

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120221\
 Data File : VW021050.D
 Acq On : 02 Dec 2021 16:25
 Operator : SY/VA
 Sample : M4886-14
 Misc : 3.22g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 03 02:26:08 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM111521SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Dec 03 01:25:28 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.841	114	78368	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.628	117	38026	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	5850	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	20263	22.291	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.160%
7) Chloroethane-d5	2.879	69	17974	30.658	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	122.640%
11) 1,1-Dichloroethene-d2	4.013	63	23651	13.447	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	53.800%
21) 2-Butanone-d5	7.080	46	12663	55.810	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.620%
24) Chloroform-d	7.647	84	49149	24.890	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.560%
26) 1,2-Dichloroethane-d4	8.305	65	25174	25.117	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.480%
32) Benzene-d6	8.268	84	84065	41.945	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	167.800%#
36) 1,2-Dichloropropane-d6	9.274	67	26704	46.791	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	187.160%#
41) Toluene-d8	10.323	98	58874	29.597	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	118.400%
43) trans-1,3-Dichloroprop...	10.573	79	5717	21.194	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	84.760%
47) 2-Hexanone-d5	10.920	63	8260	87.267	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	174.540%#
56) 1,1,2,2-Tetrachloroeth...	12.688	84	16781	38.384	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	153.520%#
66) 1,2-Dichlorobenzene-d4	13.853	152	5657	27.132	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	108.520%
Target Compounds						
					Qvalue	
22) 2-Butanone	7.147	43	1854	6.736	ug/L #	52
25) Chloroform	7.677	83	1330	0.694	ug/L	95
29) Cyclohexane	7.945	56	454	0.536	ug/L #	73
33) Benzene	8.323	78	1611	0.748	ug/L	100
34) Trichloroethene	9.091	95	908835	1509.154	ug/L	94
35) Methylcyclohexane	9.335	83	2959	2.980	ug/L #	85
37) 1,2-Dichloropropane	9.274	63	3528	7.041	ug/L #	88
39) cis-1,3-Dichloropropene	10.030	75	658	0.795	ug/L #	70
42) Toluene	10.384	91	7016	2.897	ug/L	100
45) 1,1,2-Trichloroethane	10.780	97	675	1.732	ug/L #	74
46) Tetrachloroethene	10.859	164	680513	1230.730	ug/L	95
48) 2-Hexanone	10.927	43	1285	6.220	ug/L #	67
49) Dibromochloromethane	10.859	129	601844	1120.187	ug/L #	10
52) Ethylbenzene	11.731	91	1747	0.651	ug/L	100
53) m,p-Xylene	11.829	106	1708	1.559	ug/L	90
54) o-Xylene	12.164	106	1613	1.533	ug/L	80
60) Isopropylbenzene	12.463	105	1001	1.256	ug/L	95
61) 1,2,3-Trichloropropane	12.920	75	58	0.676	ug/L #	40
62) 1,3,5-Trimethylbenzene	12.944	105	405	0.603	ug/L	100

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Quant Time: Dec 03 02:26:08 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM111521SMA.M
Quant Title : SFAM01.0
QLast Update : Fri Dec 03 01:25:28 2021
Response via : Initial Calibration

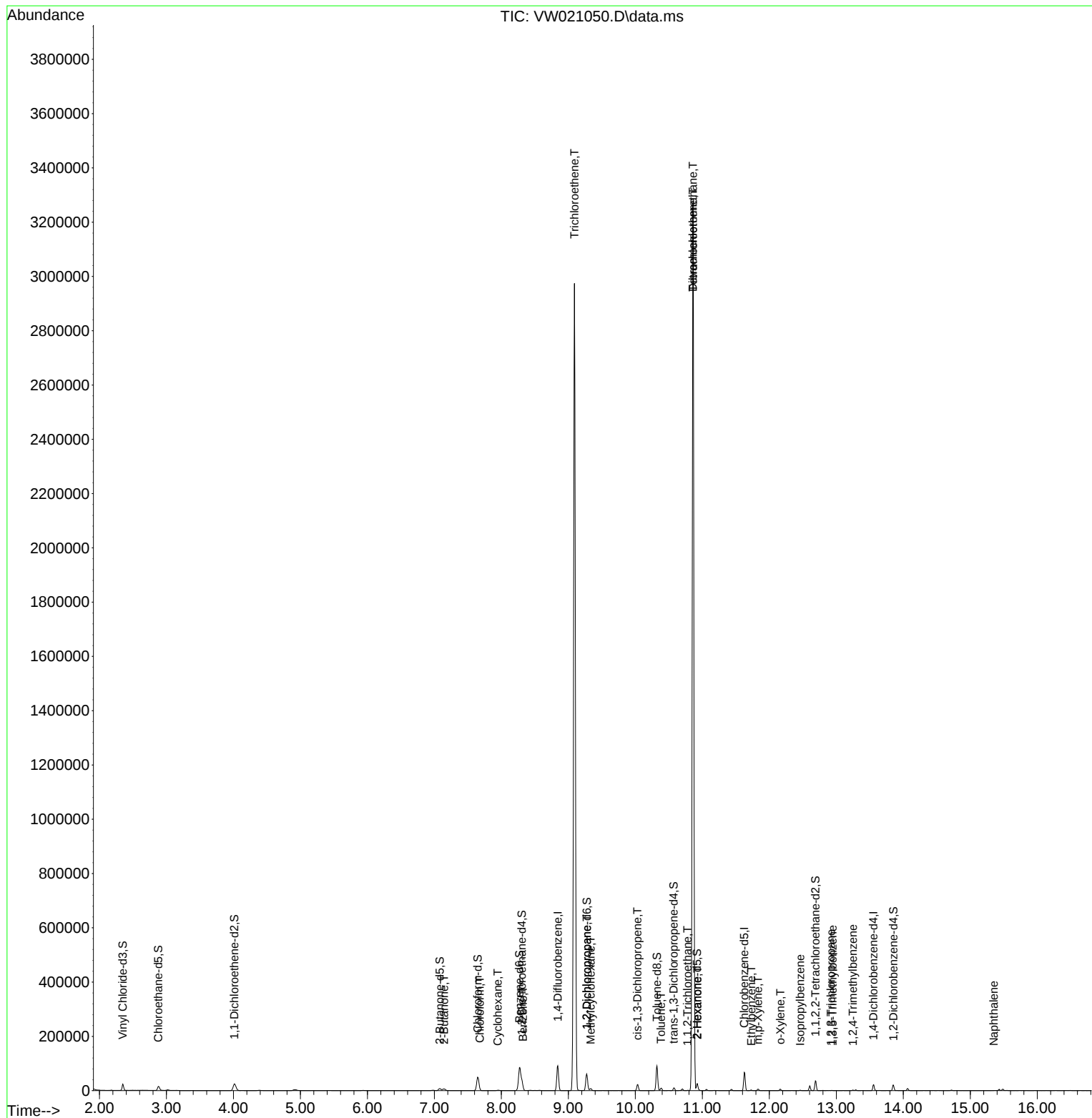
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	13.249	105	1362	2.054	ug/L	97
71) Naphthalene	15.353	128	375	0.951	ug/L #	69

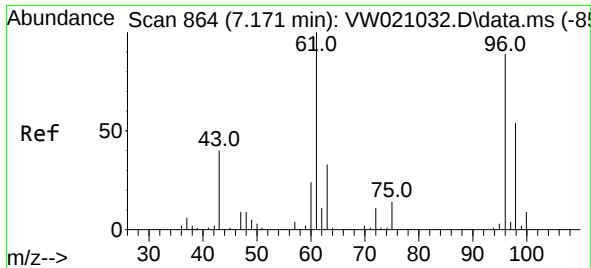
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0
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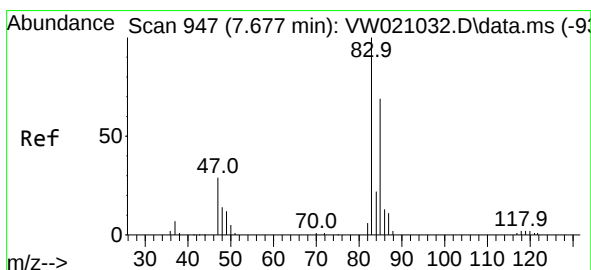
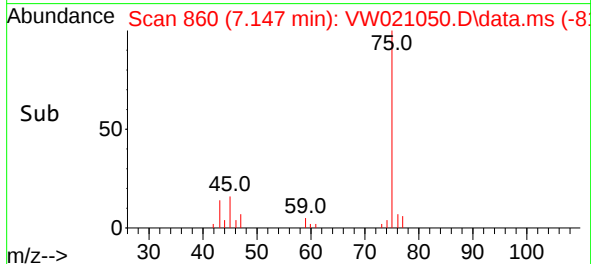
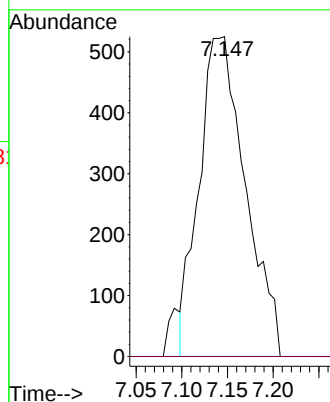
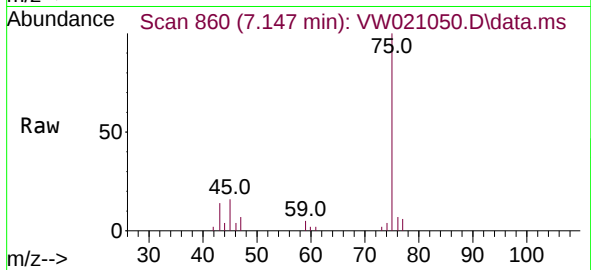




#22
2-Butanone
Concen: 6.736 ug/L
RT: 7.147 min Scan# 860
Delta R.T. -0.025 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

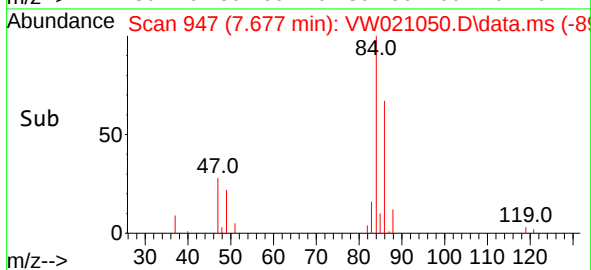
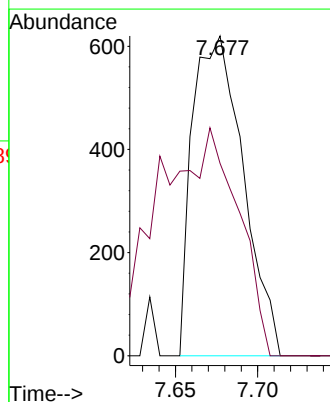
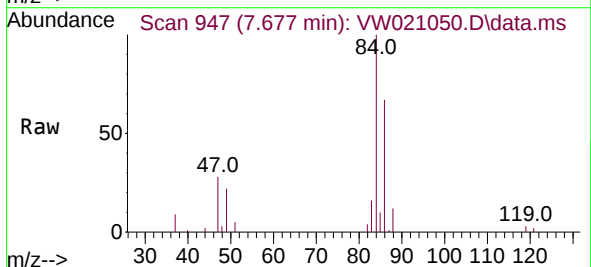
Instrument :
MSVOA_W
ClientSampleId :

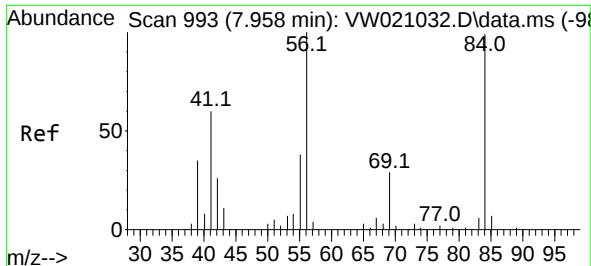
Tgt Ion: 43 Resp: 1854
Ion Ratio Lower Upper
43 100
72 0.0 11.8 35.4#



#25
Chloroform
Concen: 0.694 ug/L
RT: 7.677 min Scan# 947
Delta R.T. -0.000 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

Tgt Ion: 83 Resp: 1330
Ion Ratio Lower Upper
83 100
85 60.2 45.1 83.7





#29

Cyclohexane

Concen: 0.536 ug/L

RT: 7.945 min Scan# 991

Delta R.T. -0.012 min

Lab File: VW021050.D

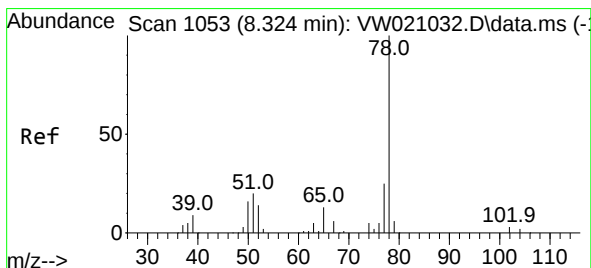
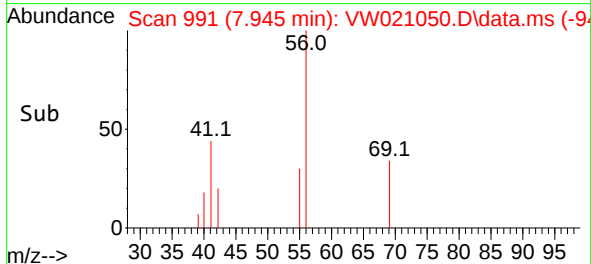
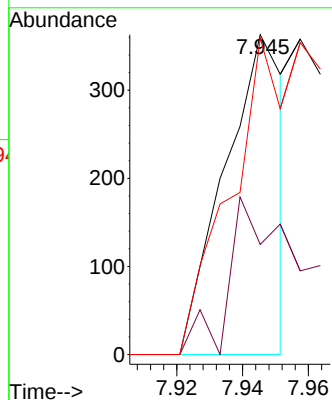
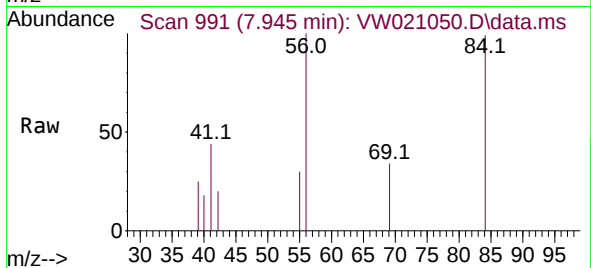
Acq: 02 Dec 2021 16:25

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 56	Resp:	454
Ion	Ratio	Lower Upper
56	100	
69	68.1	23.5 35.3#
84	88.1	63.4 95.2



#33

Benzene

Concen: 0.748 ug/L

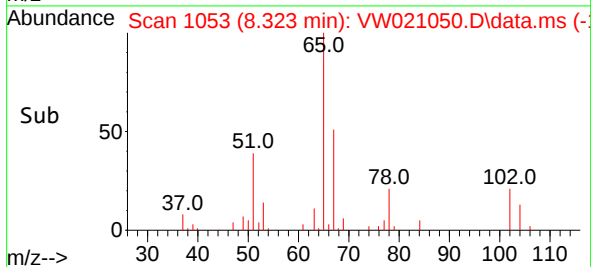
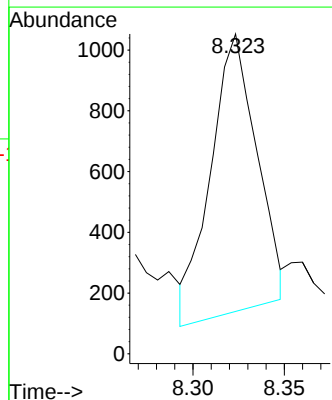
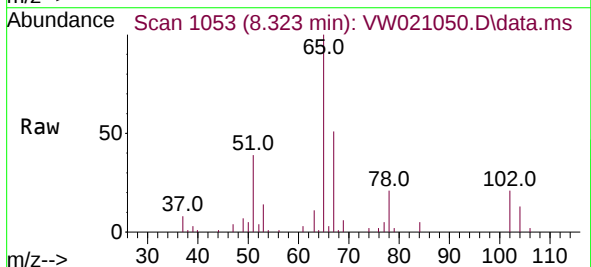
RT: 8.323 min Scan# 1053

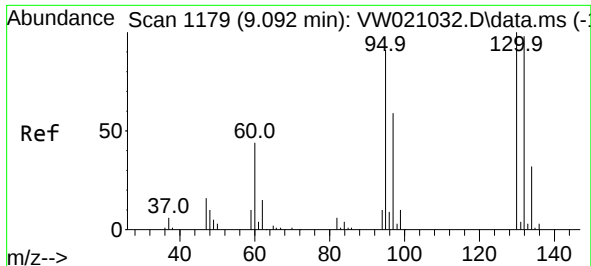
Delta R.T. -0.000 min

Lab File: VW021050.D

Acq: 02 Dec 2021 16:25

Tgt Ion: 78 Resp: 1611



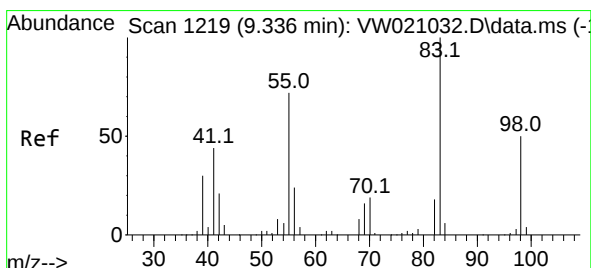
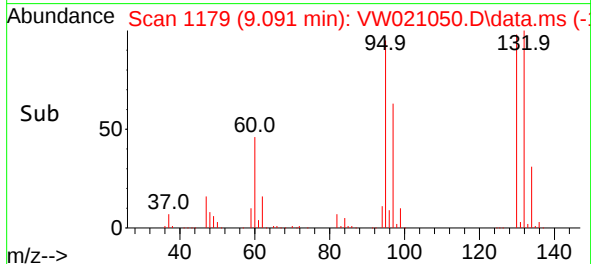
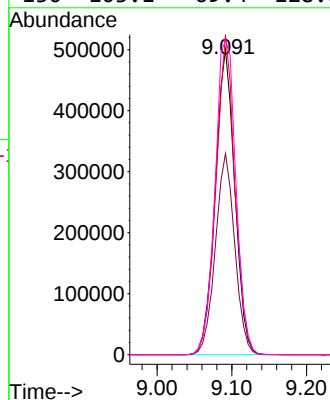
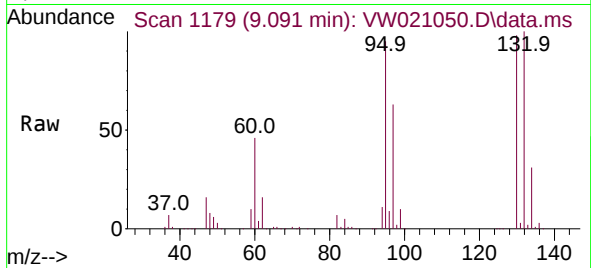


#34
Trichloroethene
Concen: 1509.154 ug/L
RT: 9.091 min Scan# 1179
Delta R.T. -0.000 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 95 Resp: 908835

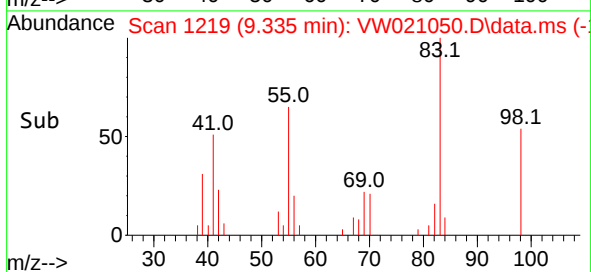
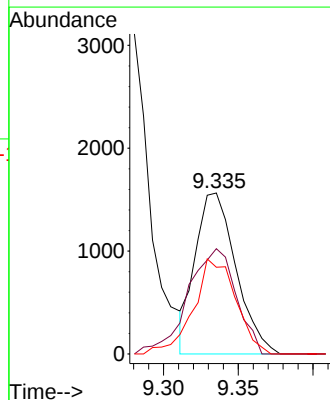
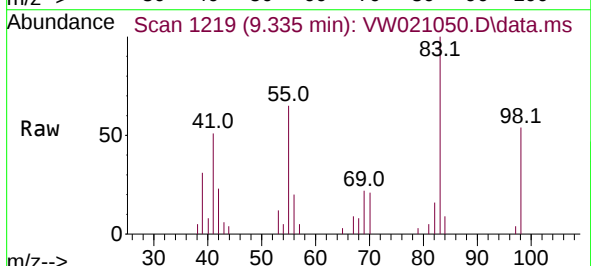
Ion	Ratio	Lower	Upper
95	100		
97	65.9	47.0	87.2
132	104.9	65.5	121.6
130	103.1	69.4	128.8

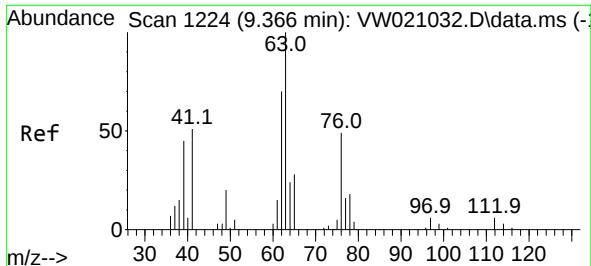


#35
Methylcyclohexane
Concen: 2.980 ug/L
RT: 9.335 min Scan# 1219
Delta R.T. -0.000 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

Tgt Ion: 83 Resp: 2959

Ion	Ratio	Lower	Upper
83	100		
55	77.8	70.8	106.2
98	61.7	37.7	56.5





#37

1,2-Dichloropropane

Concen: 7.041 ug/L

RT: 9.274 min Scan# 11

Delta R.T. -0.092 min

Lab File: VW021050.D

Acq: 02 Dec 2021 16:25

Instrument :

MSVOA_W

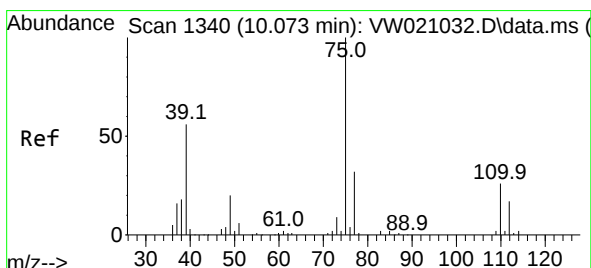
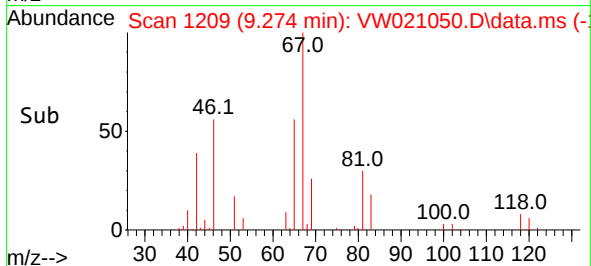
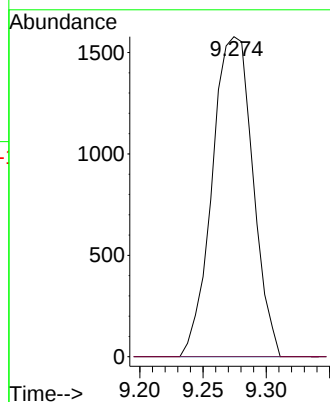
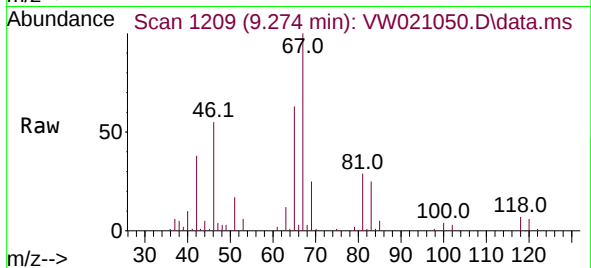
ClientSampleId :

Tgt Ion: 63 Resp: 3528

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.795 ug/L

RT: 10.030 min Scan# 1333

Delta R.T. -0.043 min

Lab File: VW021050.D

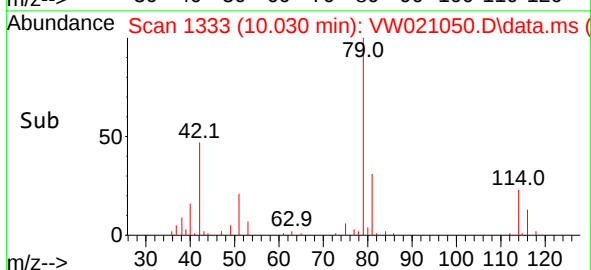
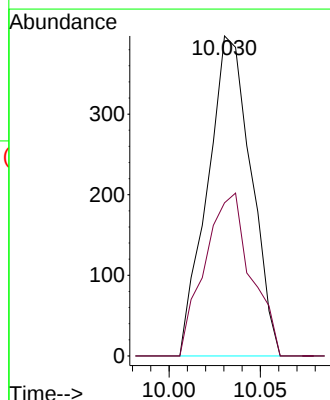
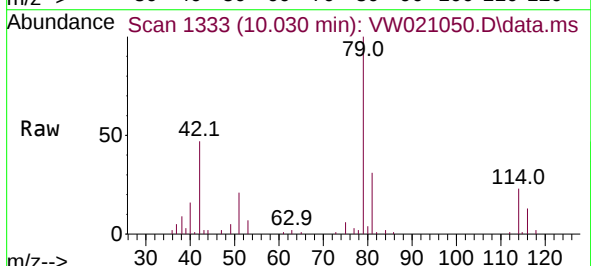
Acq: 02 Dec 2021 16:25

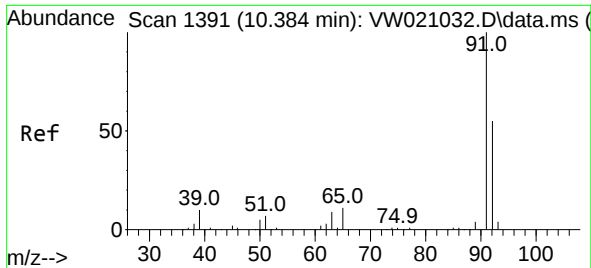
Tgt Ion: 75 Resp: 658

Ion Ratio Lower Upper

75 100

77 47.9 21.8 40.6#

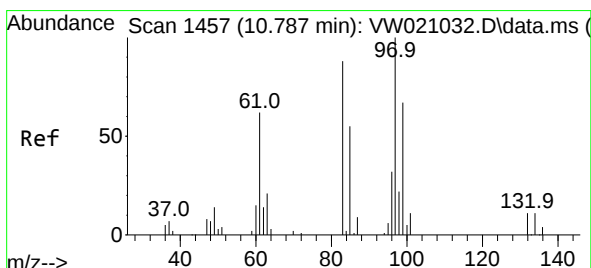
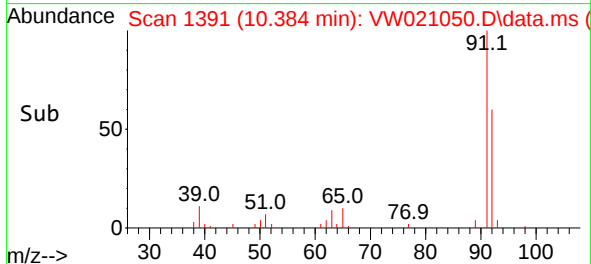
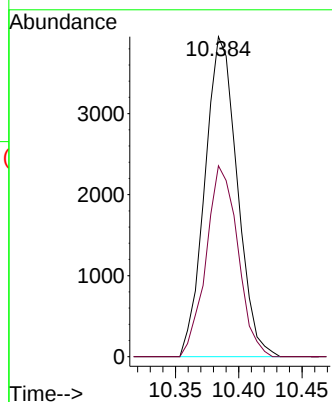
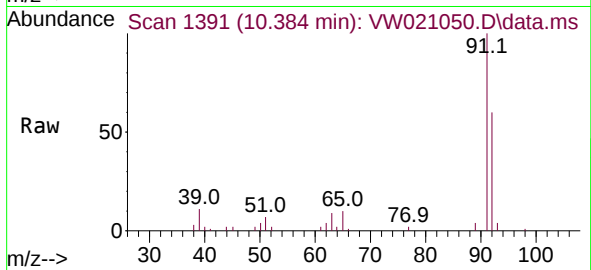




#42
Toluene
Concen: 2.897 ug/L
RT: 10.384 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

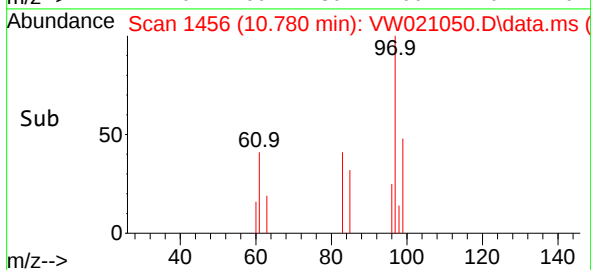
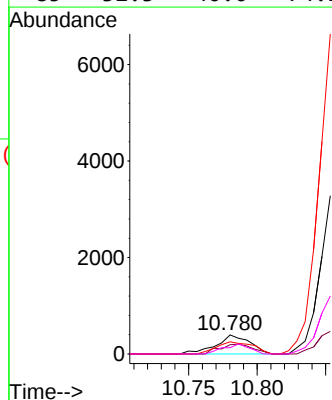
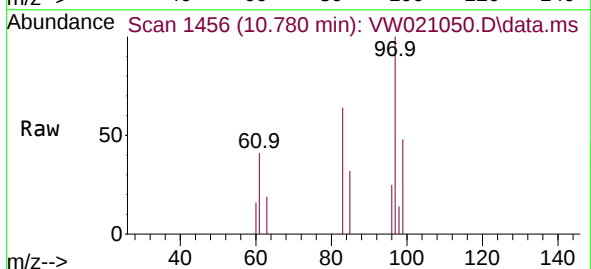
Instrument :
MSVOA_W
ClientSampleId :

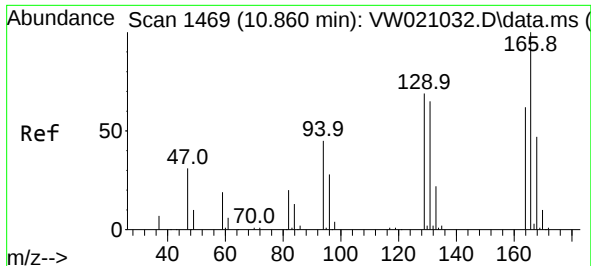
Tgt Ion: 91 Resp: 7016
Ion Ratio Lower Upper
91 100
92 59.7 41.7 77.5



#45
1,1,2-Trichloroethane
Concen: 1.732 ug/L
RT: 10.780 min Scan# 1456
Delta R.T. -0.006 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

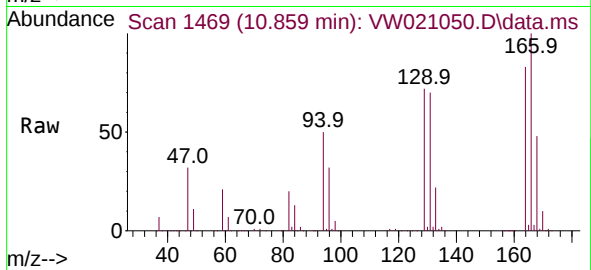
Tgt Ion: 97 Resp: 675
Ion Ratio Lower Upper
97 100
99 48.2 43.0 79.8
83 63.6 62.6 116.3
85 32.3 40.0 74.2#



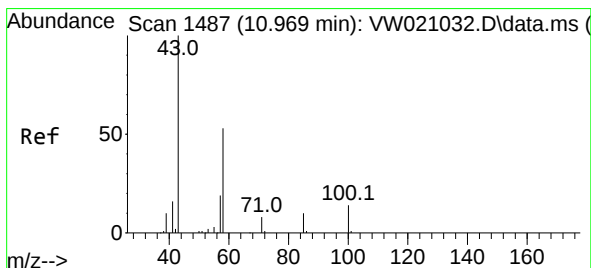
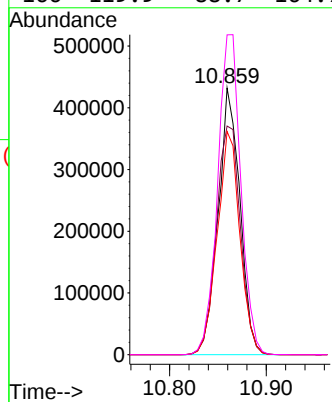
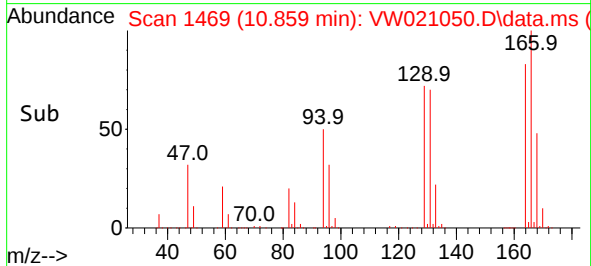


#46
Tetrachloroethene
Concen: 1230.730 ug/L
RT: 10.859 min Scan# 1469
Delta R.T. -0.000 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

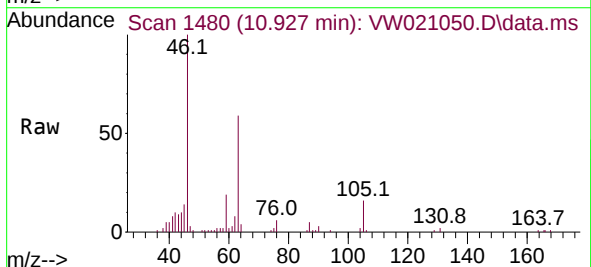
Instrument :
MSVOA_W
ClientSampleId :



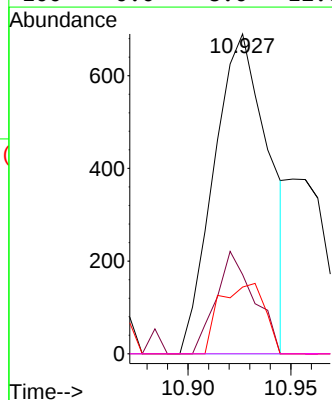
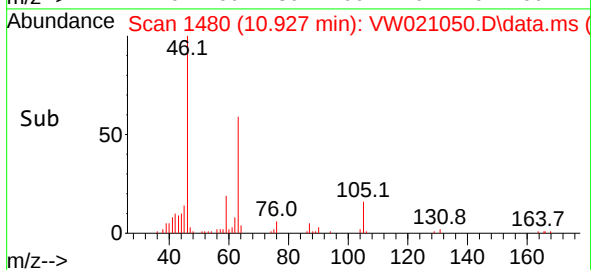
Tgt Ion:164 Resp: 680513
Ion Ratio Lower Upper
164 100
129 85.7 65.5 121.7
131 83.7 59.7 110.9
166 119.9 88.7 164.7

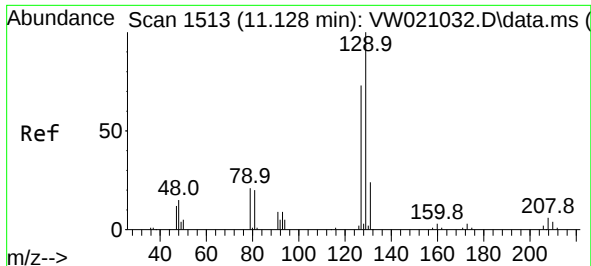


#48
2-Hexanone
Concen: 6.220 ug/L
RT: 10.927 min Scan# 1480
Delta R.T. -0.043 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25



Tgt Ion: 43 Resp: 1285
Ion Ratio Lower Upper
43 100
58 22.2 40.2 60.2#
57 10.8 14.3 21.5#
100 0.0 8.0 12.0#





#49

Dibromochloromethane

Concen: 1120.187 ug/L

RT: 10.859 min Scan# 1469

Delta R.T. -0.268 min

Lab File: VW021050.D

Acq: 02 Dec 2021 16:25

Instrument :

MSVOA_W

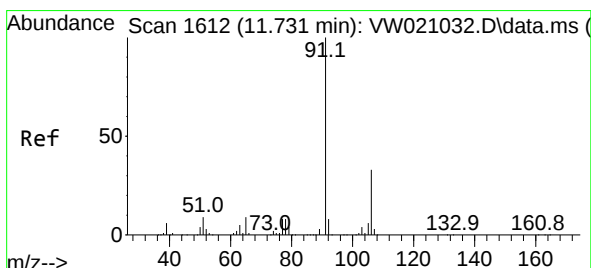
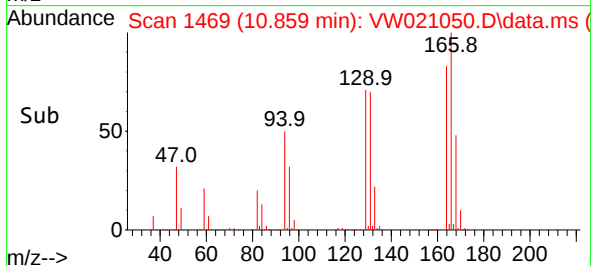
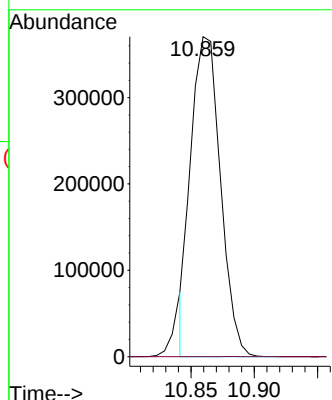
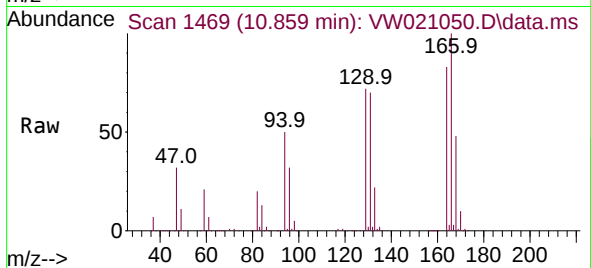
ClientSampleId :

Tgt Ion:129 Resp: 601844

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#



#52

Ethylbenzene

Concen: 0.651 ug/L

RT: 11.731 min Scan# 1612

Delta R.T. -0.000 min

Lab File: VW021050.D

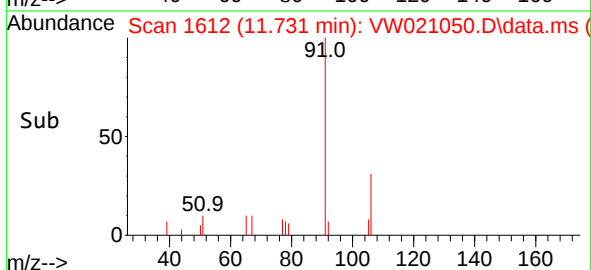
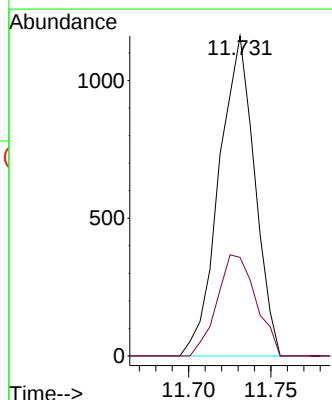
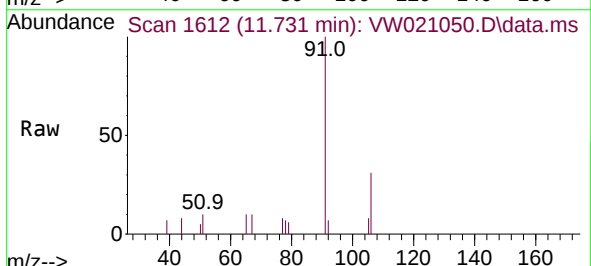
Acq: 02 Dec 2021 16:25

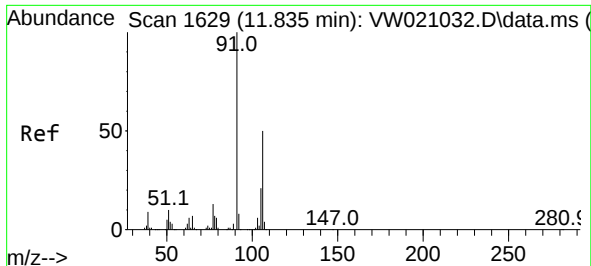
Tgt Ion: 91 Resp: 1747

Ion Ratio Lower Upper

91 100

106 30.8 21.5 39.9

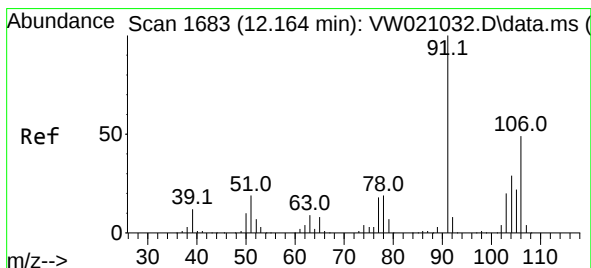
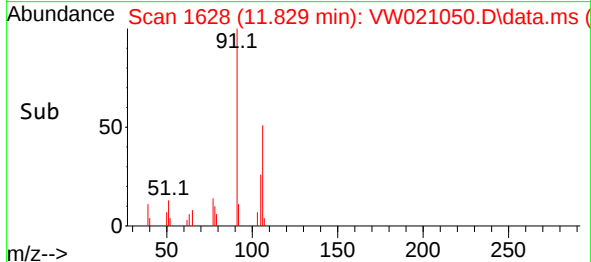
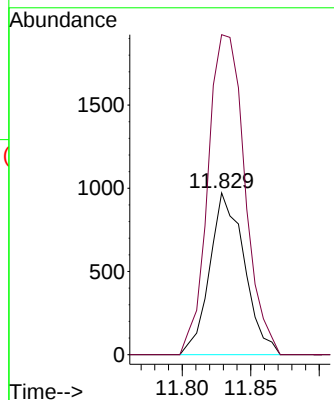
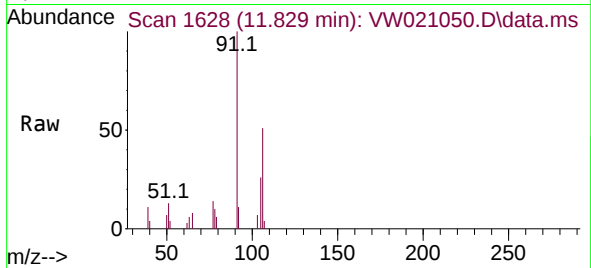




#53
m,p-Xylene
Concen: 1.559 ug/L
RT: 11.829 min Scan# 1628
Delta R.T. -0.006 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

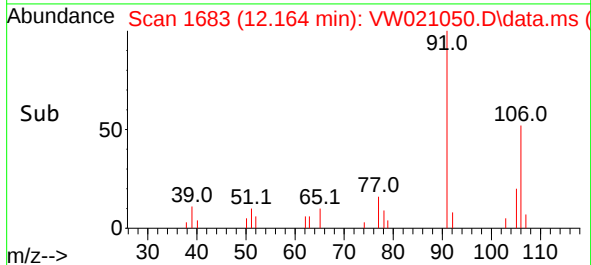
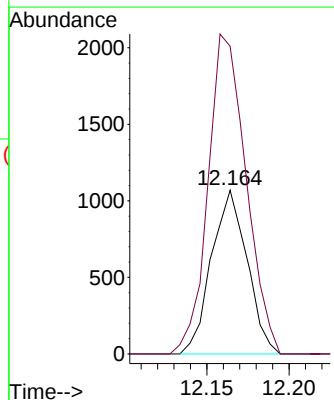
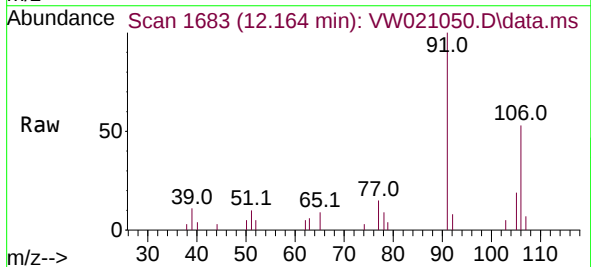
Instrument :
MSVOA_W
ClientSampleId :

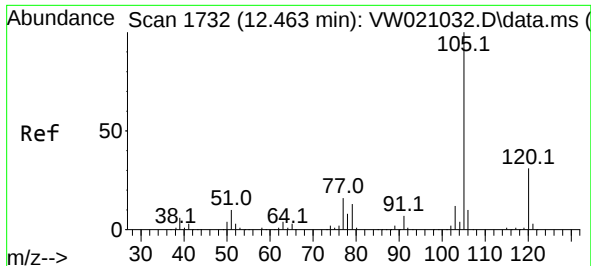
Tgt Ion:106 Resp: 1708
Ion Ratio Lower Upper
106 100
91 197.8 149.9 278.3



#54
o-Xylene
Concen: 1.533 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

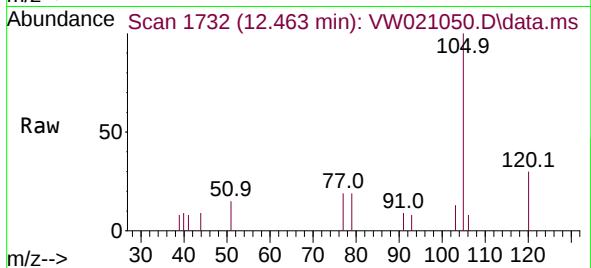
Tgt Ion:106 Resp: 1613
Ion Ratio Lower Upper
106 100
91 188.0 153.6 285.3



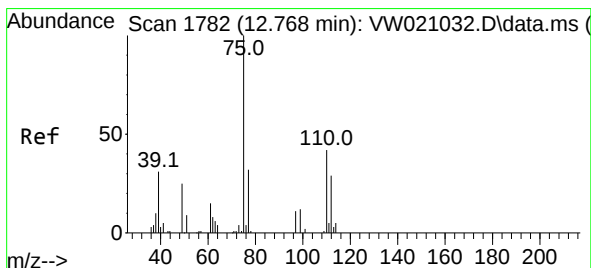
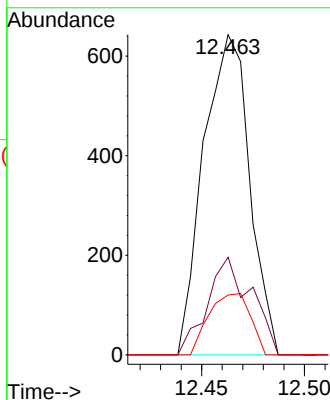
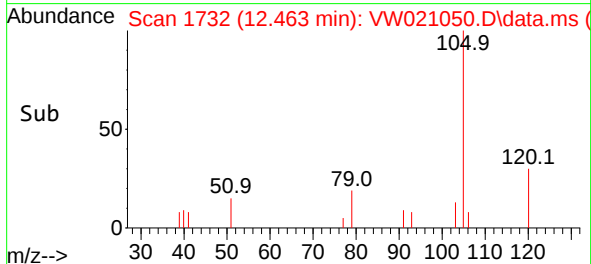


#60
Isopropylbenzene
Concen: 1.256 ug/L
RT: 12.463 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25

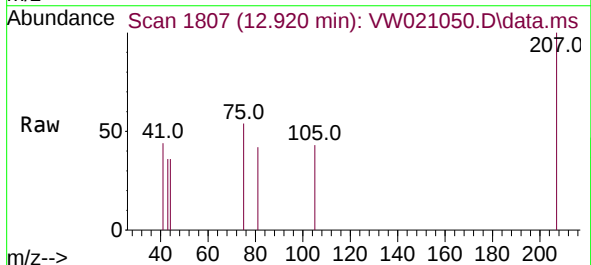
Instrument :
MSVOA_W
ClientSampleId :



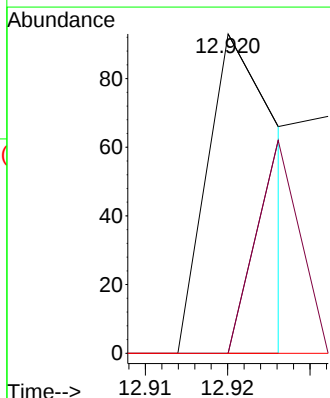
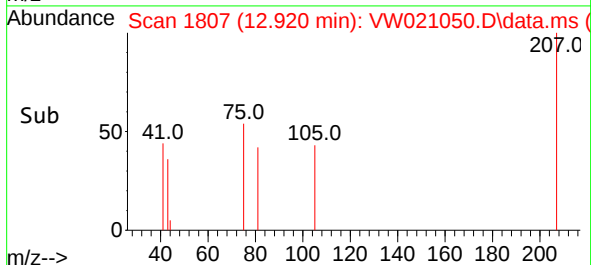
Tgt Ion:105 Resp: 1001
Ion Ratio Lower Upper
105 100
120 29.1 20.1 30.1
77 17.3 13.8 20.8

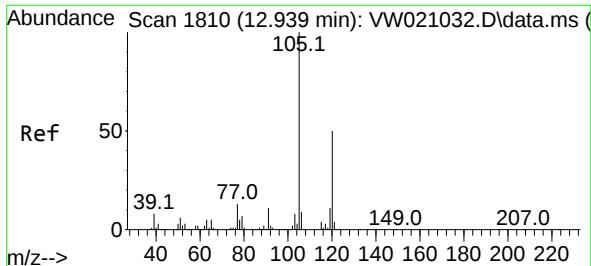


#61
1,2,3-Trichloropropane
Concen: 0.676 ug/L
RT: 12.920 min Scan# 1807
Delta R.T. 0.152 min
Lab File: VW021050.D
Acq: 02 Dec 2021 16:25



Tgt Ion: 75 Resp: 58
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#
110 0.0 29.0 43.4#





#62

1,3,5-Trimethylbenzene

Concen: 0.603 ug/L

RT: 12.944 min Scan# 1811

Delta R.T. 0.006 min

Lab File: VW021050.D

Acq: 02 Dec 2021 16:25

Instrument :

MSVOA_W

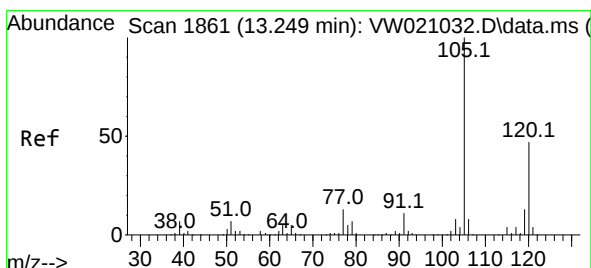
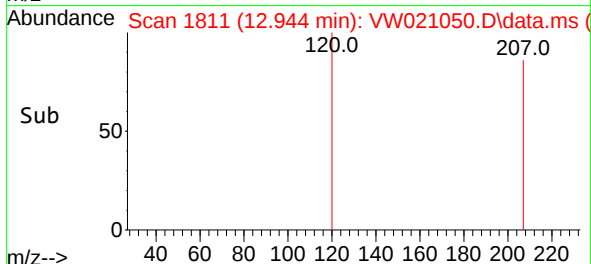
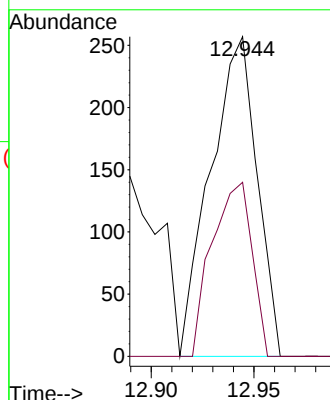
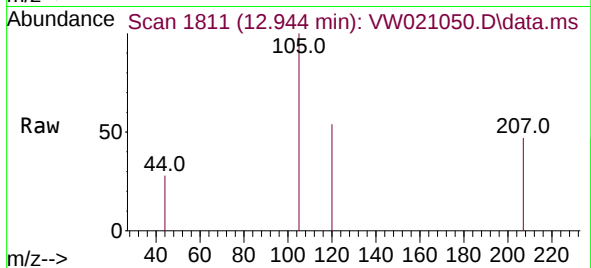
ClientSampleId :

Tgt Ion:105 Resp: 405

Ion Ratio Lower Upper

105 100

120 46.9 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 2.054 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. -0.000 min

Lab File: VW021050.D

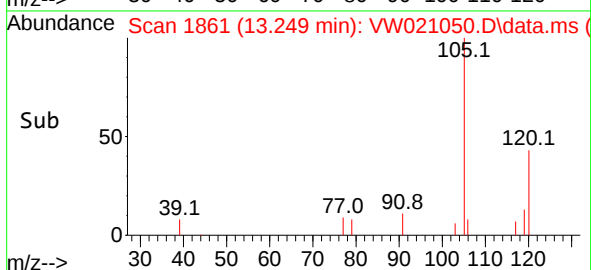
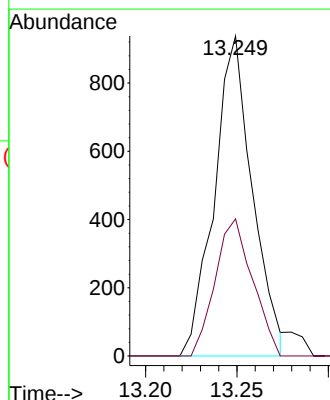
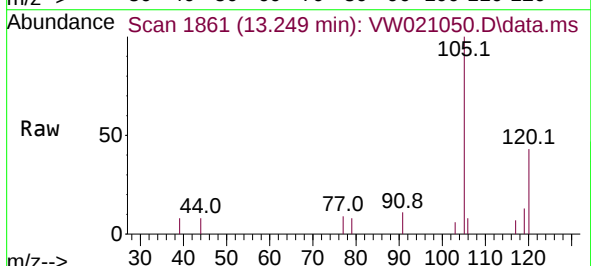
Acq: 02 Dec 2021 16:25

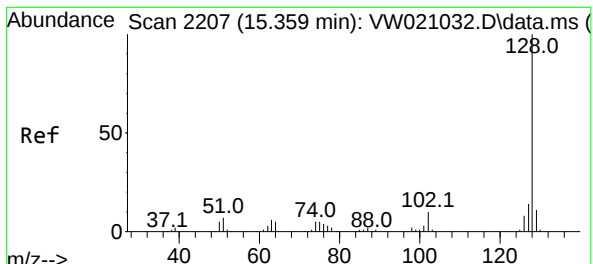
Tgt Ion:105 Resp: 1362

Ion Ratio Lower Upper

105 100

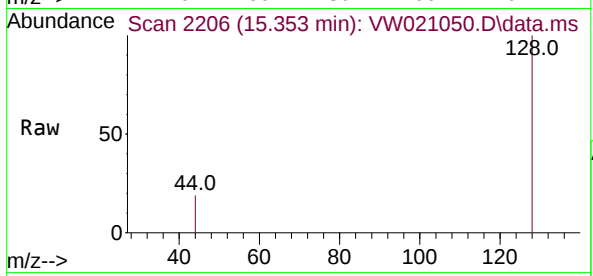
120 41.9 35.0 52.6





#71
 Naphthalene
 Concen: 0.951 ug/L
 RT: 15.353 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VW021050.D
 Acq: 02 Dec 2021 16:25

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:128 Resp: 375

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.7	16.1#
129	0.0	8.6	12.8#

