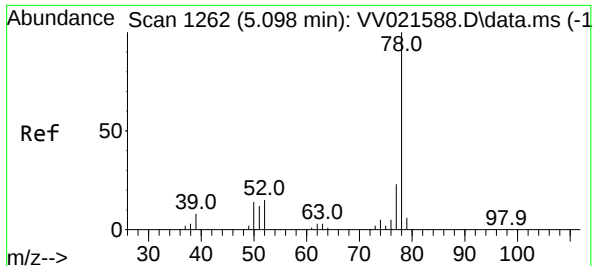
Tgt Ion: 43 Resp: 23826
Ion Ratio Lower Upper
43 100
72 18.3 13.3 39.8



#29
Cyclohexane
Concen: 1.264 ug/L
RT: 4.680 min Scan# 1132
Delta R.T. 0.007 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion: 56 Resp: 6794
Ion Ratio Lower Upper
56 100
69 34.8 24.9 37.3
84 86.9 71.6 107.4

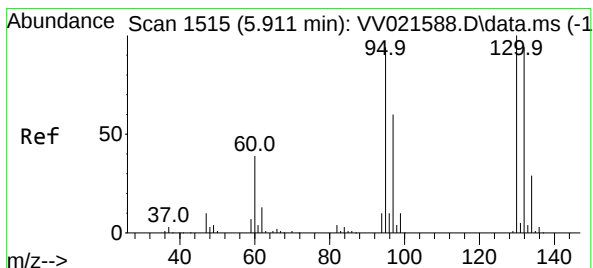
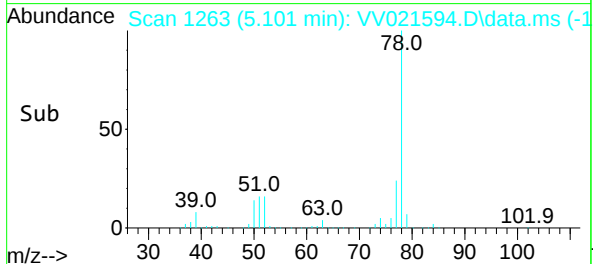
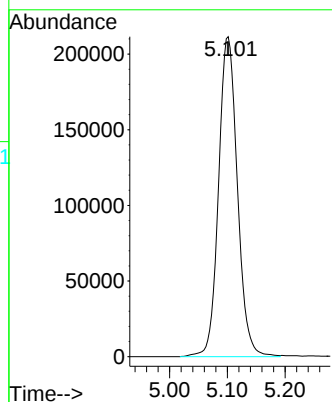
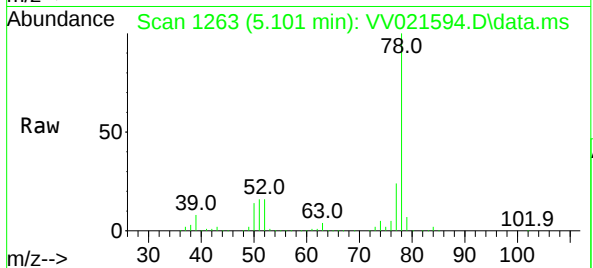




#33
Benzene
Concen: 37.004 ug/L
RT: 5.101 min Scan# 1263
Delta R.T. 0.003 min
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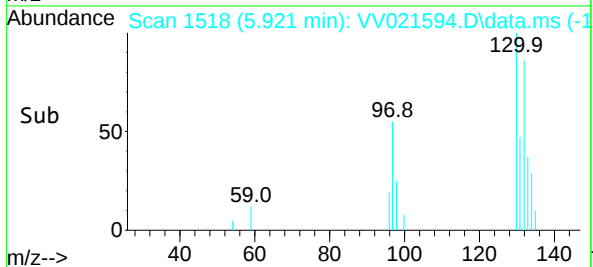
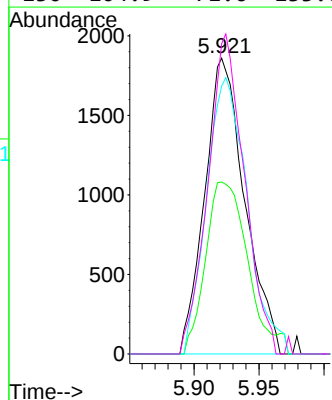
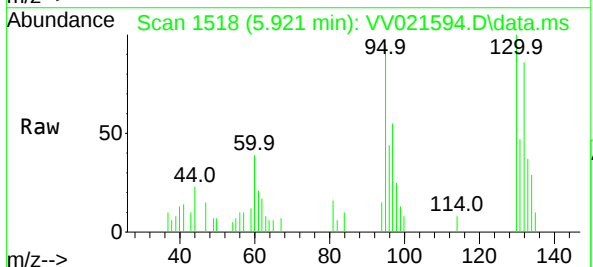
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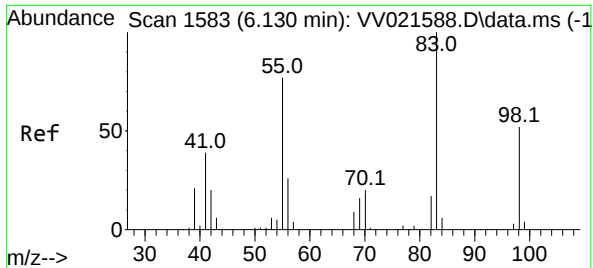


#34
Trichloroethene
Concen: 1.140 ug/L
RT: 5.921 min Scan# 1518
Delta R.T. 0.010 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion: 95 Resp: 3991

Ion	Ratio	Lower	Upper
95	100		
97	58.2	44.6	82.8
132	90.6	69.0	128.1
130	104.9	71.6	133.0





#35

Methylcyclohexane

Concen: 0.873 ug/L

RT: 6.133 min Scan# 1584

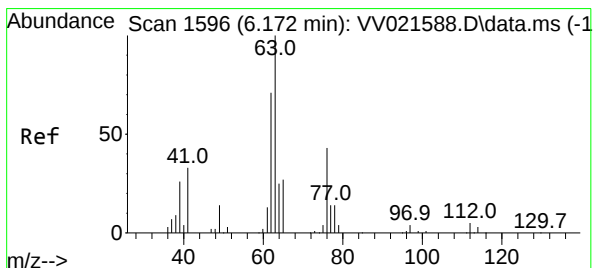
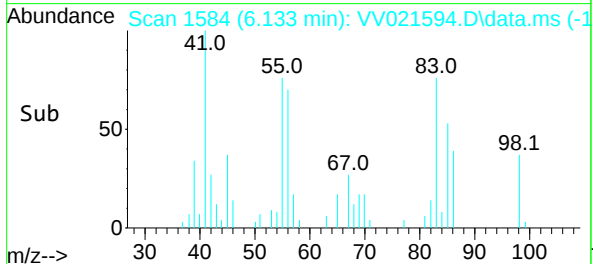
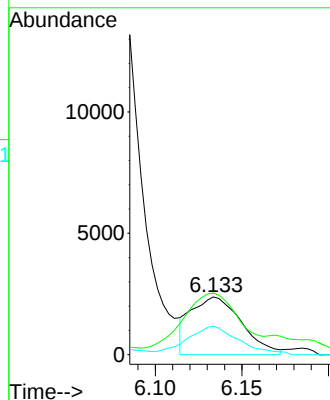
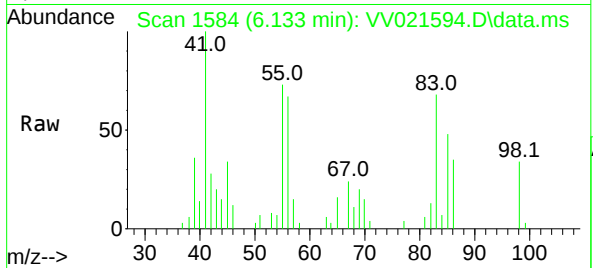
Delta R.T. 0.003 min

Lab File: VV021594.D

Acq: 02 Jul 2021 13:26

Tgt Ion:	83	Resp:	4852
Ion	Ratio	Lower	Upper
83	100		
55	100.0	58.7	88.1#
98	50.5	39.7	59.5

Instrument :
MSVOA_V
ClientSampled :
DBK27



#37

1,2-Dichloropropane

Concen: 8.653 ug/L

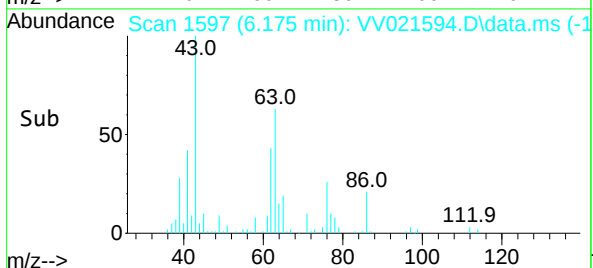
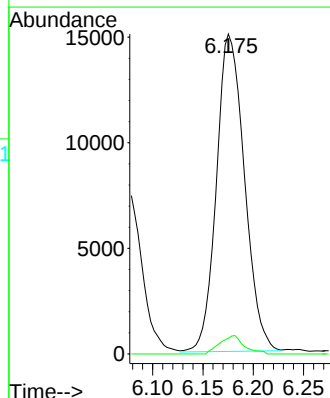
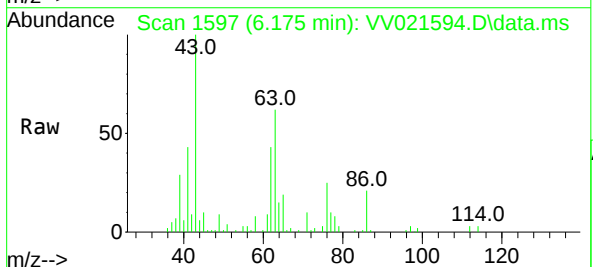
RT: 6.175 min Scan# 1597

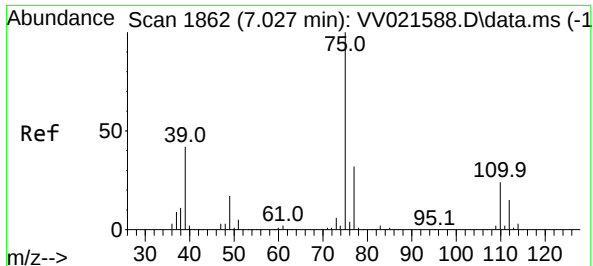
Delta R.T. 0.003 min

Lab File: VV021594.D

Acq: 02 Jul 2021 13:26

Tgt Ion:	63	Resp:	29128
Ion	Ratio	Lower	Upper
63	100		
112	5.0	3.8	5.6

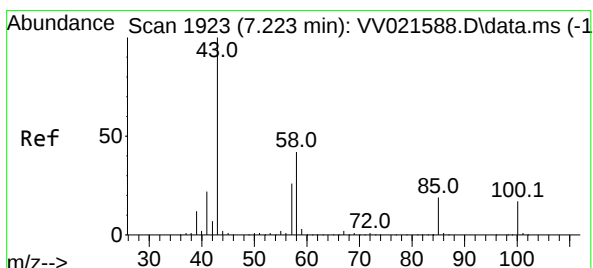
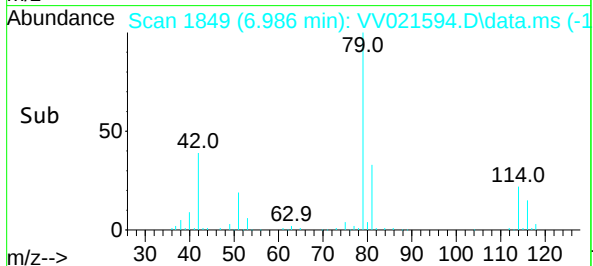
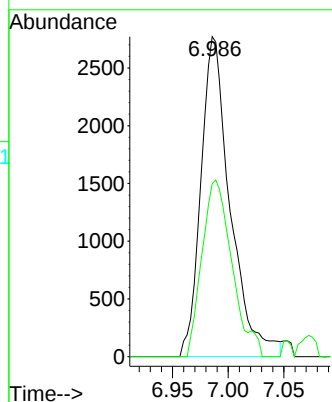
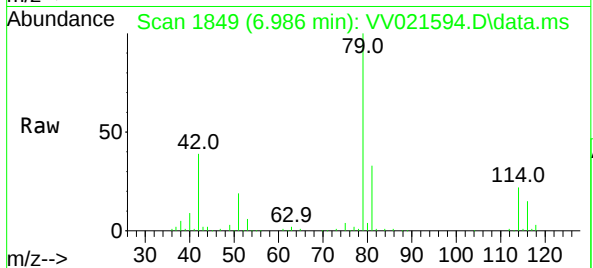




#39
 cis-1,3-Dichloropropene
 Concen: 0.912 ug/L
 RT: 6.986 min Scan# 1849
 Delta R.T. -0.042 min
 Lab File: VV021594.D
 Acq: 02 Jul 2021 13:26

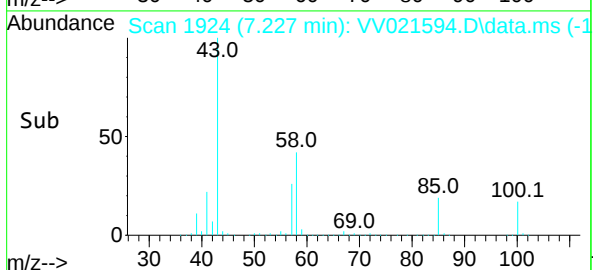
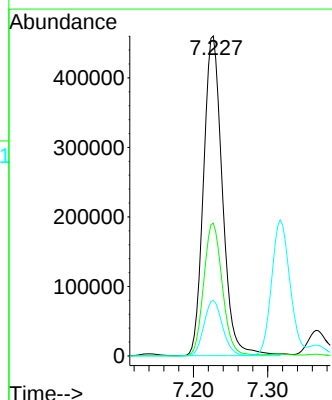
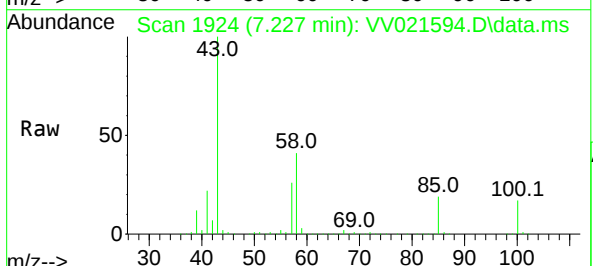
Instrument :
 MSVOA_V
 ClientSampled :
 DBK27

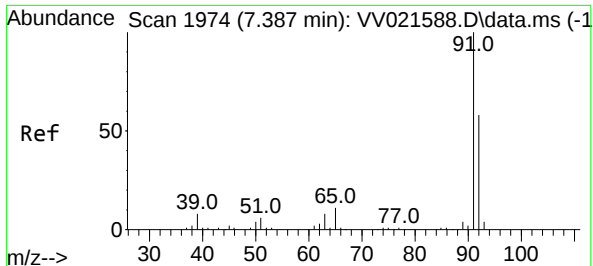
Tgt Ion: 75 Resp: 5065
 Ion Ratio Lower Upper
 75 100
 77 54.1 22.5 41.7#



#40
 4-Methyl-2-pentanone
 Concen: 164.216 ug/L
 RT: 7.227 min Scan# 1924
 Delta R.T. 0.003 min
 Lab File: VV021594.D
 Acq: 02 Jul 2021 13:26

Tgt Ion: 43 Resp: 811427
 Ion Ratio Lower Upper
 43 100
 58 41.0 32.8 49.2
 100 17.2 13.5 20.3

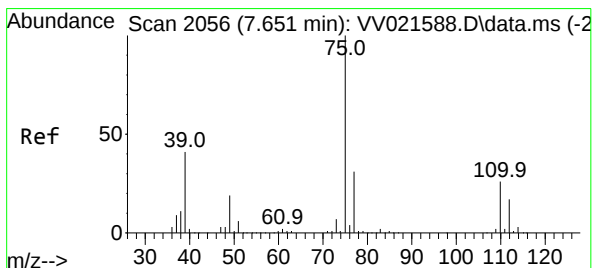
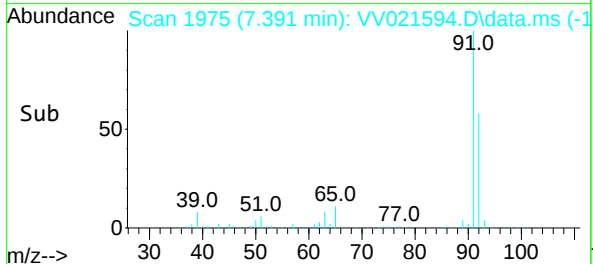
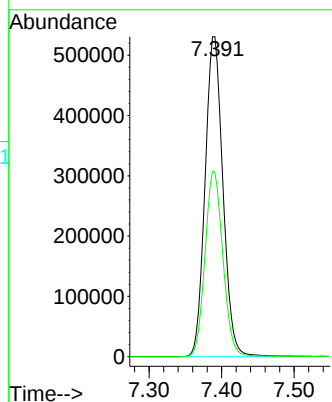
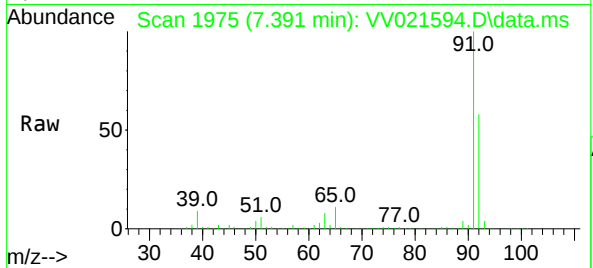




#42
Toluene
Concen: 65.453 ug/L
RT: 7.391 min Scan# 1975
Delta R.T. 0.003 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

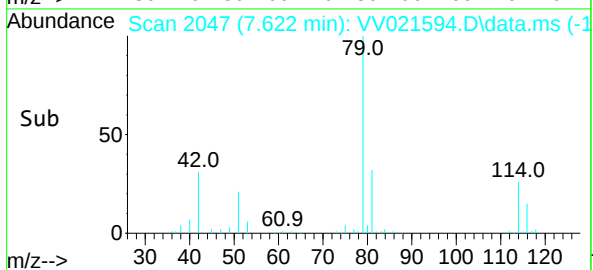
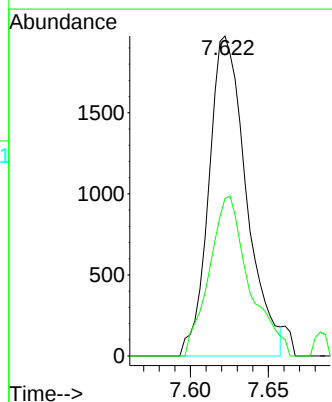
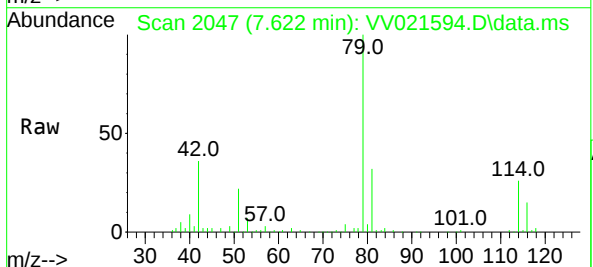
Instrument :
MSVOA_V
ClientSampled :
DBK27

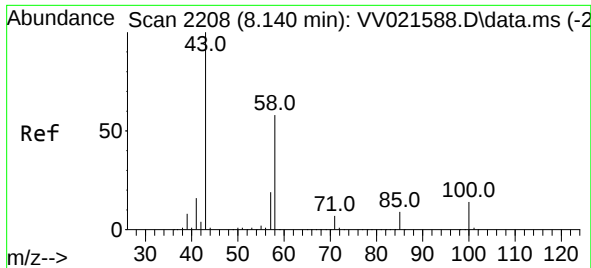
Tgt Ion: 91 Resp: 907896
Ion Ratio Lower Upper
91 100
92 57.6 40.6 75.4



#44
trans-1,3-Dichloropropene
Concen: 0.637 ug/L
RT: 7.622 min Scan# 2047
Delta R.T. -0.029 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion: 75 Resp: 3300
Ion Ratio Lower Upper
75 100
77 49.2 21.8 40.4#

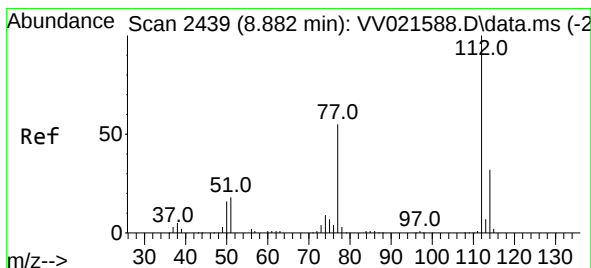
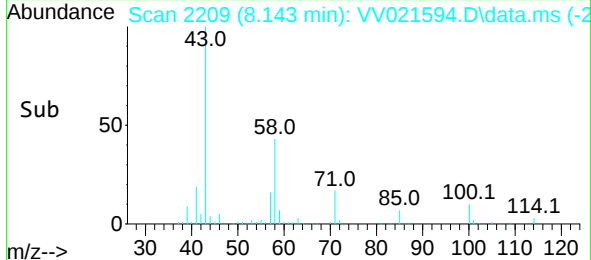
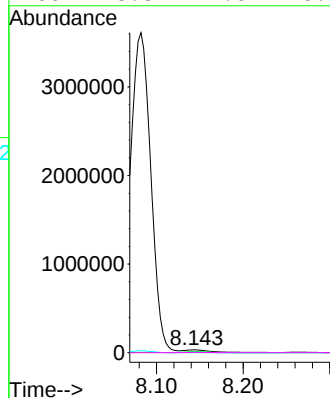
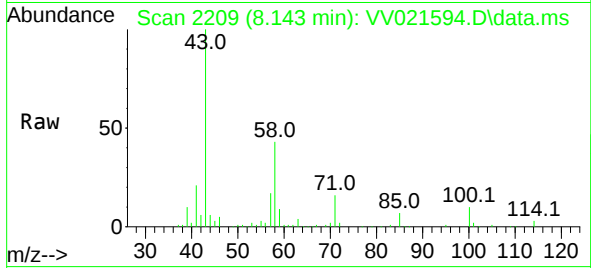




#48
2-Hexanone
Concen: 19.292 ug/L
RT: 8.143 min Scan# 2209
Delta R.T. 0.003 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

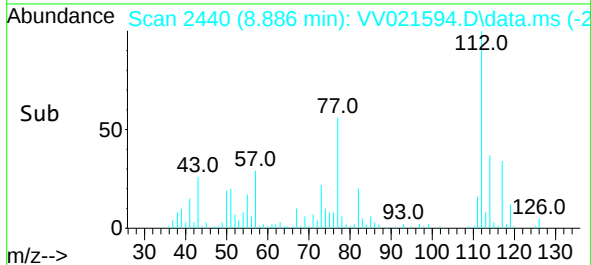
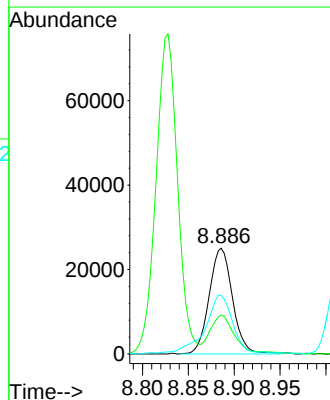
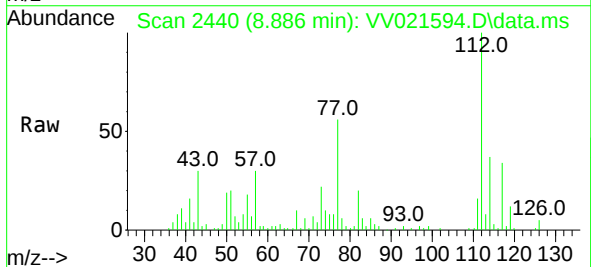
Instrument :
MSVOA_V
ClientSampleId :
DBK27

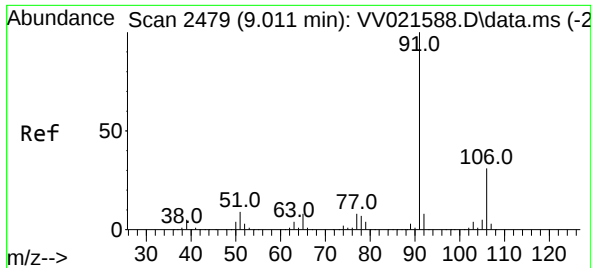
Tgt Ion: 43	Resp: 75349
Ion Ratio	Lower Upper
43 100	
58 32.2	46.7 70.1#
57 12.8	15.5 23.3#
100 8.8	11.0 16.4#



#51
Chlorobenzene
Concen: 4.920 ug/L
RT: 8.886 min Scan# 2440
Delta R.T. 0.003 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt	Ion:112	Resp:	44416
Ion	Ratio	Lower	Upper
112	100		
114	36.8	21.9	40.7
77	55.5	44.0	66.0

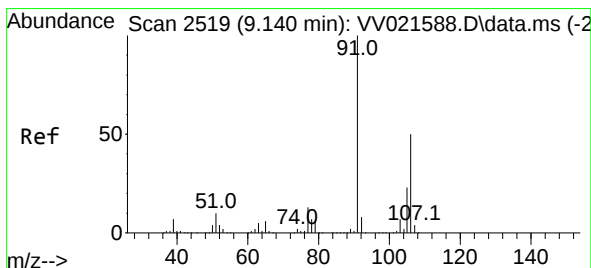
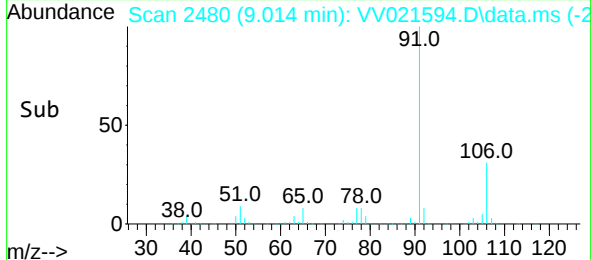
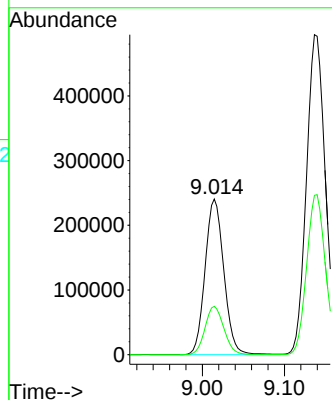
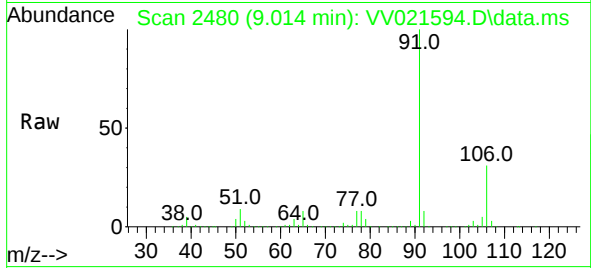




#52
Ethylbenzene
Concen: 25.354 ug/L
RT: 9.014 min Scan# 2480
Delta R.T. 0.003 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

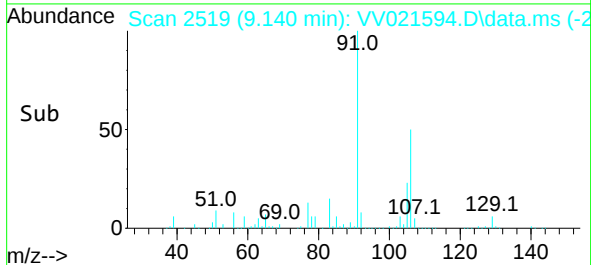
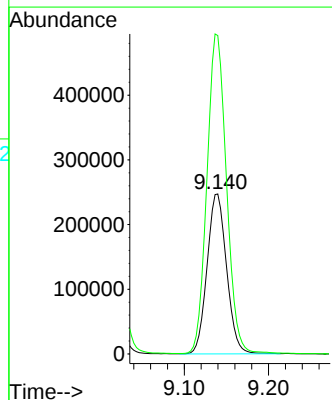
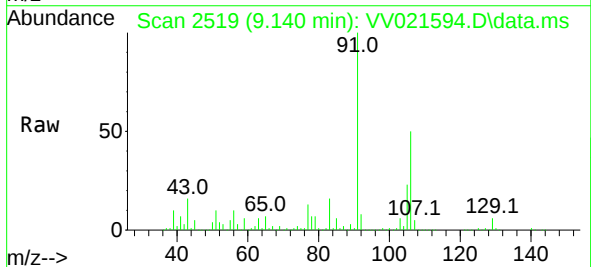
Instrument :
MSVOA_V
ClientSampled :
DBK27

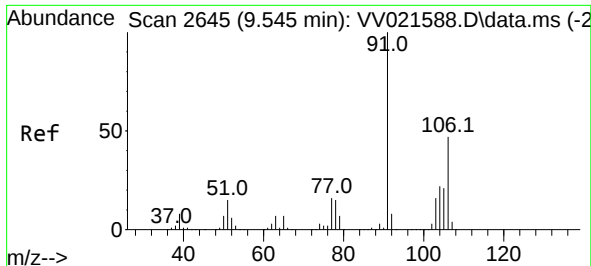
Tgt Ion: 91 Resp: 382069
Ion Ratio Lower Upper
91 100
106 31.0 21.8 40.6



#53
m,p-Xylene
Concen: 68.871 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.000 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion: 106 Resp: 398292
Ion Ratio Lower Upper
106 100
91 198.9 138.7 257.5

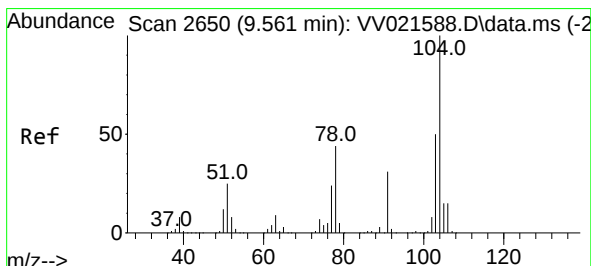
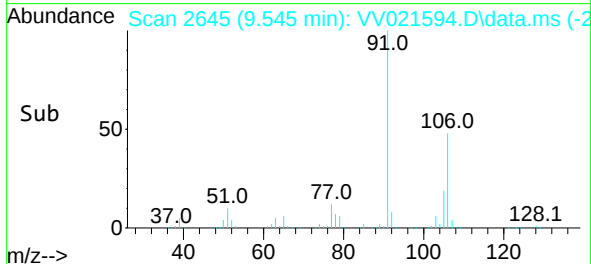
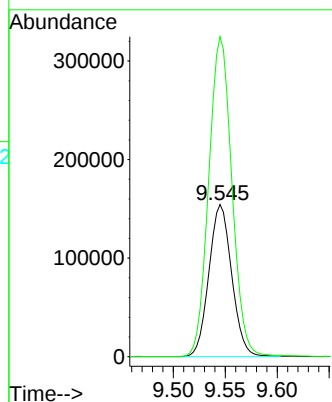
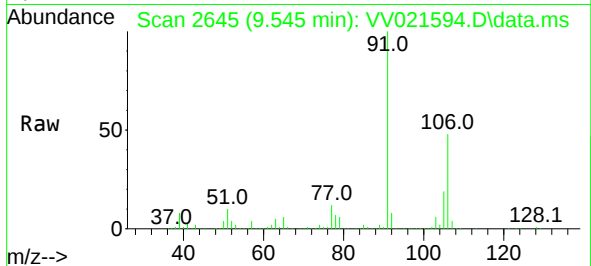




#54
o-Xylene
Concen: 40.867 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. 0.000 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

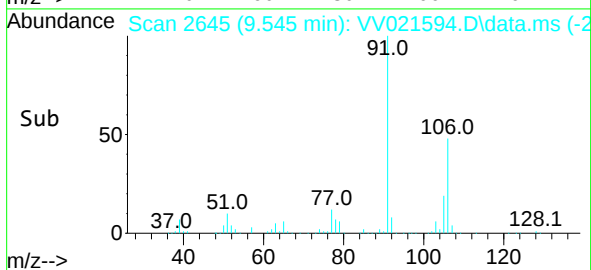
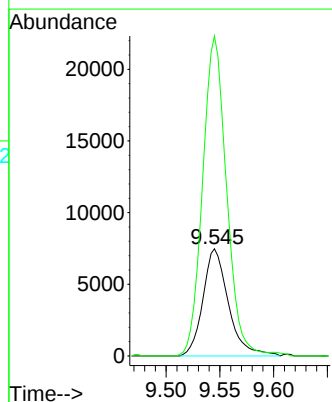
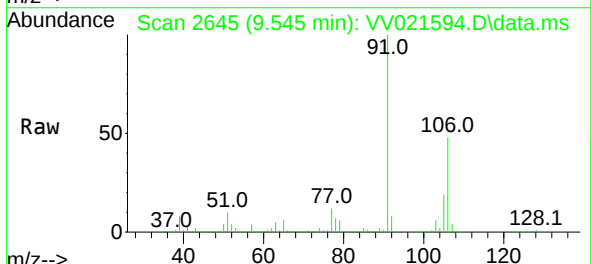
Instrument :
MSVOA_V
ClientSampleId :
DBK27

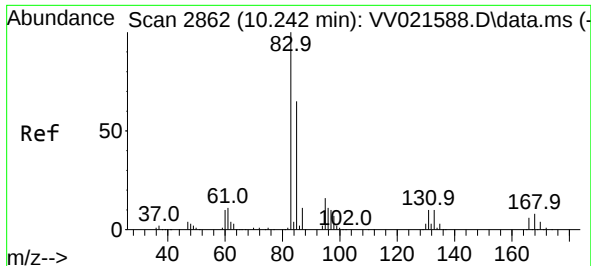
Tgt Ion:106 Resp: 235787
Ion Ratio Lower Upper
106 100
91 210.3 149.0 276.8



#55
Styrene
Concen: 1.265 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. -0.016 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion:104 Resp: 12330
Ion Ratio Lower Upper
104 100
78 298.4 30.6 56.8#

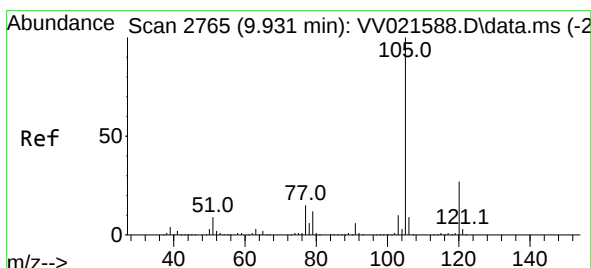
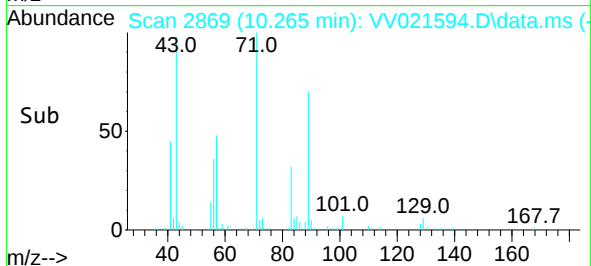
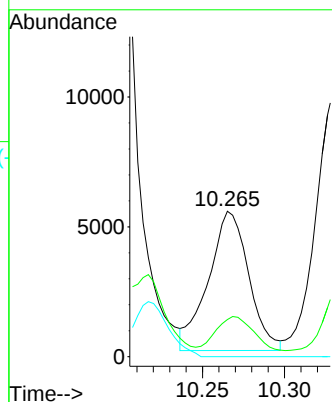
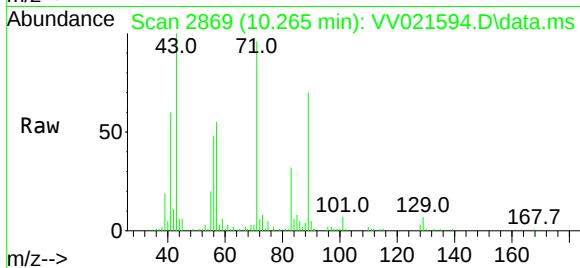




#57
1,1,2,2-Tetrachloroethane
Concen: 1.772 ug/L
RT: 10.265 min Scan# 2869
Delta R.T. 0.023 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

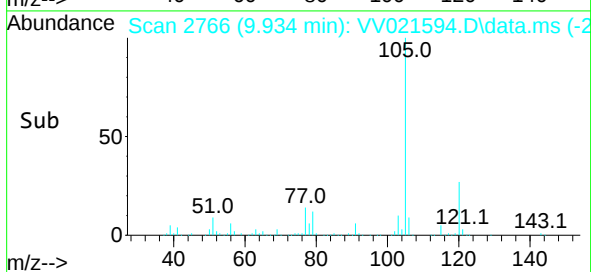
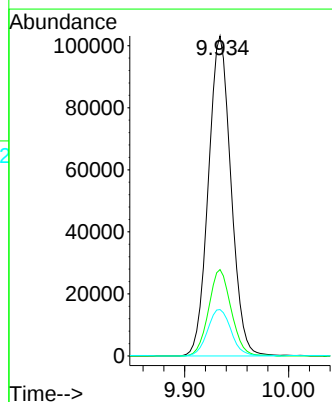
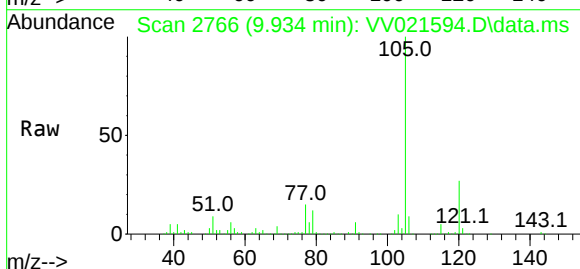
Instrument :
MSVOA_V
ClientSampled :
DBK27

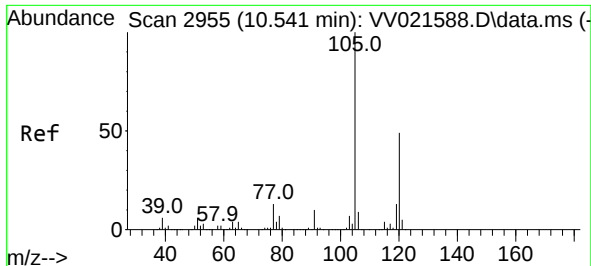
Tgt Ion: 83 Resp: 9135
Ion Ratio Lower Upper
83 100
85 25.5 45.0 83.6#
131 0.0 8.4 12.6#



#60
Isopropylbenzene
Concen: 10.262 ug/L
RT: 9.934 min Scan# 2766
Delta R.T. 0.003 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion: 105 Resp: 155609
Ion Ratio Lower Upper
105 100
120 27.0 21.5 32.3
77 15.1 12.0 18.0

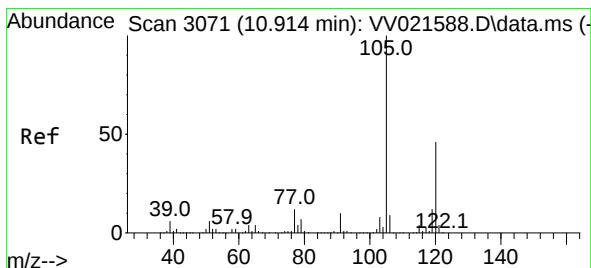
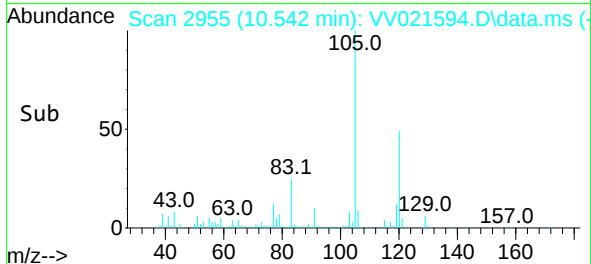
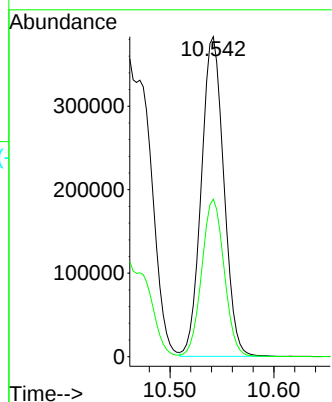
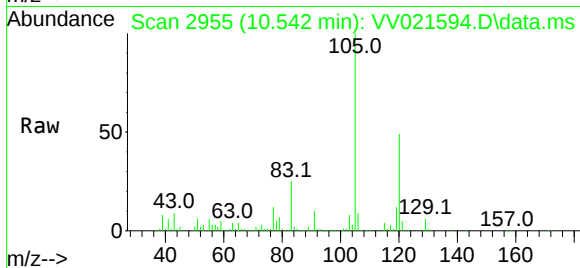




#62
1,3,5-Trimethylbenzene
Concen: 44.483 ug/L
RT: 10.542 min Scan# 2955
Delta R.T. 0.000 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

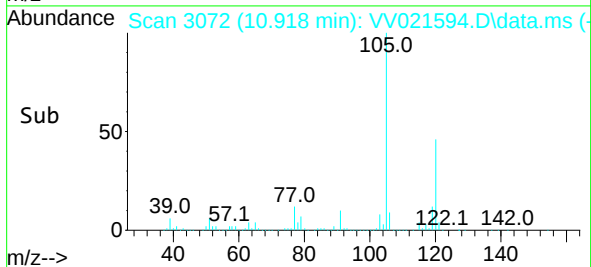
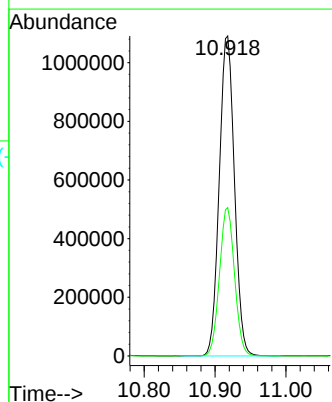
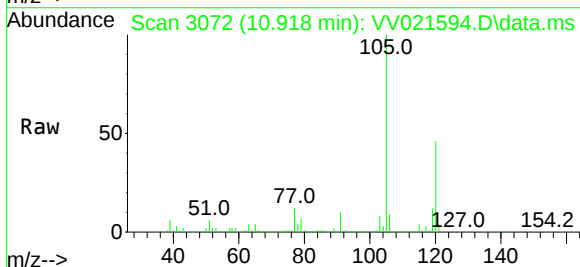
Instrument :
MSVOA_V
ClientSampleId :
DBK27

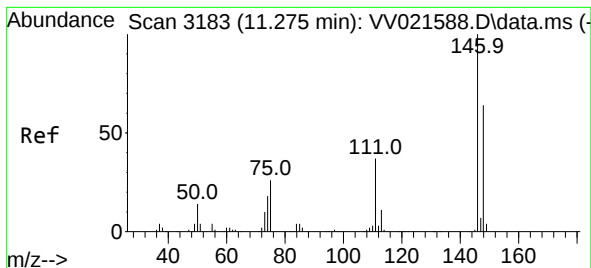
Tgt Ion:105 Resp: 574862
Ion Ratio Lower Upper
105 100
120 49.0 40.0 60.0



#63
1,2,4-Trimethylbenzene
Concen: 123.873 ug/L
RT: 10.918 min Scan# 3072
Delta R.T. 0.003 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion:105 Resp: 1620044
Ion Ratio Lower Upper
105 100
120 46.0 37.1 55.7

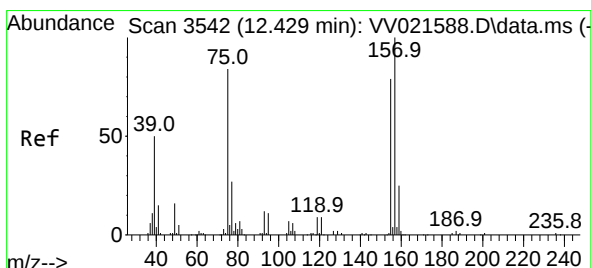
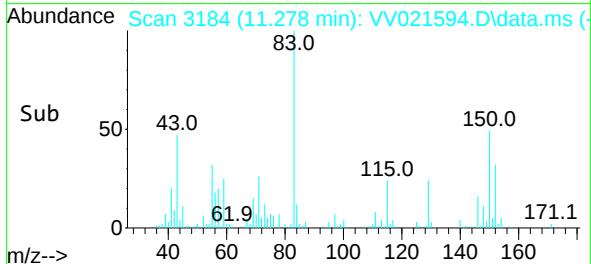
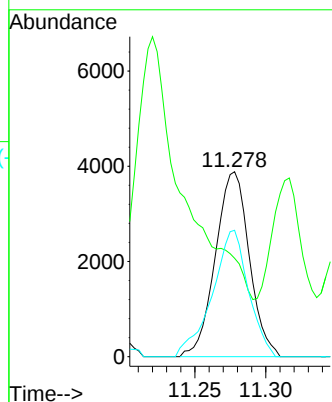
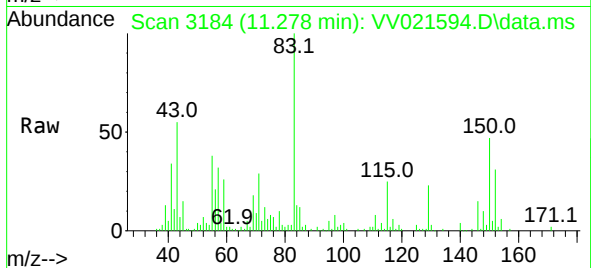




#65
1,4-Dichlorobenzene
Concen: 0.907 ug/L
RT: 11.278 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

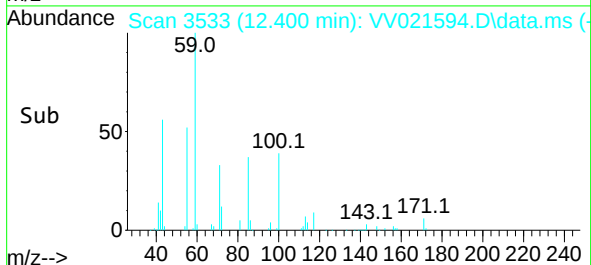
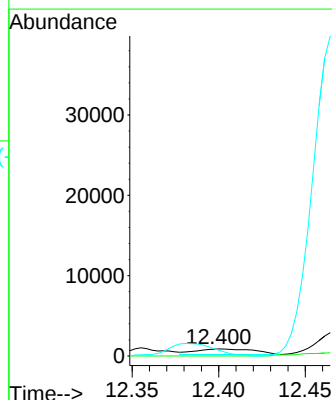
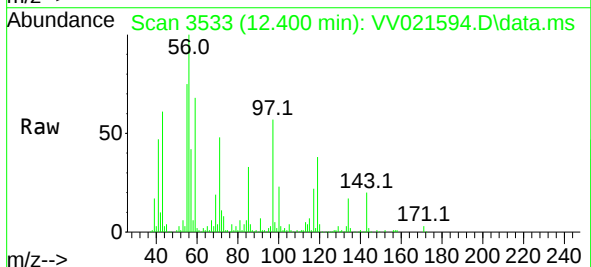
Instrument :
MSVOA_V
ClientSampleId :
DBK27

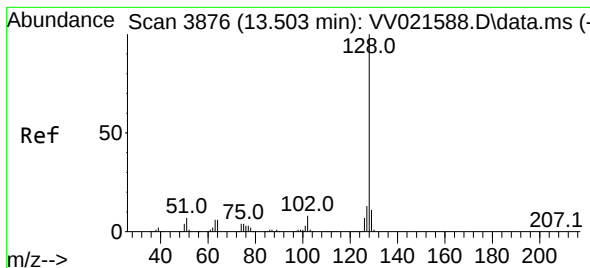
Tgt Ion:146 Resp: 6463
Ion Ratio Lower Upper
146 100
111 53.2 26.6 49.4#
148 68.4 45.2 84.0



#68
1,2-Dibromo-3-chloropropane
Concen: 1.296 ug/L
RT: 12.400 min Scan# 3533
Delta R.T. -0.029 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion: 75 Resp: 1651
Ion Ratio Lower Upper
75 100
155 0.0 75.9 113.9#
157 81.3 96.7 145.1#

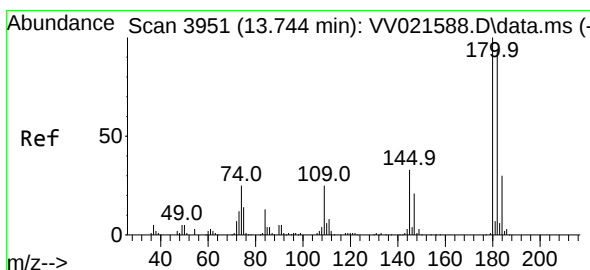
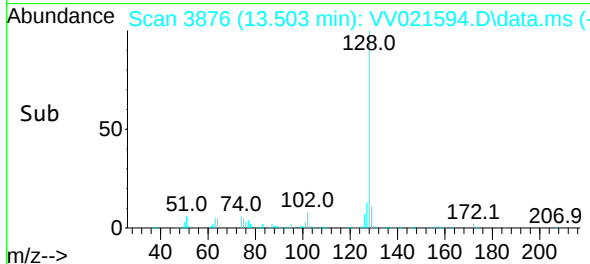
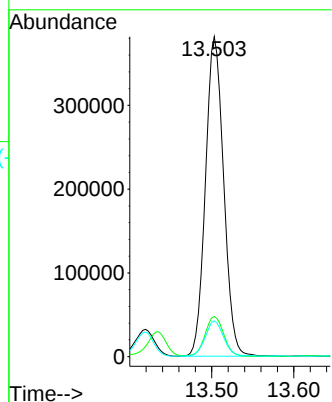
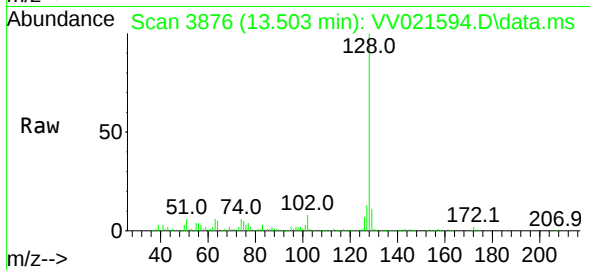




#71
Naphthalene
Concen: 42.008 ug/L
RT: 13.503 min Scan# 3876
Delta R.T. 0.000 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Instrument :
MSVOA_V
ClientSampleId :
DBK27

Tgt Ion:128 Resp: 586296
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 11.3 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 0.490 ug/L
RT: 13.763 min Scan# 3957
Delta R.T. 0.019 min
Lab File: VV021594.D
Acq: 02 Jul 2021 13:26

Tgt Ion:180 Resp: 2220
Ion Ratio Lower Upper
180 100
182 211.4 75.8 113.6#
145 142.3 25.7 38.5#

