

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081821\
 Data File : VW019769.D
 Acq On : 18 Aug 2021 12:59
 Operator : SY/VA
 Sample : M3365-17
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DBK76

Quant Time: Aug 19 05:15:44 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM081821SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Aug 19 05:14:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.848	114	373325	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	338793	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	174683	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.361	65	147469	25.495	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.960%
7) Chloroethane-d5	2.891	69	137553	27.093	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	108.360%
11) 1,1-Dichloroethene-d2	4.025	63	216173	21.538	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	86.160%
21) 2-Butanone-d5	7.086	46	55385	47.140	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.280%
24) Chloroform-d	7.653	84	239070	23.285	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.160%
26) 1,2-Dichloroethane-d4	8.311	65	132594	23.965	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.840%
32) Benzene-d6	8.275	84	483892	25.050	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.200%
36) 1,2-Dichloropropane-d6	9.274	67	142038	24.281	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.120%
41) Toluene-d8	10.323	98	422383	23.860	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.440%
43) trans-1,3-Dichloroprop...	10.579	79	61137	25.298	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	101.200%
47) 2-Hexanone-d5	10.927	63	38856	47.680	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.360%
56) 1,1,2,2-Tetrachloroeth...	12.695	84	116876	24.548	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.200%
66) 1,2-Dichlorobenzene-d4	13.853	152	137396	22.930	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.720%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.014	85	38579	10.545	ug/L	93
3) Chloromethane	2.221	50	65903	14.475	ug/L	100
5) Vinyl chloride	2.367	62	182562	27.037	ug/L	99
6) Bromomethane	2.788	94	75862	15.140	ug/L	96
8) Chloroethane	2.928	64	47302	10.686	ug/L	98
9) Trichlorofluoromethane	3.263	101	48939	11.268	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	4.068	101	115336	22.373	ug/L	97
12) 1,1-Dichloroethene	4.044	96	80170	15.858	ug/L	# 71
15) Methyl Acetate	4.678	43	57030	27.316	ug/L	100
16) Methylene chloride	4.928	84	118635	18.515	ug/L	95
18) Methyl tert-butyl Ether	5.428	73	272284	44.541	ug/L	97
22) 2-Butanone	7.183	43	94050	72.362	ug/L	96
25) Chloroform	7.677	83	202988	20.843	ug/L	99
29) Cyclohexane	7.964	56	180490	22.686	ug/L	98
33) Benzene	8.329	78	934120	44.924	ug/L	100
34) Trichloroethene	9.092	95	308789	57.125	ug/L	92
42) Toluene	10.390	91	1231378	55.905	ug/L	97
45) 1,1,2-Trichloroethane	10.786	97	82571	22.148	ug/L	98
46) Tetrachloroethene	10.866	164	45172	11.032	ug/L	98

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

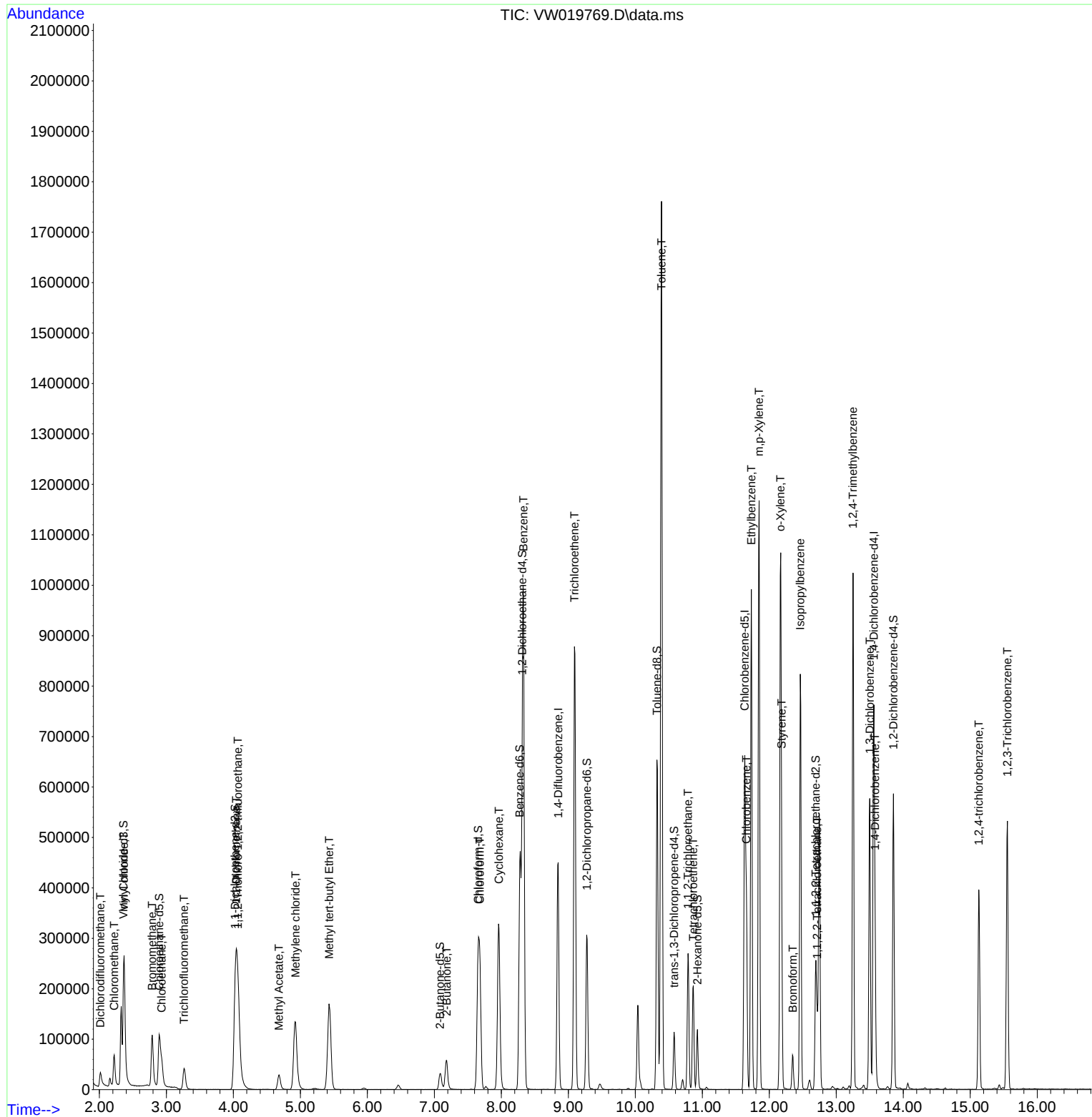
51) Chlorobenzene	11.658	112	185102	13.231	ug/L	98
52) Ethylbenzene	11.731	91	657036	27.707	ug/L	97
53) m,p-Xylene	11.847	106	310349	34.080	ug/L	98
54) o-Xylene	12.164	106	240568	27.927	ug/L	95
55) Styrene	12.182	104	167637	11.389	ug/L	97
57) 1,1,2,2-Tetrachloroethane	12.713	83	59570	13.029	ug/L	97
59) Bromoform	12.353	173	27706	11.946	ug/L	96
60) Isopropylbenzene	12.463	105	511955	21.630	ug/L	100
63) 1,2,4-Trimethylbenzene	13.249	105	516605	26.978	ug/L	99
64) 1,3-Dichlorobenzene	13.499	146	222648	21.099	ug/L	96
65) 1,4-Dichlorobenzene	13.579	146	118362	10.912	ug/L	93
70) 1,2,4-trichlorobenzene	15.127	180	118255	21.166	ug/L	98
72) 1,2,3-Trichlorobenzene	15.554	180	165440	31.978	ug/L	99

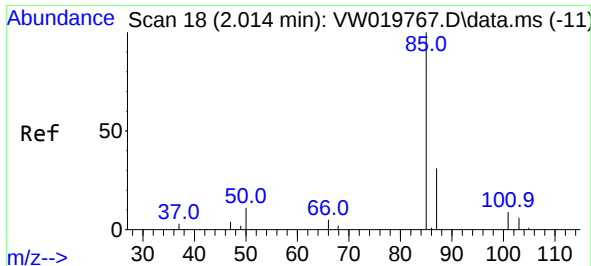
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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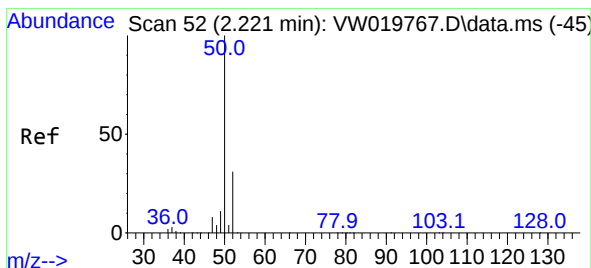
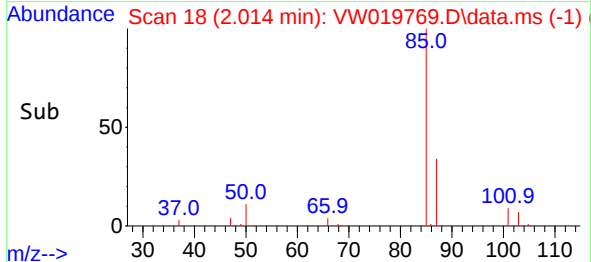
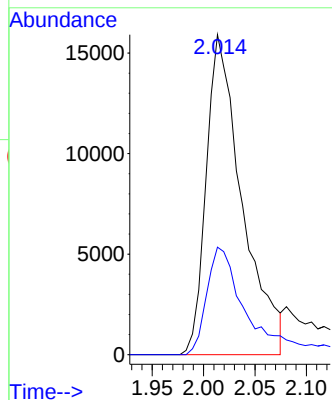
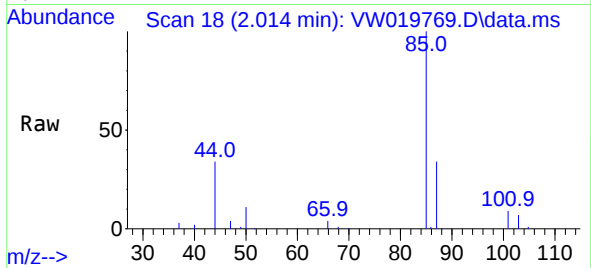




#2
Dichlorodifluoromethane
Concen: 10.545 ug/L
RT: 2.014 min Scan# 18
Delta R.T. -0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

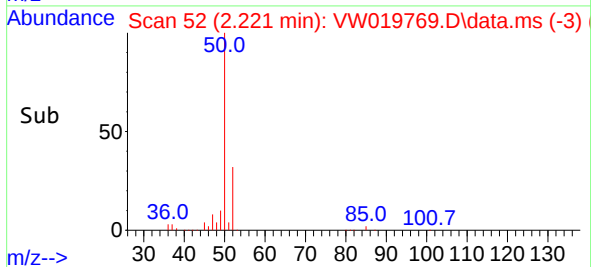
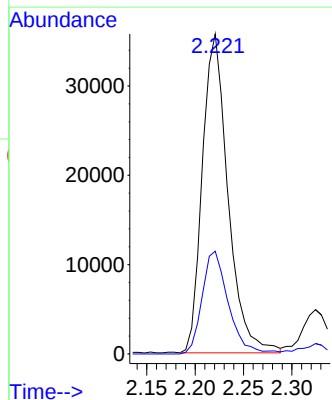
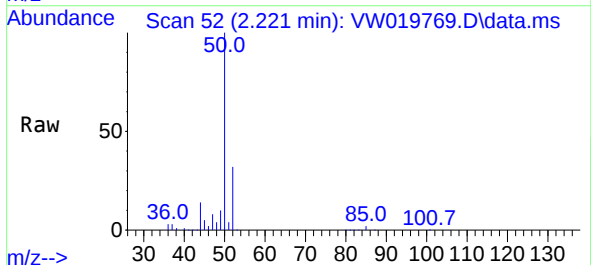
Instrument :
MSVOA_W
ClientSampled :
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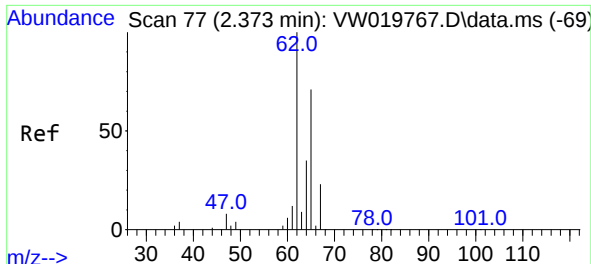
Tgt Ion: 85 Resp: 38579
Ion Ratio Lower Upper
85 100
87 32.9 23.3 34.9



#3
Chloromethane
Concen: 14.475 ug/L
RT: 2.221 min Scan# 52
Delta R.T. -0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion: 50 Resp: 65903
Ion Ratio Lower Upper
50 100
52 32.1 22.5 41.9

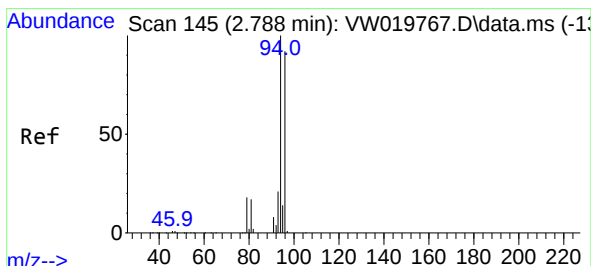
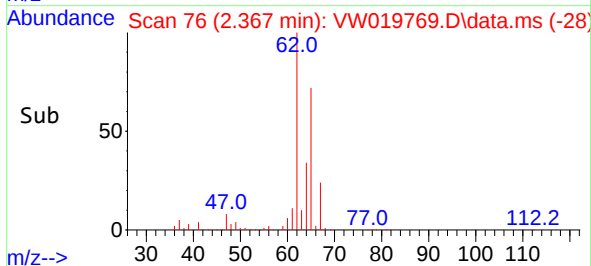
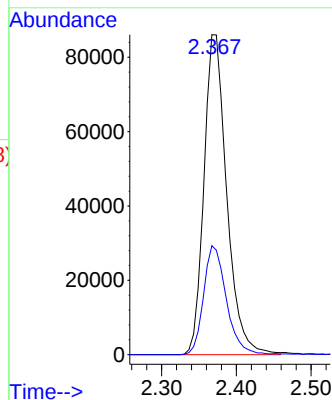
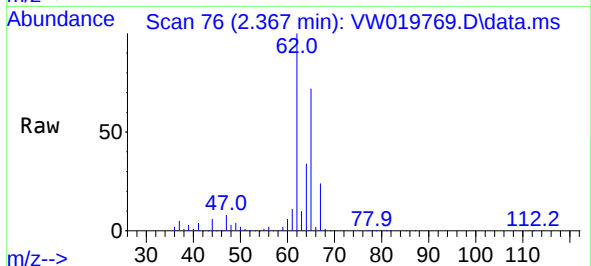




#5
 Vinyl chloride
 Concen: 27.037 ug/L
 RT: 2.367 min Scan# 76
 Delta R.T. -0.006 min
 Lab File: VW019769.D
 Acq: 18 Aug 2021 12:59

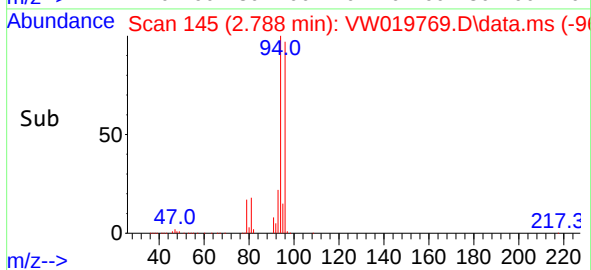
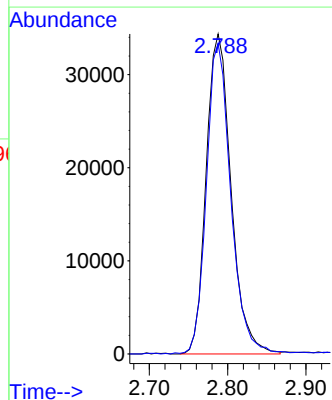
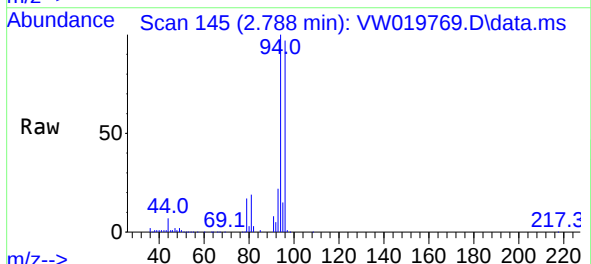
Instrument :
 MSVOA_W
 ClientSampleId :
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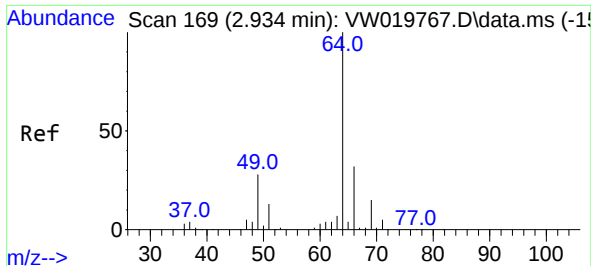
Tgt Ion: 62 Resp: 182562
 Ion Ratio Lower Upper
 62 100
 64 34.1 24.2 45.0



#6
 Bromomethane
 Concen: 15.140 ug/L
 RT: 2.788 min Scan# 145
 Delta R.T. 0.000 min
 Lab File: VW019769.D
 Acq: 18 Aug 2021 12:59

Tgt Ion: 94 Resp: 75862
 Ion Ratio Lower Upper
 94 100
 96 97.1 65.3 121.3

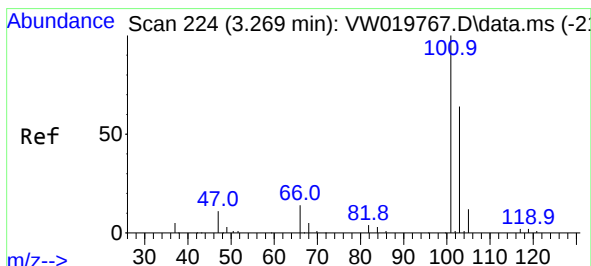
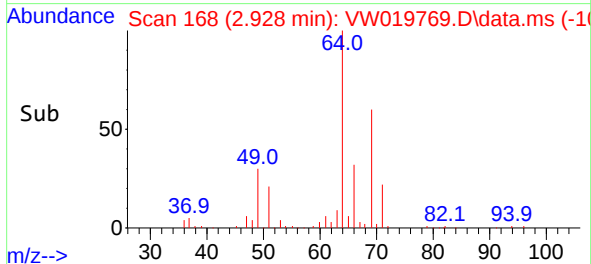
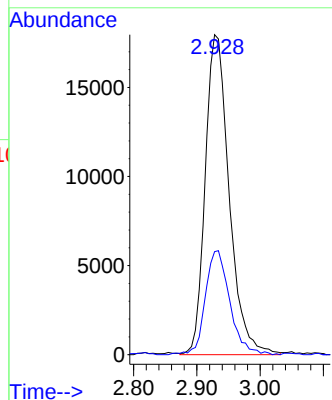
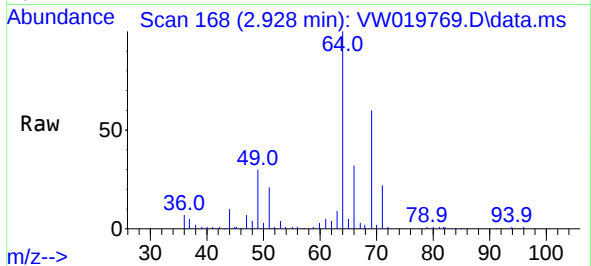




#8
Chloroethane
Concen: 10.686 ug/L
RT: 2.928 min Scan# 168
Delta R.T. -0.006 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

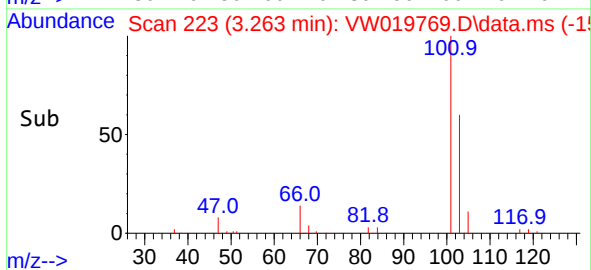
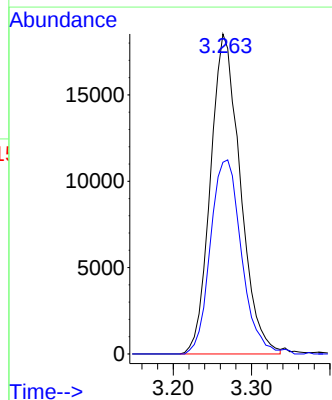
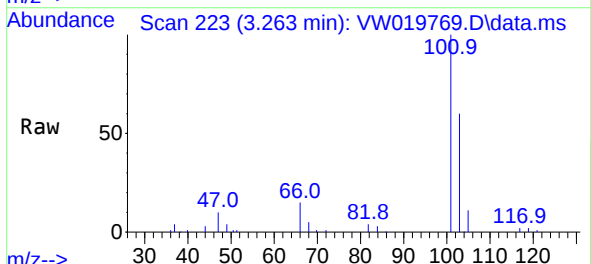
Instrument :
MSVOA_W
ClientSampled :
DBK76

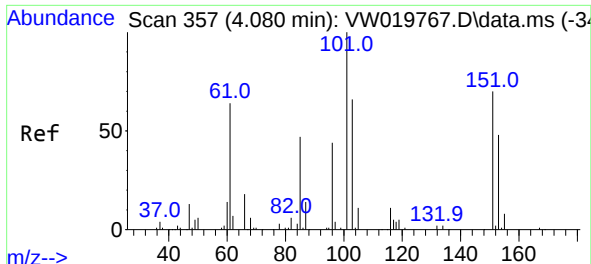
Tgt Ion: 64 Resp: 47302
Ion Ratio Lower Upper
64 100
66 32.2 23.4 43.6



#9
Trichlorofluoromethane
Concen: 11.268 ug/L
RT: 3.263 min Scan# 223
Delta R.T. -0.006 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion: 101 Resp: 48939
Ion Ratio Lower Upper
101 100
103 62.8 51.0 76.4



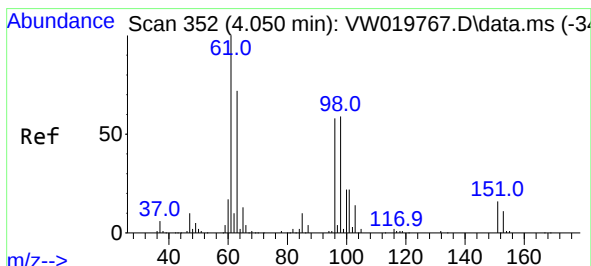
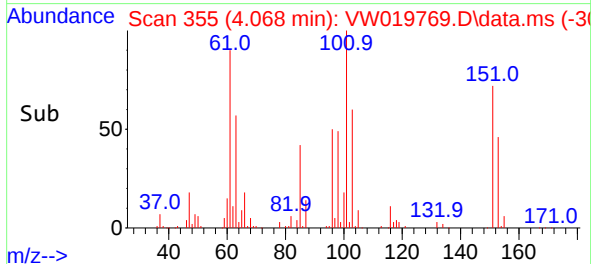
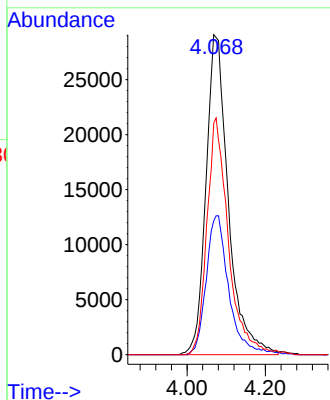
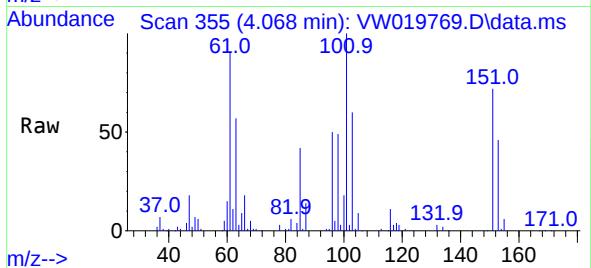


#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 22.373 ug/L
 RT: 4.068 min Scan# 355
 Delta R.T. -0.012 min
 Lab File: VW019769.D
 Acq: 18 Aug 2021 12:59

Instrument :
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Tgt Ion:101 Resp: 115336

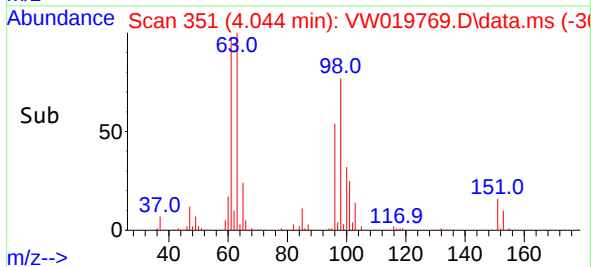
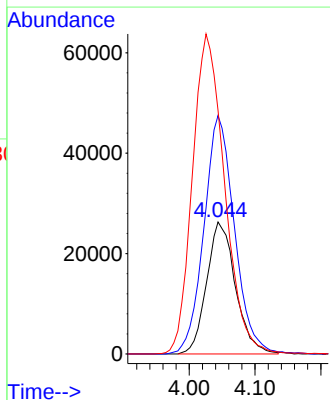
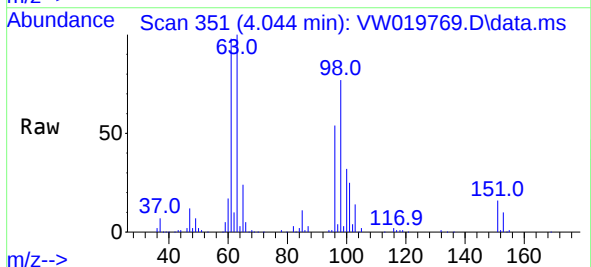
Ion	Ratio	Lower	Upper
101	100		
85	43.5	38.2	57.2
151	70.7	56.6	85.0

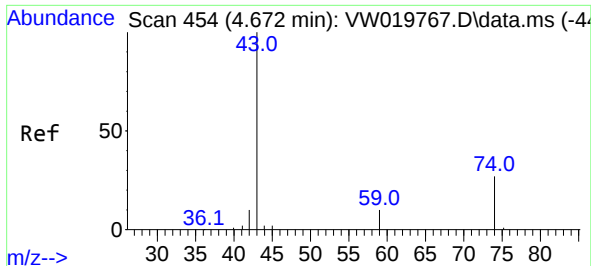


#12
 1,1-Dichloroethene
 Concen: 15.858 ug/L
 RT: 4.044 min Scan# 351
 Delta R.T. -0.006 min
 Lab File: VW019769.D
 Acq: 18 Aug 2021 12:59

Tgt Ion: 96 Resp: 80170

Ion	Ratio	Lower	Upper
96	100		
61	180.6	118.1	219.3
63	184.6	83.7	155.5

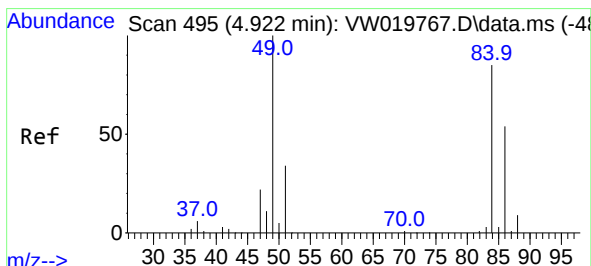
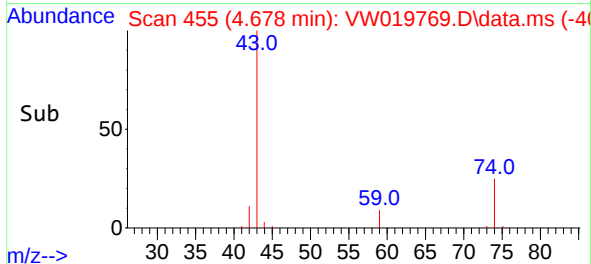
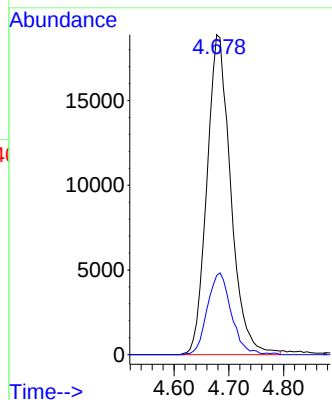
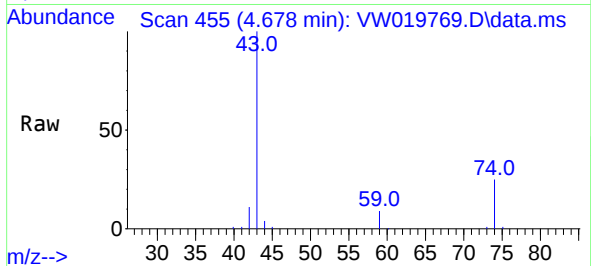




#15
Methyl Acetate
Concen: 27.316 ug/L
RT: 4.678 min Scan# 455
Delta R.T. 0.006 min
Lab File: VW019769.D
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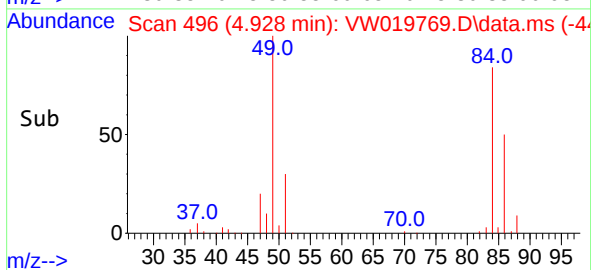
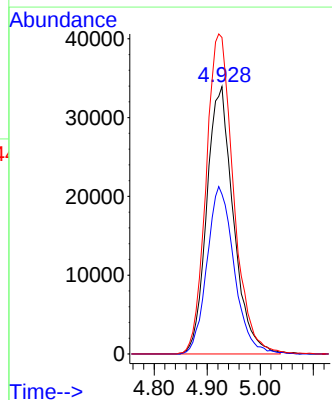
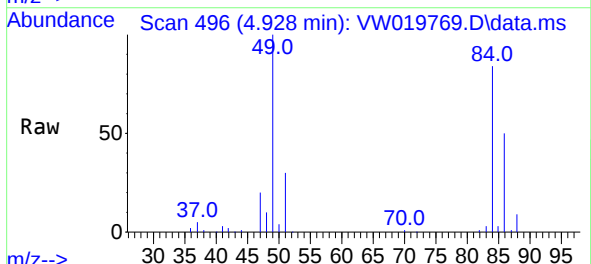
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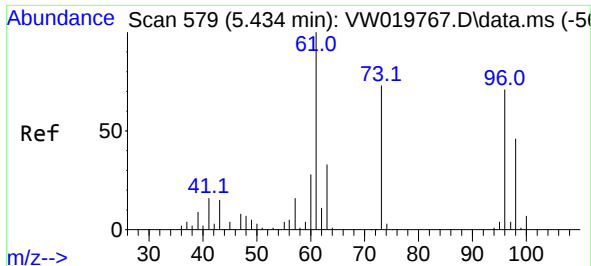
Tgt Ion: 43 Resp: 57030
Ion Ratio Lower Upper
43 100
74 25.2 20.0 30.0



#16
Methylene chloride
Concen: 18.515 ug/L
RT: 4.928 min Scan# 496
Delta R.T. 0.006 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion: 84 Resp: 118635
Ion Ratio Lower Upper
84 100
86 59.7 45.3 84.1
49 118.4 86.6 160.8

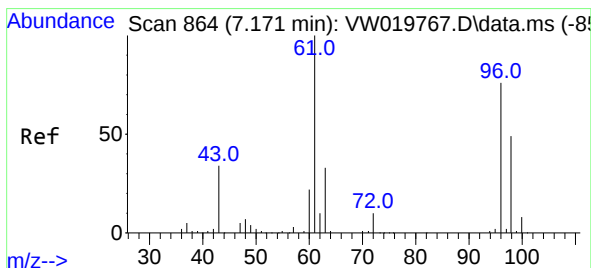
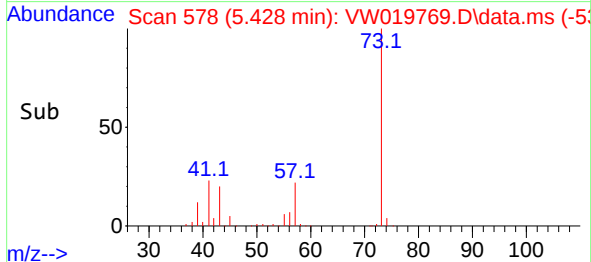
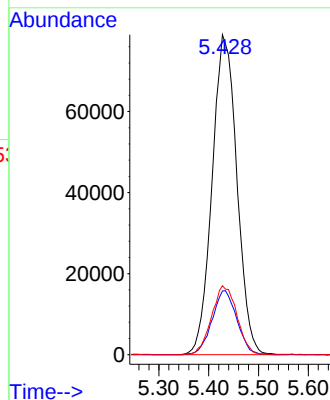
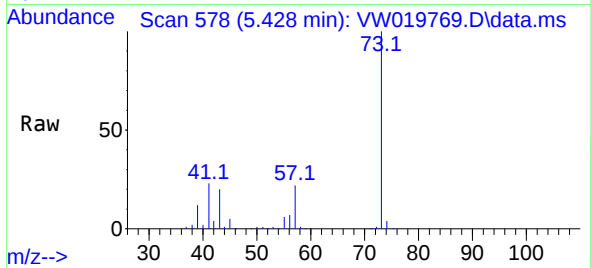




#18
Methyl tert-butyl Ether
Concen: 44.541 ug/L
RT: 5.428 min Scan# 578
Delta R.T. -0.006 min
Lab File: VW019769.D
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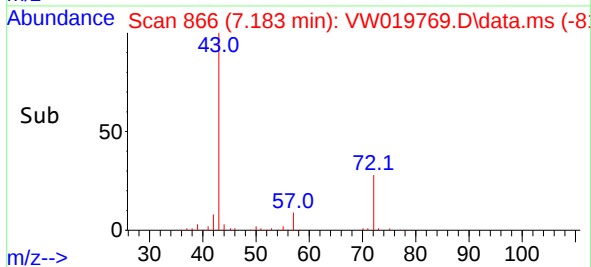
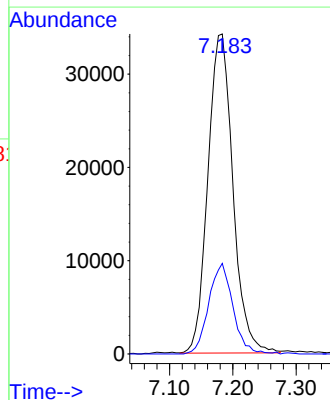
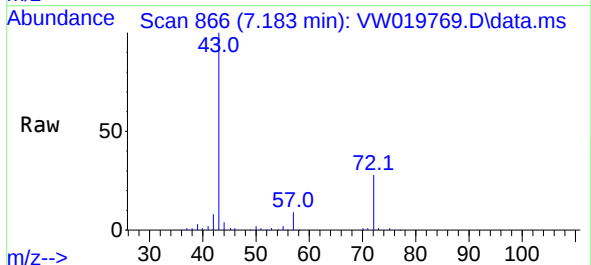
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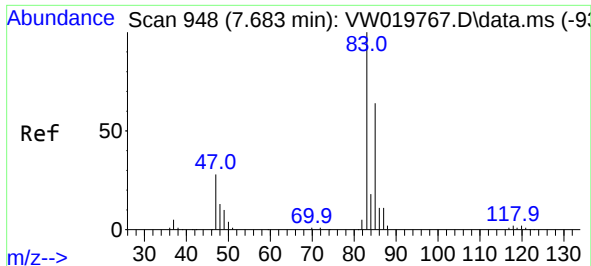
Tgt Ion: 73 Resp: 272284
Ion Ratio Lower Upper
73 100
43 20.0 17.7 26.5
57 22.0 17.0 25.4



#22
2-Butanone
Concen: 72.362 ug/L
RT: 7.183 min Scan# 866
Delta R.T. 0.012 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion: 43 Resp: 94050
Ion Ratio Lower Upper
43 100
72 27.4 14.9 44.7





#25

Chloroform

Concen: 20.843 ug/L

RT: 7.677 min Scan# 947

Delta R.T. -0.006 min

Lab File: VW019769.D

Acq: 18 Aug 2021 12:59

Tgt Ion: 83 Resp: 202988

Ion Ratio Lower Upper

83 100

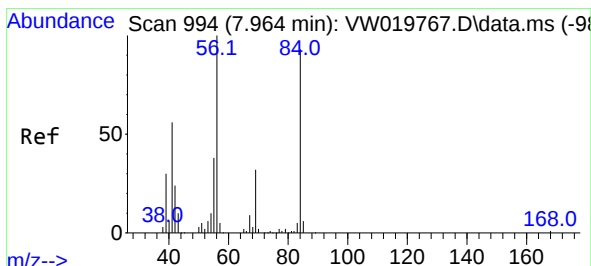
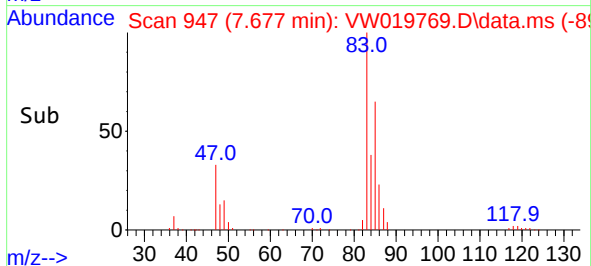
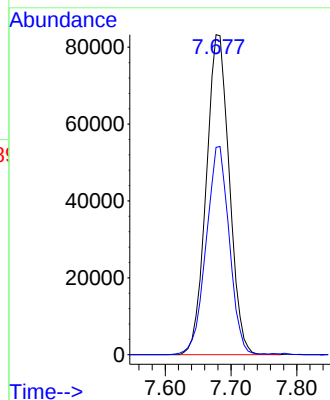
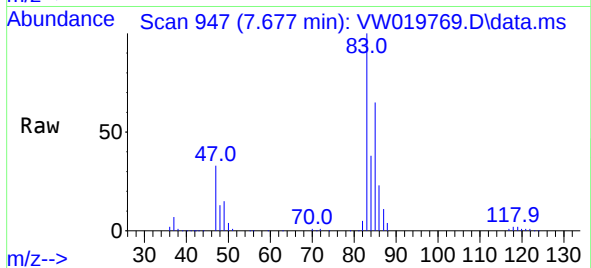
85 64.8 44.6 82.8

Instrument :

MSVOA_W

ClientSampleId :

DBK76



#29

Cyclohexane

Concen: 22.686 ug/L

RT: 7.964 min Scan# 994

Delta R.T. -0.000 min

Lab File: VW019769.D

Acq: 18 Aug 2021 12:59

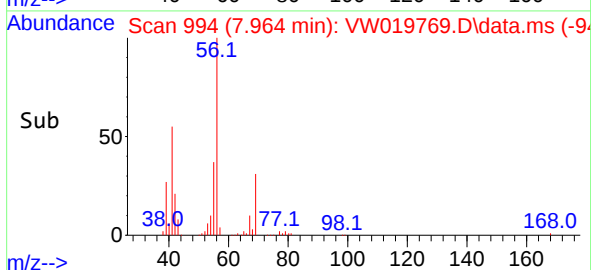
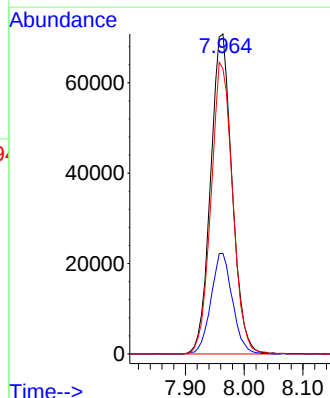
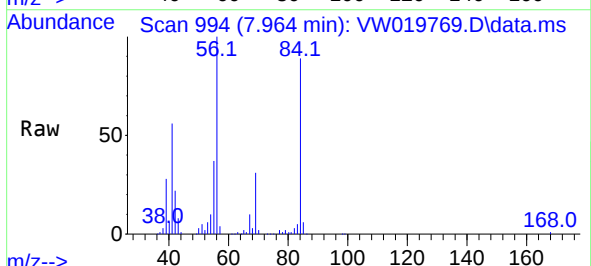
Tgt Ion: 56 Resp: 180490

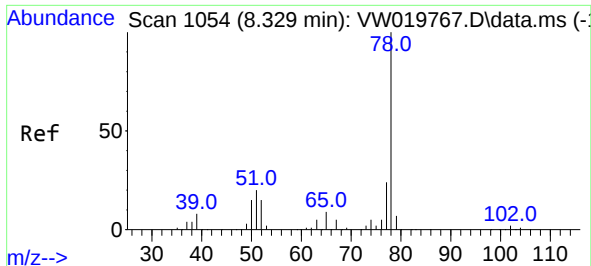
Ion Ratio Lower Upper

56 100

69 31.4 24.5 36.7

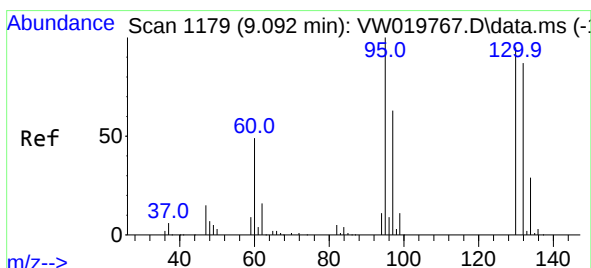
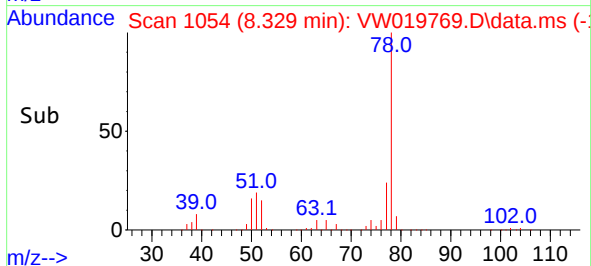
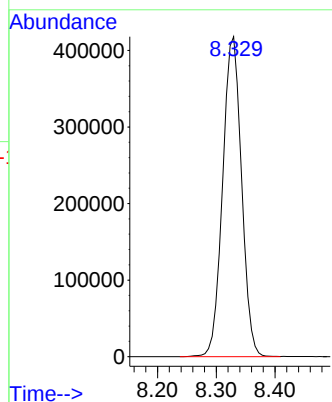
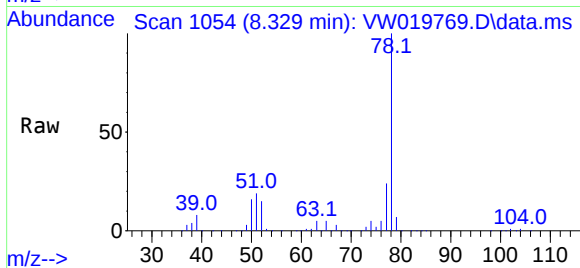
84 91.2 75.0 112.4



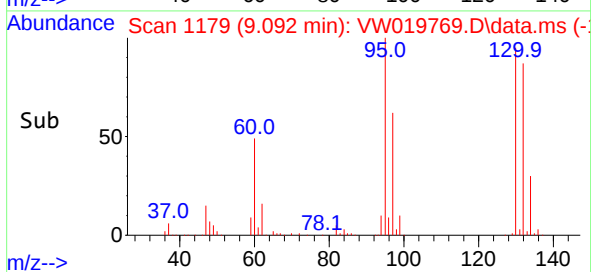
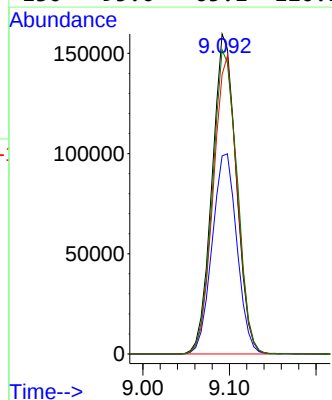
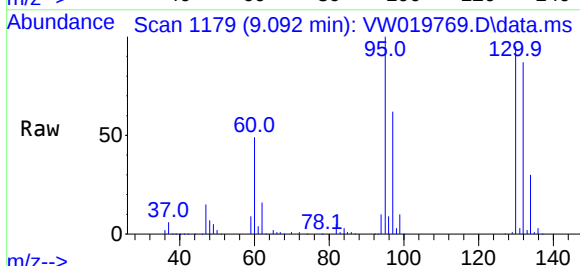


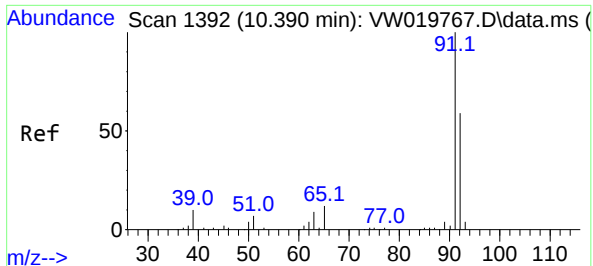
#33
Benzene
Concen: 44.924 ug/L
RT: 8.329 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59
Tgt Ion: 78 Resp: 934120

Instrument :
MSVOA_W
ClientSampleId :
DBK76



#34
Trichloroethene
Concen: 57.125 ug/L
RT: 9.092 min Scan# 1179
Delta R.T. -0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59
Tgt Ion: 95 Resp: 308789





#42

Toluene

Concen: 55.905 ug/L

RT: 10.390 min Scan# 1392

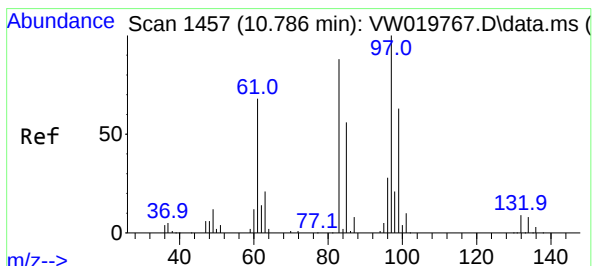
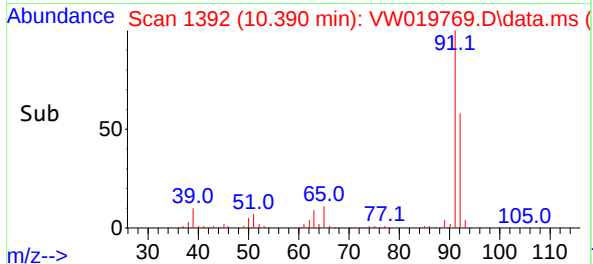
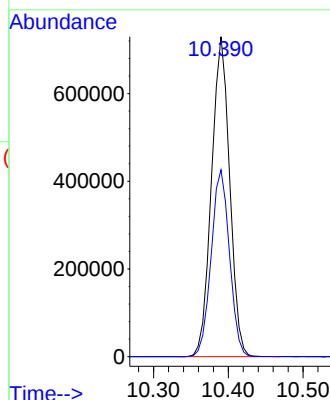
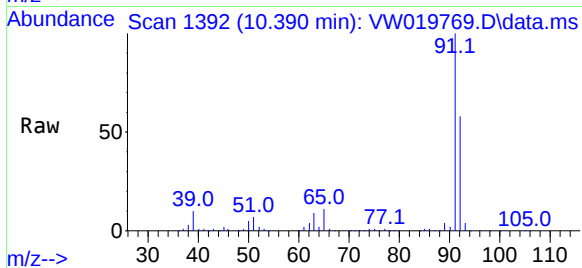
Delta R.T. 0.000 min

Lab File: VW019769.D

Acq: 18 Aug 2021 12:59

Tgt Ion: 91 Resp: 1231378

Ion	Ratio	Lower	Upper
91	100		
92	58.4	39.5	73.3



#45

1,1,2-Trichloroethane

Concen: 22.148 ug/L

RT: 10.786 min Scan# 1457

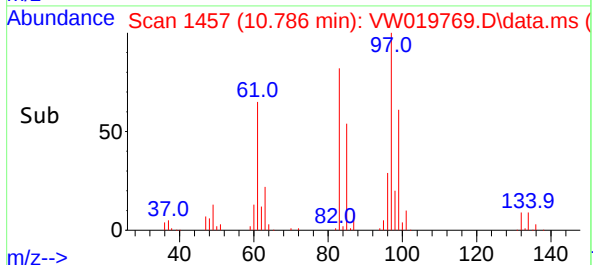
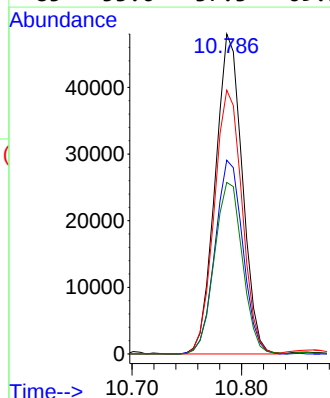
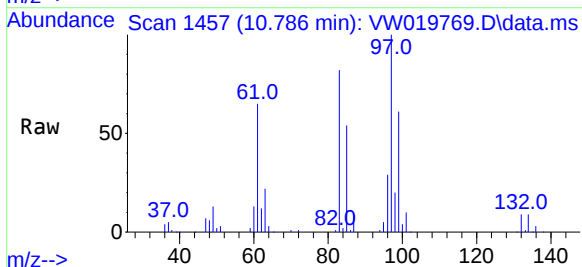
Delta R.T. -0.000 min

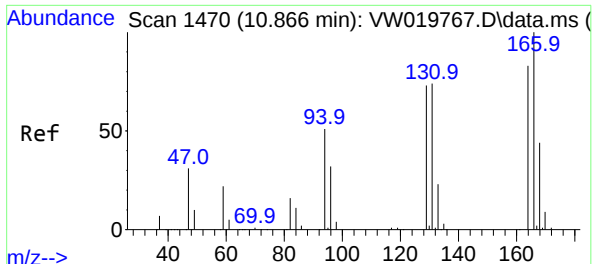
Lab File: VW019769.D

Acq: 18 Aug 2021 12:59

Tgt Ion: 97 Resp: 82571

Ion	Ratio	Lower	Upper
97	100		
99	60.5	45.1	83.7
83	82.4	58.1	107.9
85	53.6	37.3	69.3



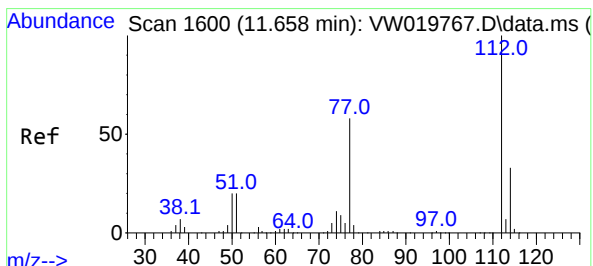
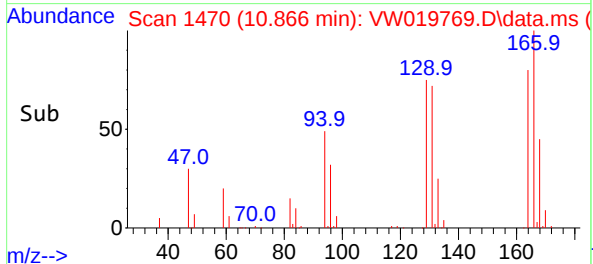
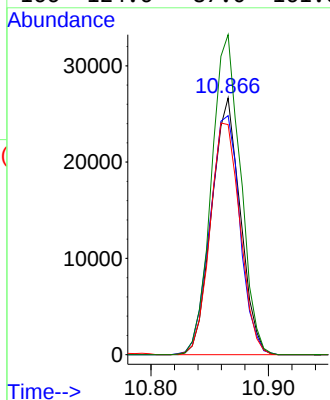
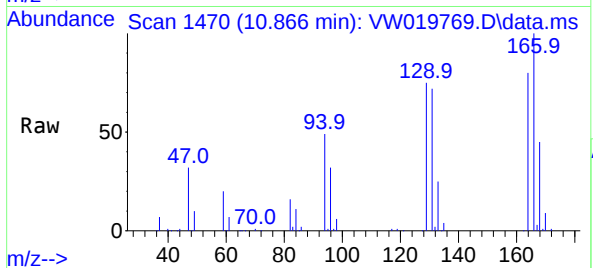


#46
Tetrachloroethene
Concen: 11.032 ug/L
RT: 10.866 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Instrument :
MSVOA_W
ClientSampleId :
DBK76

Tgt Ion:164 Resp: 45172

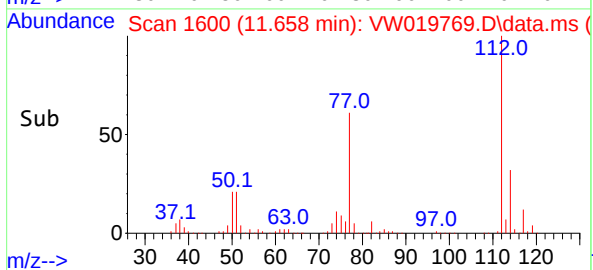
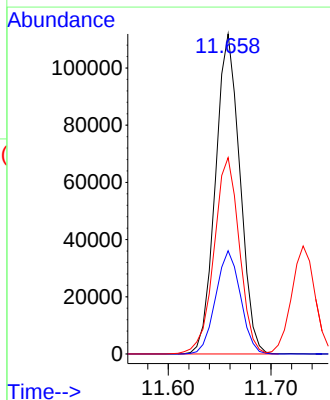
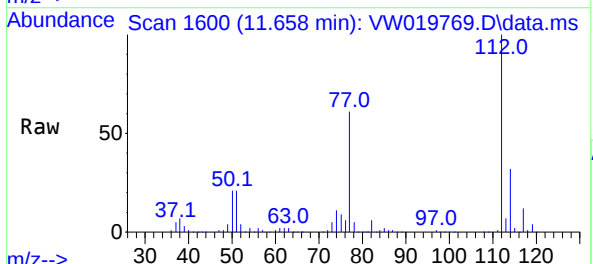
Ion	Ratio	Lower	Upper
164	100		
129	93.1	66.7	123.9
131	89.6	61.1	113.5
166	124.6	87.0	161.6

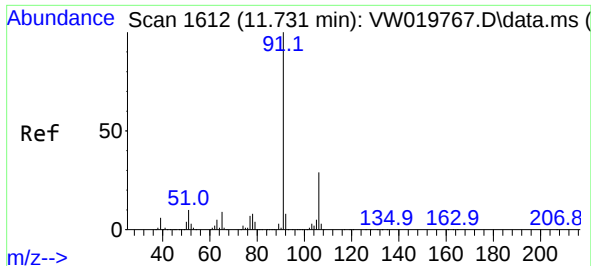


#51
Chlorobenzene
Concen: 13.231 ug/L
RT: 11.658 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion:112 Resp: 185102

Ion	Ratio	Lower	Upper
112	100		
114	32.3	23.4	43.6
77	61.4	47.6	71.4

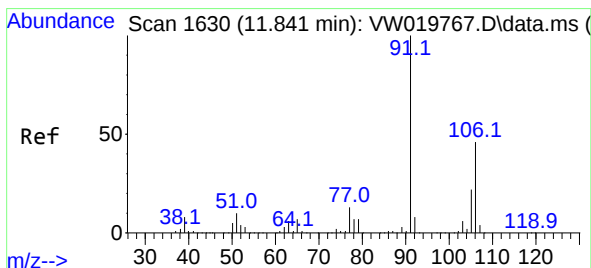
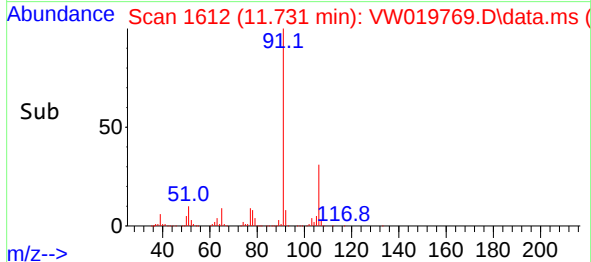
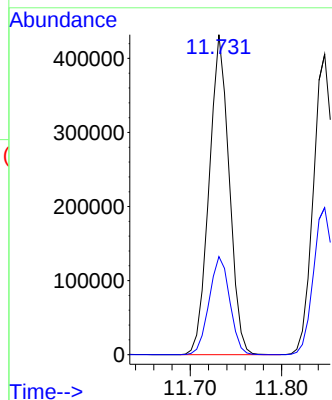
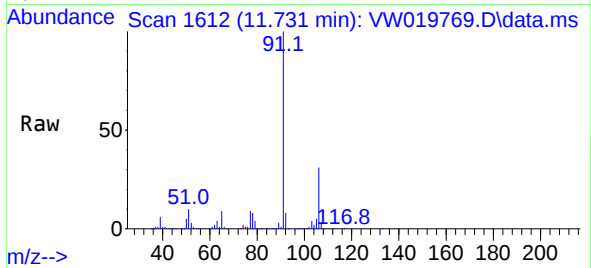




#52
Ethylbenzene
Concen: 27.707 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

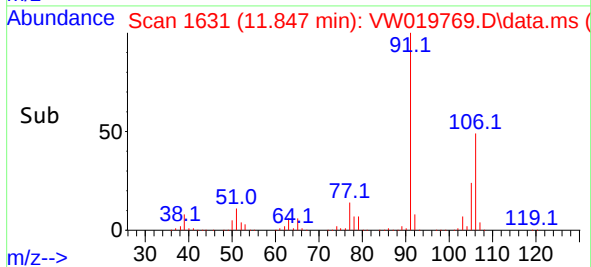
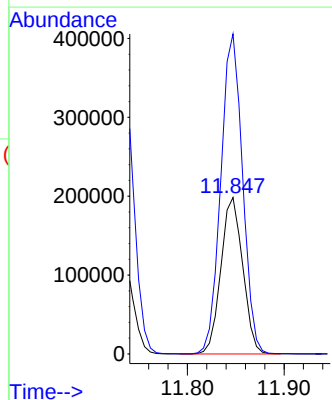
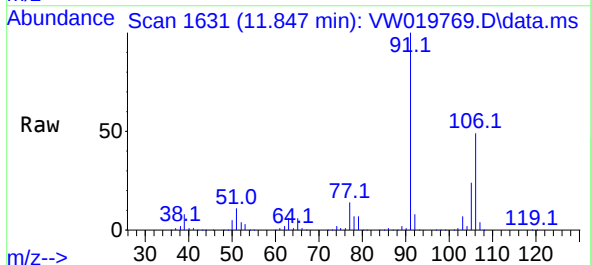
Instrument :
MSVOA_W
ClientSampleId :
DBK76

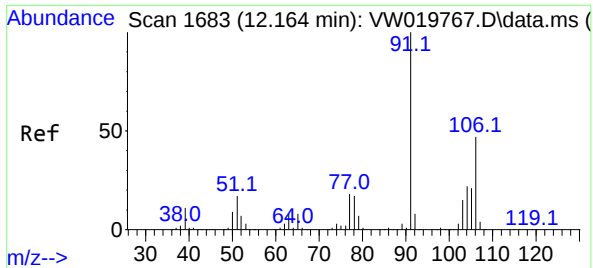
Tgt Ion: 91 Resp: 657036
Ion Ratio Lower Upper
91 100
106 30.6 22.5 41.7



#53
m,p-Xylene
Concen: 34.080 ug/L
RT: 11.847 min Scan# 1631
Delta R.T. 0.006 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion:106 Resp: 310349
Ion Ratio Lower Upper
106 100
91 204.4 141.3 262.3

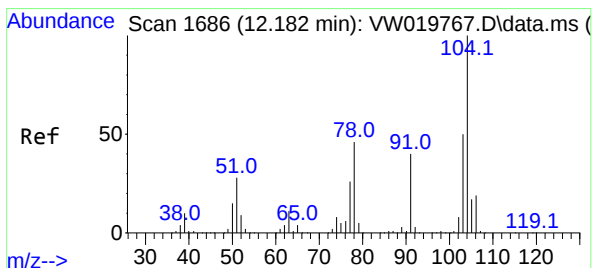
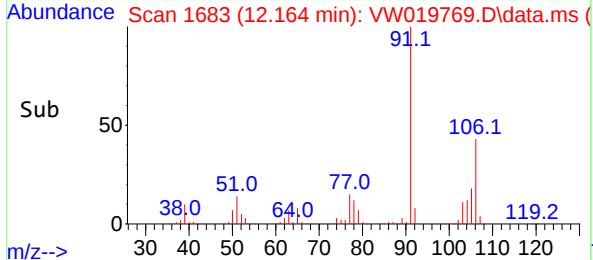
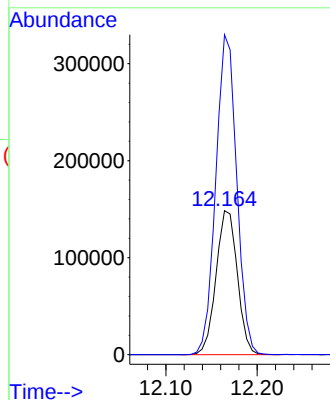
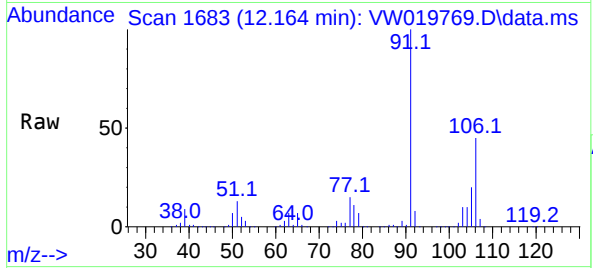




#54
o-Xylene
Concen: 27.927 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

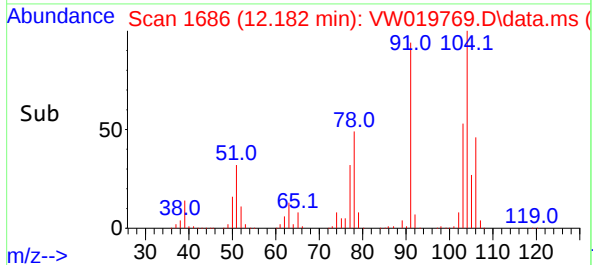
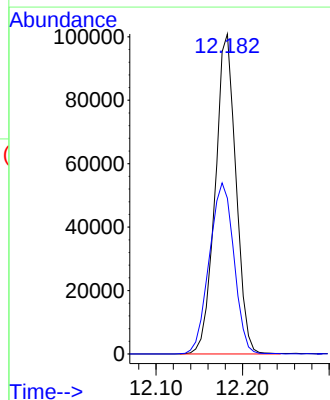
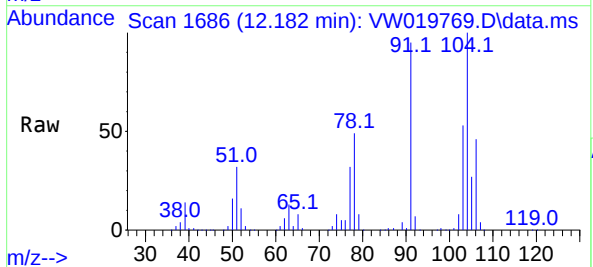
Instrument :
MSVOA_W
ClientSampled :
DBK76

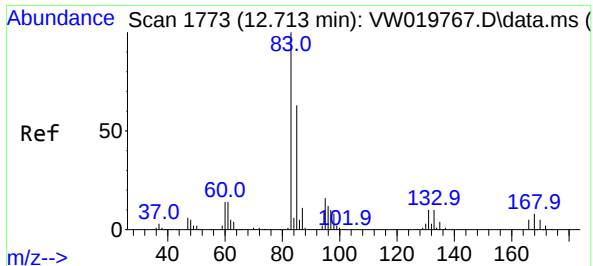
Tgt Ion:106 Resp: 240568
Ion Ratio Lower Upper
106 100
91 222.3 150.0 278.6



#55
Styrene
Concen: 11.389 ug/L
RT: 12.182 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion:104 Resp: 167637
Ion Ratio Lower Upper
104 100
78 48.7 32.5 60.3

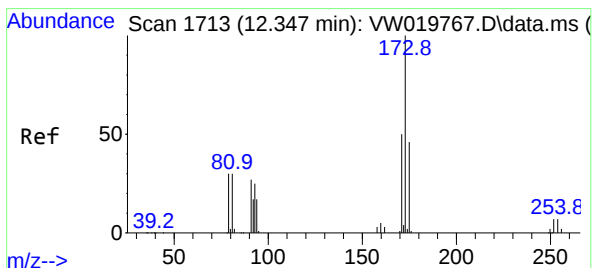
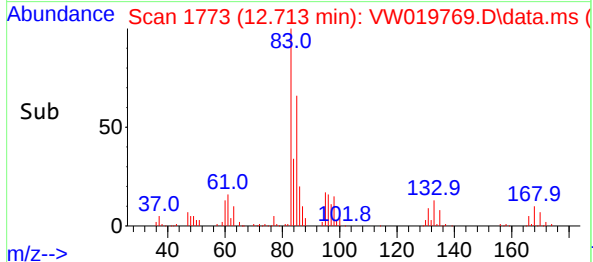
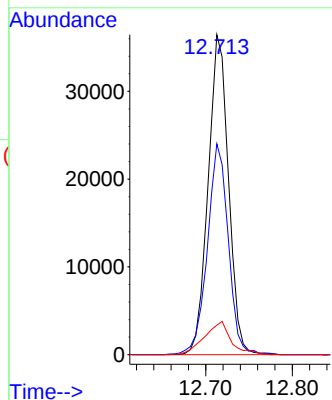
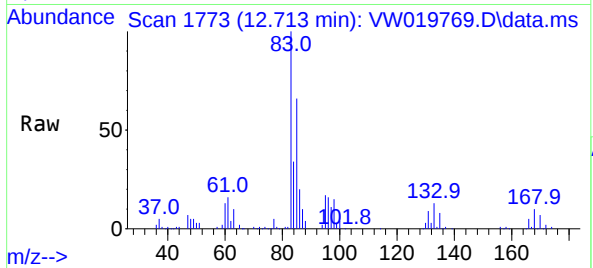




#57
1,1,2,2-Tetrachloroethane
Concen: 13.029 ug/L
RT: 12.713 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

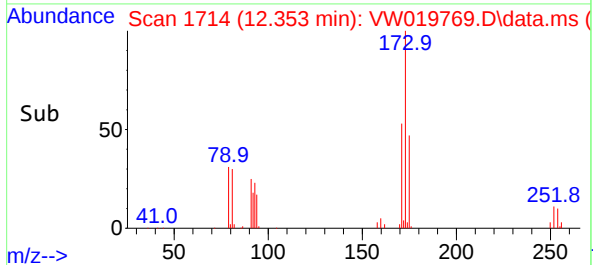
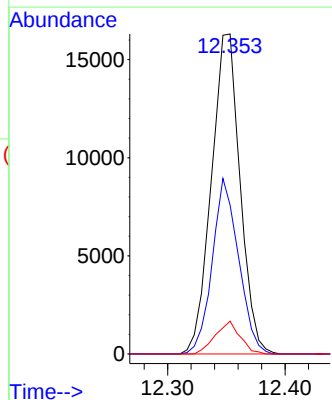
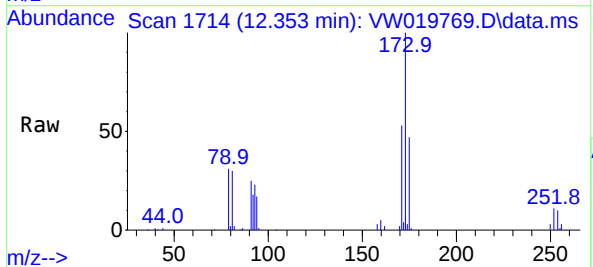
Instrument :
MSVOA_W
ClientSampleId :
DBK76

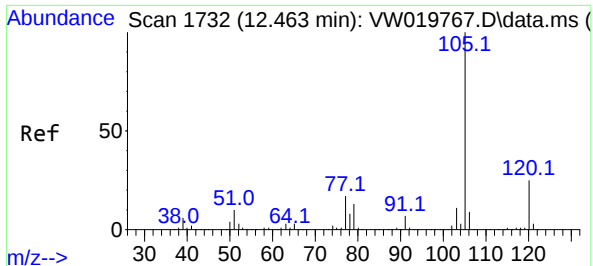
Tgt Ion:	83	Resp:	59570
Ion	Ratio	Lower	Upper
83	100		
85	65.9	44.4	82.4
131	9.2	8.2	12.4



#59
Bromoform
Concen: 11.946 ug/L
RT: 12.353 min Scan# 1714
Delta R.T. 0.006 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion:	173	Resp:	27706
Ion	Ratio	Lower	Upper
173	100		
175	50.2	37.5	56.3
254	8.9	7.0	10.4

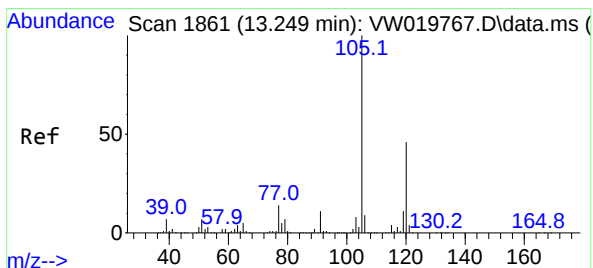
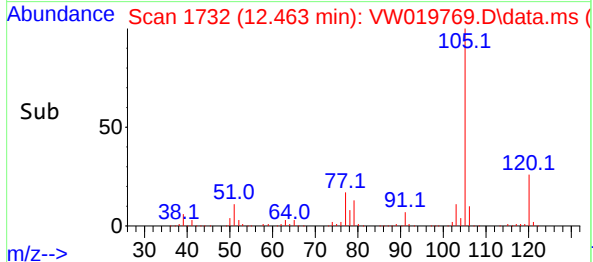
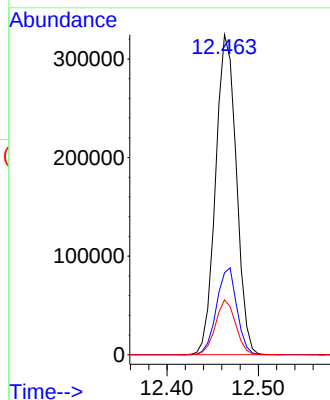
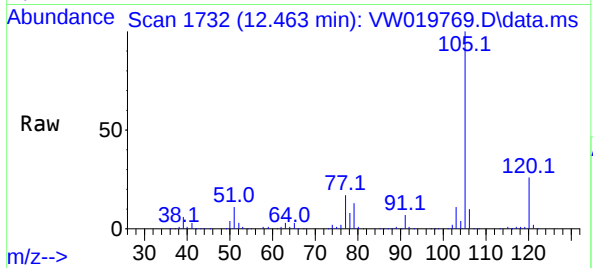




#60
Isopropylbenzene
Concen: 21.630 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. 0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

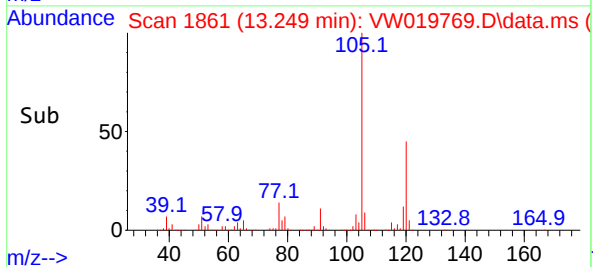
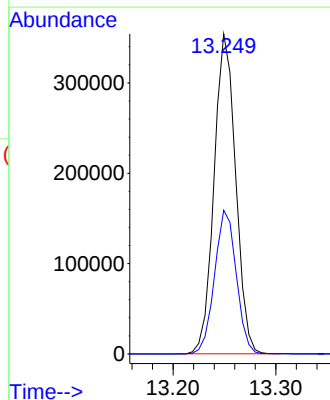
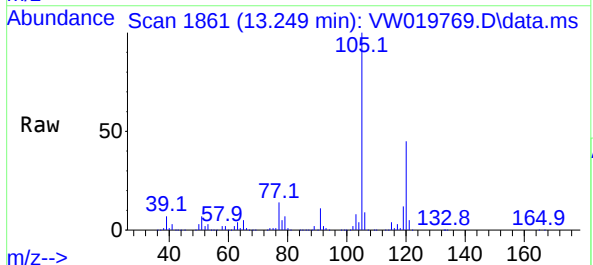
Instrument :
MSVOA_W
ClientSampleId :
DBK76

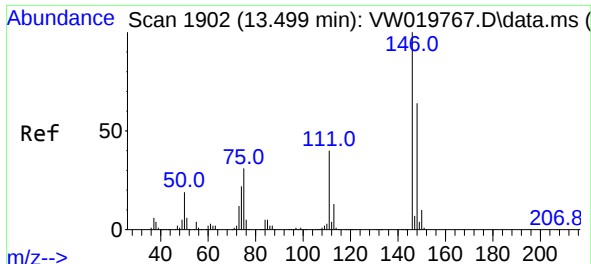
Tgt Ion:105 Resp: 511955
Ion Ratio Lower Upper
105 100
120 26.5 21.1 31.7
77 16.6 13.2 19.8



#63
1,2,4-Trimethylbenzene
Concen: 26.978 ug/L
RT: 13.249 min Scan# 1861
Delta R.T. 0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion:105 Resp: 516605
Ion Ratio Lower Upper
105 100
120 45.2 35.6 53.4

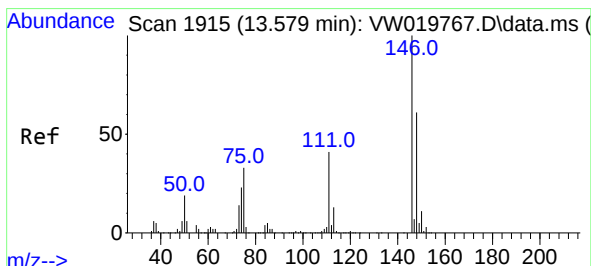
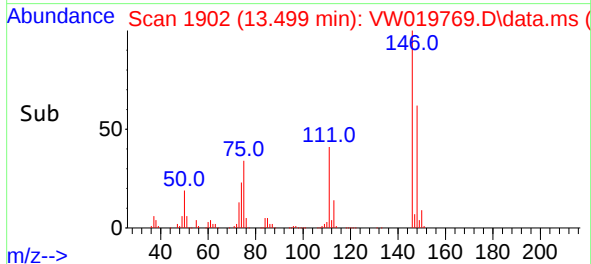
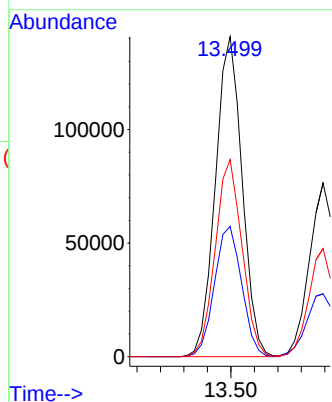
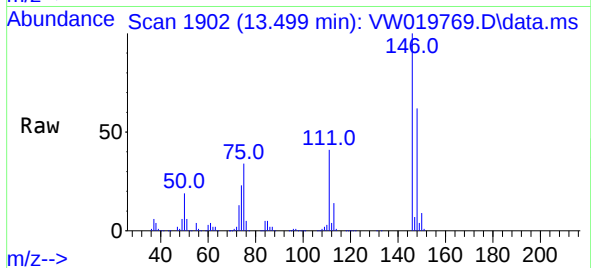




#64
1,3-Dichlorobenzene
Concen: 21.099 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. 0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

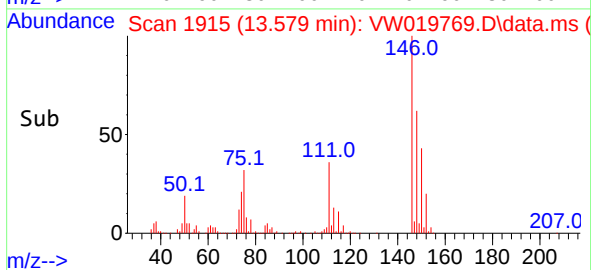
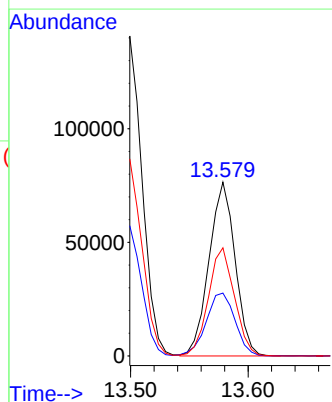
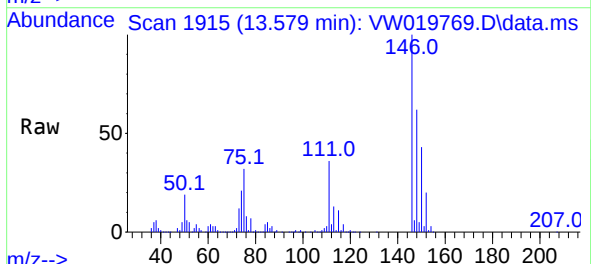
Instrument :
MSVOA_W
ClientSampleId :
DBK76

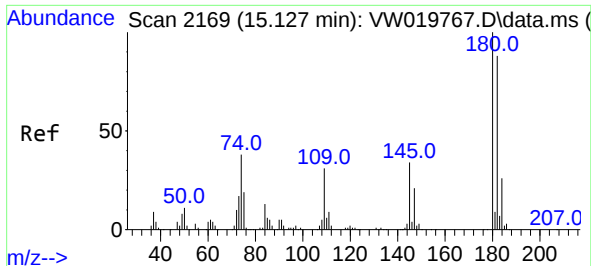
Tgt Ion:146 Resp: 222648
Ion Ratio Lower Upper
146 100
111 40.7 26.7 49.7
148 61.6 41.1 76.3



#65
1,4-Dichlorobenzene
Concen: 10.912 ug/L
RT: 13.579 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion:146 Resp: 118362
Ion Ratio Lower Upper
146 100
111 36.1 28.8 53.4
148 62.2 46.8 87.0

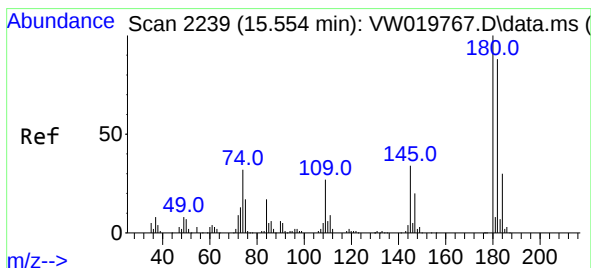
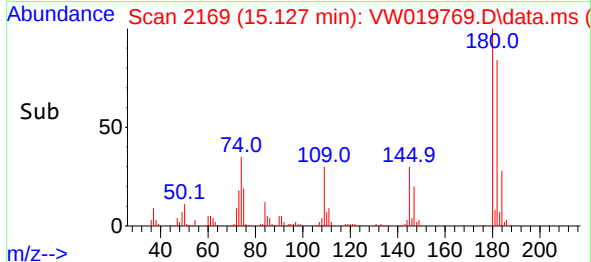
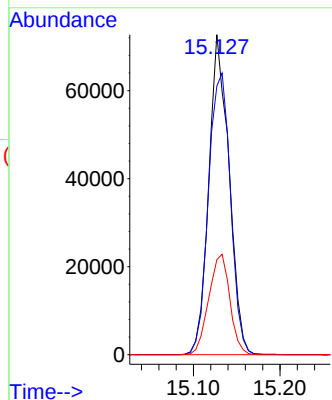
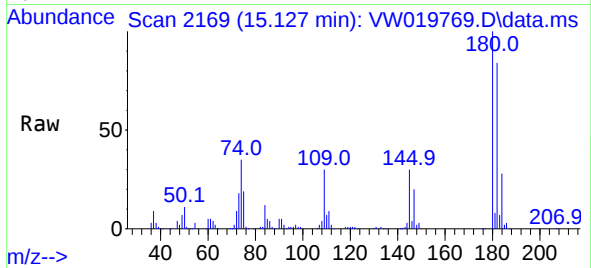




#70
1,2,4-trichlorobenzene
Concen: 21.166 ug/L
RT: 15.127 min Scan# 2169
Delta R.T. -0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Instrument :
MSVOA_W
ClientSampleId :
DBK76

Tgt Ion:180 Resp: 118255
Ion Ratio Lower Upper
180 100
182 95.5 74.7 112.1
145 32.6 25.0 37.4



#72
1,2,3-Trichlorobenzene
Concen: 31.978 ug/L
RT: 15.554 min Scan# 2239
Delta R.T. -0.000 min
Lab File: VW019769.D
Acq: 18 Aug 2021 12:59

Tgt Ion:180 Resp: 165440
Ion Ratio Lower Upper
180 100
182 95.9 76.7 115.1
145 34.2 28.9 43.3

