

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW070722\
 Data File : VW026683.D
 Acq On : 07 Jul 2022 17:42
 Operator : SY/MD
 Sample : N3601-10
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DBUB5

Quant Time: Jul 08 03:03:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR062322WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jul 08 02:58:15 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.625	114	190777	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	183878	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	102645	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.320	65	63812	4.159	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.200%
7) Chloroethane-d5	1.581	69	51939	4.214	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.200%
11) 1,1-Dichloroethene-d2	2.118	63	82052	3.010	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.200%
20) 2-Butanone-d5	3.928	46	73769	48.362	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.720%
24) Chloroform-d	4.362	84	108547	4.328	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.600%
26) 1,2-Dichloroethane-d4	5.047	65	42799	4.430	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.600%
32) Benzene-d6	5.060	84	201840	3.822	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.400%
36) 1,2-Dichloropropane-d6	6.076	67	63718	4.387	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.800%
41) Toluene-d8	7.320	98	159782	3.364	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.200%#
43) trans-1,3-Dichloroprop...	7.629	79	12586	3.353	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	67.000%
46) 2-Hexanone-d5	8.095	63	62755	43.886	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.780%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	43029	4.529	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.600%
66) 1,2-Dichlorobenzene-d4	11.622	152	70865	4.172	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.253	50	3147	0.198	ug/L	92
5) Vinyl chloride	1.140	62	1467	0.087	ug/L	89
6) Bromomethane	1.536	94	795	0.087	ug/L	95
8) Chloroethane	1.368	64	754309	65.566	ug/L #	56
12) 1,1-Dichloroethene	2.124	96	1311	0.102	ug/L #	1
14) Carbon disulfide	2.304	76	121040	3.561	ug/L	98
18) trans-1,2-Dichloroethene	2.777	96	1566	0.119	ug/L	88
22) cis-1,2-Dichloroethene	3.928	96	12816	0.982	ug/L	97
27) 1,2-Dichloroethane	5.108	62	2921	0.260	ug/L #	72
30) Cyclohexane	4.680	56	3267	0.182	ug/L	91
33) Benzene	5.108	78	363613	6.772	ug/L	100
34) Trichloroethene	5.921	95	35101	2.487	ug/L	97
35) Methylcyclohexane	6.133	83	14101	0.675	ug/L	99
37) 1,2-Dichloropropane	6.076	63	6654	0.514	ug/L #	84
42) Toluene	7.397	91	19580	0.353	ug/L	97
45) 1,1,2-Trichloroethane	7.709	97	3788	0.464	ug/L #	21
47) Tetrachloroethene	7.976	164	29062	2.586	ug/L	98
49) Dibromochloromethane	7.976	129	26247	3.177	ug/L #	11
51) Chlorobenzene	8.883	112	504621	13.899	ug/L	98

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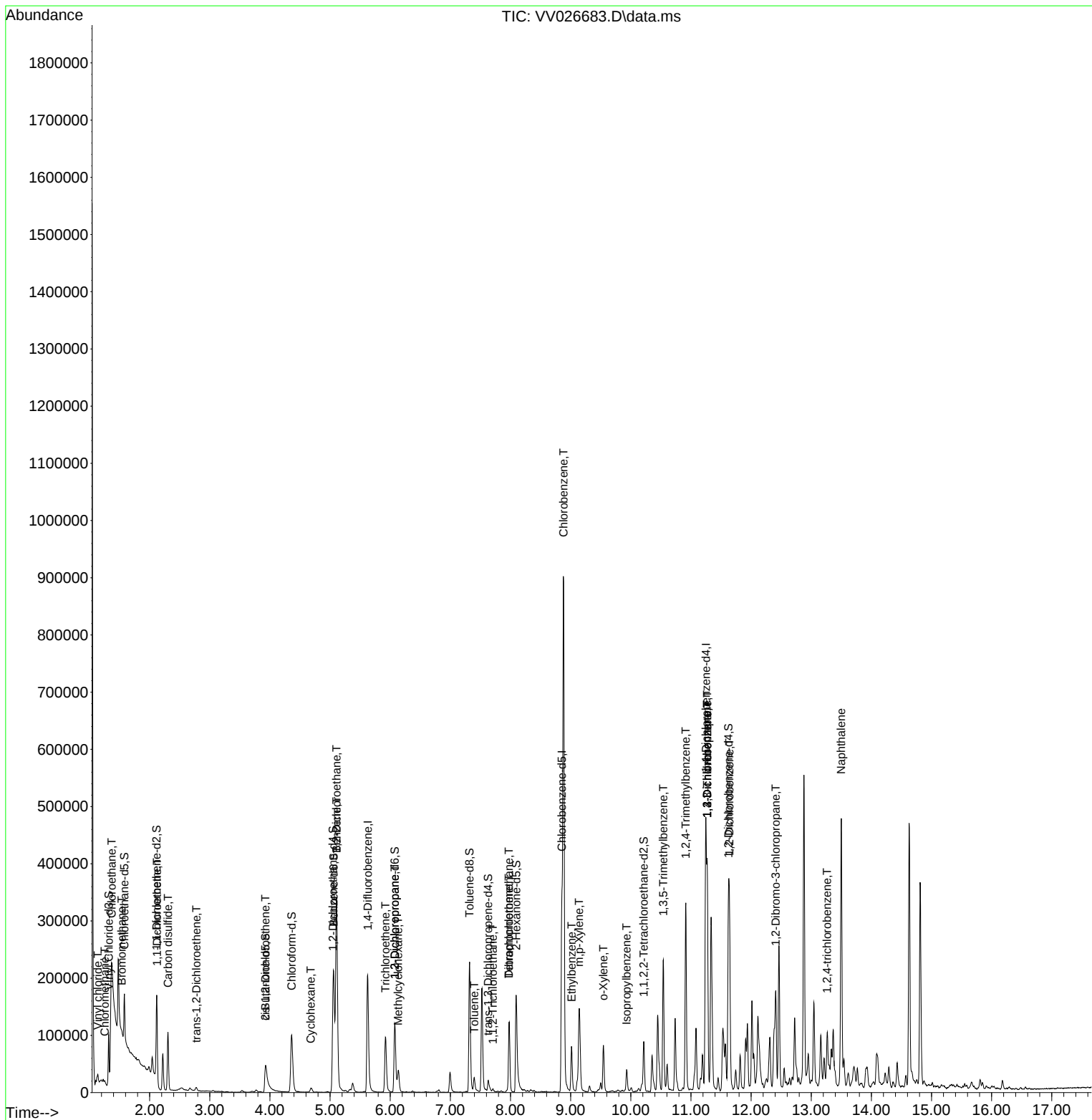
Quant Time: Jul 08 03:03:16 2022
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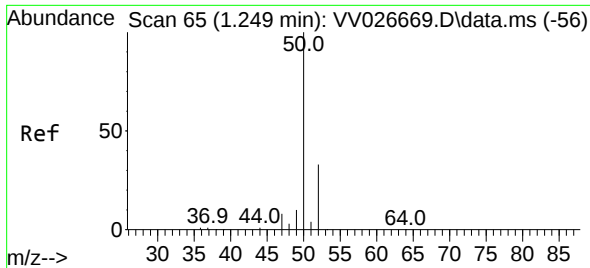
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

52) Ethylbenzene	9.014	91	53782	0.938	ug/L	97
53) m,p-Xylene	9.140	106	33800	1.512	ug/L	96
54) o-Xylene	9.545	106	21803	1.039	ug/L	100
60) Isopropylbenzene	9.931	105	23343	0.369	ug/L #	86
61) 1,2,3-Trichloropropane	11.272	75	54042	8.131	ug/L #	47
62) 1,3,5-Trimethylbenzene	10.538	105	88460	1.768	ug/L	99
63) 1,2,4-Trimethylbenzene	10.915	105	176890	3.585	ug/L	99
64) 1,3-Dichlorobenzene	11.272	146	156575	5.085	ug/L	97
65) 1,4-Dichlorobenzene	11.272	146	156575	5.121	ug/L	99
67) 1,2-Dichlorobenzene	11.641	146	57837	2.208	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.410	75	624	0.523	ug/L #	11
70) 1,2,4-trichlorobenzene	13.262	180	4757	0.304	ug/L #	75
71) Naphthalene	13.500	128	363192	17.807	ug/L	99

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

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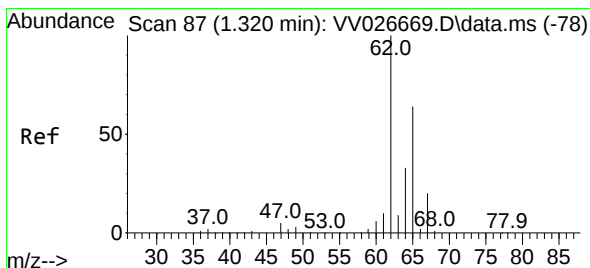
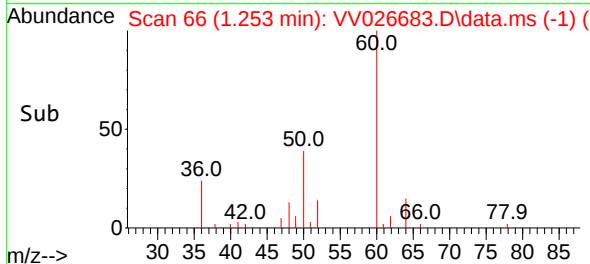
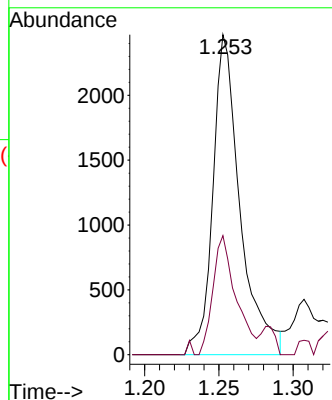
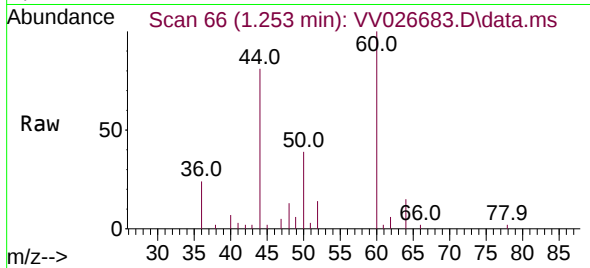




#3
Chloromethane
Concen: 0.198 ug/L
RT: 1.253 min Scan# 60
Delta R.T. 0.003 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

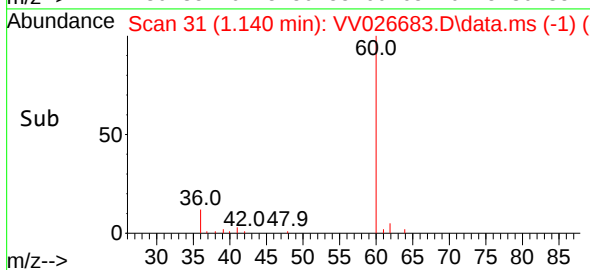
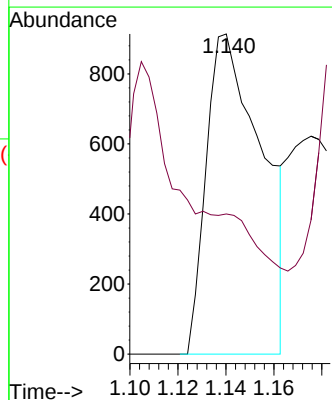
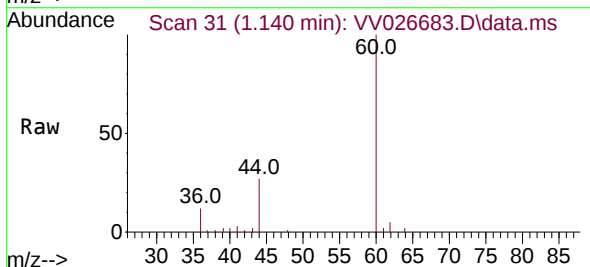
Instrument :
MSVOA_V
ClientSampleId :
DBUB5

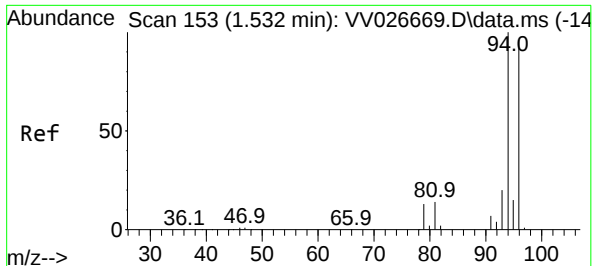
Tgt Ion: 50 Resp: 3147
Ion Ratio Lower Upper
50 100
52 37.2 23.0 42.6



#5
Vinyl chloride
Concen: 0.087 ug/L
RT: 1.140 min Scan# 31
Delta R.T. -0.180 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

Tgt Ion: 62 Resp: 1467
Ion Ratio Lower Upper
62 100
64 43.8 26.2 48.6

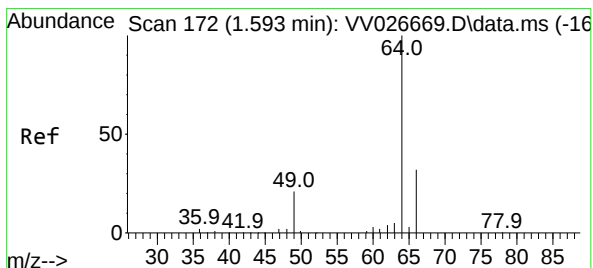
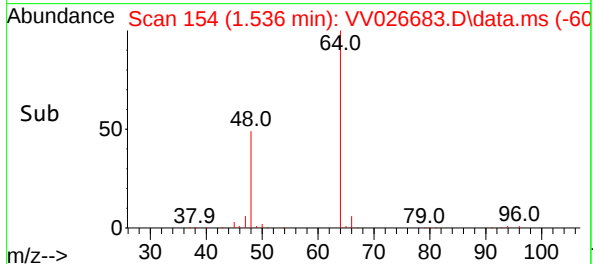
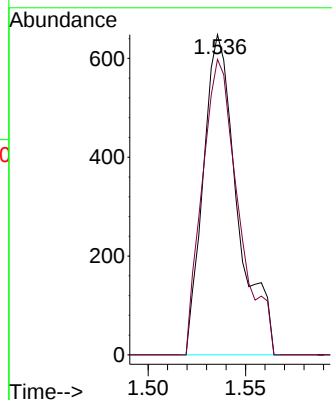
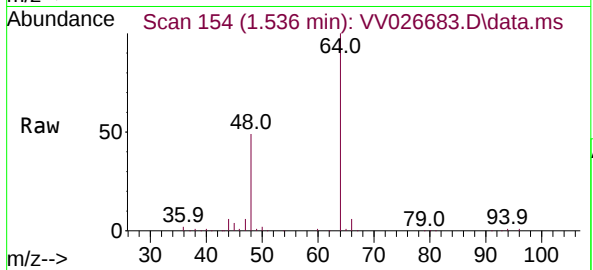




#6
Bromomethane
Concen: 0.087 ug/L
RT: 1.536 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

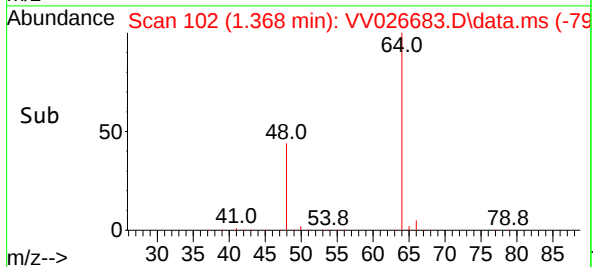
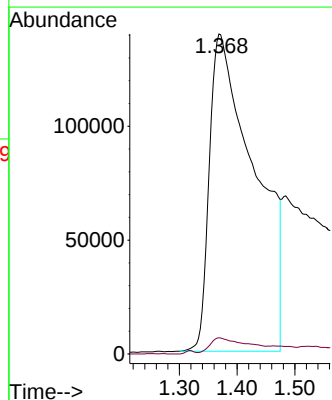
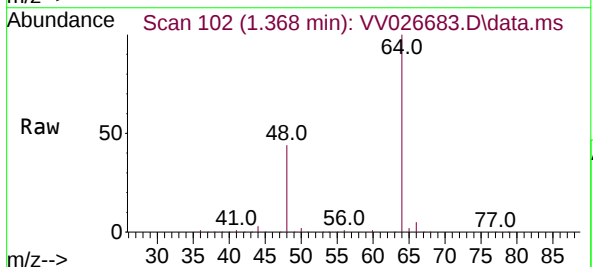
Instrument :
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ClientSampleId :
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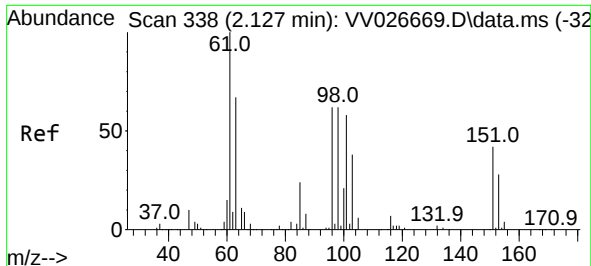
Tgt Ion: 94 Resp: 795
Ion Ratio Lower Upper
94 100
96 92.3 68.0 126.2



#8
Chloroethane
Concen: 65.566 ug/L
RT: 1.368 min Scan# 102
Delta R.T. -0.225 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

Tgt Ion: 64 Resp: 754309
Ion Ratio Lower Upper
64 100
66 5.1 20.0 37.2#

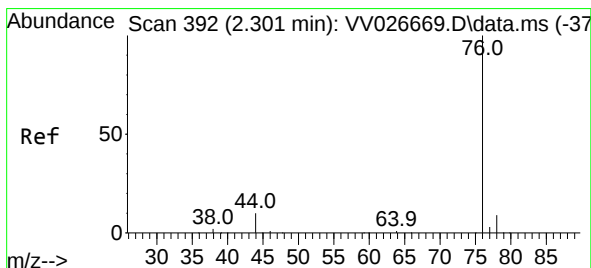
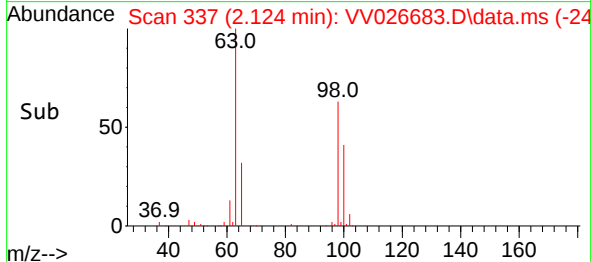
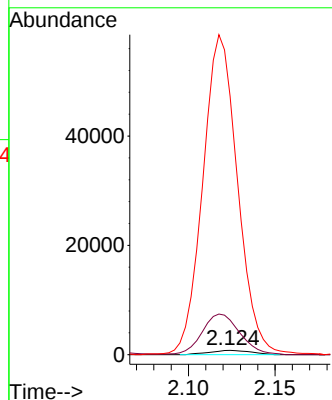
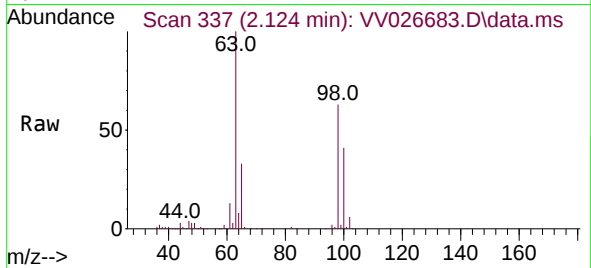




#12
 1,1-Dichloroethene
 Concen: 0.102 ug/L
 RT: 2.124 min Scan# 311
 Delta R.T. -0.003 min
 Lab File: VV026683.D
 Acq: 07 Jul 2022 17:42

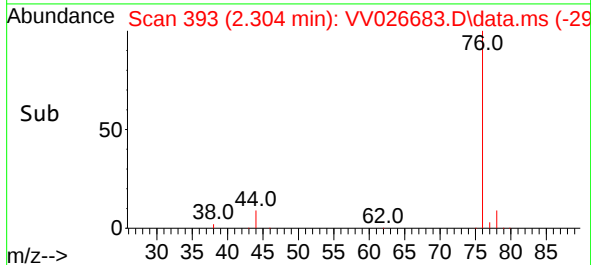
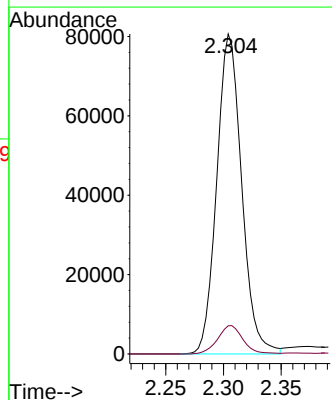
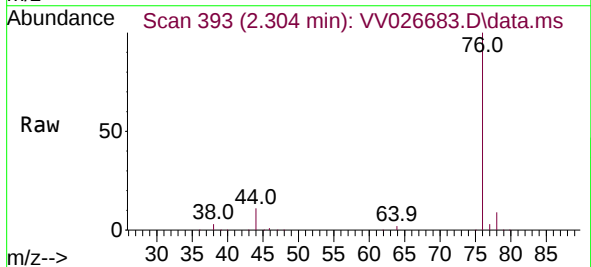
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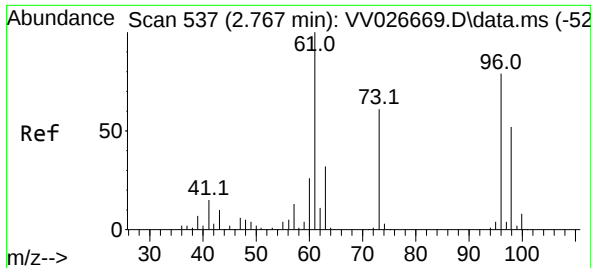
Tgt Ion: 96 Resp: 1311
 Ion Ratio Lower Upper
 96 100
 61 796.1 115.4 214.4#
 63 5942.1 87.4 162.2#



#14
 Carbon disulfide
 Concen: 3.561 ug/L
 RT: 2.304 min Scan# 393
 Delta R.T. 0.003 min
 Lab File: VV026683.D
 Acq: 07 Jul 2022 17:42

Tgt Ion: 76 Resp: 121040
 Ion Ratio Lower Upper
 76 100
 78 8.8 7.8 11.6

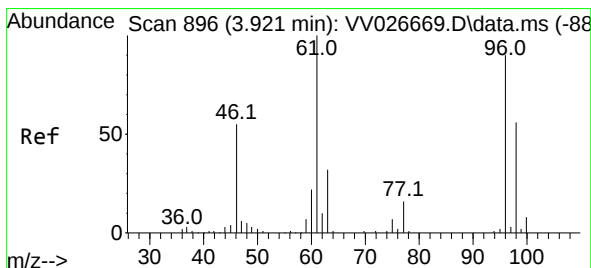
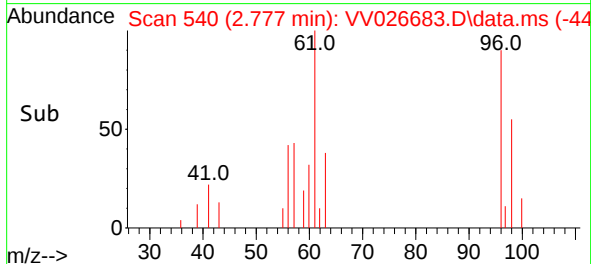
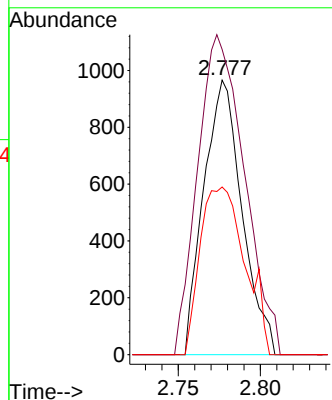
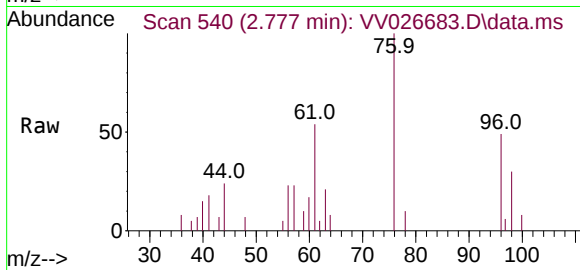




#18
 trans-1,2-Dichloroethene
 Concen: 0.119 ug/L
 RT: 2.777 min Scan# 54
 Delta R.T. 0.010 min
 Lab File: VV026683.D
 Acq: 07 Jul 2022 17:42

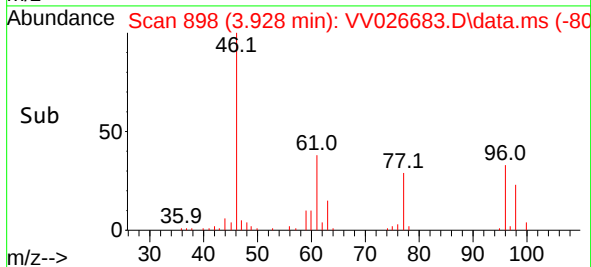
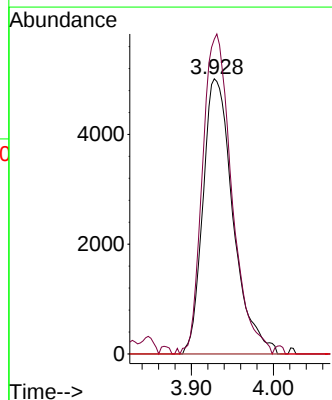
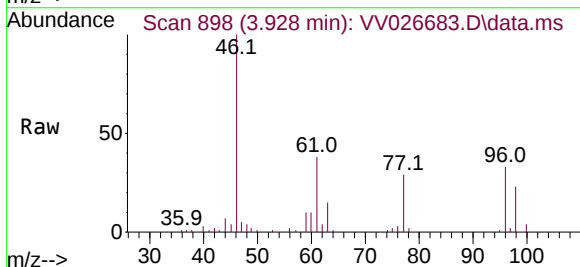
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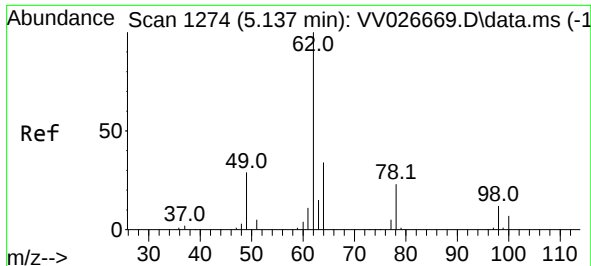
Tgt Ion: 96 Resp: 1566
 Ion Ratio Lower Upper
 96 100
 61 111.2 90.4 167.8
 98 61.1 45.6 84.8



#22
 cis-1,2-Dichloroethene
 Concen: 0.982 ug/L
 RT: 3.928 min Scan# 898
 Delta R.T. 0.006 min
 Lab File: VV026683.D
 Acq: 07 Jul 2022 17:42

Tgt Ion: 96 Resp: 12816
 Ion Ratio Lower Upper
 96 100
 61 114.4 82.0 152.2
 68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.260 ug/L

RT: 5.108 min Scan# 1126

Delta R.T. -0.029 min

Lab File: VV026683.D

Acq: 07 Jul 2022 17:42

Instrument :

MSVOA_V

ClientSampleId :

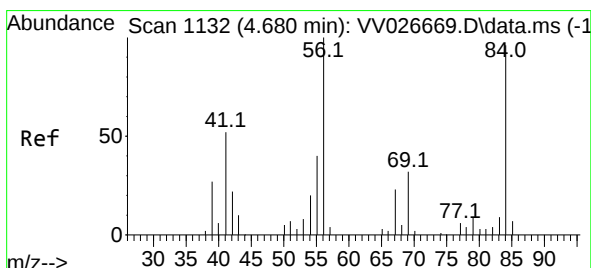
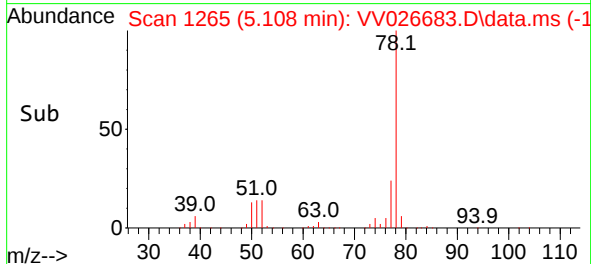
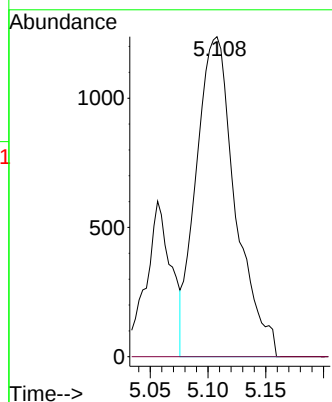
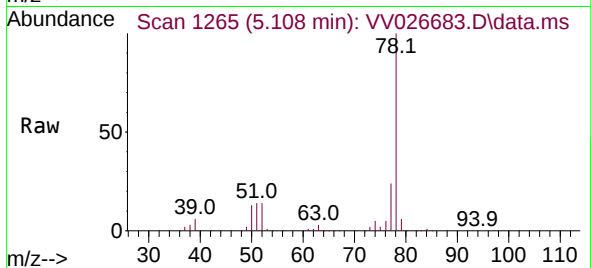
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Tgt Ion: 62 Resp: 2921

Ion Ratio Lower Upper

62 100

98 0.0 8.4 12.6#



#30

Cyclohexane

Concen: 0.182 ug/L

RT: 4.680 min Scan# 1132

Delta R.T. 0.000 min

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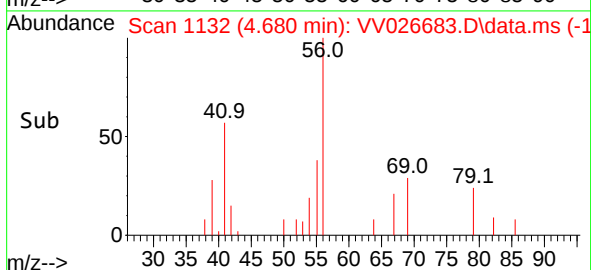
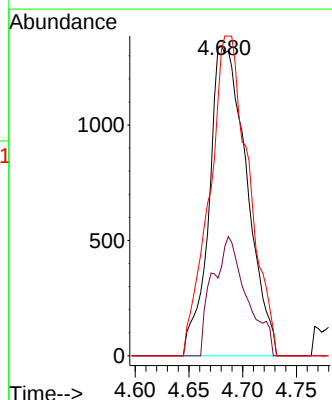
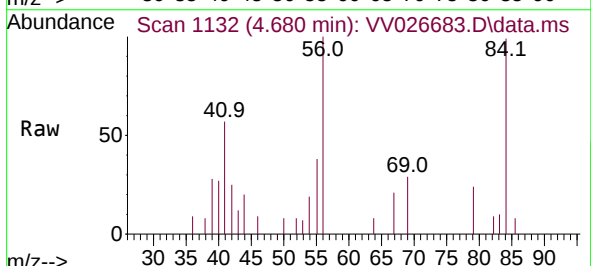
Tgt Ion: 56 Resp: 3267

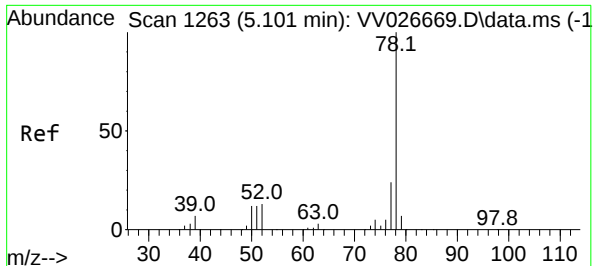
Ion Ratio Lower Upper

56 100

69 34.9 25.4 38.2

84 107.5 77.8 116.6

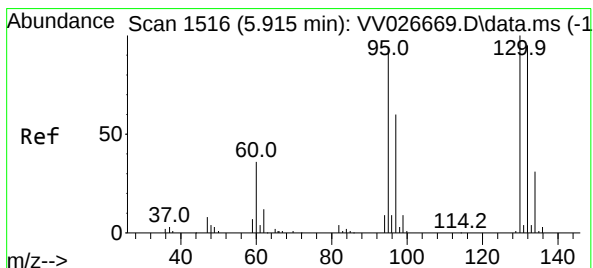
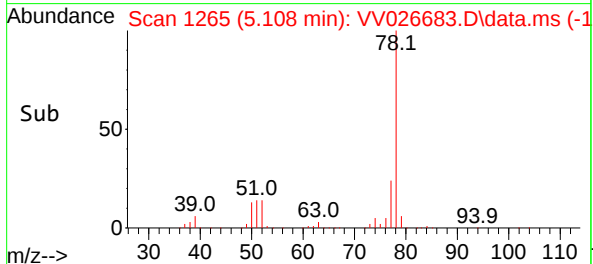
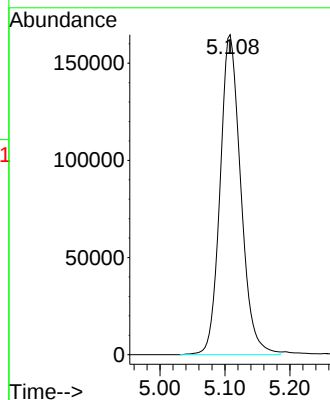
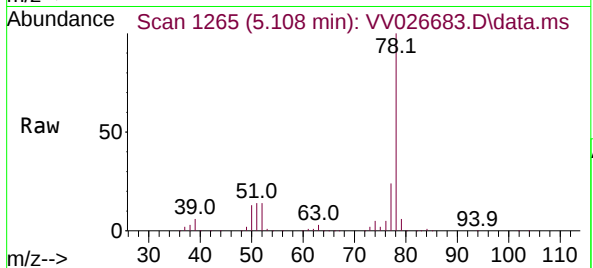




#33
Benzene
Concen: 6.772 ug/L
RT: 5.108 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

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DBUB5

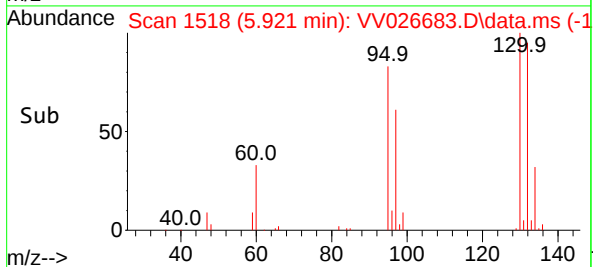
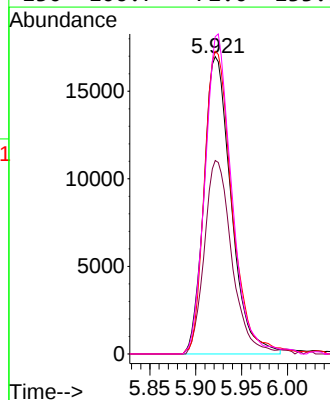
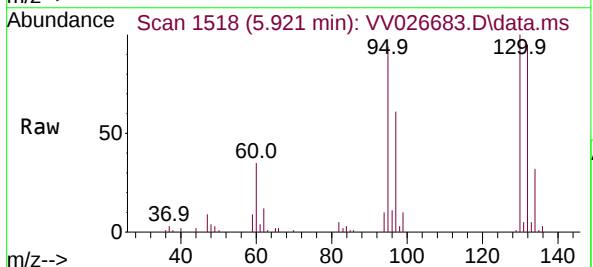
Tgt Ion: 78 Resp: 363613

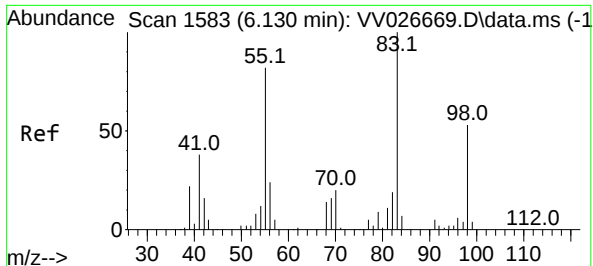


#34
Trichloroethene
Concen: 2.487 ug/L
RT: 5.921 min Scan# 1518
Delta R.T. 0.006 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

Tgt Ion: 95 Resp: 35101

Ion	Ratio	Lower	Upper
95	100		
97	65.1	46.8	87.0
132	101.8	69.9	129.7
130	106.7	72.0	133.8





#35

Methylcyclohexane

Concen: 0.675 ug/L

RT: 6.133 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV026683.D

Acq: 07 Jul 2022 17:42

Instrument :

MSVOA_V

ClientSampleId :

DBUB5

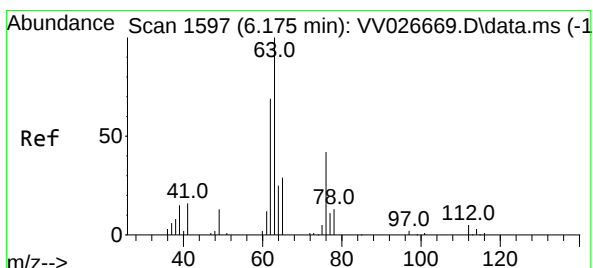
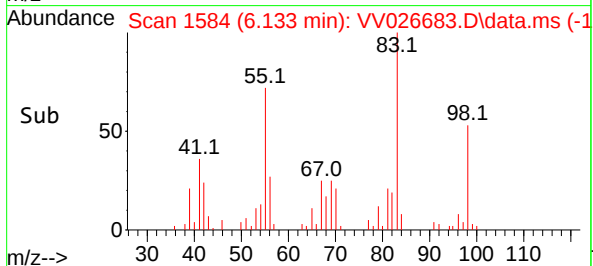
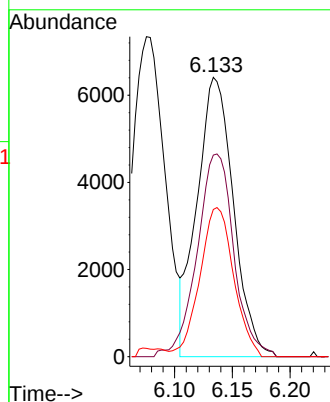
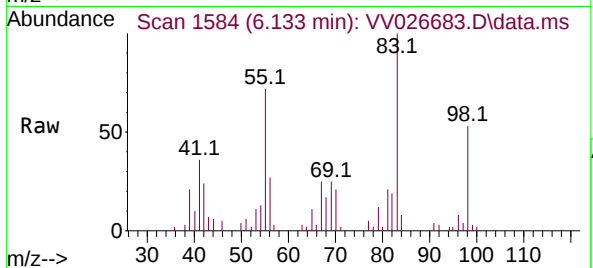
Tgt Ion: 83 Resp: 14101

Ion Ratio Lower Upper

83 100

55 73.0 57.0 85.4

98 49.5 39.8 59.8



#37

1,2-Dichloropropane

Concen: 0.514 ug/L

RT: 6.076 min Scan# 1566

Delta R.T. -0.100 min

Lab File: VV026683.D

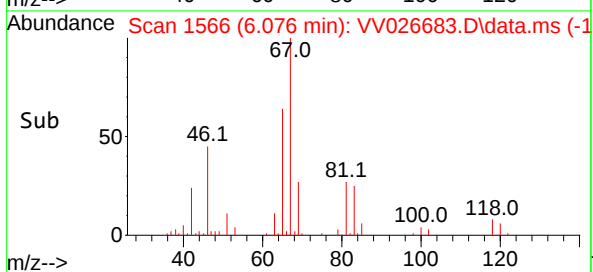
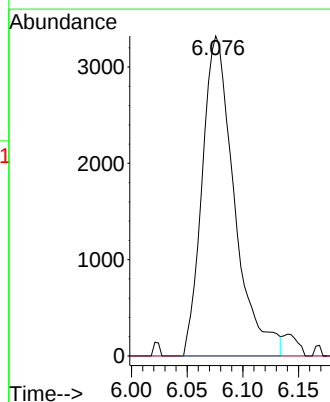
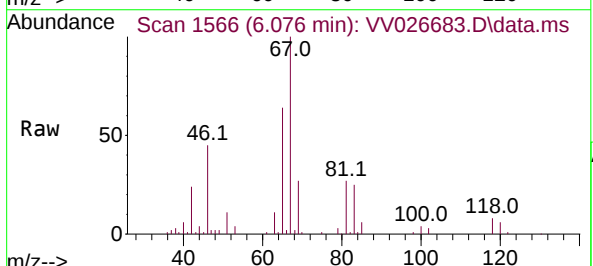
Acq: 07 Jul 2022 17:42

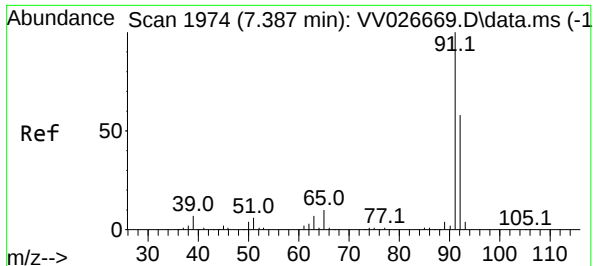
Tgt Ion: 63 Resp: 6654

Ion Ratio Lower Upper

63 100

112 0.0 4.2 6.4#

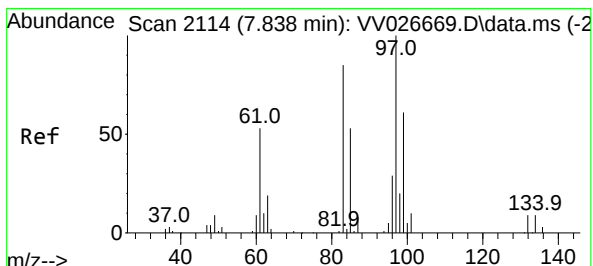
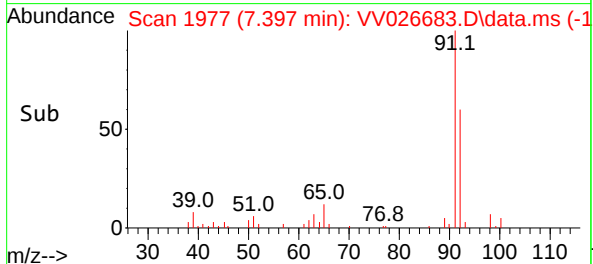
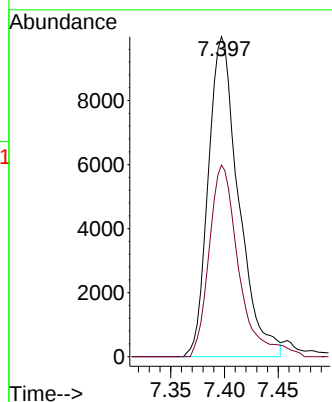
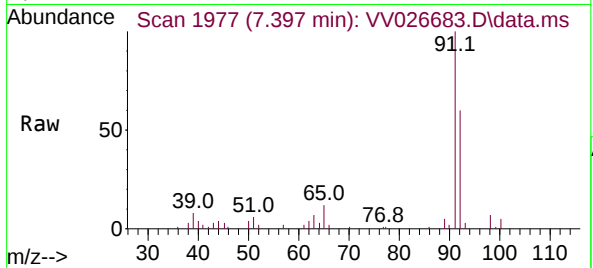




#42
Toluene
Concen: 0.353 ug/L
RT: 7.397 min Scan# 1974
Delta R.T. 0.010 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

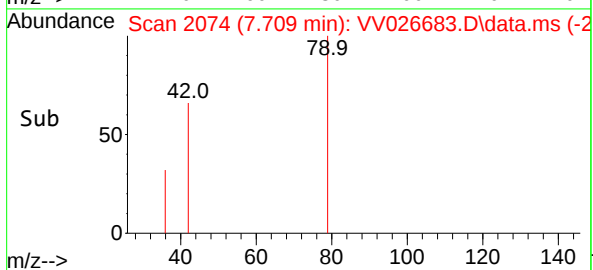
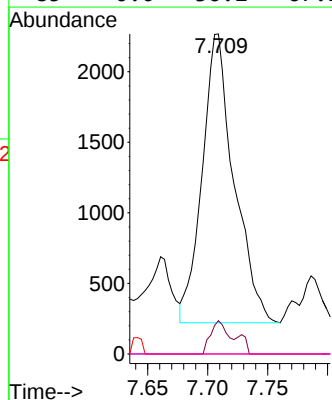
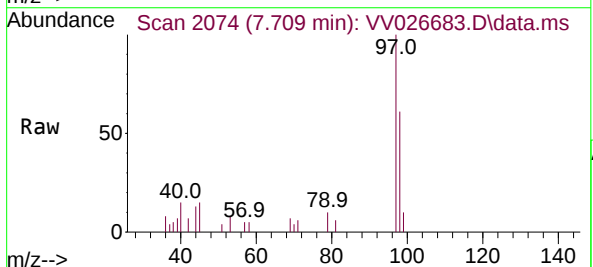
Instrument :
MSVOA_V
ClientSampleId :
DBUB5

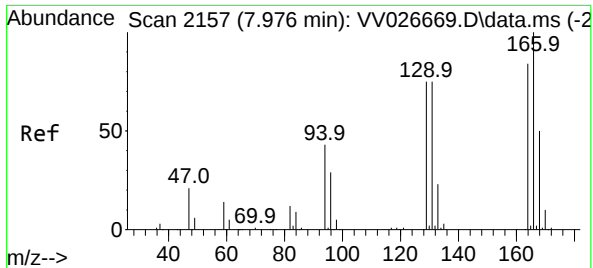
Tgt Ion: 91 Resp: 19580
Ion Ratio Lower Upper
91 100
92 59.9 40.3 74.9



#45
1,1,2-Trichloroethane
Concen: 0.464 ug/L
RT: 7.709 min Scan# 2074
Delta R.T. -0.129 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

Tgt Ion: 97 Resp: 3788
Ion Ratio Lower Upper
97 100
99 10.4 43.4 80.6#
83 0.0 58.0 107.8#
85 0.0 36.2 67.2#





#47

Tetrachloroethene

Concen: 2.586 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. 0.000 min

Lab File: VV026683.D

Acq: 07 Jul 2022 17:42

Instrument :

MSVOA_V

ClientSampleId :

DBUB5

Tgt Ion:164 Resp: 29062

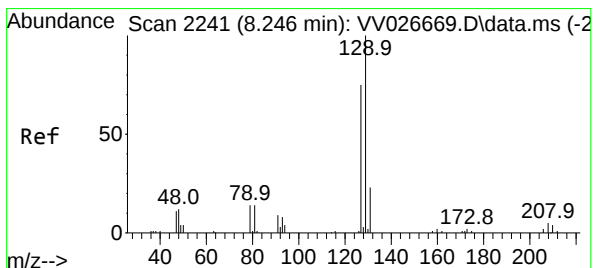
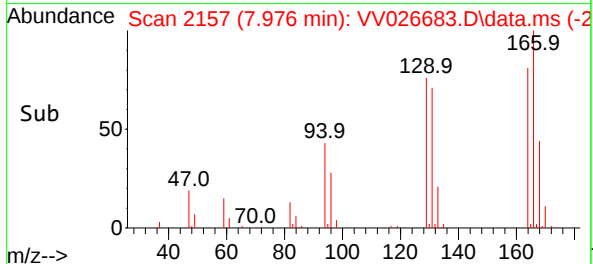
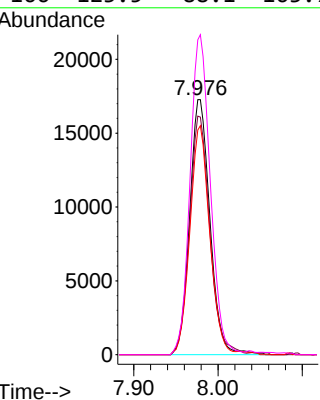
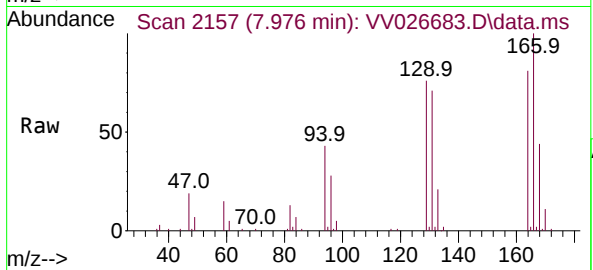
Ion Ratio Lower Upper

164 100

129 93.6 66.4 123.2

131 88.1 64.4 119.6

166 123.5 88.1 163.7



#49

Dibromochloromethane

Concen: 3.177 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.270 min

Lab File: VV026683.D

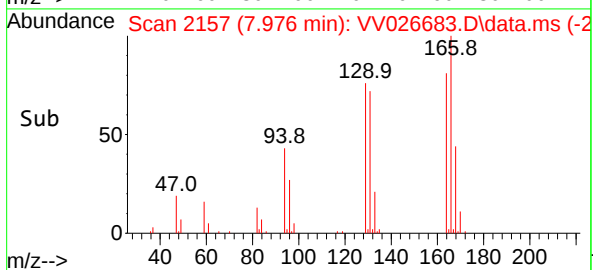
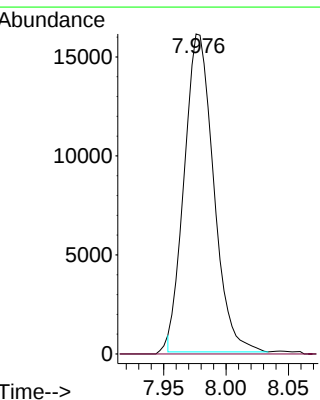
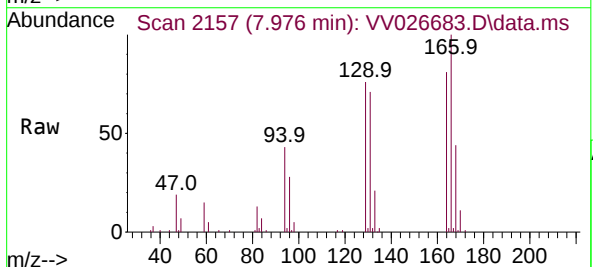
Acq: 07 Jul 2022 17:42

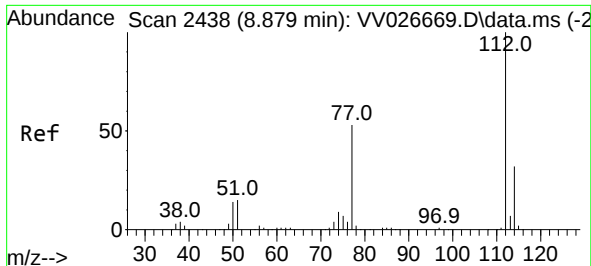
Tgt Ion:129 Resp: 26247

Ion Ratio Lower Upper

129 100

127 0.0 54.2 100.6#





#51

Chlorobenzene

Concen: 13.899 ug/L

RT: 8.883 min Scan# 2438

Delta R.T. 0.003 min

Lab File: VV026683.D

Acq: 07 Jul 2022 17:42

Instrument :

MSVOA_V

ClientSampleId :

DBUB5

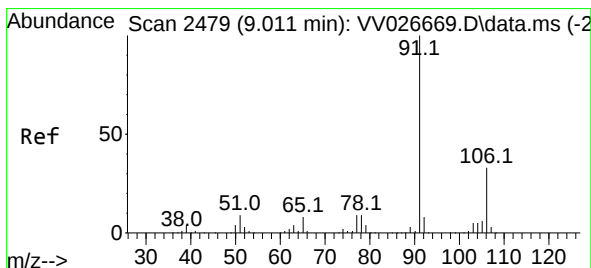
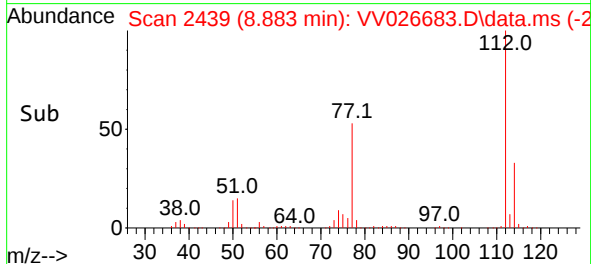
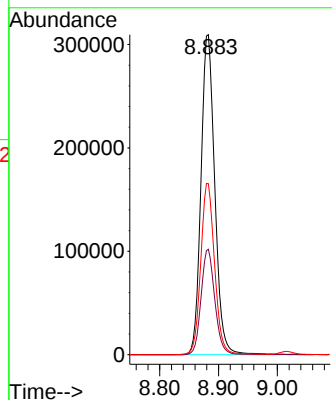
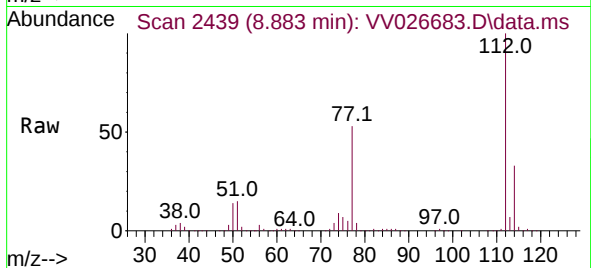
Tgt Ion:112 Resp: 504621

Ion Ratio Lower Upper

112 100

114 33.0 22.3 41.5

77 53.5 44.4 66.6



#52

Ethylbenzene

Concen: 0.938 ug/L

RT: 9.014 min Scan# 2480

Delta R.T. 0.003 min

Lab File: VV026683.D

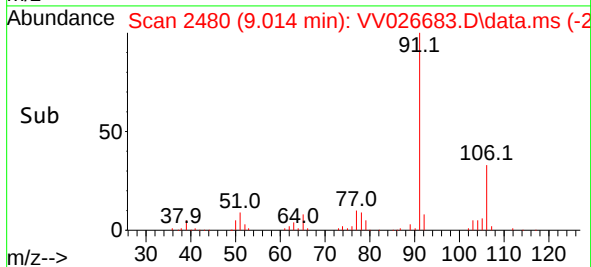
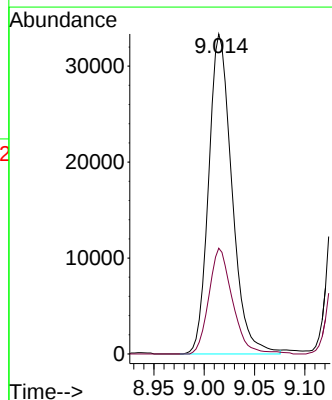
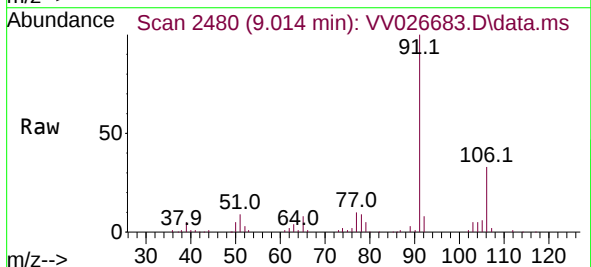
Acq: 07 Jul 2022 17:42

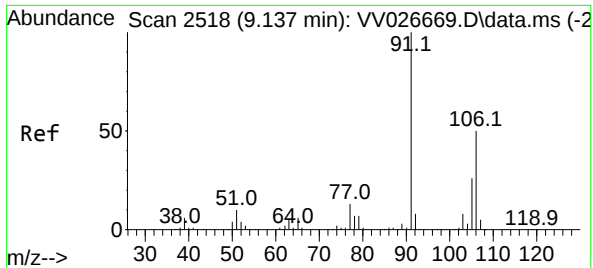
Tgt Ion: 91 Resp: 53782

Ion Ratio Lower Upper

91 100

106 33.0 22.1 41.1

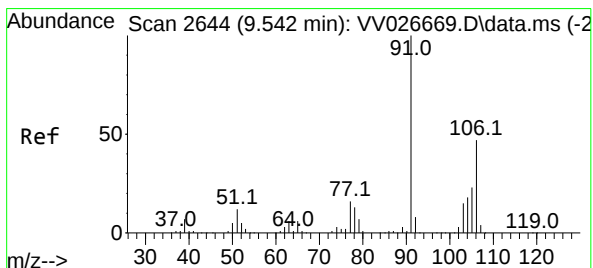
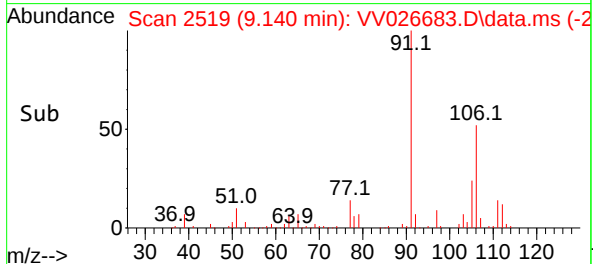
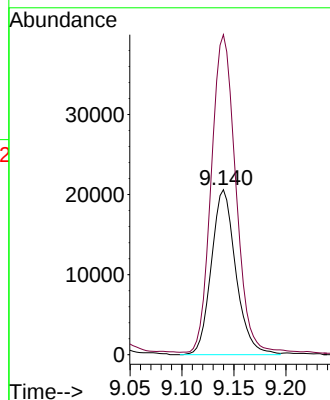
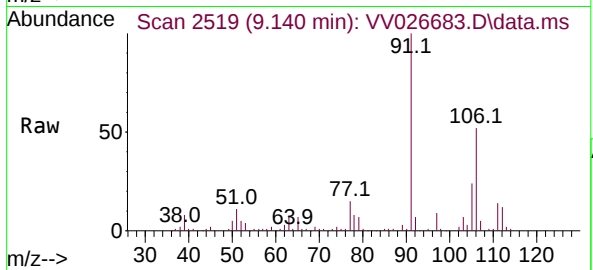




#53
m,p-Xylene
Concen: 1.512 ug/L
RT: 9.140 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

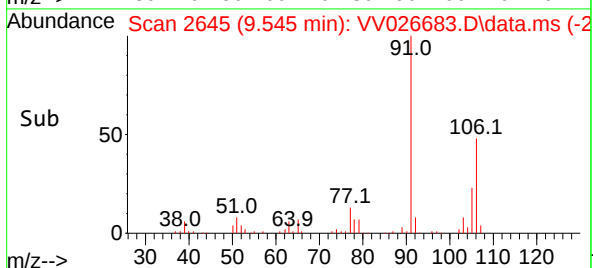
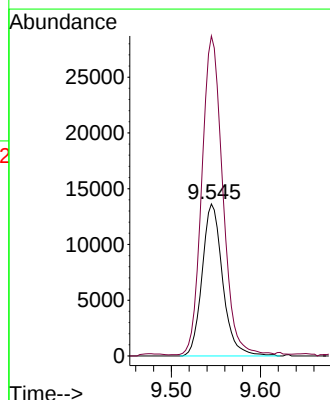
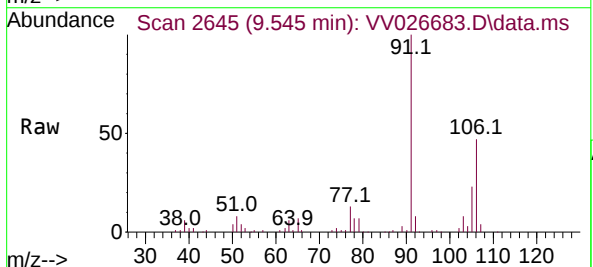
Instrument :
MSVOA_V
ClientSampleId :
DBUB5

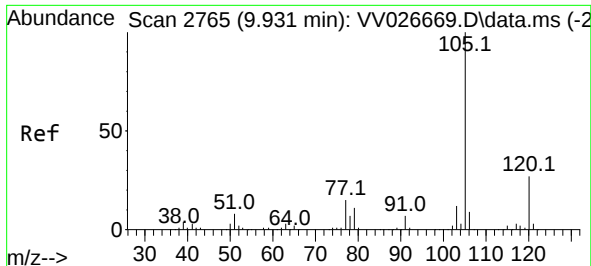
Tgt Ion:106 Resp: 33800
Ion Ratio Lower Upper
106 100
91 193.9 139.9 259.9



#54
o-Xylene
Concen: 1.039 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. 0.003 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

Tgt Ion:106 Resp: 21803
Ion Ratio Lower Upper
106 100
91 210.6 147.5 273.9

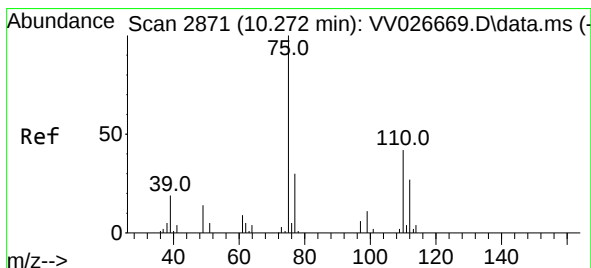
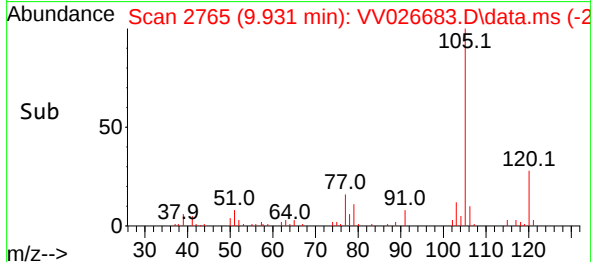
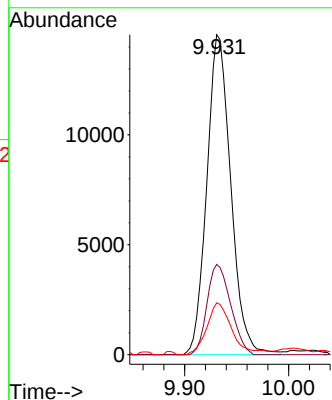
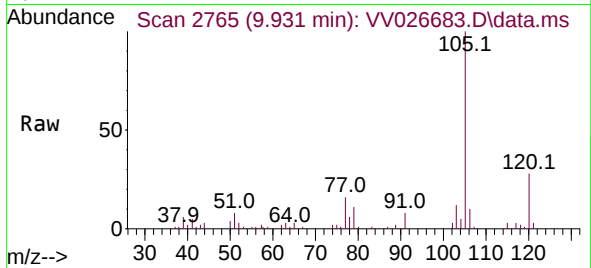




#60
Isopropylbenzene
Concen: 0.369 ug/L
RT: 9.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

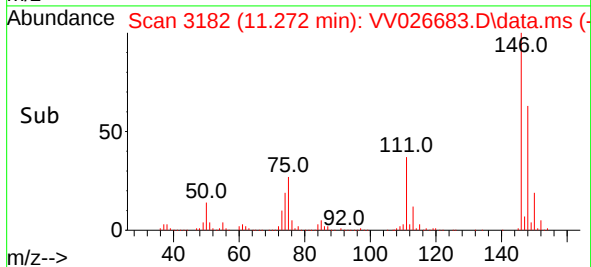
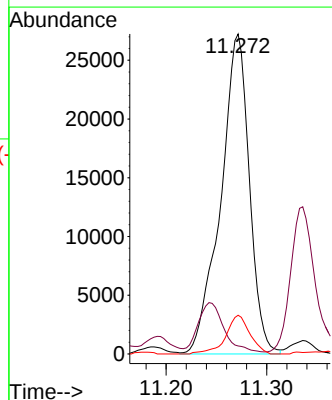
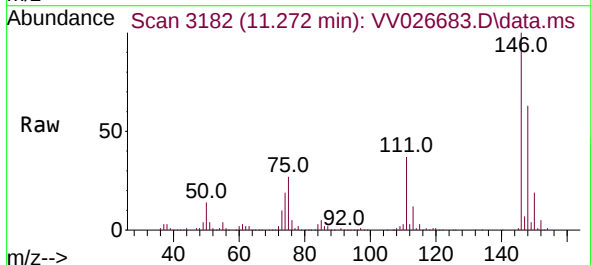
Instrument :
MSVOA_V
ClientSampleId :
DBUB5

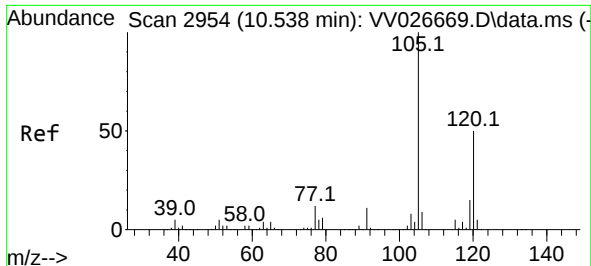
Tgt Ion:105 Resp: 23343
Ion Ratio Lower Upper
105 100
120 27.7 21.4 32.2
77 0.0 11.6 17.4#



#61
1,2,3-Trichloropropane
Concen: 8.131 ug/L
RT: 11.272 min Scan# 3182
Delta R.T. 1.000 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

Tgt Ion: 75 Resp: 54042
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#
110 10.1 32.5 48.7#





#62

1,3,5-Trimethylbenzene

Concen: 1.768 ug/L

RT: 10.538 min Scan# 2954

Delta R.T. 0.000 min

Lab File: VV026683.D

Acq: 07 Jul 2022 17:42

Instrument :

MSVOA_V

ClientSampleId :

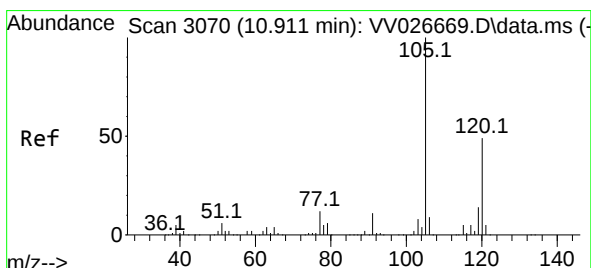
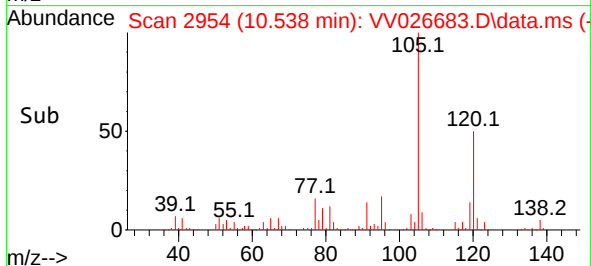
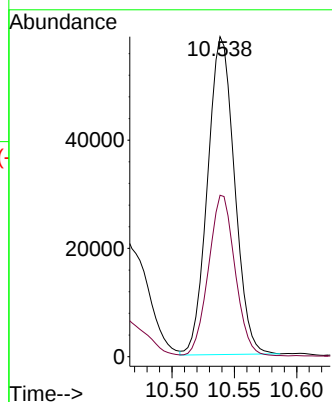
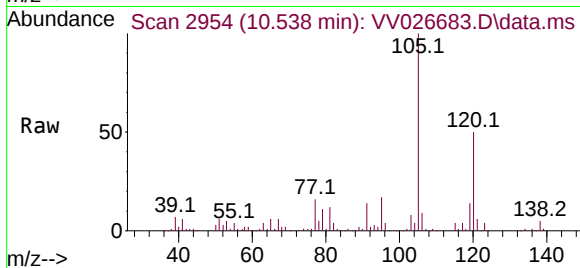
DBUB5

Tgt Ion:105 Resp: 88460

Ion Ratio Lower Upper

105 100

120 49.9 39.6 59.4



#63

1,2,4-Trimethylbenzene

Concen: 3.585 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.003 min

Lab File: VV026683.D

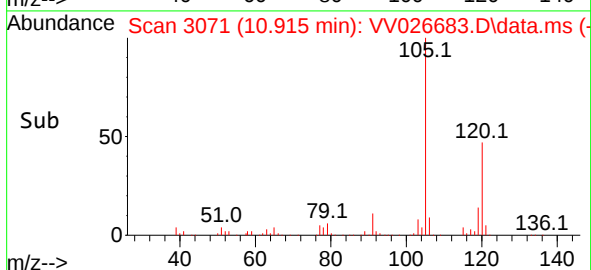
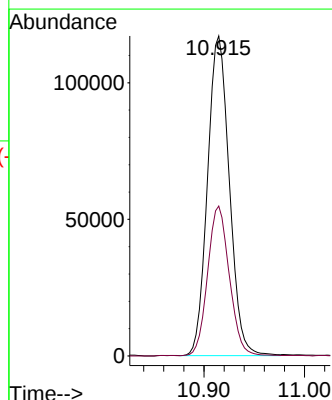
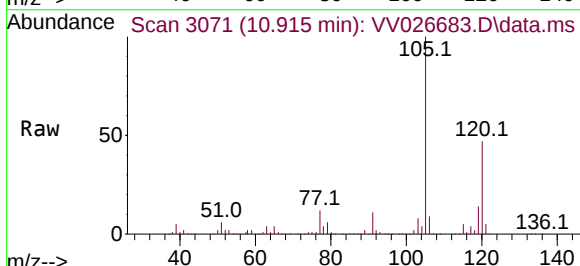
Acq: 07 Jul 2022 17:42

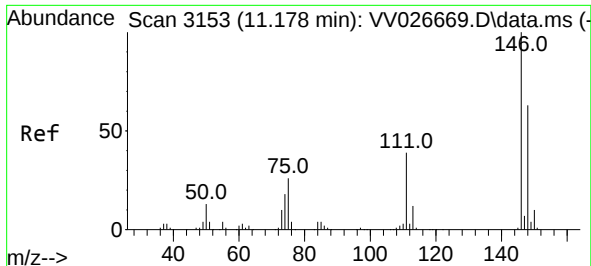
Tgt Ion:105 Resp: 176890

Ion Ratio Lower Upper

105 100

120 46.2 37.4 56.2

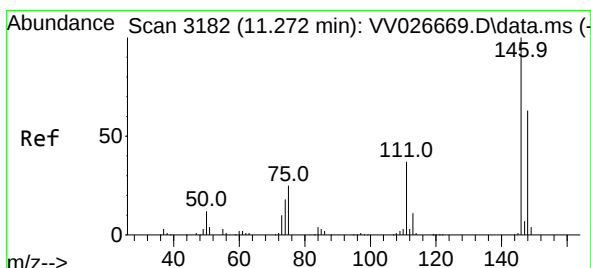
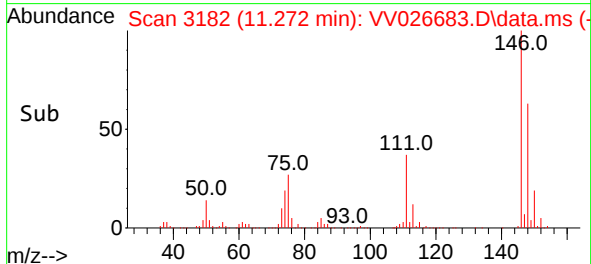
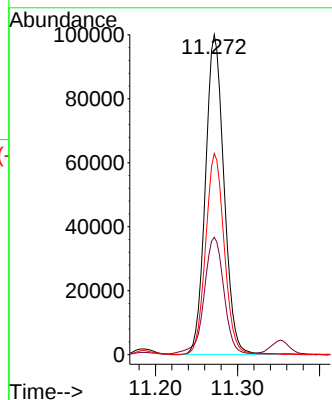
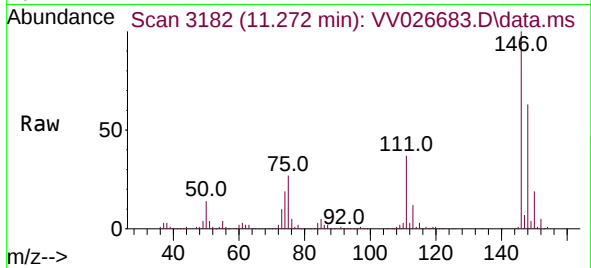




#64
1,3-Dichlorobenzene
Concen: 5.085 ug/L
RT: 11.272 min Scan# 3153
Delta R.T. 0.093 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

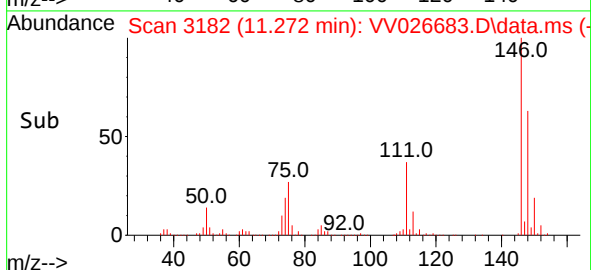
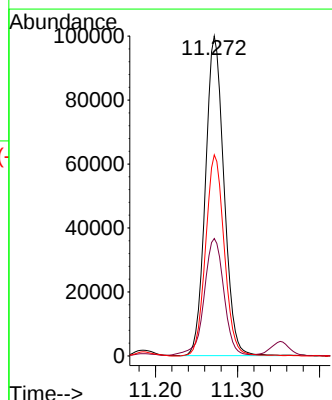
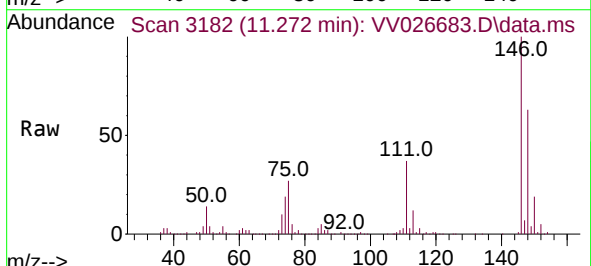
Instrument :
MSVOA_V
ClientSampleId :
DBUB5

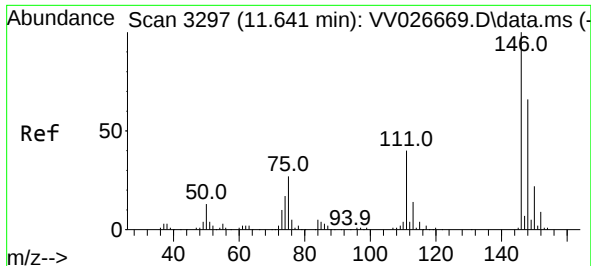
Tgt Ion:146 Resp: 156575
Ion Ratio Lower Upper
146 100
111 36.7 27.9 51.7
148 62.9 44.6 82.8



#65
1,4-Dichlorobenzene
Concen: 5.121 ug/L
RT: 11.272 min Scan# 3182
Delta R.T. -0.000 min
Lab File: VV026683.D
Acq: 07 Jul 2022 17:42

Tgt Ion:146 Resp: 156575
Ion Ratio Lower Upper
146 100
111 36.7 26.5 49.3
148 62.9 43.7 81.1





#67

1,2-Dichlorobenzene

Concen: 2.208 ug/L

RT: 11.641 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV026683.D

Acq: 07 Jul 2022 17:42

Instrument :

MSVOA_V

ClientSampleId :

DBUB5

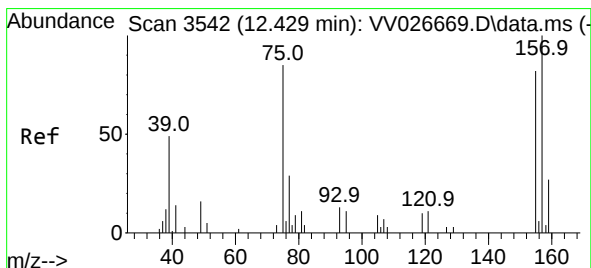
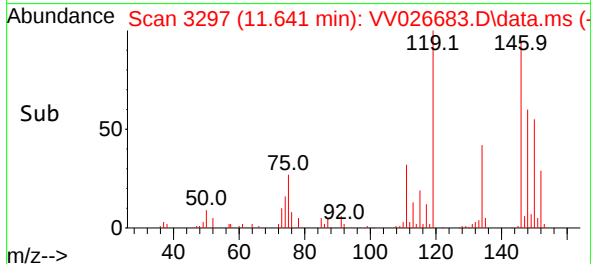
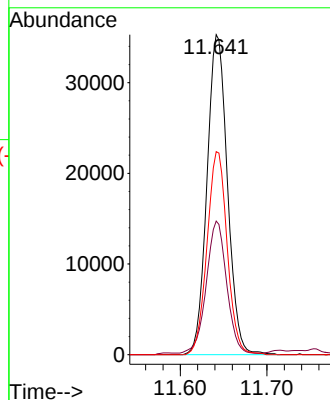
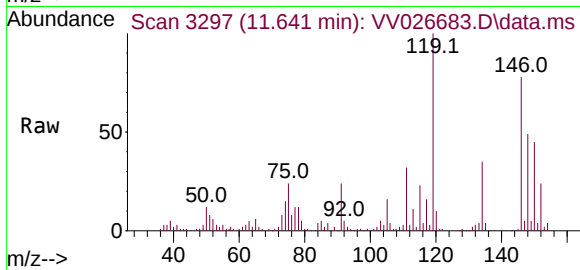
Tgt Ion:146 Resp: 57837

Ion Ratio Lower Upper

146 100

111 41.7 32.8 49.2

148 63.4 51.7 77.5



#68

1,2-Dibromo-3-chloropropane

Concen: 0.523 ug/L

RT: 12.410 min Scan# 3536

Delta R.T. -0.019 min

Lab File: VV026683.D

Acq: 07 Jul 2022 17:42

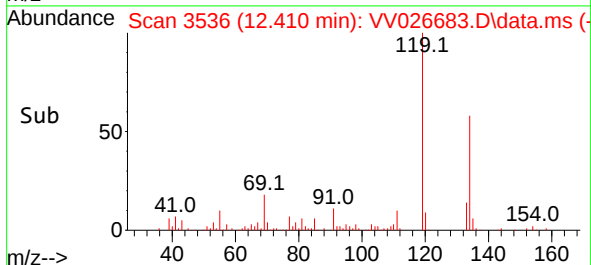
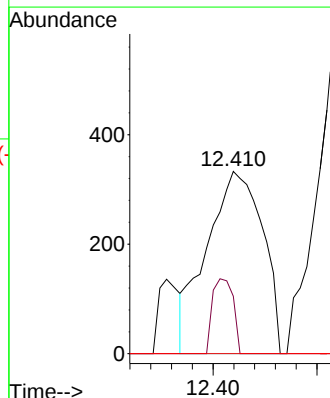
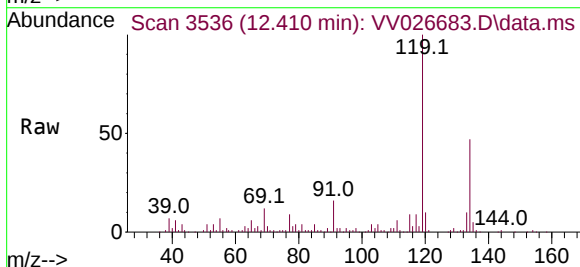
Tgt Ion: 75 Resp: 624

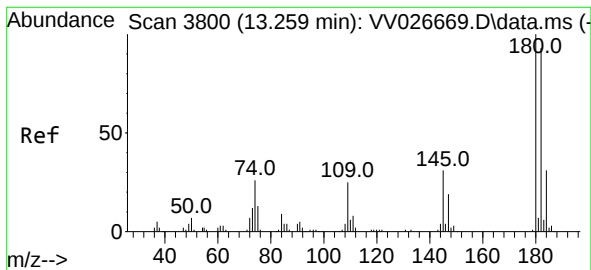
Ion Ratio Lower Upper

75 100

155 31.5 74.7 112.1#

157 0.0 96.9 145.3#





#70

1,2,4-trichlorobenzene

Concen: 0.304 ug/L

RT: 13.262 min Scan# 3801

Delta R.T. 0.003 min

Lab File: VV026683.D

Acq: 07 Jul 2022 17:42

Instrument :

MSVOA_V

ClientSampleId :

DBUB5

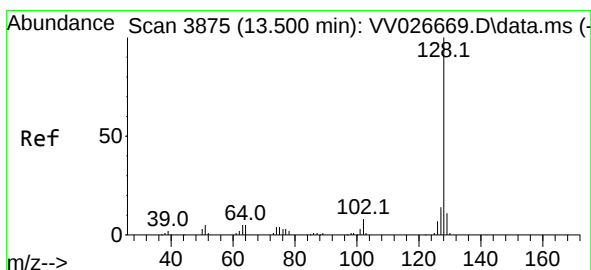
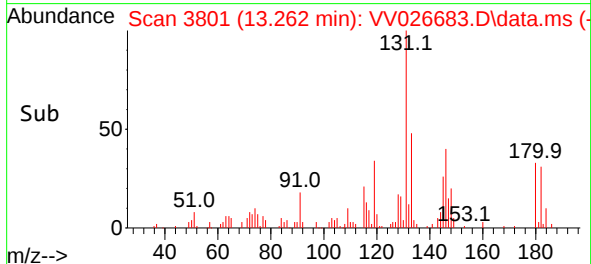
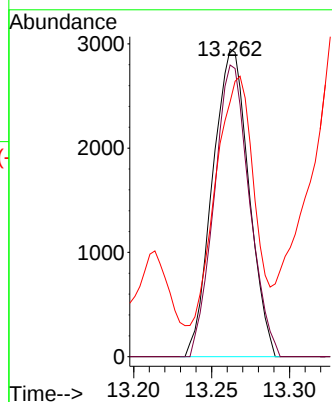
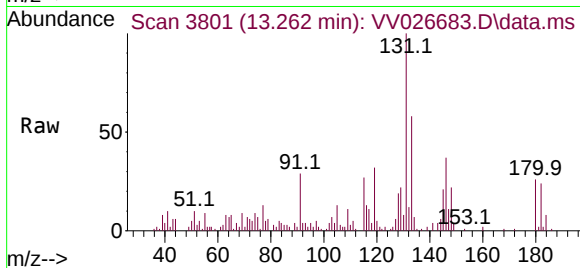
Tgt Ion:180 Resp: 4757

Ion Ratio Lower Upper

180 100

182 92.3 75.2 112.8

145 83.5 24.4 36.6#



#71

Naphthalene

Concen: 17.807 ug/L

RT: 13.500 min Scan# 3875

Delta R.T. 0.000 min

Lab File: VV026683.D

Acq: 07 Jul 2022 17:42

Tgt Ion:128 Resp: 363192

Ion Ratio Lower Upper

128 100

129 11.9 8.6 12.8

127 12.8 10.2 15.4

