

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
 Data File : VW021470.D
 Acq On : 18 Dec 2021 12:41
 Operator : SY/VA
 Sample : M5154-10
 Misc : 6.48g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 18 23:11:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Dec 18 00:55:20 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	172827	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	165491	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	87682	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.343	65	48063	15.270	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	61.080%
7) Chloroethane-d5	2.879	69	28608	13.748	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	55.000%
11) 1,1-Dichloroethene-d2	4.007	63	63565	15.148	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	60.600%
21) 2-Butanone-d5	7.208	46	557	1.255	ug/L	0.13
Spiked Amount	50.000	Range	20 - 135	Recovery	=	2.520%#
24) Chloroform-d	7.647	84	91202	18.936	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	75.760%
26) 1,2-Dichloroethane-d4	8.305	65	51199	19.985	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	79.920%
32) Benzene-d6	8.275	84	182804	20.152	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	80.600%
36) 1,2-Dichloropropane-d6	9.274	67	52341	21.515	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	86.040%
41) Toluene-d8	10.323	98	183225	19.769	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	79.080%
43) trans-1,3-Dichloroprop...	10.579	79	21734	19.403	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	77.600%
47) 2-Hexanone-d5	10.927	63	18679	51.924	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.840%
56) 1,1,2,2-Tetrachloroeth...	12.695	84	43315	20.712	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	82.840%
66) 1,2-Dichlorobenzene-d4	13.847	152	59345	17.464	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	69.840%#
Target Compounds						
					Qvalue	
14) Carbon disulfide	4.373	76	6388	1.155	ug/L	# 94
22) 2-Butanone	7.195	43	6265	12.061	ug/L	91
29) Cyclohexane	7.921	56	20071	6.093	ug/L	# 60
33) Benzene	8.323	78	15180	1.684	ug/L	100
35) Methylcyclohexane	9.329	83	40888	9.795	ug/L	# 78
38) Bromodichloromethane	9.622	83	1728	0.625	ug/L	# 25
39) cis-1,3-Dichloropropene	10.036	75	1830	0.577	ug/L	# 58
40) 4-Methyl-2-pentanone	10.213	43	12440	11.354	ug/L	# 90
42) Toluene	10.384	91	182870	17.344	ug/L	98
45) 1,1,2-Trichloroethane	10.811	97	2077	1.262	ug/L	# 46
51) Chlorobenzene	11.658	112	17913	2.538	ug/L	91
52) Ethylbenzene	11.731	91	2887006	239.610	ug/L	94
53) m,p-Xylene	11.835	106	691159	142.197	ug/L	84
54) o-Xylene	12.164	106	512754	111.157	ug/L	94
55) Styrene	12.164	104	26880	3.424	ug/L	# 1
60) Isopropylbenzene	12.463	105	709622	59.561	ug/L	95
61) 1,2,3-Trichloropropane	12.804	75	4066	3.186	ug/L	# 1
62) 1,3,5-Trimethylbenzene	12.938	105	319759	31.539	ug/L	96
63) 1,2,4-Trimethylbenzene	13.249	105	2742189	274.185	ug/L	95

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

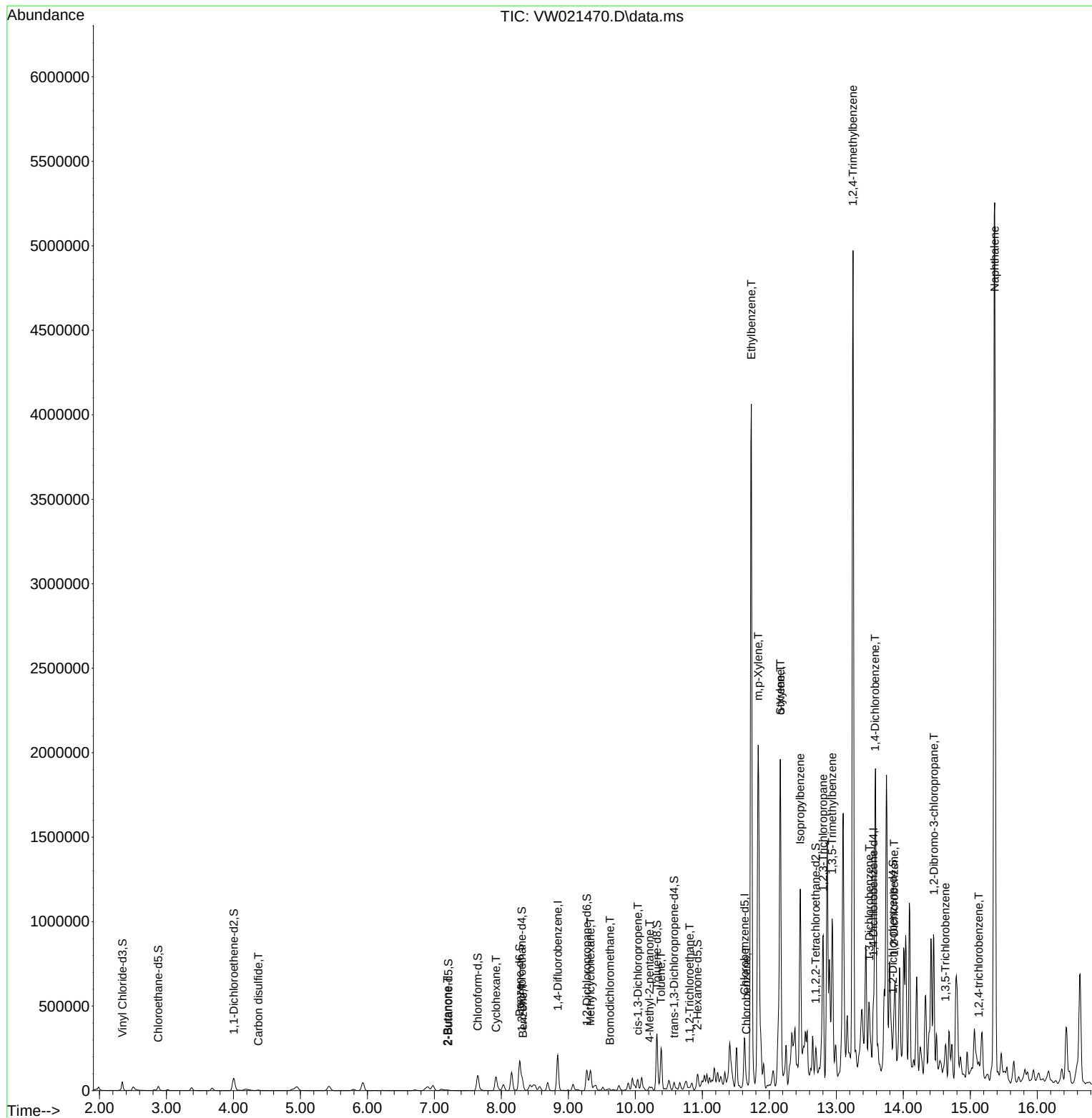
64) 1,3-Dichlorobenzene	13.493	146	11290	2.009	ug/L #	64
65) 1,4-Dichlorobenzene	13.578	146	21369	3.827	ug/L #	72
67) 1,2-Dichlorobenzene	13.865	146	34801	7.034	ug/L #	83
68) 1,2-Dibromo-3-chloropr...	14.456	75	3892	14.786	ug/L #	12
69) 1,3,5-Trichlorobenzene	14.627	180	28737	6.842	ug/L	97
70) 1,2,4-trichlorobenzene	15.127	180	24429	7.231	ug/L #	59
71) Naphthalene	15.365	128	4753662	866.081	ug/L	98

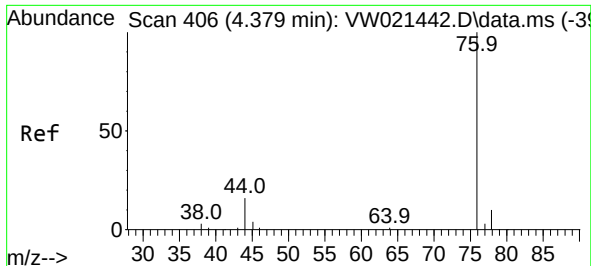
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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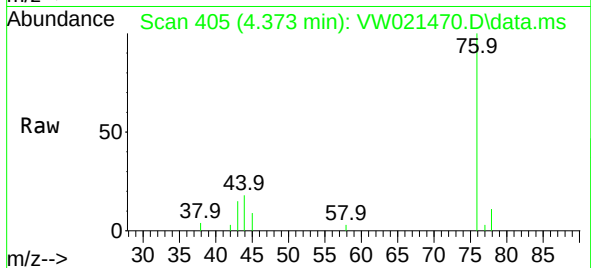
Quant Time: Dec 18 23:11:25 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0
QLast Update : Sat Dec 18 00:55:20 2021
Response via : Initial Calibration



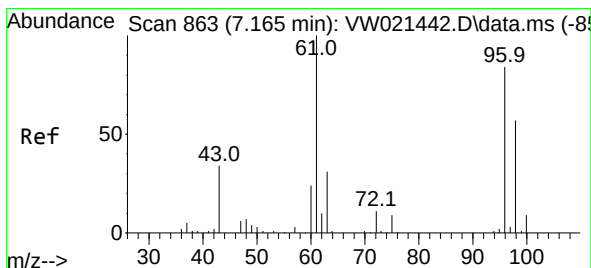
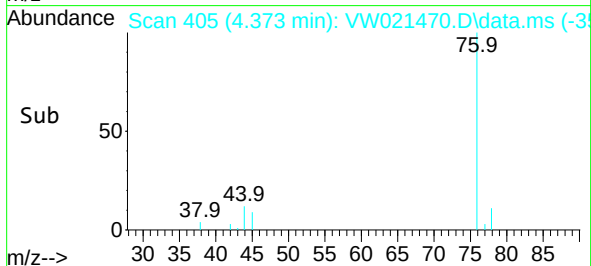
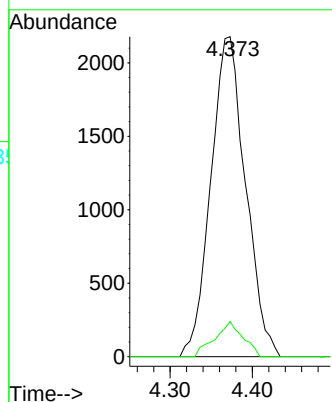


#14
Carbon disulfide
Concen: 1.155 ug/L
RT: 4.373 min Scan# 406
Delta R.T. -0.006 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Instrument :
MSVOA_W
ClientSampleId :

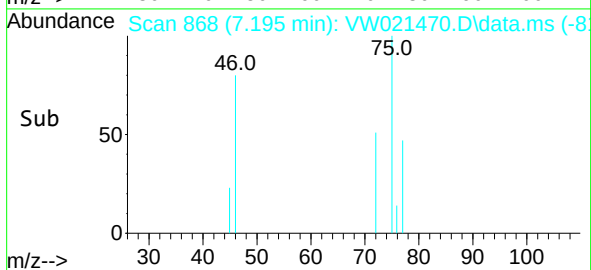
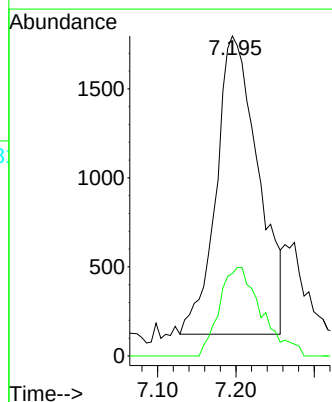
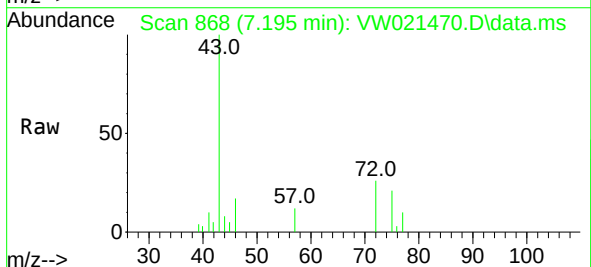


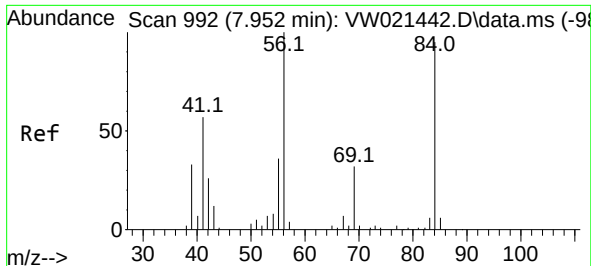
Tgt Ion: 76 Resp: 6388
Ion Ratio Lower Upper
76 100
78 11.0 7.1 10.7#



#22
2-Butanone
Concen: 12.061 ug/L
RT: 7.195 min Scan# 868
Delta R.T. 0.030 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Tgt Ion: 43 Resp: 6265
Ion Ratio Lower Upper
43 100
72 28.0 11.8 35.4





#29

Cyclohexane

Concen: 6.093 ug/L

RT: 7.921 min Scan# 91

Delta R.T. -0.031 min

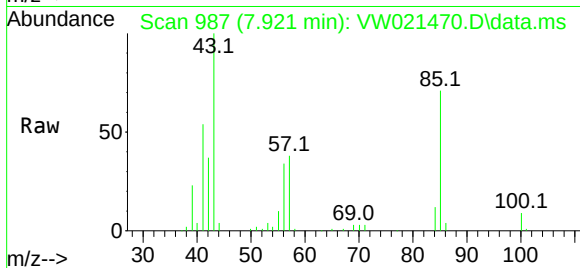
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Acq: 18 Dec 2021 12:41

Instrument :

MSVOA_W

ClientSampleId :



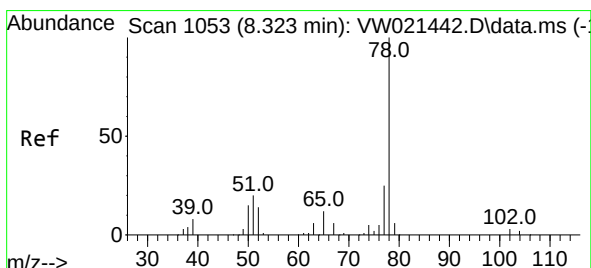
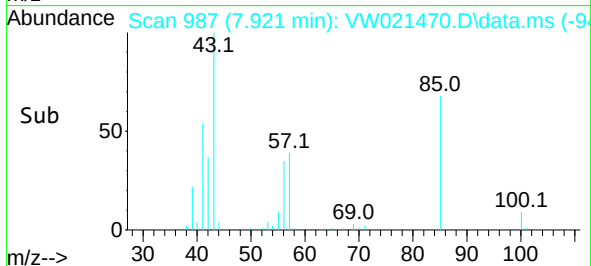
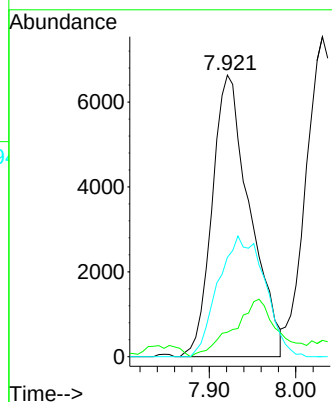
Tgt Ion: 56 Resp: 20071

Ion Ratio Lower Upper

56 100

69 23.8 23.5 35.3

84 34.5 63.4 95.2#



#33

Benzene

Concen: 1.684 ug/L

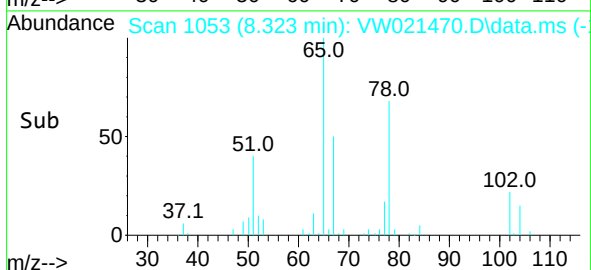
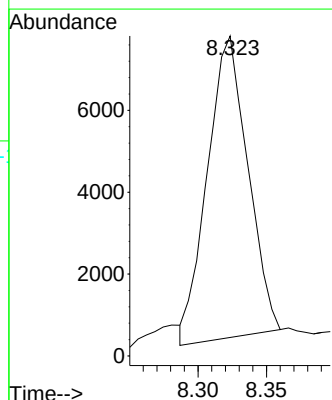
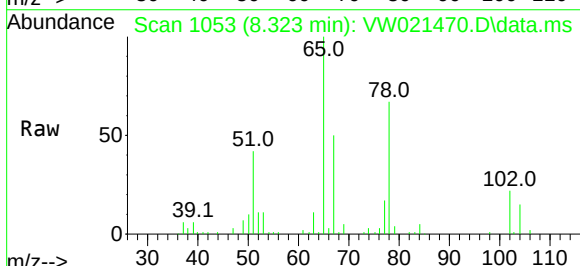
RT: 8.323 min Scan# 1053

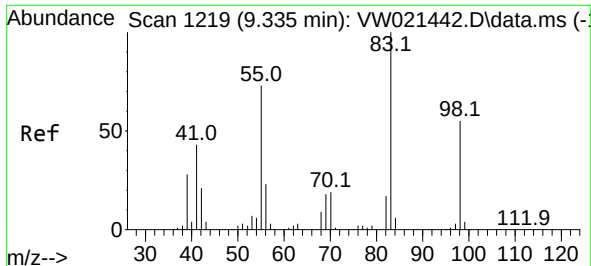
Delta R.T. -0.000 min

Lab File: VW021470.D

Acq: 18 Dec 2021 12:41

Tgt Ion: 78 Resp: 15180

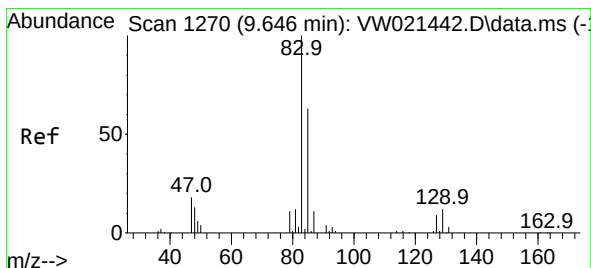
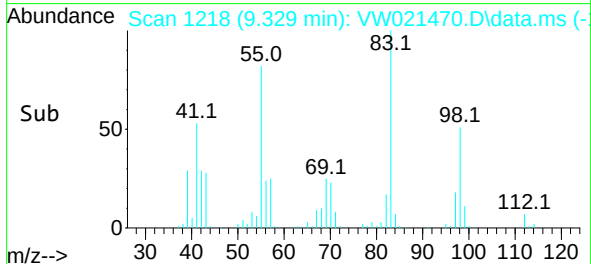
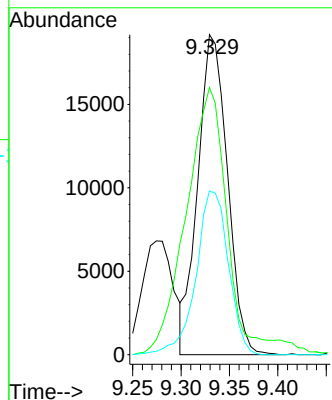
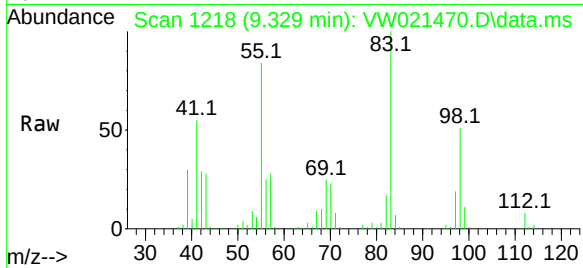




#35
Methylcyclohexane
Concen: 9.795 ug/L
RT: 9.329 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

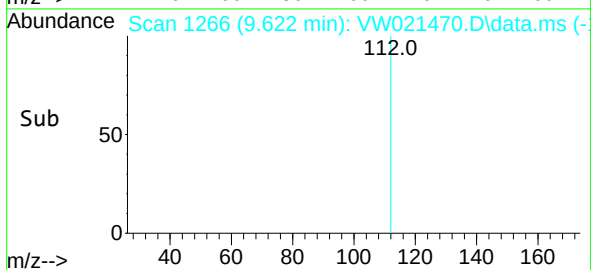
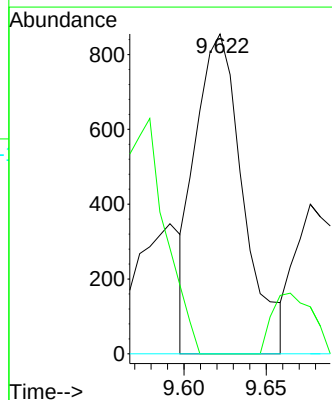
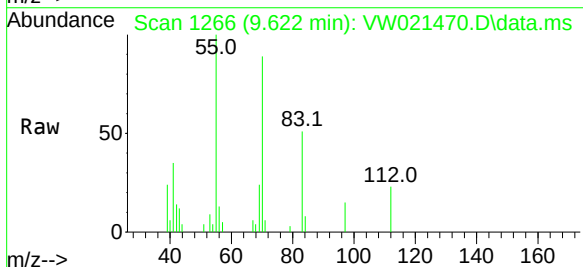
Instrument :
MSVOA_W
ClientSampleId :

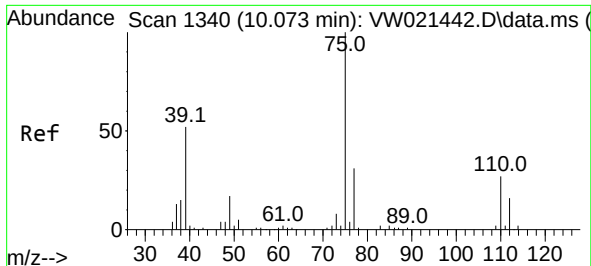
Tgt Ion: 83 Resp: 40888
Ion Ratio Lower Upper
83 100
55 114.0 70.8 106.2#
98 56.0 37.7 56.5



#38
Bromodichloromethane
Concen: 0.625 ug/L
RT: 9.622 min Scan# 1266
Delta R.T. -0.024 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Tgt Ion: 83 Resp: 1728
Ion Ratio Lower Upper
83 100
85 0.0 44.1 81.9#
127 0.0 6.1 9.1#





#39

cis-1,3-Dichloropropene

Concen: 0.577 ug/L

RT: 10.036 min Scan# 11

Delta R.T. -0.037 min

Lab File: VW021470.D

Acq: 18 Dec 2021 12:41

Instrument :

MSVOA_W

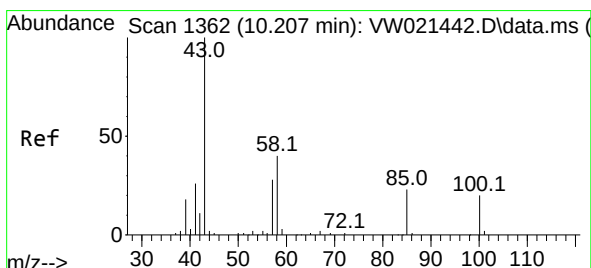
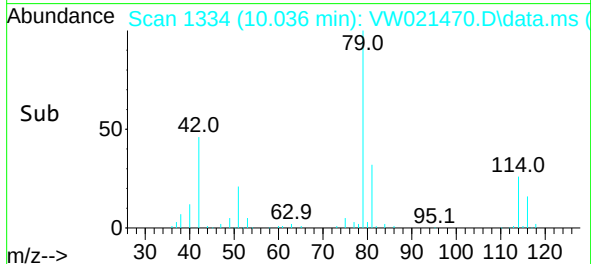
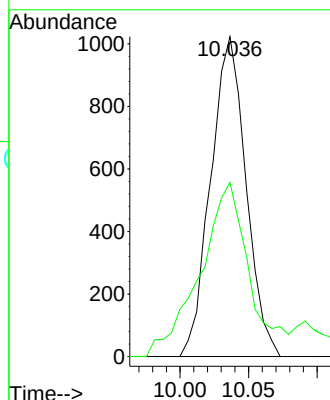
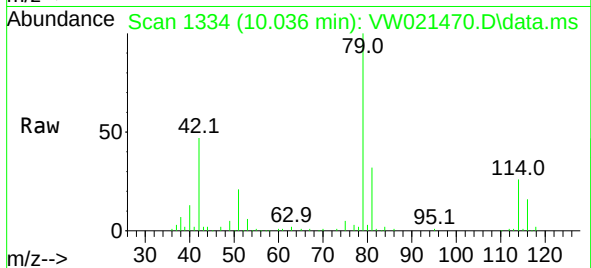
ClientSampleId :

Tgt Ion: 75 Resp: 1830

Ion Ratio Lower Upper

75 100

77 54.4 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 11.354 ug/L

RT: 10.213 min Scan# 1363

Delta R.T. 0.006 min

Lab File: VW021470.D

Acq: 18 Dec 2021 12:41

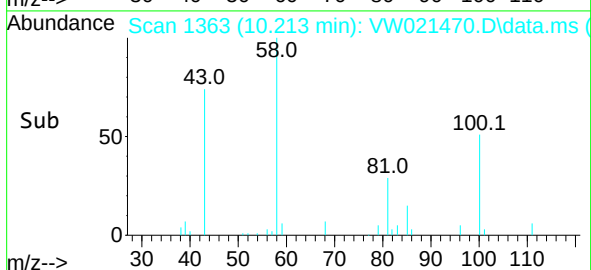
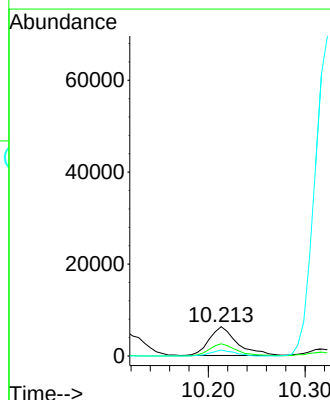
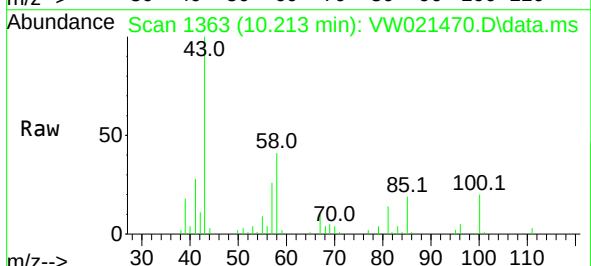
Tgt Ion: 43 Resp: 12440

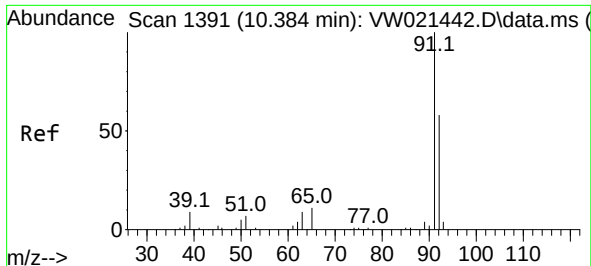
Ion Ratio Lower Upper

43 100

58 41.4 28.8 43.2

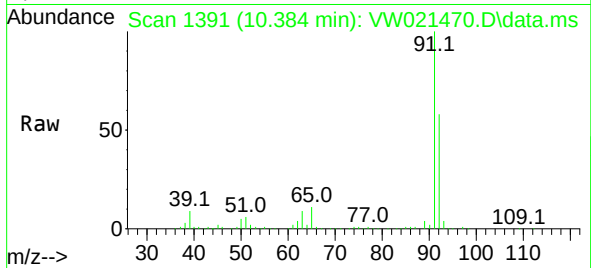
100 17.5 10.0 15.0#



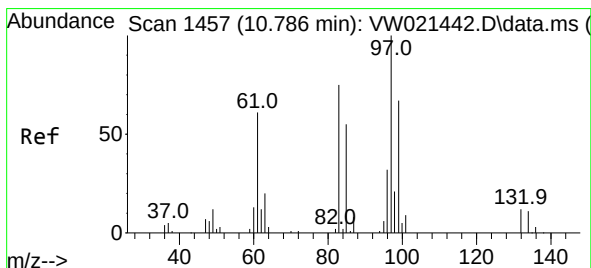
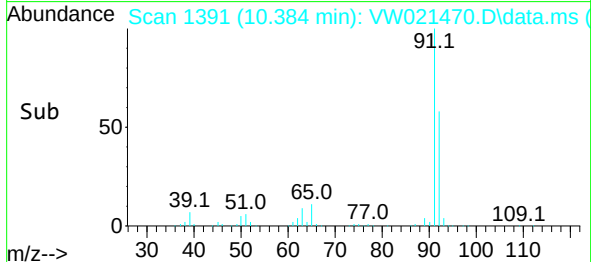
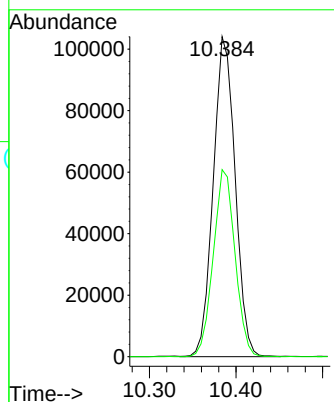


#42
Toluene
Concen: 17.344 ug/L
RT: 10.384 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

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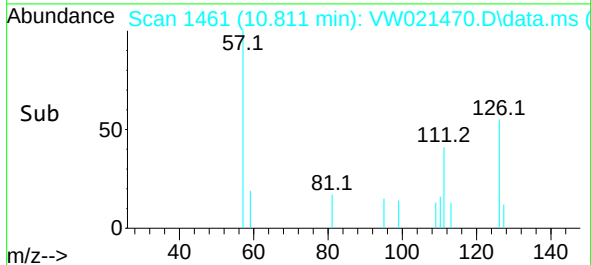
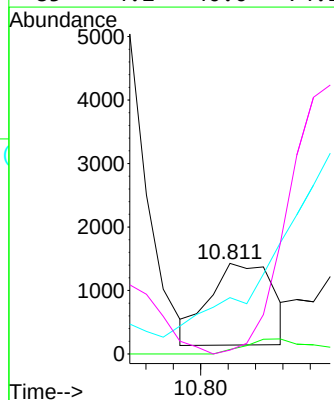
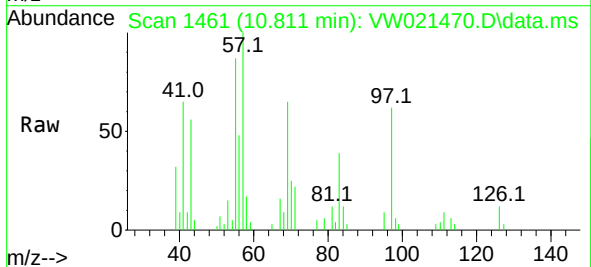


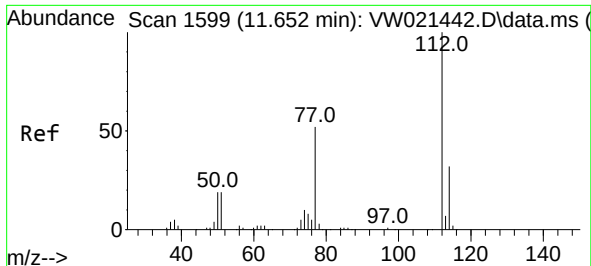
Tgt Ion: 91 Resp: 182870
Ion Ratio Lower Upper
91 100
92 58.5 41.7 77.5



#45
1,1,2-Trichloroethane
Concen: 1.262 ug/L
RT: 10.811 min Scan# 1461
Delta R.T. 0.024 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

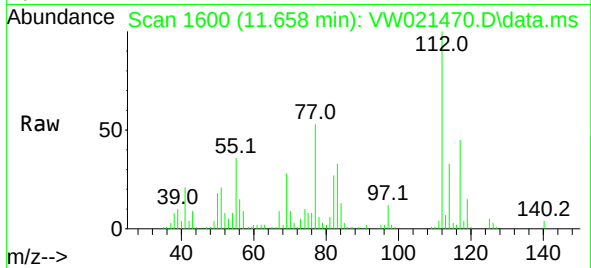
Tgt Ion: 97 Resp: 2077
Ion Ratio Lower Upper
97 100
99 4.9 43.0 79.8#
83 62.3 62.6 116.3#
85 4.2 40.0 74.2#



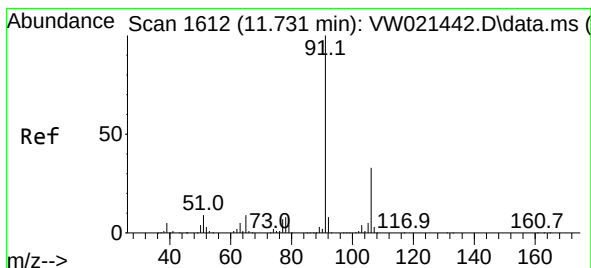
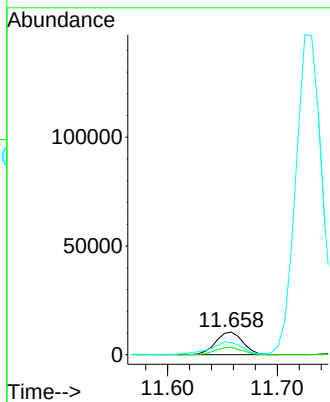
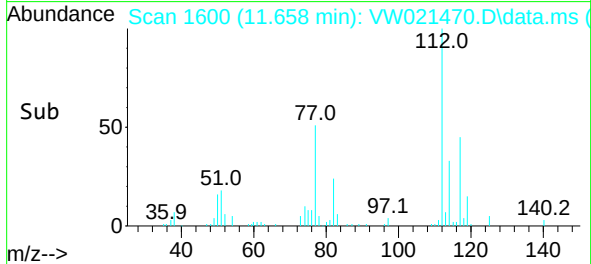


#51
Chlorobenzene
Concen: 2.538 ug/L
RT: 11.658 min Scan# 11600
Delta R.T. 0.006 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Instrument :
MSVOA_W
ClientSampleId :

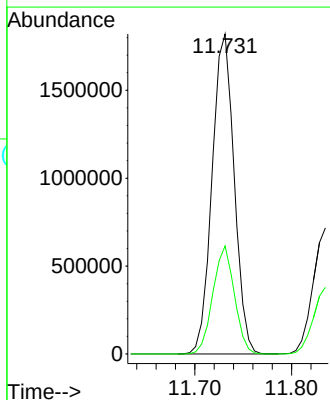
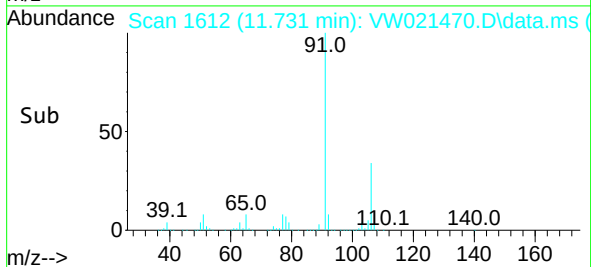
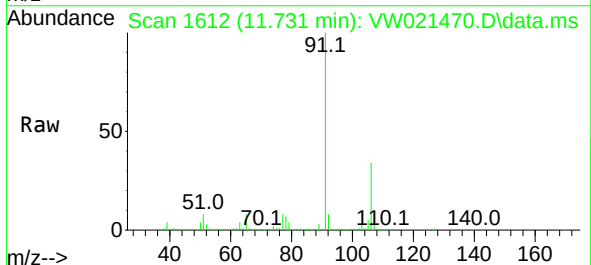


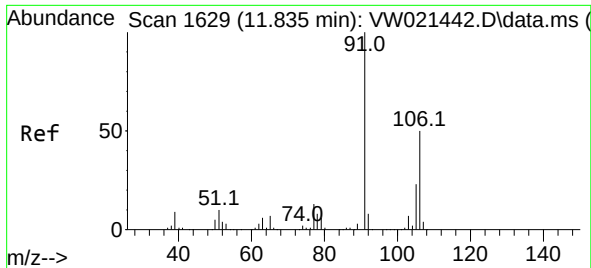
Tgt Ion:112 Resp: 17913
Ion Ratio Lower Upper
112 100
114 32.7 22.4 41.6
77 53.2 50.2 75.4



#52
Ethylbenzene
Concen: 239.610 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Tgt Ion: 91 Resp: 2887006
Ion Ratio Lower Upper
91 100
106 33.8 21.5 39.9

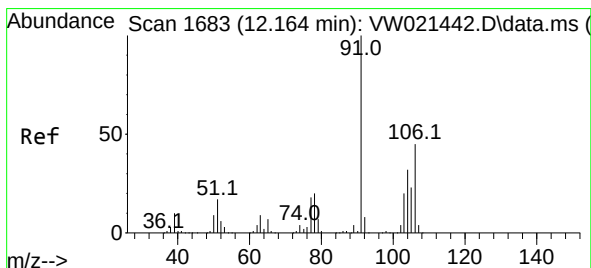
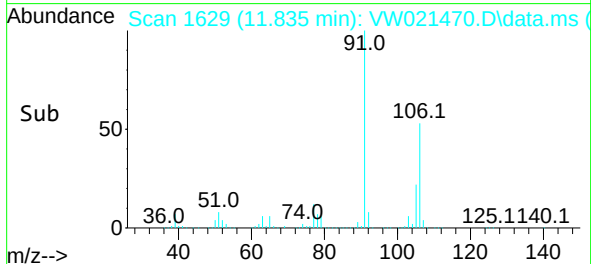
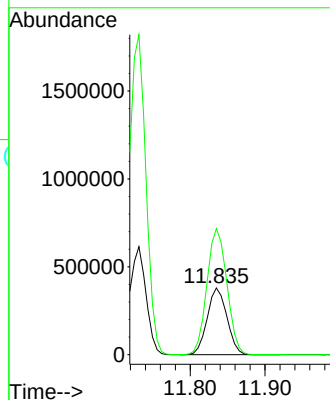
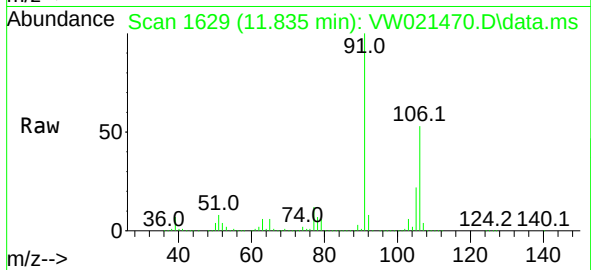




#53
m,p-Xylene
Concen: 142.197 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

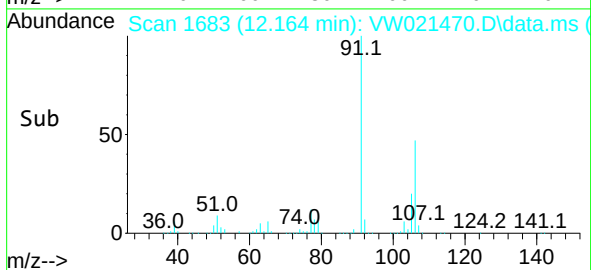
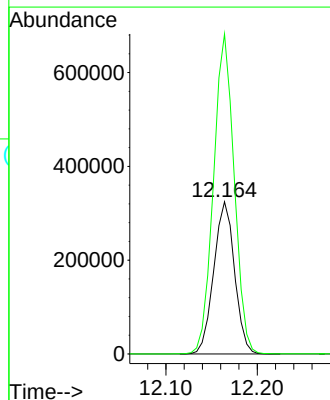
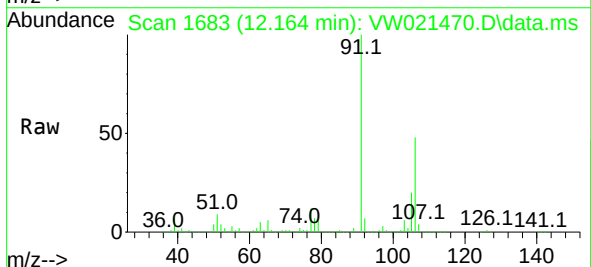
Instrument :
MSVOA_W
ClientSampleId :

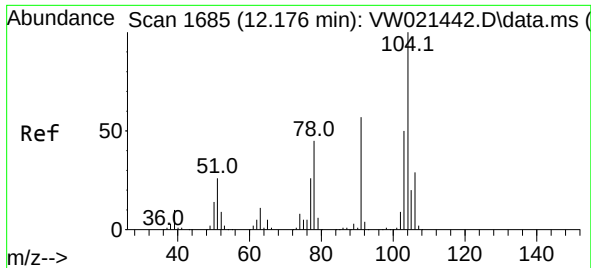
Tgt Ion:106 Resp: 691159
Ion Ratio Lower Upper
106 100
91 189.0 149.9 278.3



#54
o-Xylene
Concen: 111.157 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Tgt Ion:106 Resp: 512754
Ion Ratio Lower Upper
106 100
91 210.4 153.6 285.3

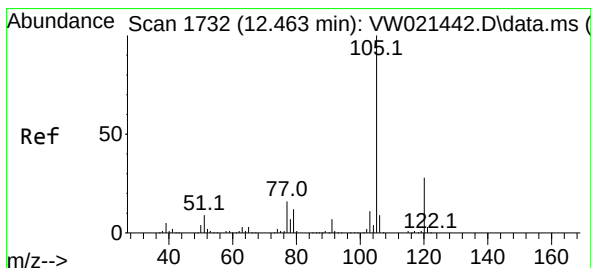
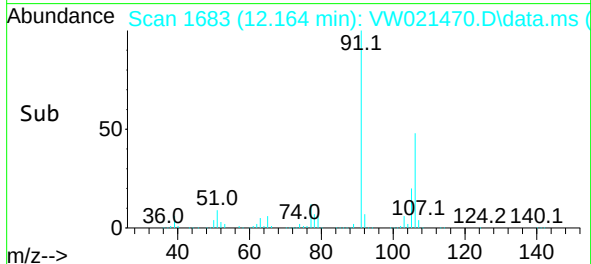
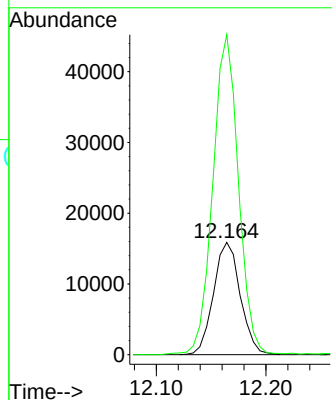
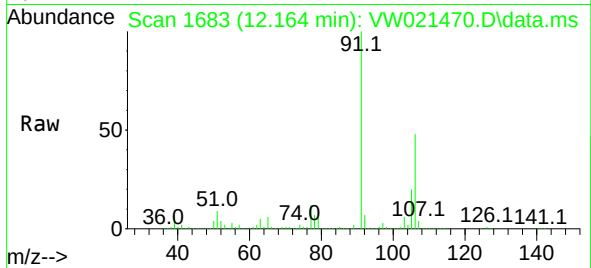




#55
Styrene
Concen: 3.424 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.012 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

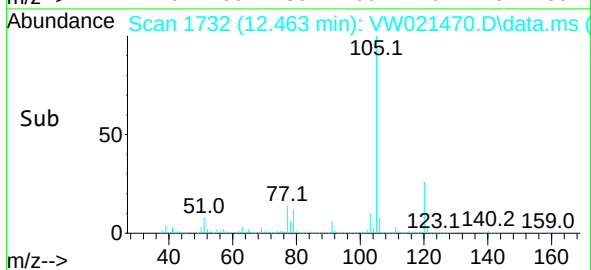
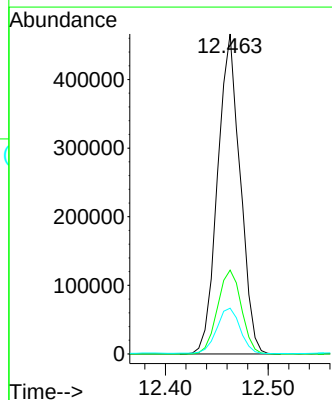
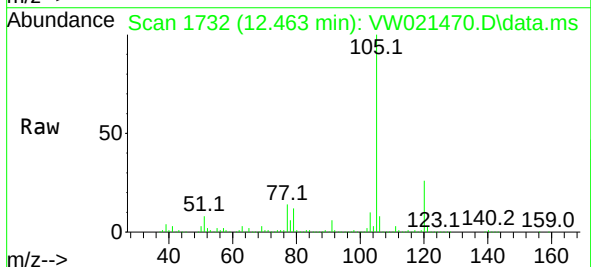
Instrument :
MSVOA_W
ClientSampleId :

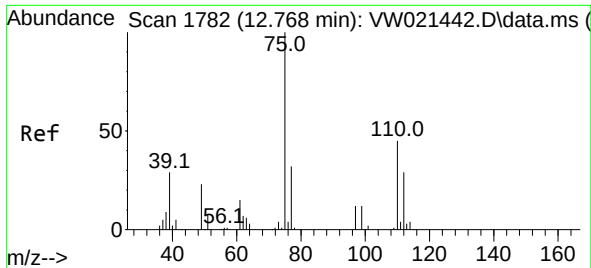
Tgt Ion:104 Resp: 26880
Ion Ratio Lower Upper
104 100
78 285.0 34.4 64.0#



#60
Isopropylbenzene
Concen: 59.561 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Tgt Ion:105 Resp: 709622
Ion Ratio Lower Upper
105 100
120 27.6 20.1 30.1
77 14.8 13.8 20.8

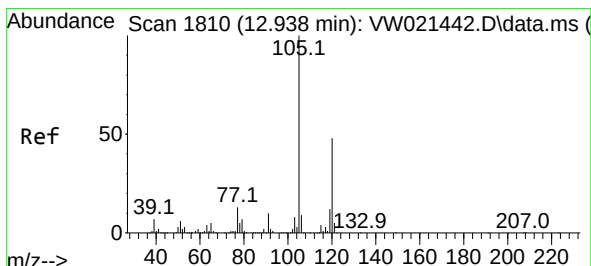
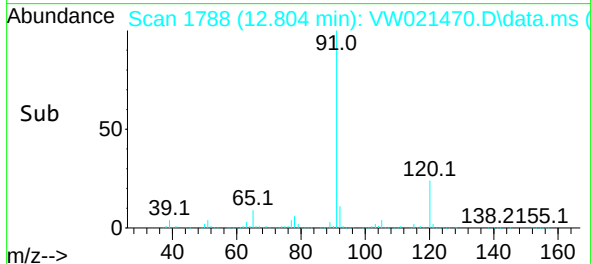
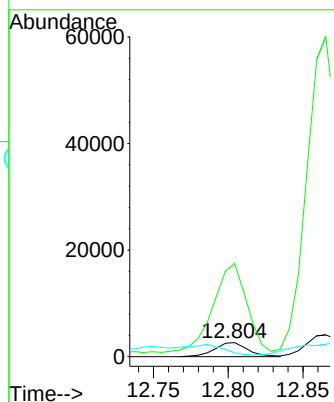
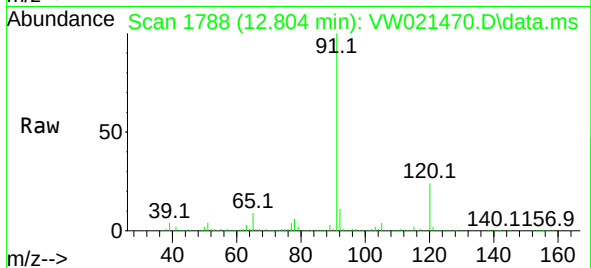




#61
1,2,3-Trichloropropane
Concen: 3.186 ug/L
RT: 12.804 min Scan# 11
Delta R.T. 0.036 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

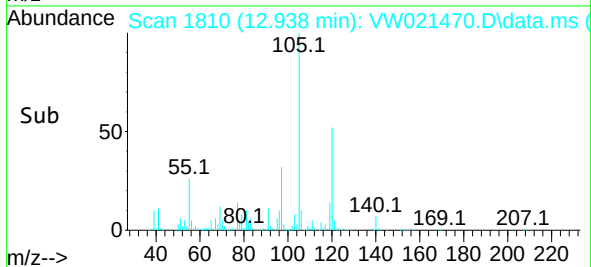
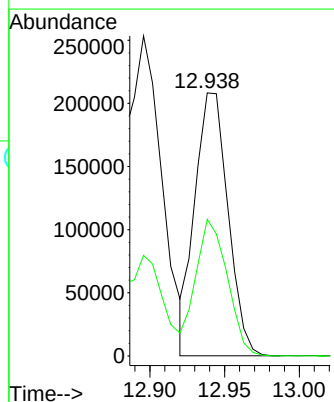
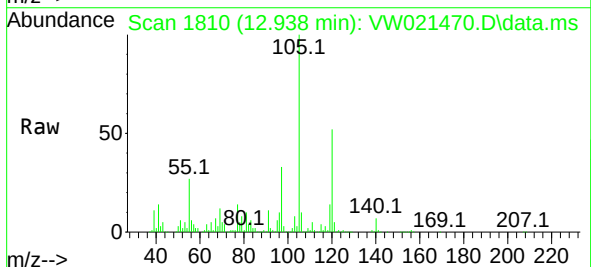
Instrument :
MSVOA_W
ClientSampleId :

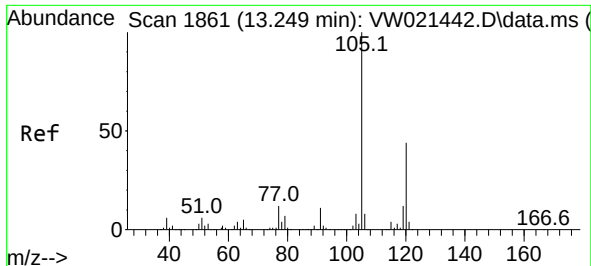
Tgt Ion: 75 Resp: 4066
Ion Ratio Lower Upper
75 100
77 649.8 25.8 38.8#
110 61.9 29.0 43.4#



#62
1,3,5-Trimethylbenzene
Concen: 31.539 ug/L
RT: 12.938 min Scan# 1810
Delta R.T. -0.000 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

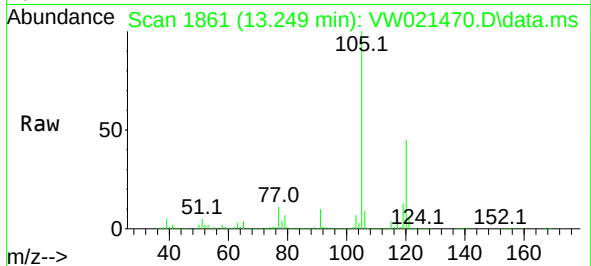
Tgt Ion: 105 Resp: 319759
Ion Ratio Lower Upper
105 100
120 49.7 37.4 56.2



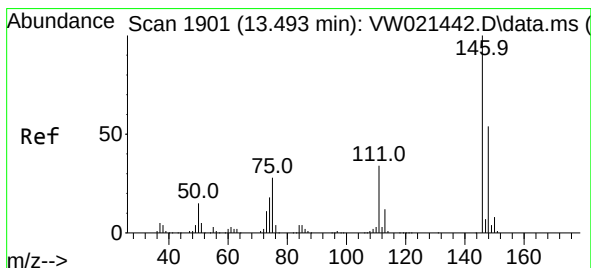
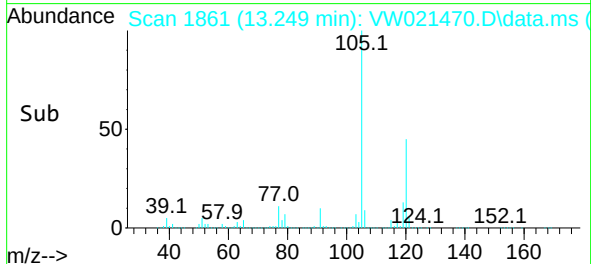
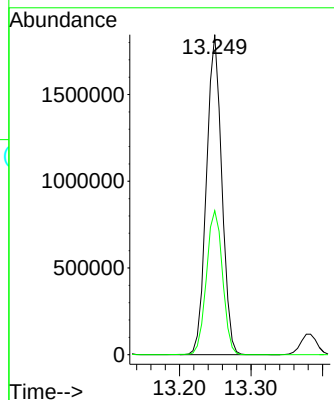


#63
1,2,4-Trimethylbenzene
Concen: 274.185 ug/L
RT: 13.249 min Scan# 1861
Delta R.T. -0.000 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Instrument :
MSVOA_W
ClientSampleId :

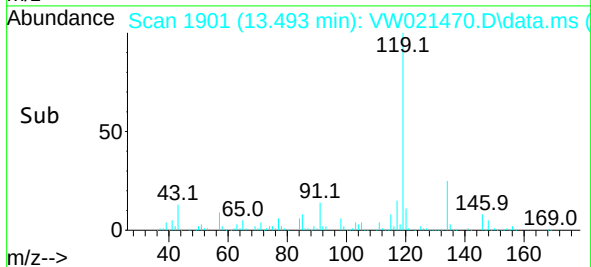
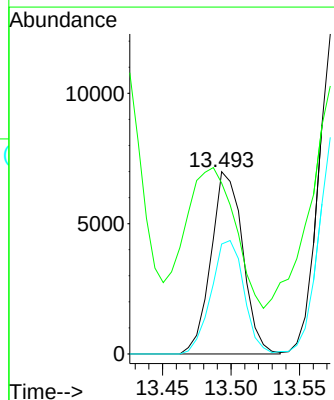
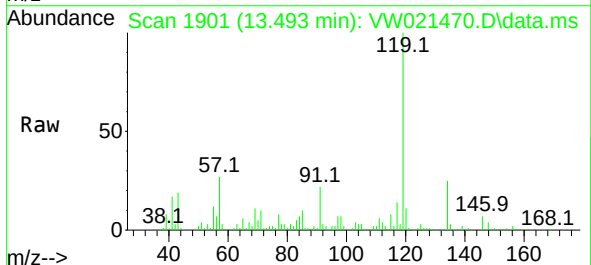


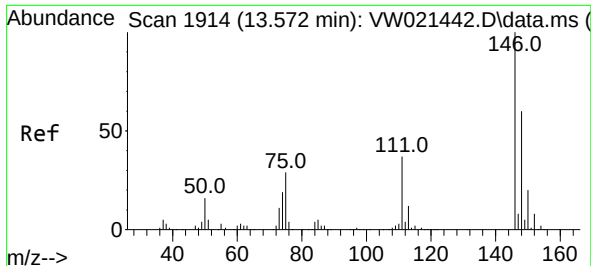
Tgt Ion:105 Resp: 2742189
Ion Ratio Lower Upper
105 100
120 47.2 35.0 52.6



#64
1,3-Dichlorobenzene
Concen: 2.009 ug/L
RT: 13.493 min Scan# 1901
Delta R.T. -0.000 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Tgt Ion:146 Resp: 11290
Ion Ratio Lower Upper
146 100
111 93.7 29.8 55.3#
148 60.3 46.2 85.8

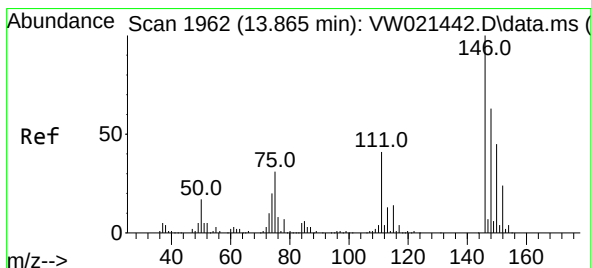
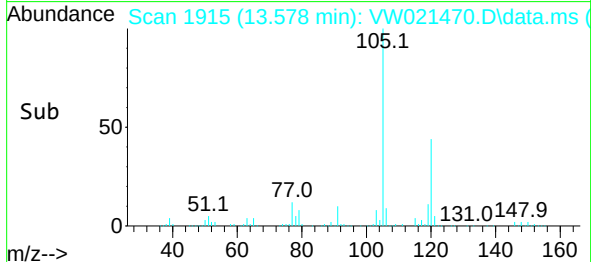
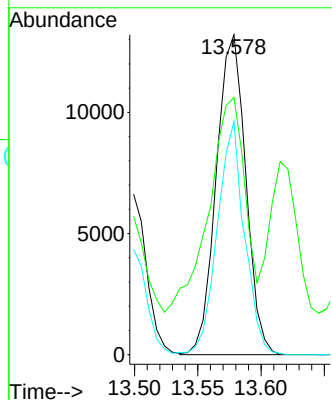
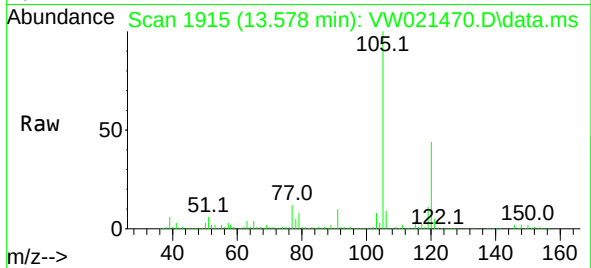




#65
1,4-Dichlorobenzene
Concen: 3.827 ug/L
RT: 13.578 min Scan# 1914
Delta R.T. 0.006 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

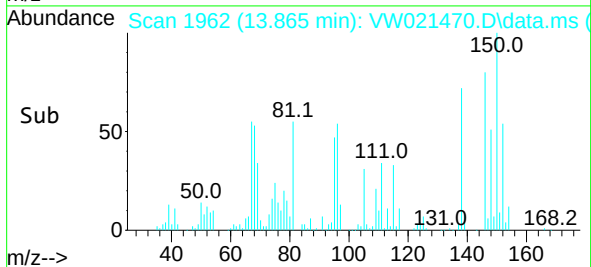
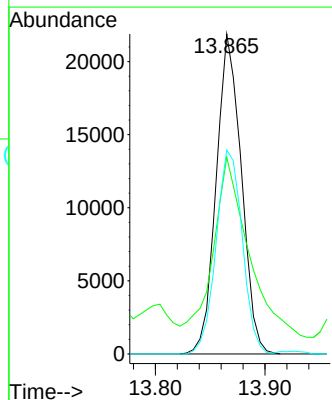
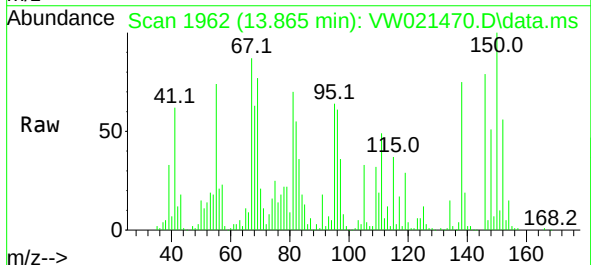
Instrument :
MSVOA_W
ClientSampleId :

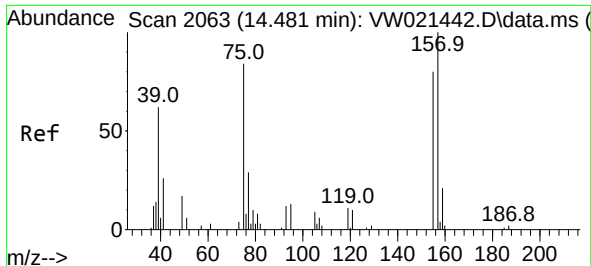
Tgt Ion:146 Resp: 21369
Ion Ratio Lower Upper
146 100
111 80.3 29.0 53.9#
148 72.9 46.9 87.1



#67
1,2-Dichlorobenzene
Concen: 7.034 ug/L
RT: 13.865 min Scan# 1962
Delta R.T. -0.000 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Tgt Ion:146 Resp: 34801
Ion Ratio Lower Upper
146 100
111 61.4 33.1 49.7#
148 63.8 47.4 71.2





#68

1,2-Dibromo-3-chloropropane

Concen: 14.786 ug/L

RT: 14.456 min Scan# 2063

Delta R.T. -0.024 min

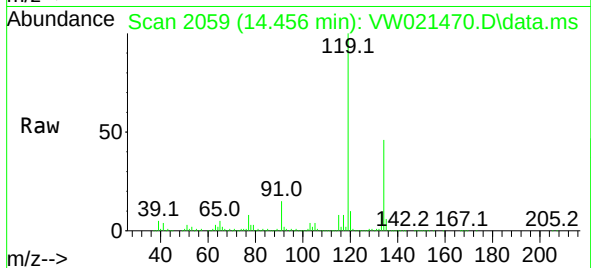
Lab File: VW021470.D

Acq: 18 Dec 2021 12:41

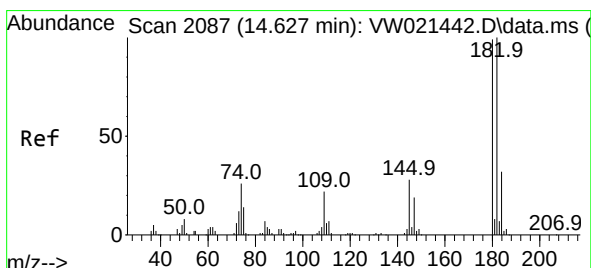
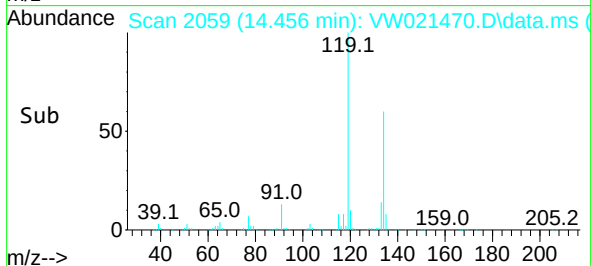
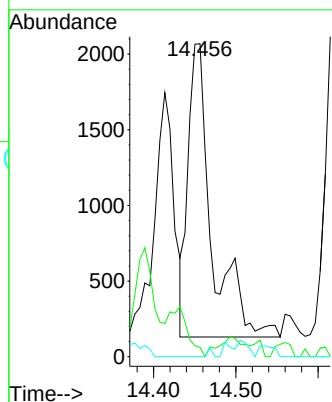
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	75	Resp:	3892
Ion Ratio	Lower	Upper	
75	100		
155	3.0	54.2	81.2#
157	0.0	69.4	104.2#



#69

1,3,5-Trichlorobenzene

Concen: 6.842 ug/L

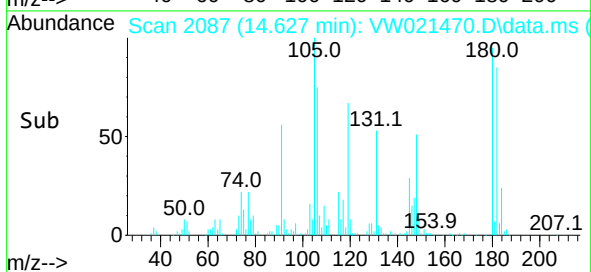
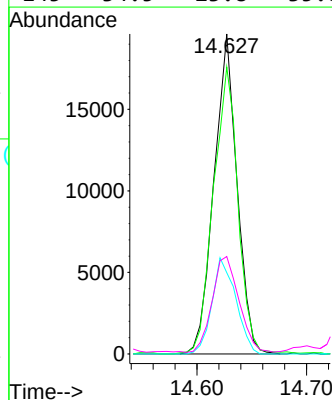
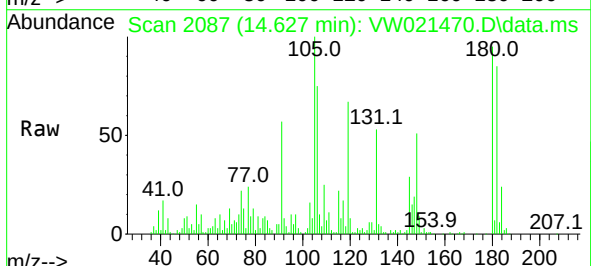
RT: 14.627 min Scan# 2087

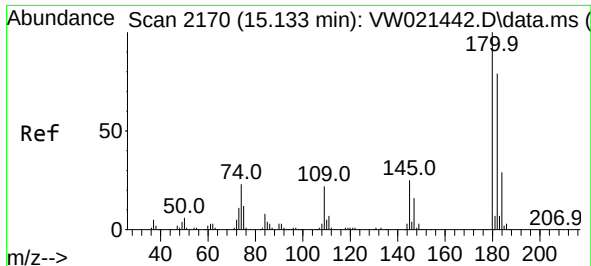
Delta R.T. -0.000 min

Lab File: VW021470.D

Acq: 18 Dec 2021 12:41

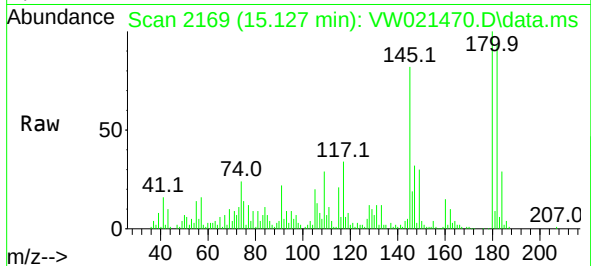
Tgt Ion:	180	Resp:	28737
Ion Ratio	Lower	Upper	
180	100		
182	95.0	75.4	113.0
184	31.0	23.8	35.8
145	34.5	23.8	35.8



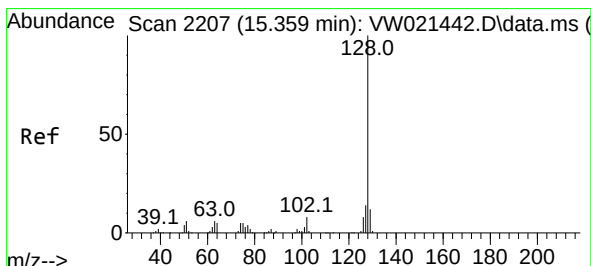
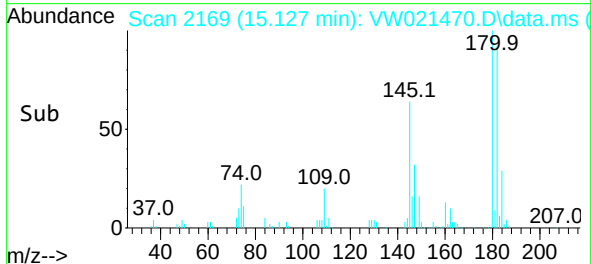
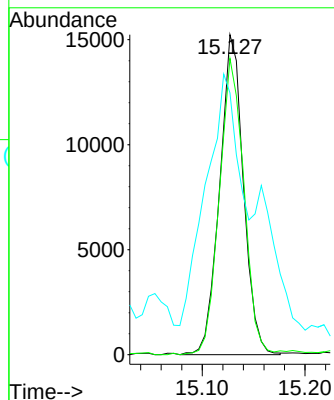


#70
1,2,4-trichlorobenzene
Concen: 7.231 ug/L
RT: 15.127 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:180 Resp: 24429
Ion Ratio Lower Upper
180 100
182 95.4 79.0 118.6
145 120.8 26.0 39.0#



#71
Naphthalene
Concen: 866.081 ug/L
RT: 15.365 min Scan# 2208
Delta R.T. 0.006 min
Lab File: VW021470.D
Acq: 18 Dec 2021 12:41

Tgt Ion:128 Resp: 4753662
Ion Ratio Lower Upper
128 100
127 13.8 10.7 16.1
129 11.7 8.6 12.8

