

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW110821\
 Data File : VW020814.D
 Acq On : 08 Nov 2021 16:32
 Operator : SY/VA
 Sample : M4464-12
 Misc : 7.42g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GB7L0

Quant Time: Nov 09 07:12:47 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM110621SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Nov 08 04:39:29 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.841	114	194967	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	191289	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	104103	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	43808	23.898	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.600%
7) Chloroethane-d5	2.885	69	23950	22.945	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.800%
11) 1,1-Dichloroethene-d2	4.037	63	109281	28.402	ug/L	0.02
Spiked Amount	25.000	Range	45 - 110	Recovery	=	113.600%#
21) 2-Butanone-d5	7.110	46	28571	46.931	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.860%
24) Chloroform-d	7.646	84	86298	19.921	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	79.680%
26) 1,2-Dichloroethane-d4	8.305	65	51676	22.407	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.640%
32) Benzene-d6	8.274	84	177505	20.538	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	82.160%
36) 1,2-Dichloropropane-d6	9.274	67	56331	21.052	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	84.200%
41) Toluene-d8	10.329	98	184337	21.924	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	87.680%
43) trans-1,3-Dichloroprop...	10.579	79	29751	22.417	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.680%
47) 2-Hexanone-d5	10.926	63	26741	49.391	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	197.560%#
56) 1,1,2,2-Tetrachloroeth...	12.694	84	52031	23.463	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.840%
66) 1,2-Dichlorobenzene-d4	13.853	152	73899	22.588	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.360%
Target Compounds						
					Qvalue	
5) Vinyl chloride	2.355	62	9636	3.211	ug/L	# 60
10) 1,1,2-Trichloro-1,2,2-...	4.062	101	10165	3.884	ug/L	94
12) 1,1-Dichloroethene	4.043	96	112652	45.162	ug/L	# 67
13) Acetone	4.117	43	2079518	3670.418	ug/L	93
14) Carbon disulfide	4.385	76	15940	2.117	ug/L	95
17) trans-1,2-Dichloroethene	5.427	96	64368	24.276	ug/L	90
19) 1,1-Dichloroethane	6.220	63	1738770	378.639	ug/L	99
20) cis-1,2-Dichloroethene	7.165	96	8694906	3110.833	ug/L	# 62
27) 1,2-Dichloroethane	8.402	62	33263	10.748	ug/L	# 93
29) Cyclohexane	7.945	56	28108	5.632	ug/L	# 86
30) 1,1,1-Trichloroethane	7.878	97	13435	2.955	ug/L	95
33) Benzene	8.323	78	102401	8.938	ug/L	100
34) Trichloroethene	9.091	95	6111	2.004	ug/L	87
35) Methylcyclohexane	9.335	83	103549	19.458	ug/L	98
37) 1,2-Dichloropropane	9.341	63	1461	0.539	ug/L	# 1
39) cis-1,3-Dichloropropene	10.036	75	2239	0.507	ug/L	# 63
40) 4-Methyl-2-pentanone	10.213	43	371110	209.347	ug/L	# 96
42) Toluene	10.396	91	17443146	1415.917	ug/L	89
45) 1,1,2-Trichloroethane	10.768	97	11339	5.633	ug/L	# 39

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 Quant Title : SFAM01.0
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

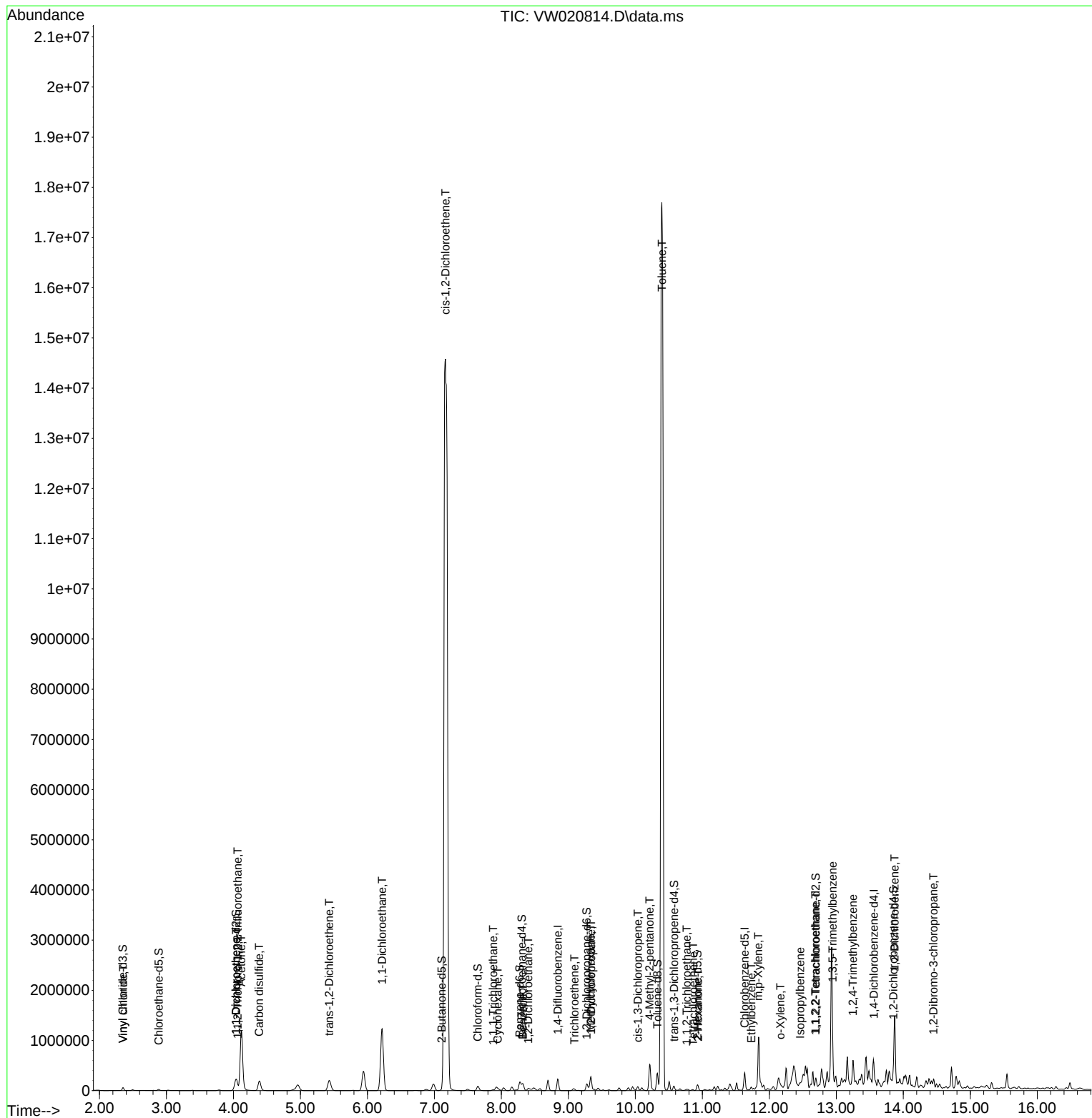
46) Tetrachloroethene	10.865	164	2410	0.881	ug/L	89
48) 2-Hexanone	10.939	43	37199	28.738	ug/L #	48
52) Ethylbenzene	11.731	91	36447	2.641	ug/L	97
53) m,p-Xylene	11.835	106	41167	7.444	ug/L	89
54) o-Xylene	12.164	106	16884	3.223	ug/L	92
57) 1,1,2,2-Tetrachloroethane	12.688	83	4411	1.870	ug/L #	82
60) Isopropylbenzene	12.463	105	17475	1.218	ug/L	95
62) 1,3,5-Trimethylbenzene	12.944	105	141402	11.468	ug/L	95
63) 1,2,4-Trimethylbenzene	13.249	105	278374	22.728	ug/L	100
67) 1,2-Dichlorobenzene	13.871	146	4048	0.689	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	14.450	75	1439	3.422	ug/L #	10

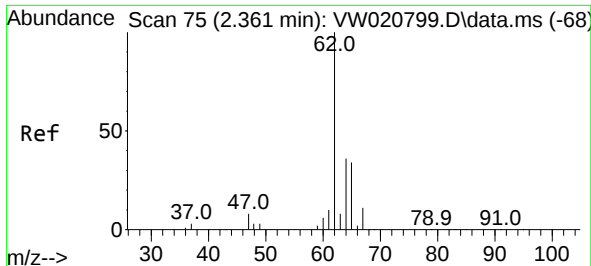
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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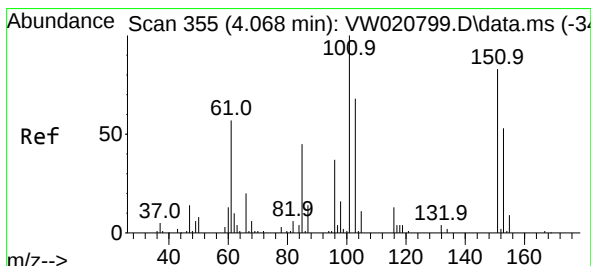
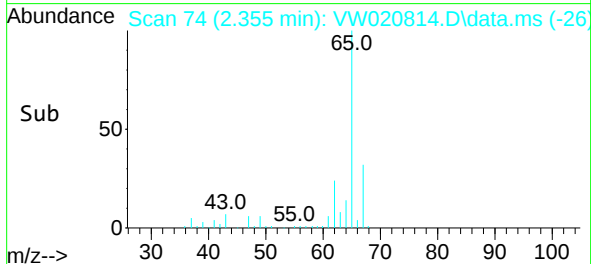
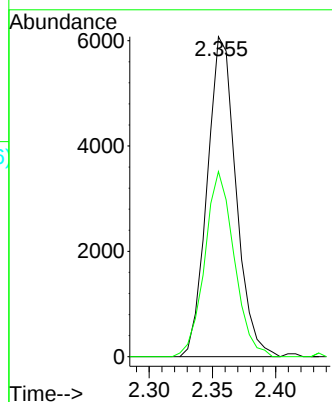
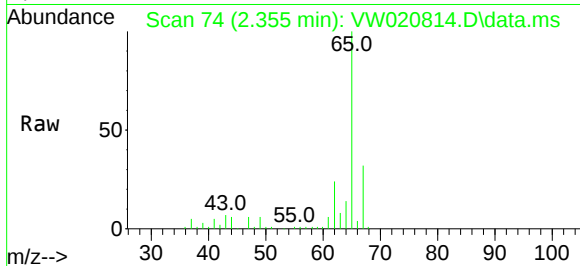




#5
 Vinyl chloride
 Concen: 3.211 ug/L
 RT: 2.355 min Scan# 74
 Delta R.T. -0.006 min
 Lab File: VW020814.D
 Acq: 08 Nov 2021 16:32

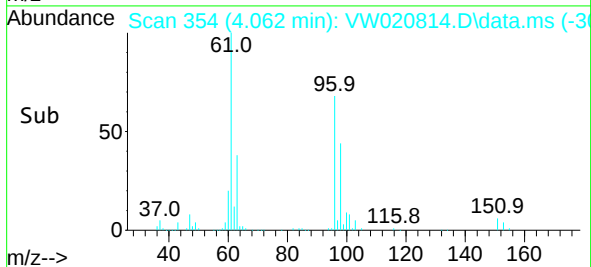
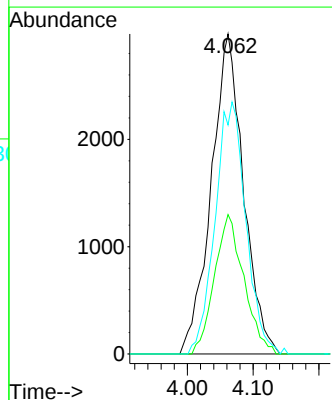
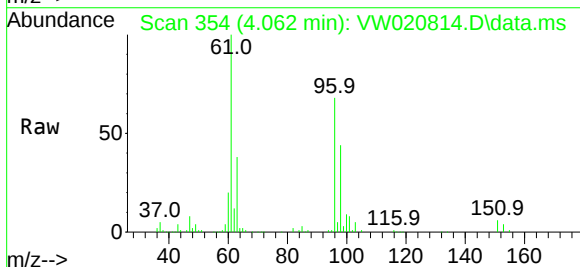
Instrument :
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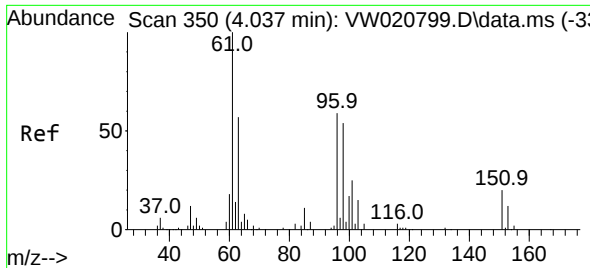
Tgt Ion: 62 Resp: 9636
 Ion Ratio Lower Upper
 62 100
 64 57.9 24.4 45.2#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 3.884 ug/L
 RT: 4.062 min Scan# 354
 Delta R.T. -0.006 min
 Lab File: VW020814.D
 Acq: 08 Nov 2021 16:32

Tgt Ion: 101 Resp: 10165
 Ion Ratio Lower Upper
 101 100
 85 39.8 36.6 54.8
 151 74.9 57.4 86.0

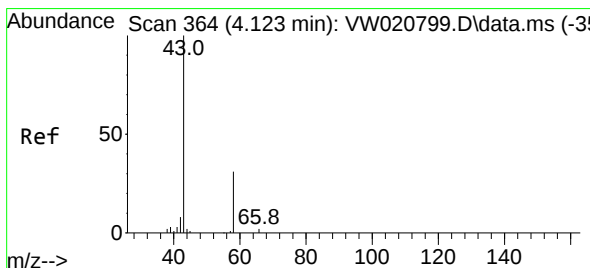
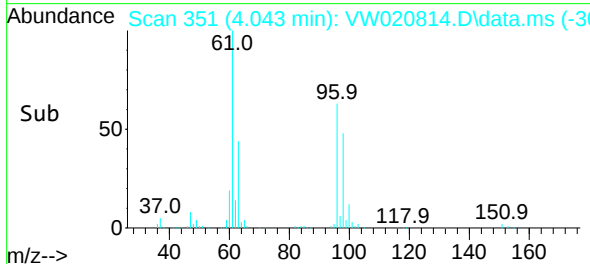
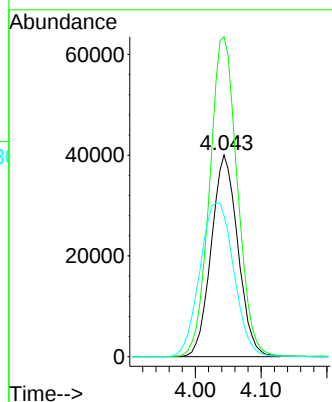
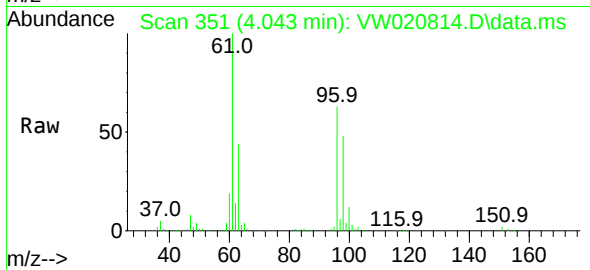




#12
 1,1-Dichloroethene
 Concen: 45.162 ug/L
 RT: 4.043 min Scan# 351
 Delta R.T. 0.006 min
 Lab File: VW020814.D
 Acq: 08 Nov 2021 16:32

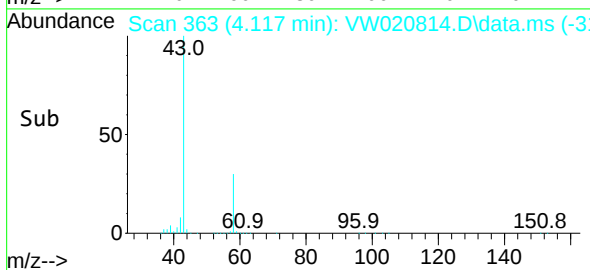
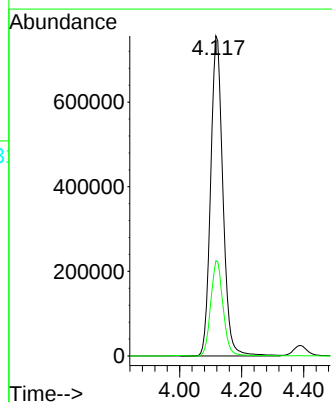
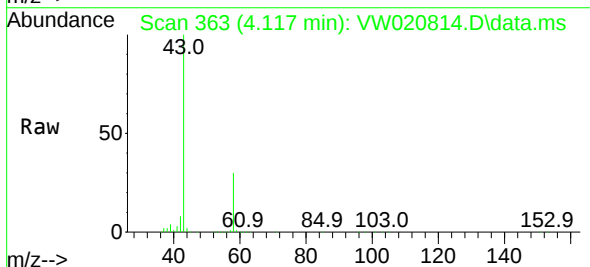
Instrument :
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 ClientSampleId :
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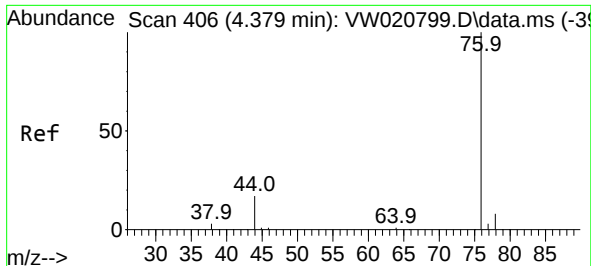
Tgt Ion: 96 Resp: 112652
 Ion Ratio Lower Upper
 96 100
 61 158.8 138.3 256.9
 63 69.8 82.6 153.4#



#13
 Acetone
 Concen: 3670.418 ug/L
 RT: 4.117 min Scan# 363
 Delta R.T. -0.006 min
 Lab File: VW020814.D
 Acq: 08 Nov 2021 16:32

Tgt Ion: 43 Resp: 2079518
 Ion Ratio Lower Upper
 43 100
 58 29.9 0.0 52.8

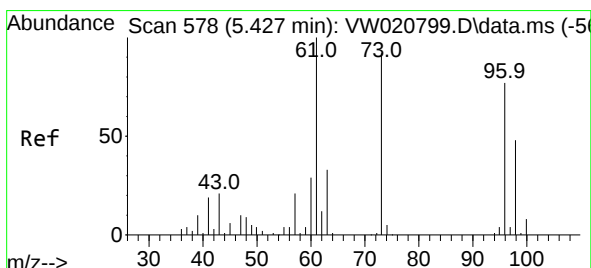
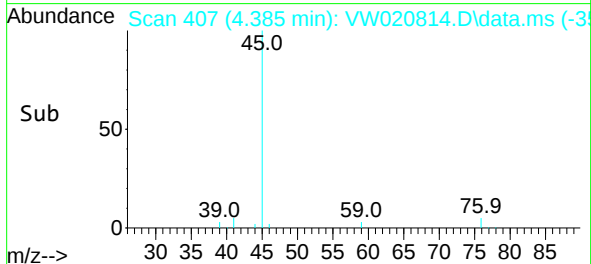
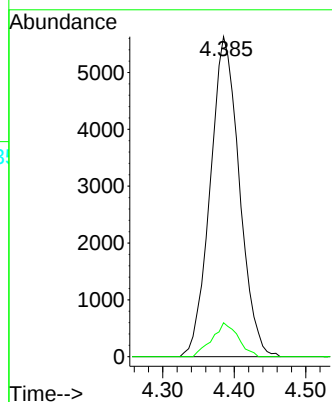
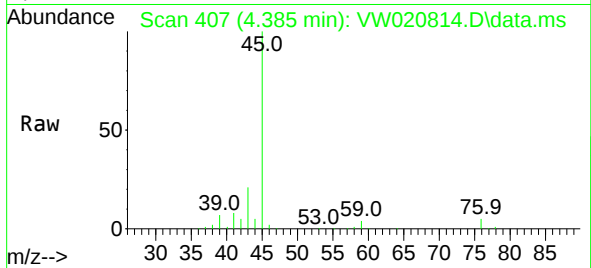




#14
Carbon disulfide
Concen: 2.117 ug/L
RT: 4.385 min Scan# 406
Delta R.T. -0.000 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

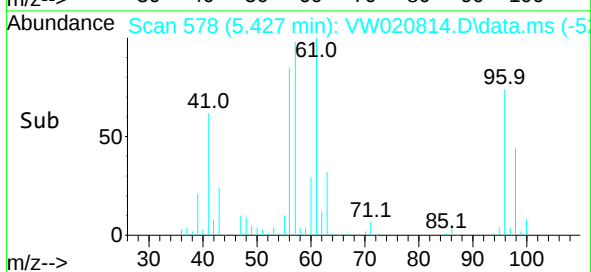
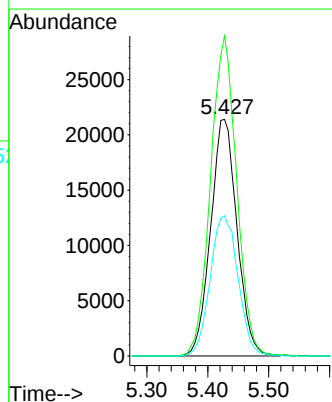
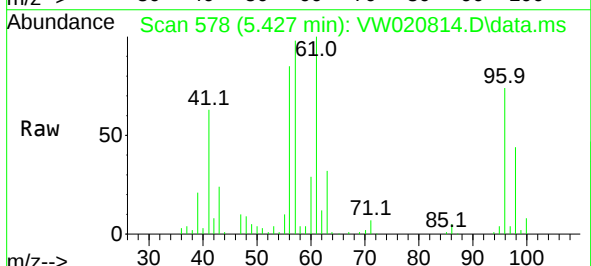
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MSVOA_W
ClientSampleId :
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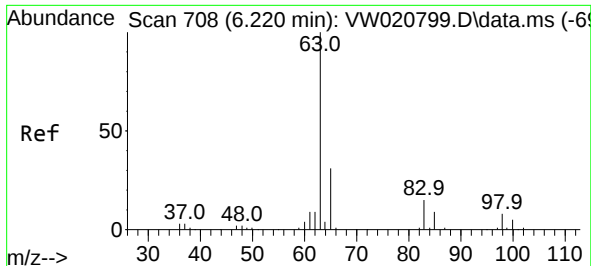
Tgt Ion: 76 Resp: 15940
Ion Ratio Lower Upper
76 100
78 10.6 7.1 10.7



#17
trans-1,2-Dichloroethene
Concen: 24.276 ug/L
RT: 5.427 min Scan# 578
Delta R.T. -0.000 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

Tgt Ion: 96 Resp: 64368
Ion Ratio Lower Upper
96 100
61 135.2 107.4 199.4
98 59.2 41.2 76.6

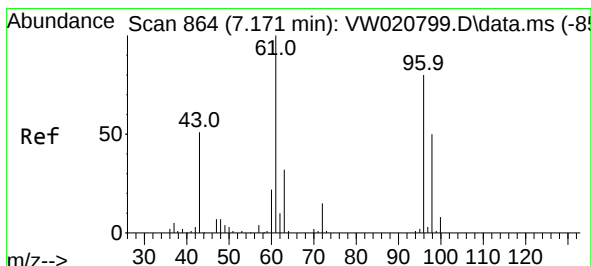
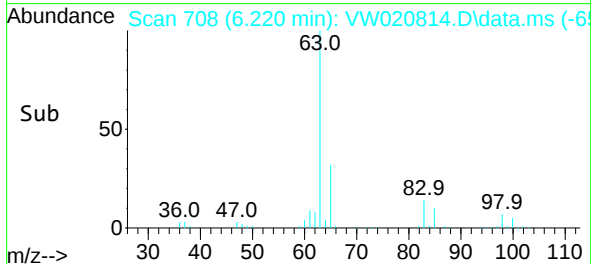
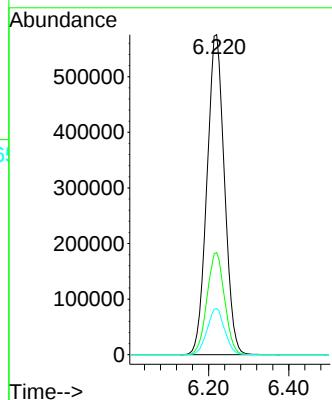
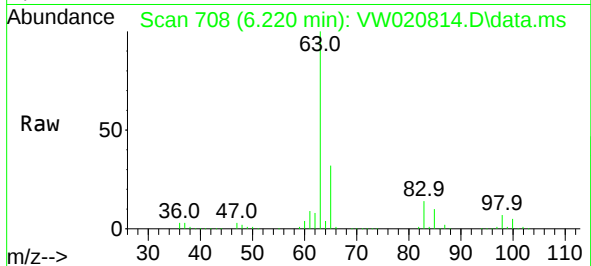




#19
 1,1-Dichloroethane
 Concen: 378.639 ug/L
 RT: 6.220 min Scan# 708
 Delta R.T. -0.000 min
 Lab File: VW020814.D
 Acq: 08 Nov 2021 16:32

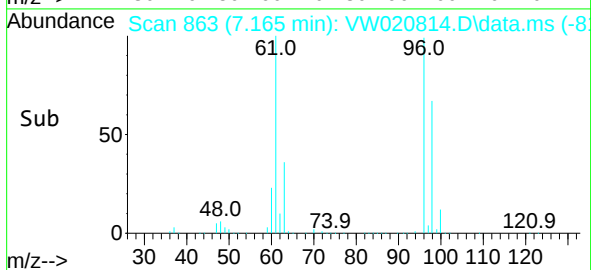
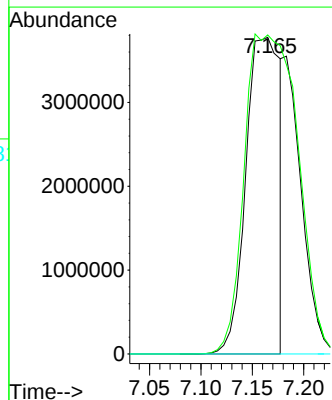
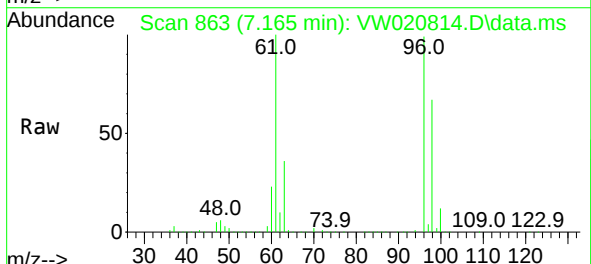
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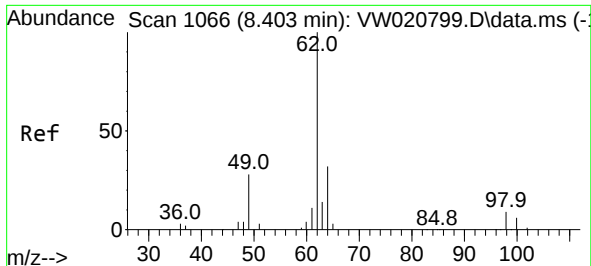
Tgt Ion: 63 Resp: 1738770
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.1 41.1
 83 14.4 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 3110.833 ug/L
 RT: 7.165 min Scan# 863
 Delta R.T. -0.006 min
 Lab File: VW020814.D
 Acq: 08 Nov 2021 16:32

Tgt Ion: 96 Resp: 8694906
 Ion Ratio Lower Upper
 96 100
 61 100.8 103.7 192.7#
 68 0.0 0.0 0.0#





#27

1,2-Dichloroethane

Concen: 10.748 ug/L

RT: 8.402 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VW020814.D

Acq: 08 Nov 2021 16:32

Instrument :

MSVOA_W

ClientSampleId :

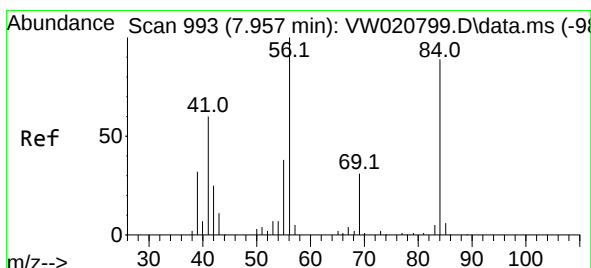
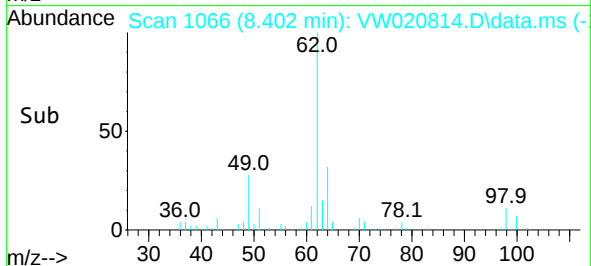
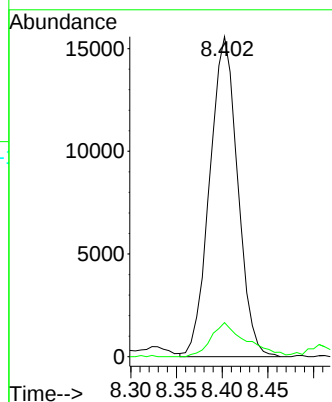
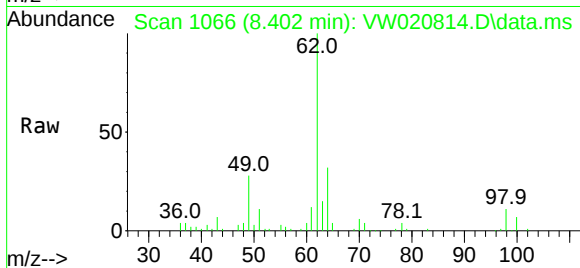
GB7L0

Tgt Ion: 62 Resp: 33263

Ion Ratio Lower Upper

62 100

98 10.7 6.5 9.7#



#29

Cyclohexane

Concen: 5.632 ug/L

RT: 7.945 min Scan# 991

Delta R.T. -0.012 min

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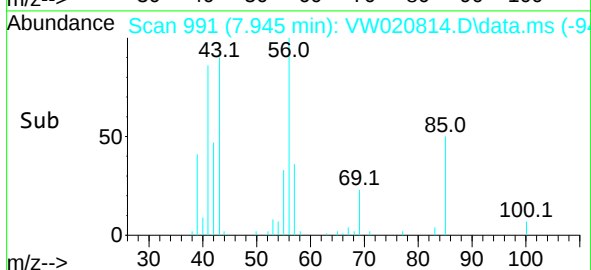
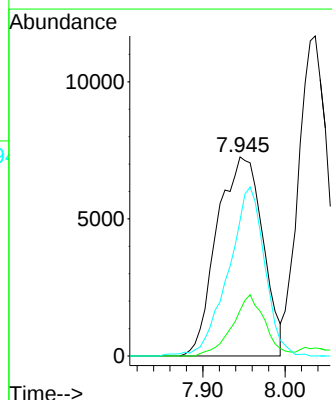
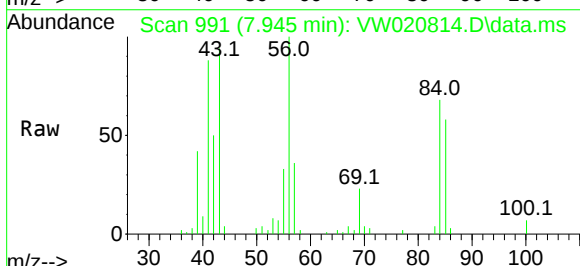
Tgt Ion: 56 Resp: 28108

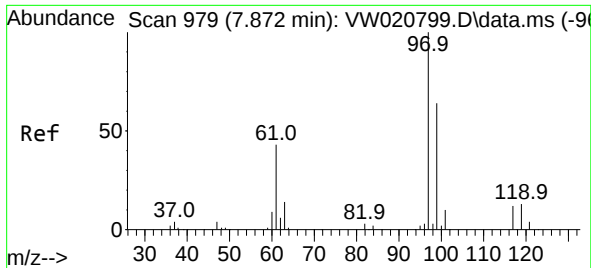
Ion Ratio Lower Upper

56 100

69 21.9 23.5 35.3#

84 67.0 63.4 95.2

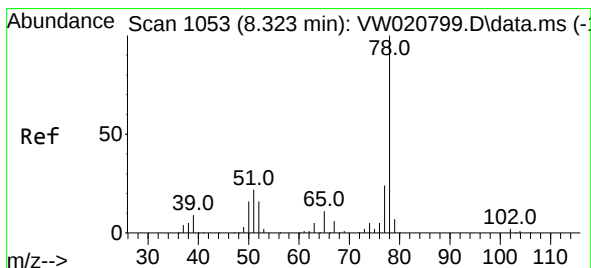
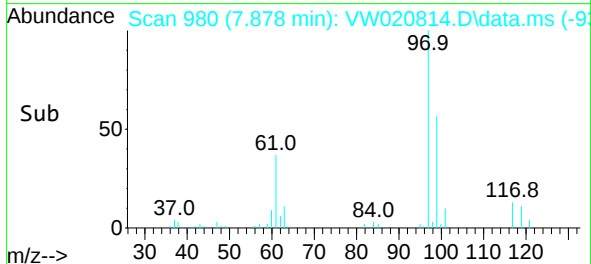
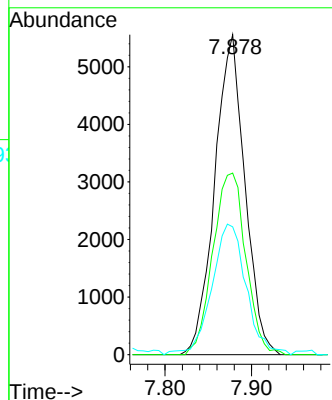
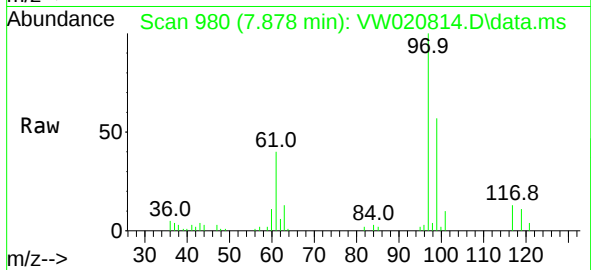




#30
1,1,1-Trichloroethane
Concen: 2.955 ug/L
RT: 7.878 min Scan# 979
Delta R.T. 0.006 min
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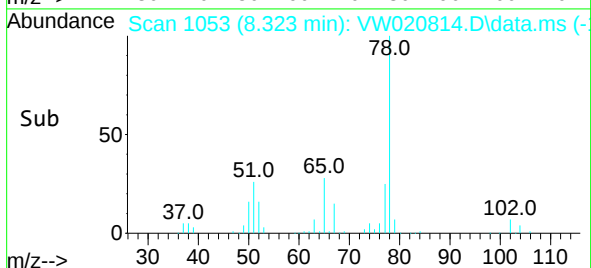
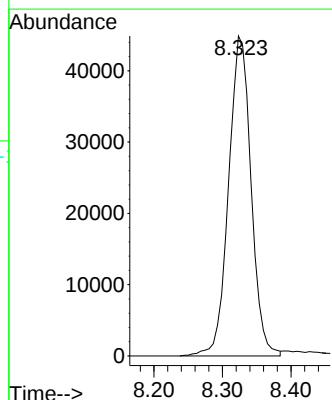
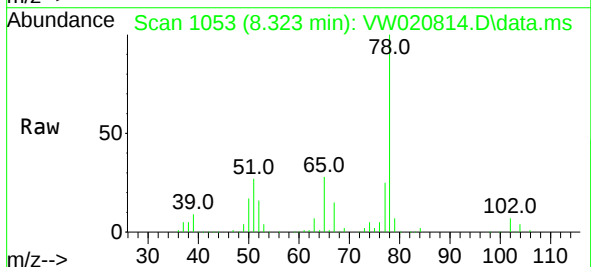
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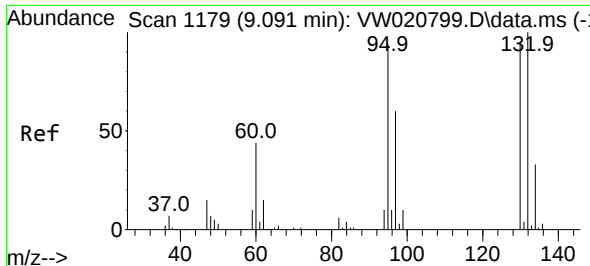
Tgt Ion: 97 Resp: 13435
Ion Ratio Lower Upper
97 100
99 61.6 51.6 77.4
61 46.3 40.9 61.3



#33
Benzene
Concen: 8.938 ug/L
RT: 8.323 min Scan# 1053
Delta R.T. -0.000 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

Tgt Ion: 78 Resp: 102401



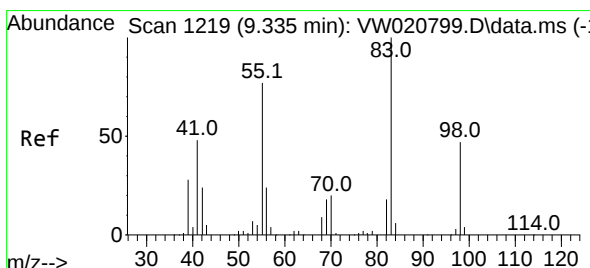
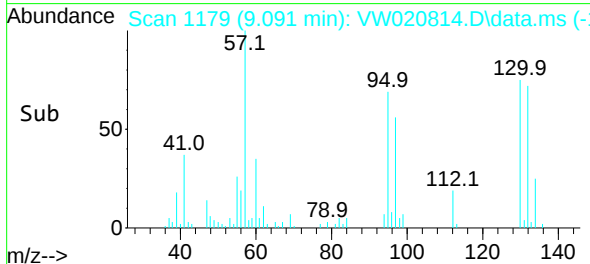
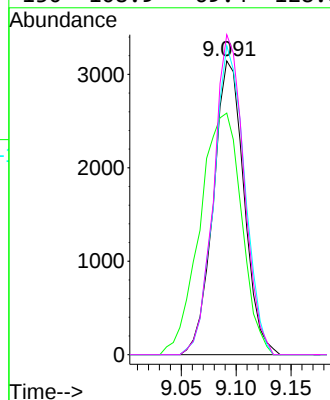
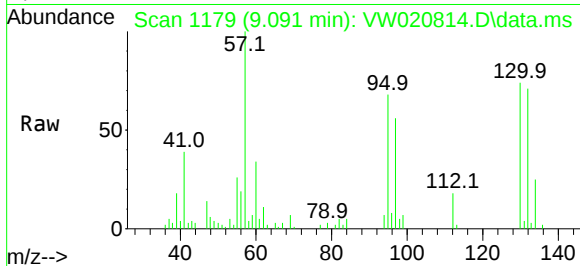


#34
Trichloroethene
Concen: 2.004 ug/L
RT: 9.091 min Scan# 1179
Delta R.T. -0.000 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

Instrument :
MSVOA_W
ClientSampleId :
GB7L0

Tgt Ion: 95 Resp: 6111

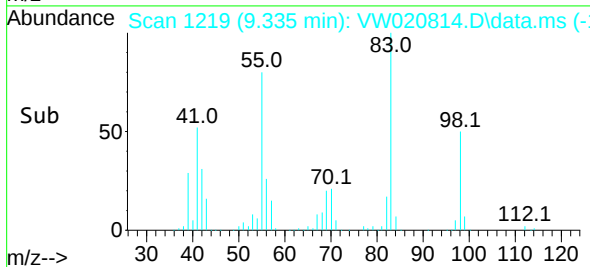
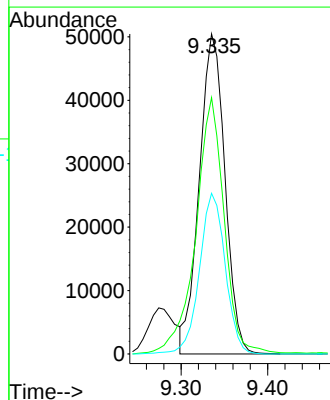
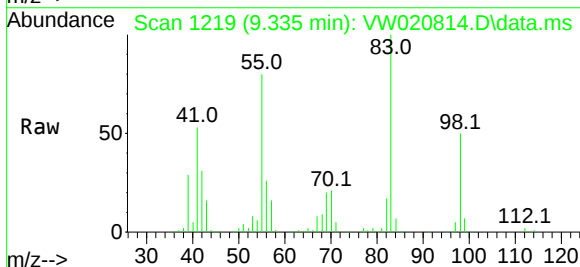
Ion	Ratio	Lower	Upper
95	100		
97	82.3	47.0	87.2
132	105.2	65.5	121.6
130	108.9	69.4	128.8

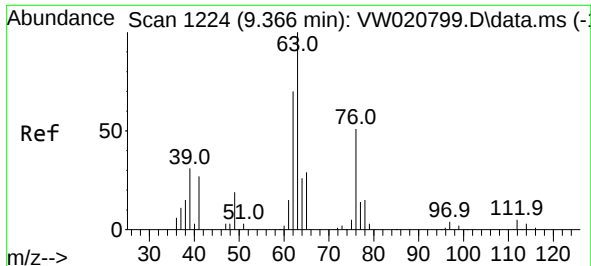


#35
Methylcyclohexane
Concen: 19.458 ug/L
RT: 9.335 min Scan# 1219
Delta R.T. -0.000 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

Tgt Ion: 83 Resp: 103549

Ion	Ratio	Lower	Upper
83	100		
55	89.0	70.8	106.2
98	50.8	37.7	56.5





#37

1,2-Dichloropropane

Concen: 0.539 ug/L

RT: 9.341 min Scan# 11

Delta R.T. -0.031 min

Lab File: VW020814.D

Acq: 08 Nov 2021 16:32

Instrument :

MSVOA_W

ClientSampleId :

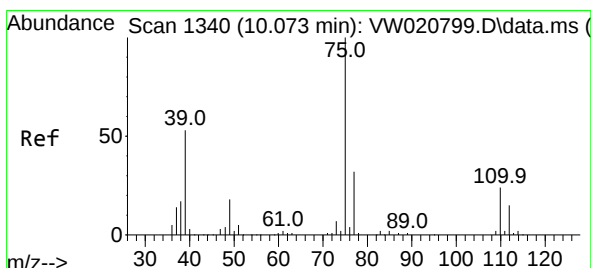
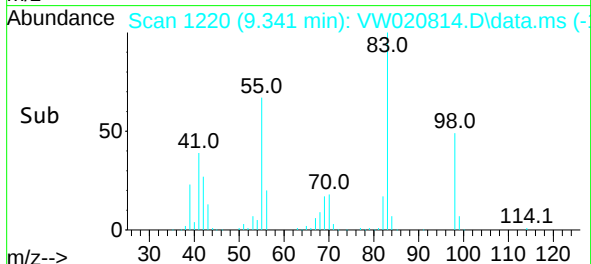
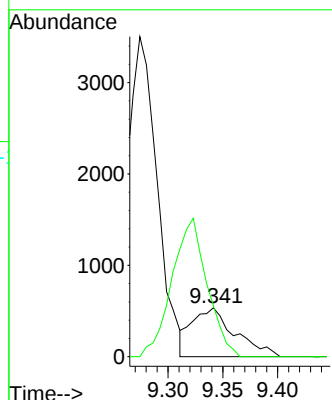
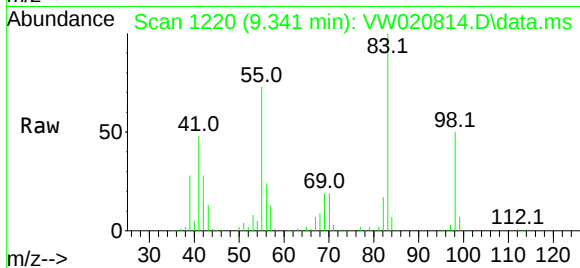
GB7L0

Tgt Ion: 63 Resp: 1461

Ion Ratio Lower Upper

63 100

112 230.5 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.507 ug/L

RT: 10.036 min Scan# 1334

Delta R.T. -0.037 min

Lab File: VW020814.D

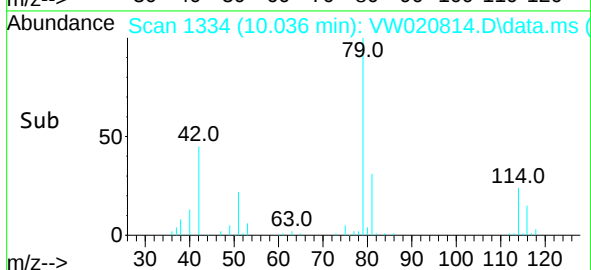
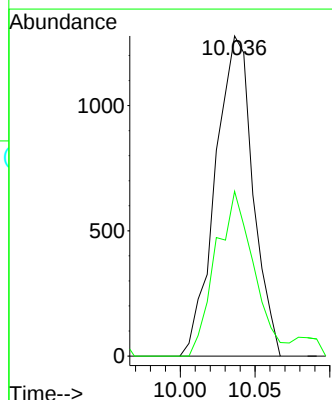
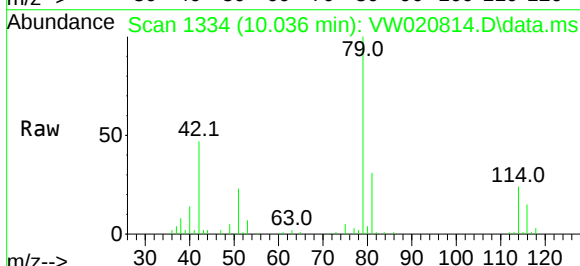
Acq: 08 Nov 2021 16:32

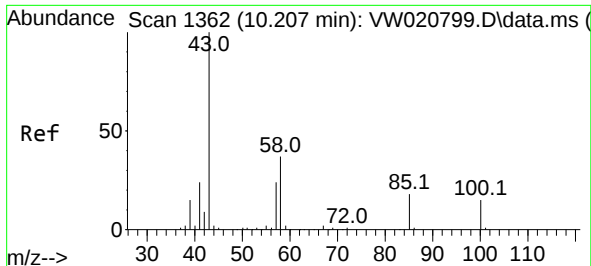
Tgt Ion: 75 Resp: 2239

Ion Ratio Lower Upper

75 100

77 51.5 21.8 40.6#





#40

4-Methyl-2-pentanone

Concen: 209.347 ug/L

RT: 10.213 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW020814.D

Acq: 08 Nov 2021 16:32

Instrument :

MSVOA_W

ClientSampleId :

GB7L0

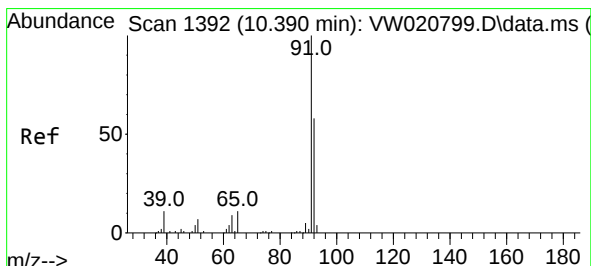
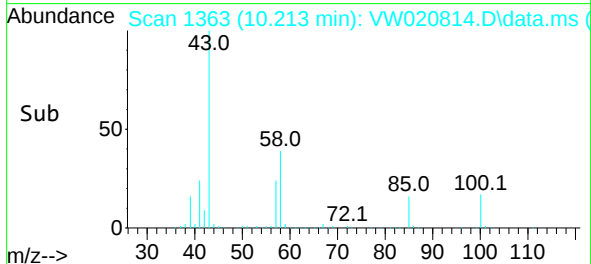
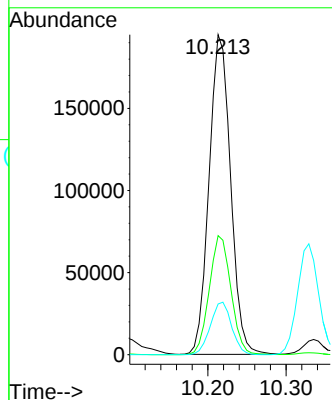
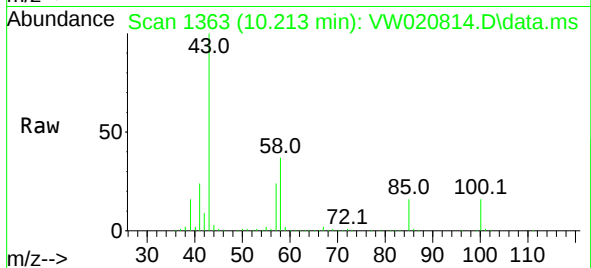
Tgt Ion: 43 Resp: 371110

Ion Ratio Lower Upper

43 100

58 37.5 28.8 43.2

100 16.3 10.0 15.0#



#42

Toluene

Concen: 1415.917 ug/L

RT: 10.396 min Scan# 1393

Delta R.T. 0.006 min

Lab File: VW020814.D

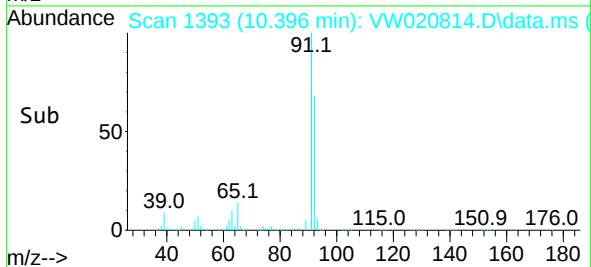
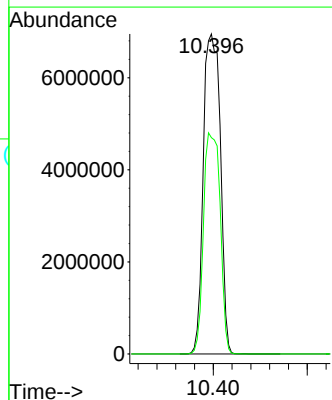
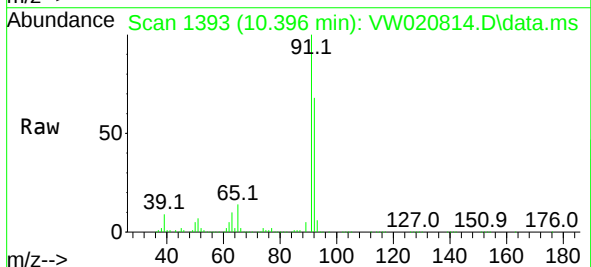
Acq: 08 Nov 2021 16:32

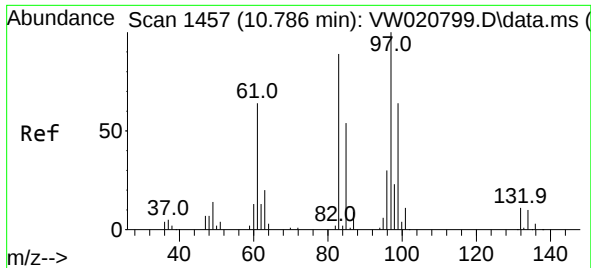
Tgt Ion: 91 Resp:17443146

Ion Ratio Lower Upper

91 100

92 67.6 41.7 77.5

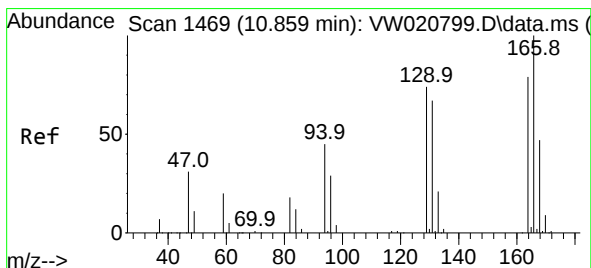
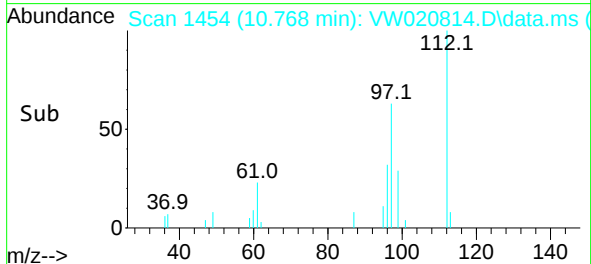
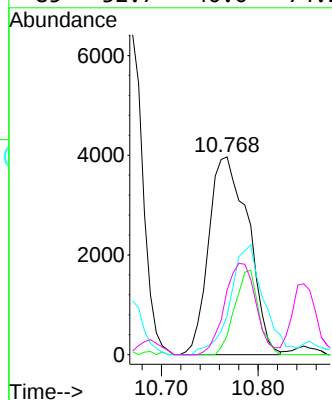
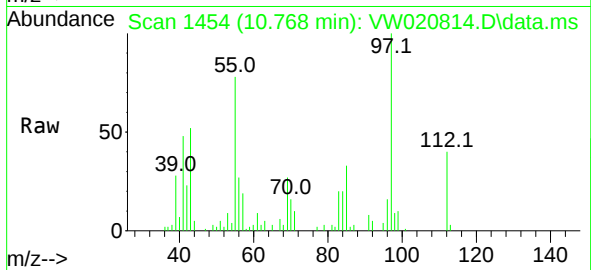




#45
1,1,2-Trichloroethane
Concen: 5.633 ug/L
RT: 10.768 min Scan# 1457
Delta R.T. -0.018 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

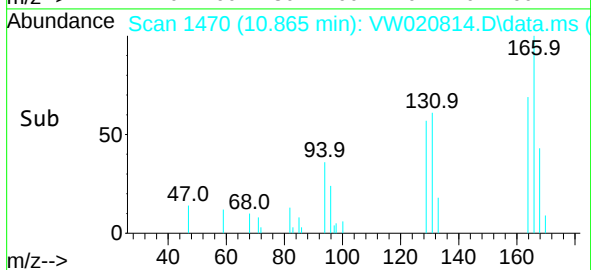
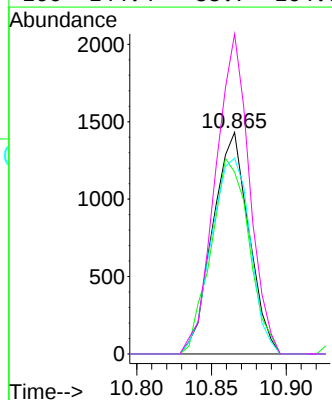
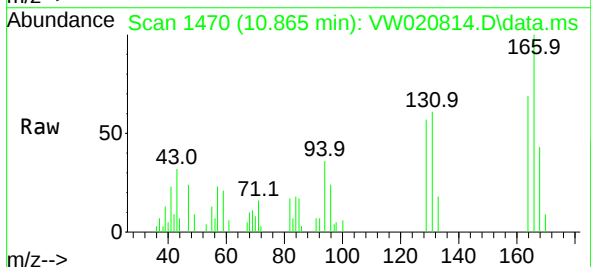
Instrument :
MSVOA_W
ClientSampleId :
GB7L0

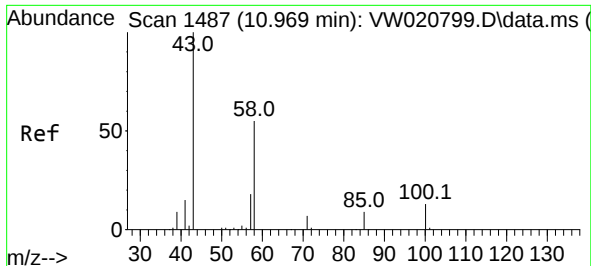
Tgt Ion: 97 Resp: 11339
Ion Ratio Lower Upper
97 100
99 9.7 43.0 79.8#
83 19.7 62.6 116.3#
85 32.7 40.0 74.2#



#46
Tetrachloroethene
Concen: 0.881 ug/L
RT: 10.865 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

Tgt Ion:164 Resp: 2410
Ion Ratio Lower Upper
164 100
129 82.0 65.5 121.7
131 88.4 59.7 110.9
166 144.4 88.7 164.7

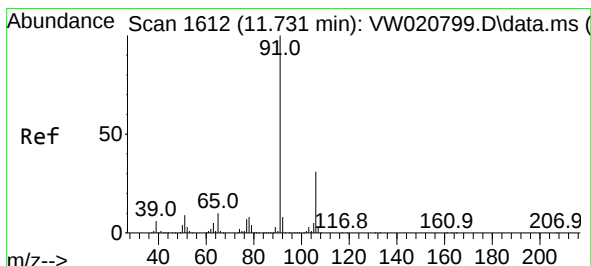
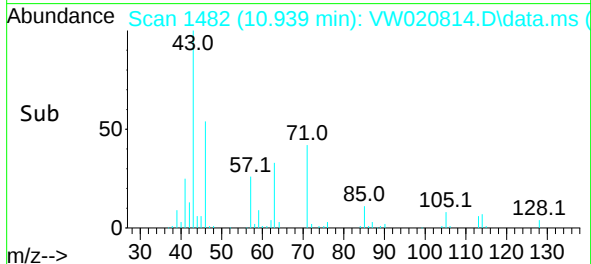
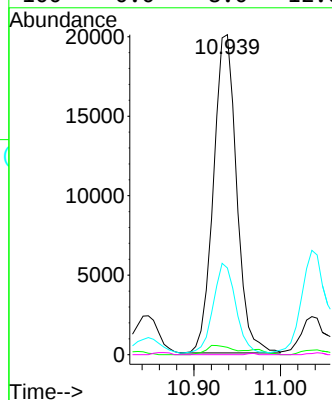
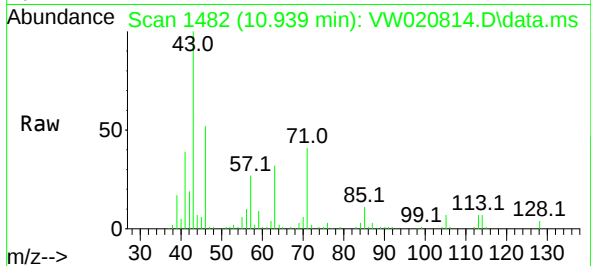




#48
2-Hexanone
Concen: 28.738 ug/L
RT: 10.939 min Scan# 1487
Delta R.T. -0.031 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

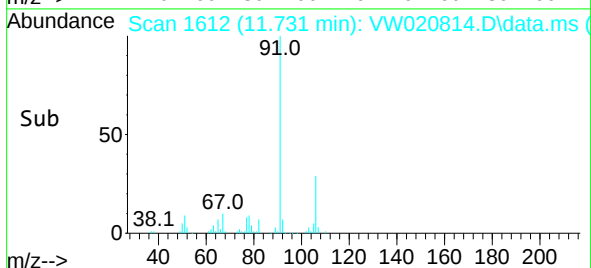
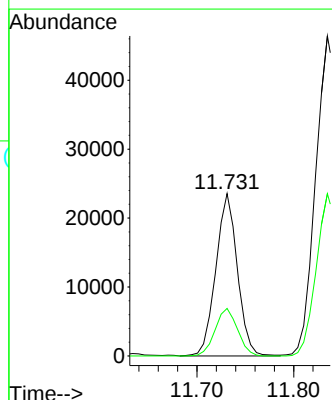
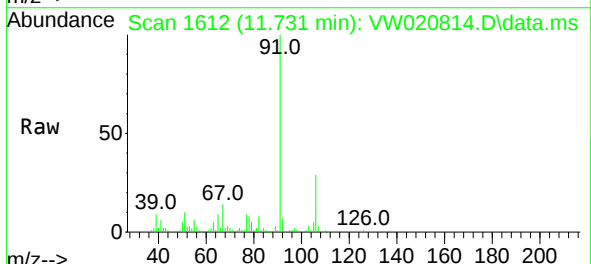
Instrument :
MSVOA_W
ClientSampleId :
GB7L0

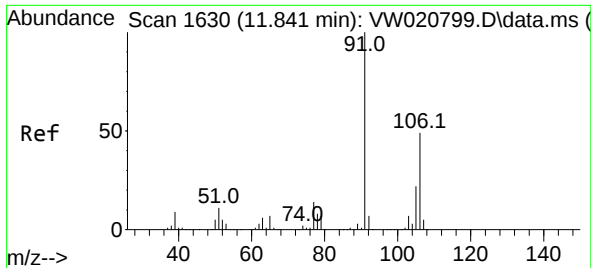
Tgt Ion: 43 Resp: 37199
Ion Ratio Lower Upper
43 100
58 3.2 40.2 60.2#
57 27.4 14.3 21.5#
100 0.0 8.0 12.0#



#52
Ethylbenzene
Concen: 2.641 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

Tgt Ion: 91 Resp: 36447
Ion Ratio Lower Upper
91 100
106 29.3 21.5 39.9

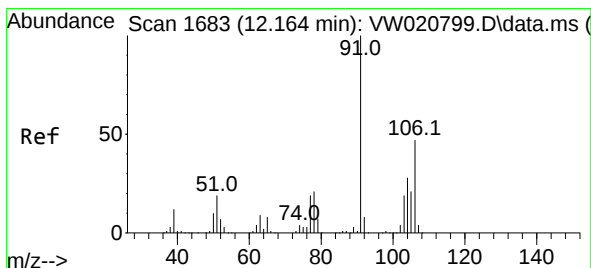
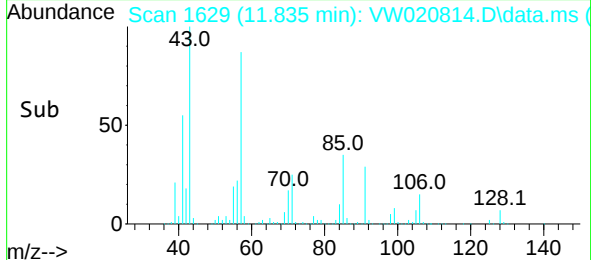
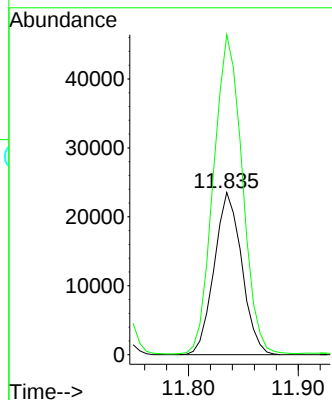
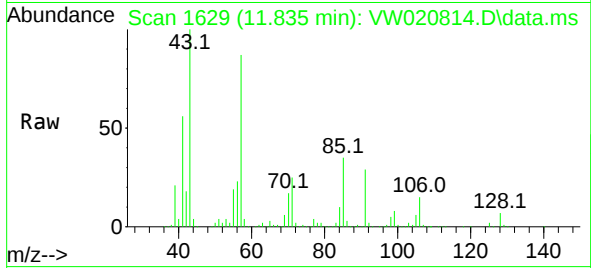




#53
m,p-Xylene
Concen: 7.444 ug/L
RT: 11.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

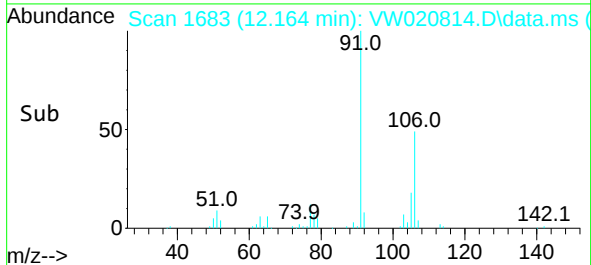
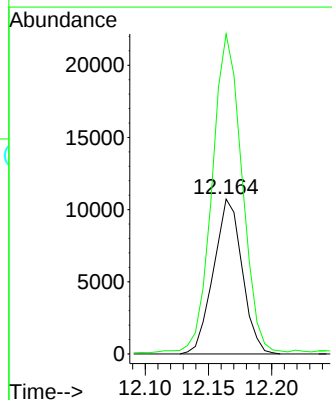
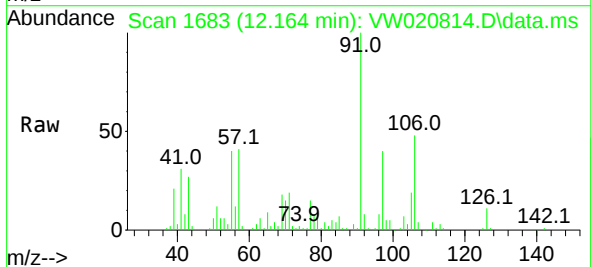
Instrument :
MSVOA_W
ClientSampleId :
GB7L0

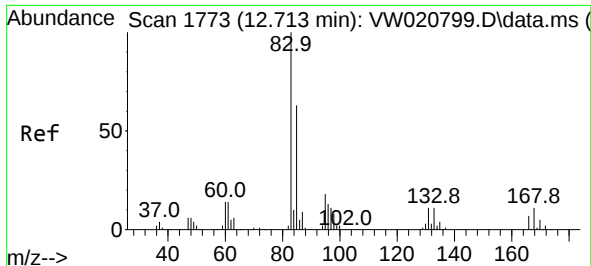
Tgt Ion:106 Resp: 41167
Ion Ratio Lower Upper
106 100
91 197.3 149.9 278.3



#54
o-Xylene
Concen: 3.223 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

Tgt Ion:106 Resp: 16884
Ion Ratio Lower Upper
106 100
91 206.6 153.6 285.3





#57

1,1,2,2-Tetrachloroethane

Concen: 1.870 ug/L

RT: 12.688 min Scan# 1769

Delta R.T. -0.025 min

Lab File: VW020814.D

Acq: 08 Nov 2021 16:32

Instrument :

MSVOA_W

ClientSampleId :

GB7L0

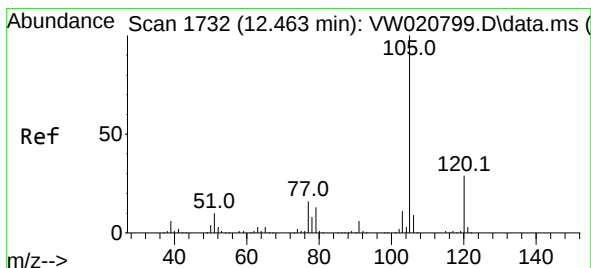
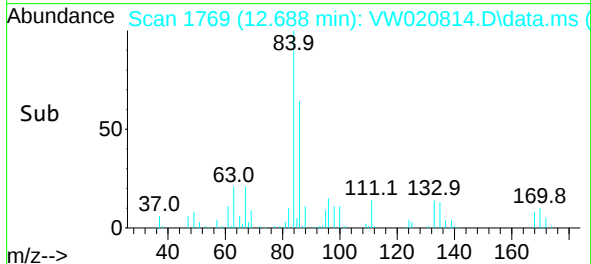
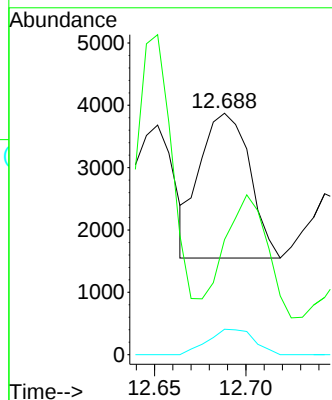
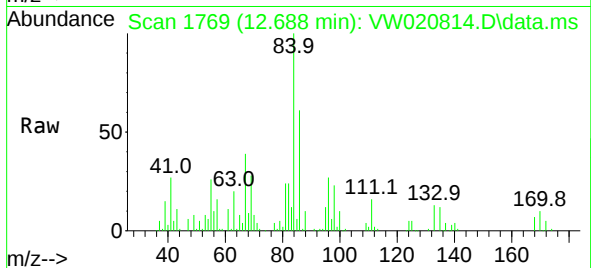
Tgt Ion: 83 Resp: 4411

Ion Ratio Lower Upper

83 100

85 47.6 44.0 81.6

131 10.5 6.9 10.3#



#60

Isopropylbenzene

Concen: 1.218 ug/L

RT: 12.463 min Scan# 1732

Delta R.T. -0.000 min

Lab File: VW020814.D

Acq: 08 Nov 2021 16:32

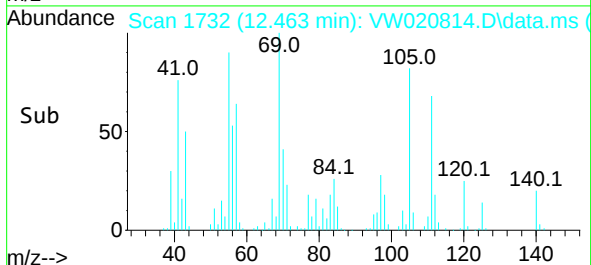
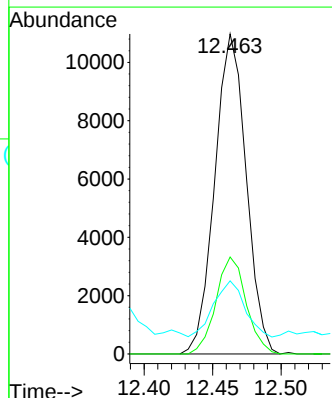
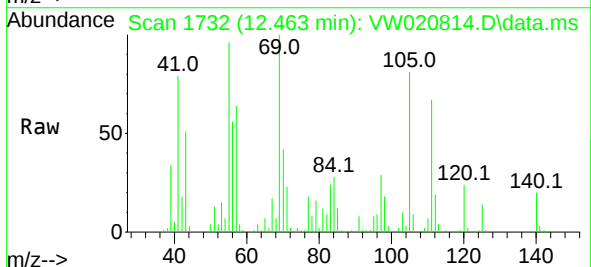
Tgt Ion:105 Resp: 17475

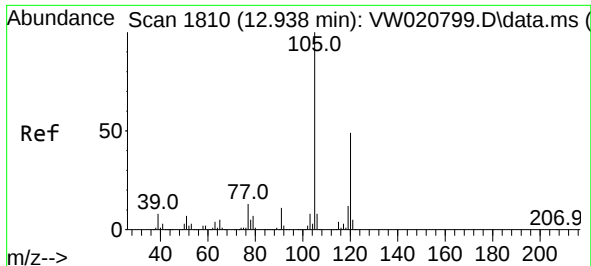
Ion Ratio Lower Upper

105 100

120 29.2 20.1 30.1

77 17.3 13.8 20.8

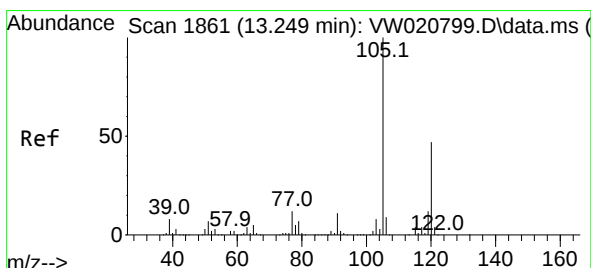
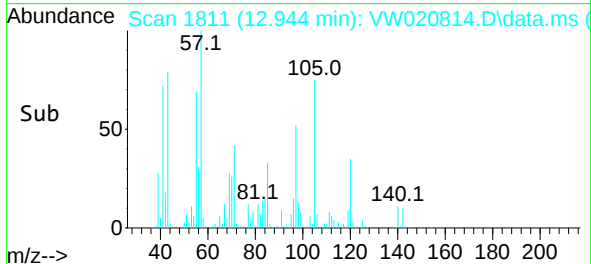
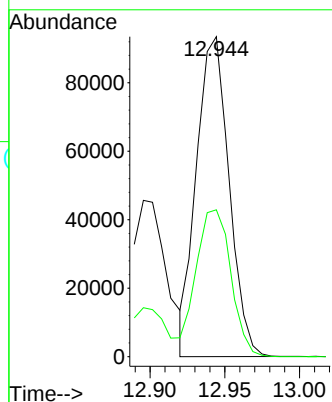
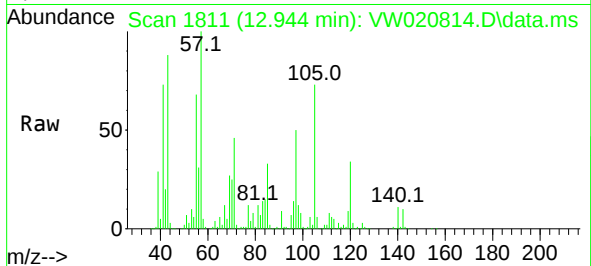




#62
1,3,5-Trimethylbenzene
Concen: 11.468 ug/L
RT: 12.944 min Scan# 1811
Delta R.T. -0.000 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

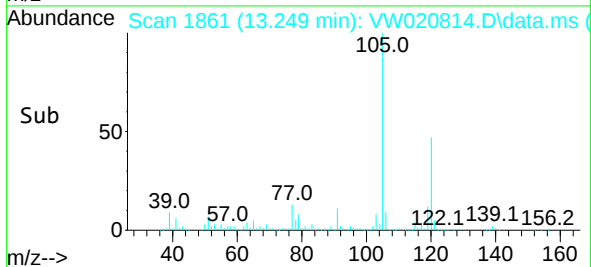
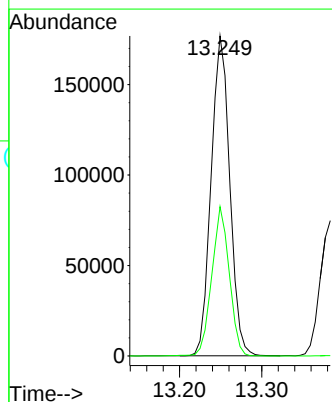
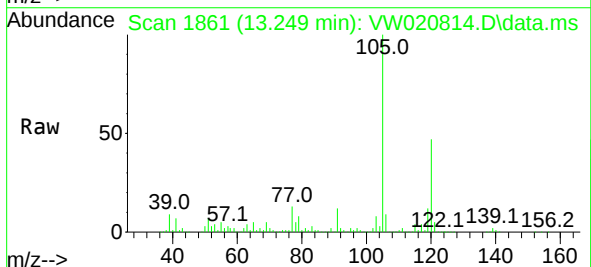
Instrument :
MSVOA_W
ClientSampleId :
GB7L0

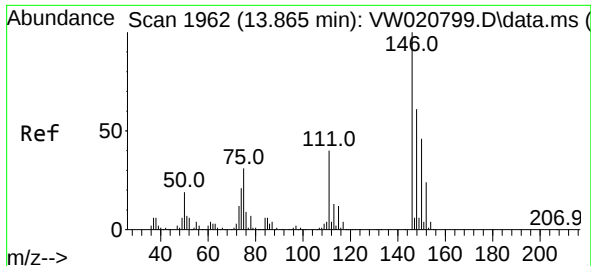
Tgt Ion:105 Resp: 141402
Ion Ratio Lower Upper
105 100
120 50.3 37.4 56.2



#63
1,2,4-Trimethylbenzene
Concen: 22.728 ug/L
RT: 13.249 min Scan# 1861
Delta R.T. -0.000 min
Lab File: VW020814.D
Acq: 08 Nov 2021 16:32

Tgt Ion:105 Resp: 278374
Ion Ratio Lower Upper
105 100
120 43.5 35.0 52.6





#67

1,2-Dichlorobenzene

Concen: 0.689 ug/L

RT: 13.871 min Scan# 1962

Delta R.T. -0.000 min

Lab File: VW020814.D

Acq: 08 Nov 2021 16:32

Instrument :

MSVOA_W

ClientSampleId :

GB7L0

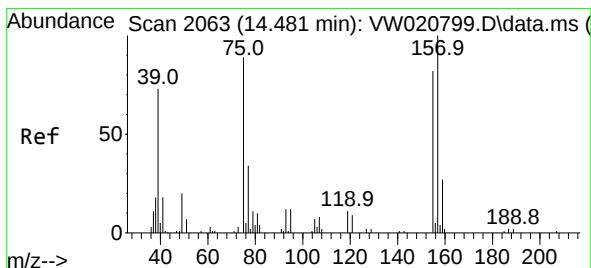
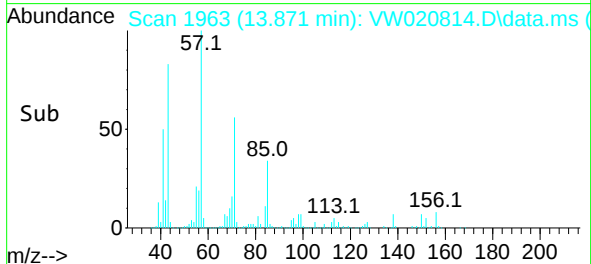
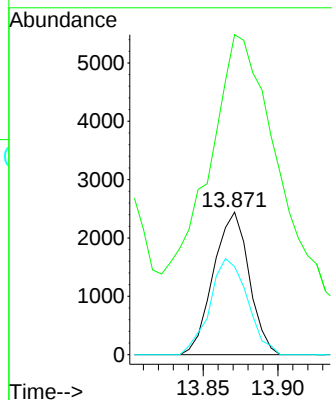
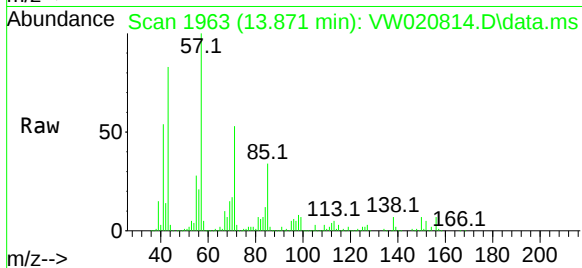
Tgt Ion:146 Resp: 4048

Ion Ratio Lower Upper

146 100

111 224.5 33.1 49.7#

148 61.8 47.4 71.2



#68

1,2-Dibromo-3-chloropropane

Concen: 3.422 ug/L

RT: 14.450 min Scan# 2058

Delta R.T. -0.031 min

Lab File: VW020814.D

Acq: 08 Nov 2021 16:32

Tgt Ion: 75 Resp: 1439

Ion Ratio Lower Upper

75 100

155 0.0 54.2 81.2#

157 0.0 69.4 104.2#

