

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111122\
 Data File : VW028903.D
 Acq On : 12 Nov 2022 02:58
 Operator : SY/MD
 Sample : N5590-15
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GBMY6

Quant Time: Nov 14 00:22:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Nov 12 03:43:58 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	269786	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	248977	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.243	152	125619	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	83288	5.064	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.200%
7) Chloroethane-d5	1.564	69	77109	5.333	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.600%
11) 1,1-Dichloroethene-d2	2.108	63	149067	4.973	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.400%
20) 2-Butanone-d5	3.889	46	195479	71.000	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	142.000%#
24) Chloroform-d	4.342	84	191030	5.657	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.200%
26) 1,2-Dichloroethane-d4	5.027	65	88184	5.804	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	116.000%
32) Benzene-d6	5.047	84	407840	5.488	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.800%
36) 1,2-Dichloropropane-d6	6.066	67	116780	5.627	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.600%
41) Toluene-d8	7.313	98	354227	5.295	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.000%
43) trans-1,3-Dichloroprop...	7.622	79	34486	5.095	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.000%
46) 2-Hexanone-d5	8.085	63	181778	62.921	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	125.840%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	84393	5.866	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	117.400%
66) 1,2-Dichlorobenzene-d4	11.615	152	132452	5.893	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	73612	3.944	ug/L	97
6) Bromomethane	1.519	94	41554	3.266	ug/L	93
9) Trichlorofluoromethane	1.751	101	227545	7.927	ug/L	98
12) 1,1-Dichloroethene	2.117	96	64720	3.963	ug/L	93
13) Acetone	2.179	43	136427	77.031	ug/L	85
14) Carbon disulfide	2.291	76	306954	5.293	ug/L	99
16) Methylene chloride	2.503	84	51179	2.424	ug/L	96
17) Methyl tert-butyl Ether	2.764	73	360361	10.292	ug/L	99
19) 1,1-Dichloroethane	3.185	63	318388	10.282	ug/L	99
21) 2-Butanone	3.966	43	379138	138.270	ug/L	84
27) 1,2-Dichloroethane	5.127	62	144771	8.659	ug/L	99
29) 1,1,1-Trichloroethane	4.603	97	269719	9.232	ug/L	97
30) Cyclohexane	4.674	56	351515	11.838	ug/L	99
34) Trichloroethene	5.912	95	109910	5.643	ug/L	97
35) Methylcyclohexane	6.127	83	224966	6.572	ug/L	99
37) 1,2-Dichloropropane	6.172	63	42786	2.439	ug/L	100
42) Toluene	7.381	91	793405	9.653	ug/L	100
47) Tetrachloroethene	7.969	164	152217	9.760	ug/L	98
48) 2-Hexanone	8.137	43	326195	61.689	ug/L	99

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

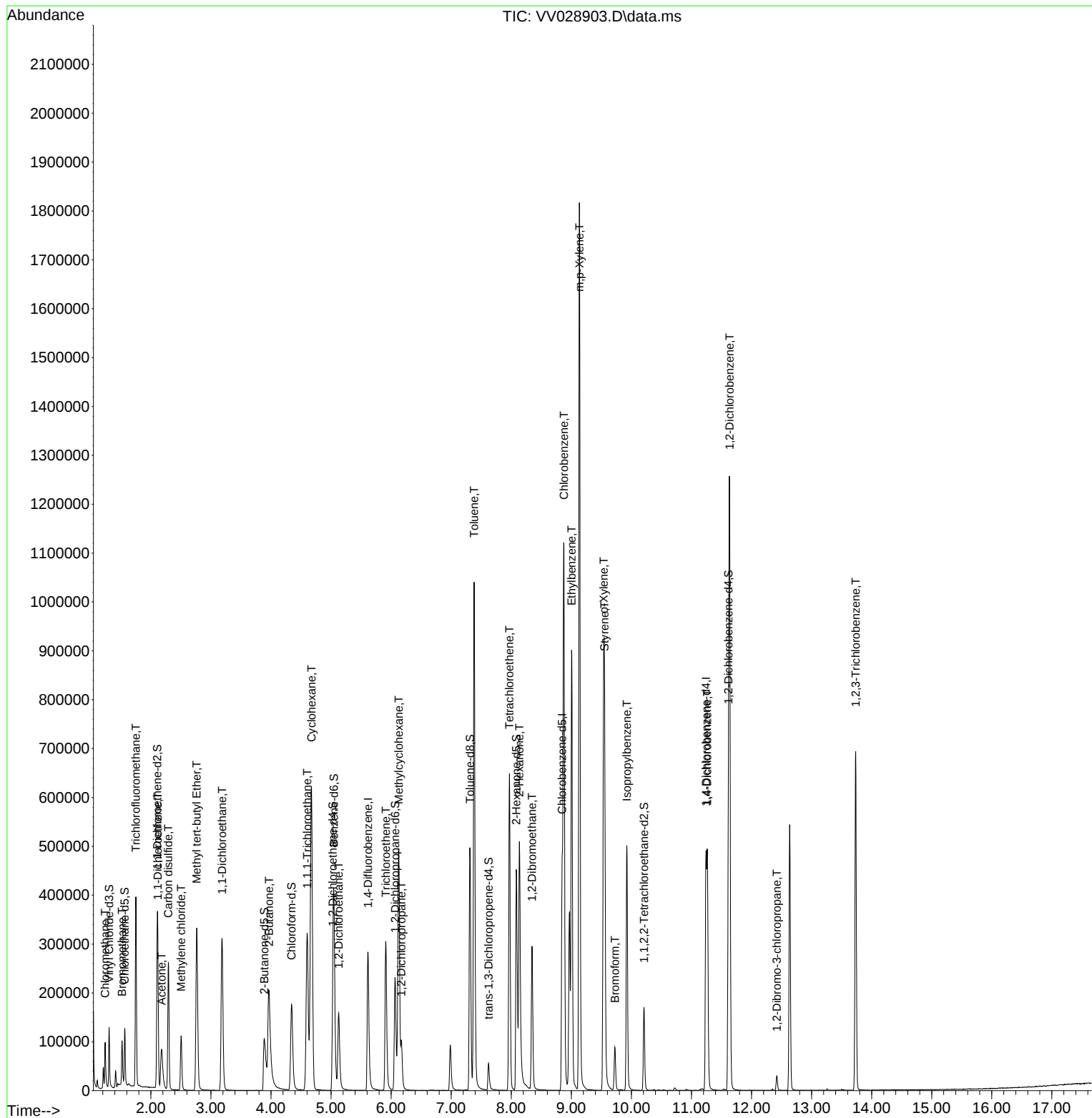
50) 1,2-Dibromoethane	8.346	107	198156	18.571	ug/L	99
51) Chlorobenzene	8.876	112	621148	12.222	ug/L	99
52) Ethylbenzene	9.005	91	643638	7.522	ug/L	100
53) m,p-Xylene	9.136	106	506792	14.891	ug/L	99
54) o-Xylene	9.538	106	197828	6.115	ug/L	97
55) Styrene	9.554	104	340884	6.282	ug/L	100
59) Bromoform	9.725	173	40755	5.951	ug/L	100
60) Isopropylbenzene	9.924	105	334181	4.099	ug/L	100
65) 1,4-Dichlorobenzene	11.265	146	196224	5.095	ug/L	99
67) 1,2-Dichlorobenzene	11.635	146	483369	14.043	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.423	75	7646	4.527	ug/L	88
72) 1,2,3-Trichlorobenzene	13.734	180	216735	11.446	ug/L	100

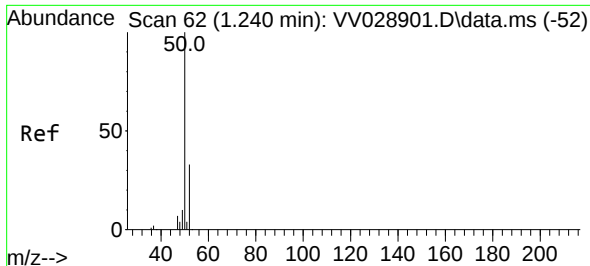
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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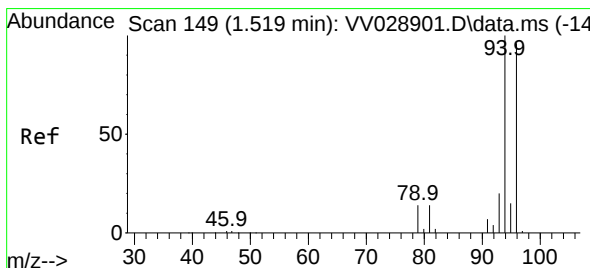
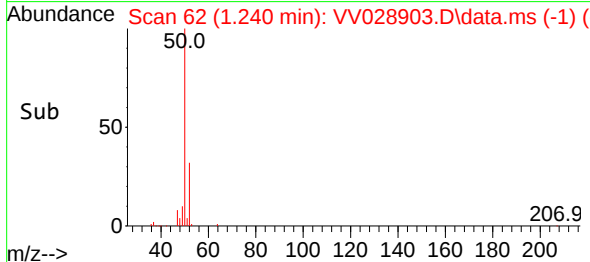
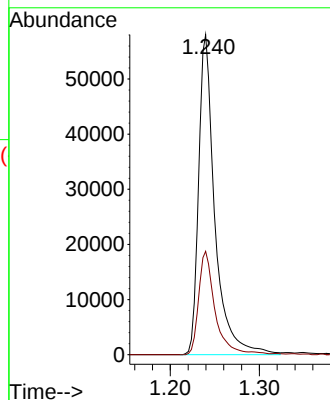
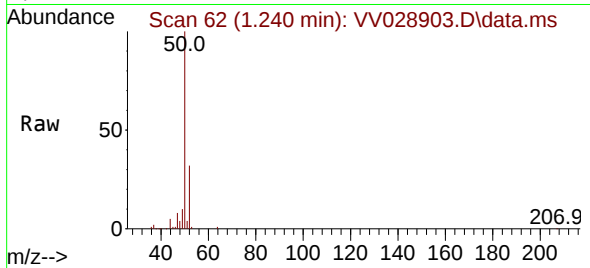




#3
Chloromethane
Concen: 3.944 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

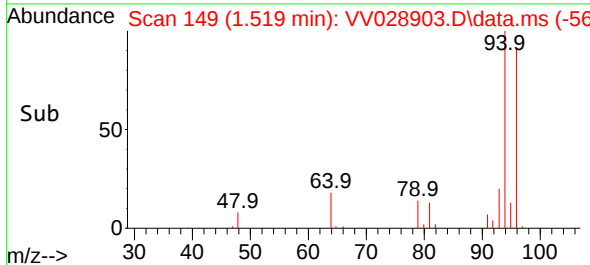
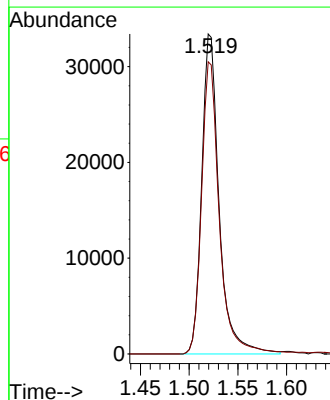
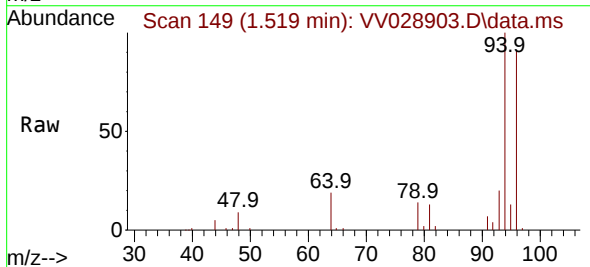
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

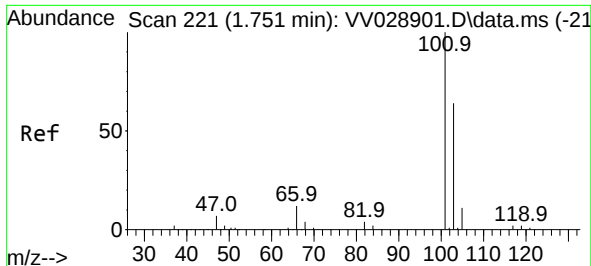
Tgt Ion: 50 Resp: 73612
Ion Ratio Lower Upper
50 100
52 32.3 23.7 43.9



#6
Bromomethane
Concen: 3.266 ug/L
RT: 1.519 min Scan# 149
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion: 94 Resp: 41554
Ion Ratio Lower Upper
94 100
96 91.3 68.5 127.3

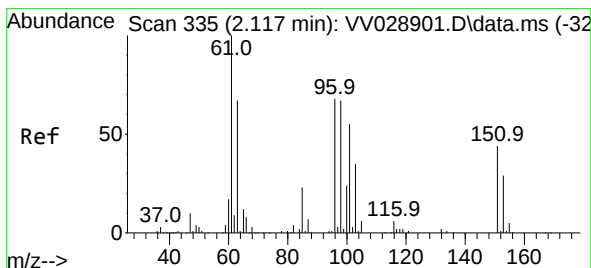
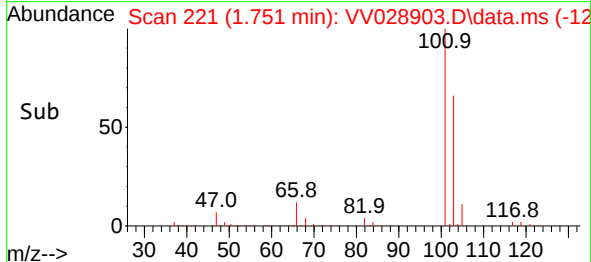
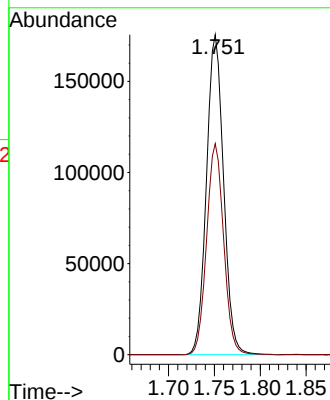
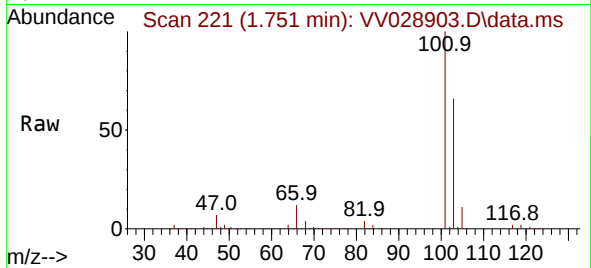




#9
Trichlorofluoromethane
Concen: 7.927 ug/L
RT: 1.751 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

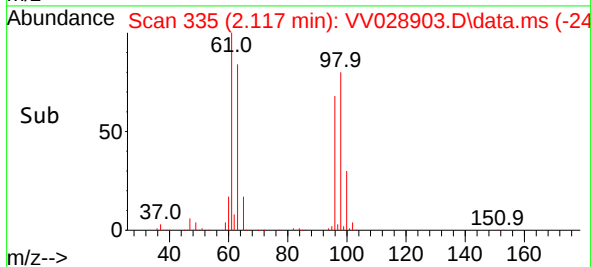
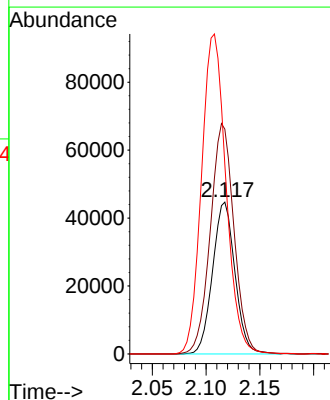
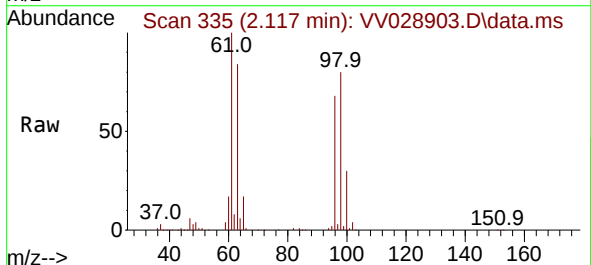
Instrument :
MSVOA_V
ClientSampleId :
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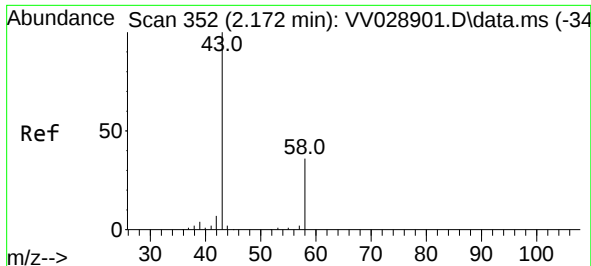
Tgt Ion:101 Resp: 227545
Ion Ratio Lower Upper
101 100
103 65.7 51.3 76.9



#12
1,1-Dichloroethene
Concen: 3.963 ug/L
RT: 2.117 min Scan# 335
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion: 96 Resp: 64720
Ion Ratio Lower Upper
96 100
61 148.0 104.2 193.4
63 124.6 75.9 140.9





#13

Acetone

Concen: 77.031 ug/L

RT: 2.179 min Scan# 352

Delta R.T. 0.006 min

Lab File: VV028903.D

Acq: 12 Nov 2022 02:58

Instrument :

MSVOA_V

ClientSampleId :

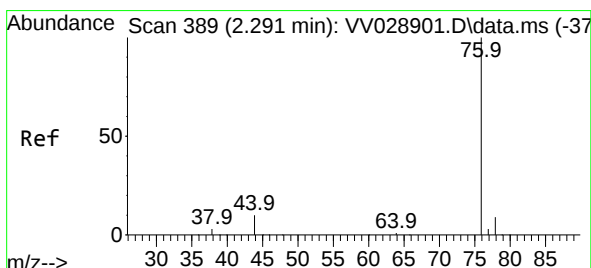
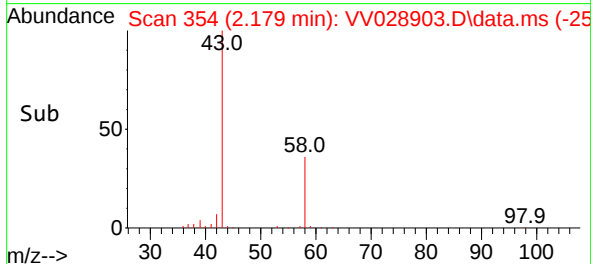
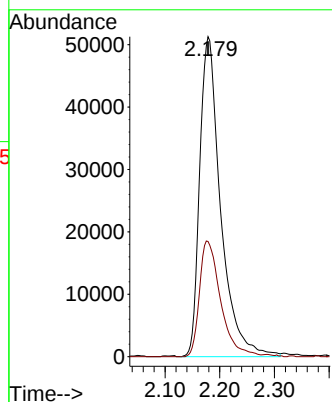
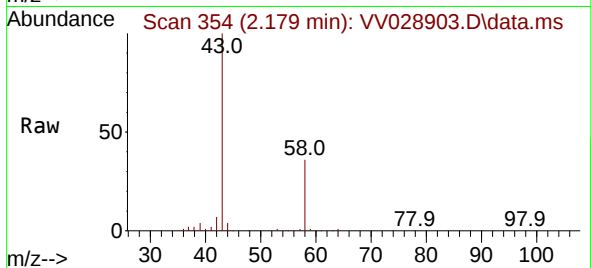
GBMY6

Tgt Ion: 43 Resp: 136427

Ion Ratio Lower Upper

43 100

58 36.4 0.0 56.6



#14

Carbon disulfide

Concen: 5.293 ug/L

RT: 2.291 min Scan# 389

Delta R.T. 0.000 min

Lab File: VV028903.D

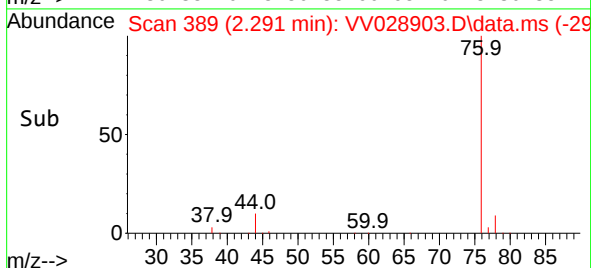
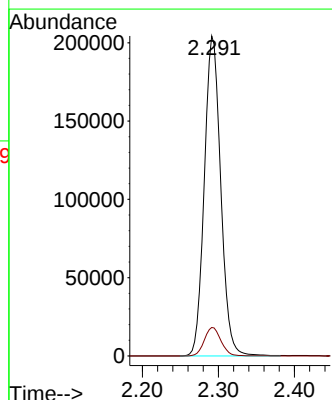
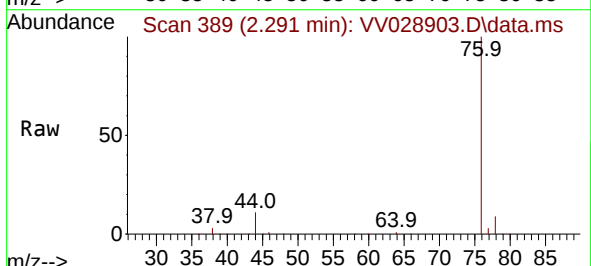
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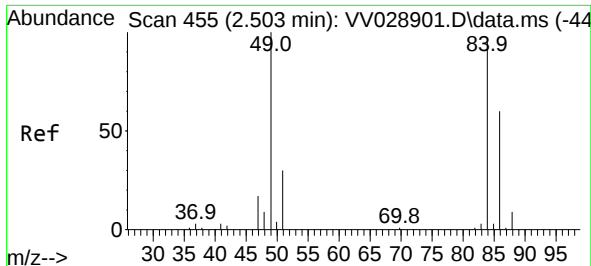
Tgt Ion: 76 Resp: 306954

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.2

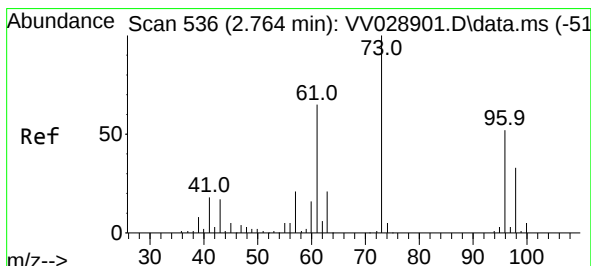
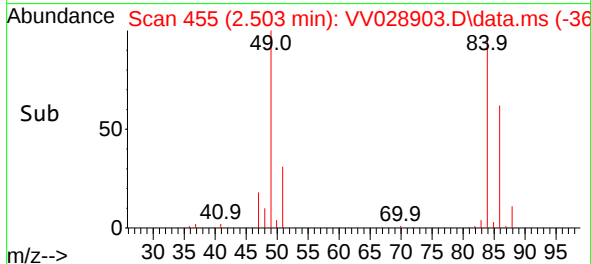
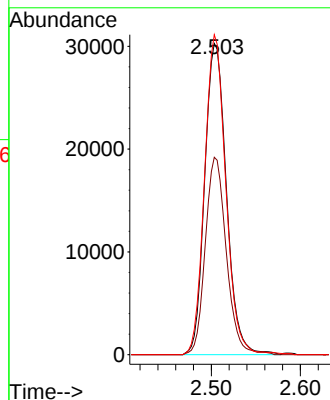
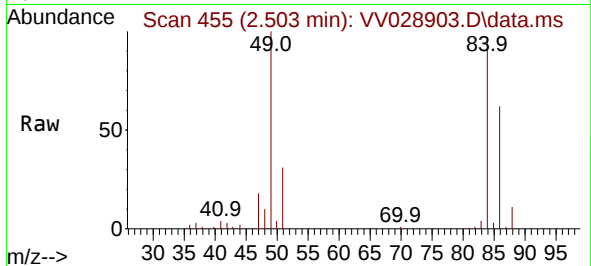




#16
Methylene chloride
Concen: 2.424 ug/L
RT: 2.503 min Scan# 411
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

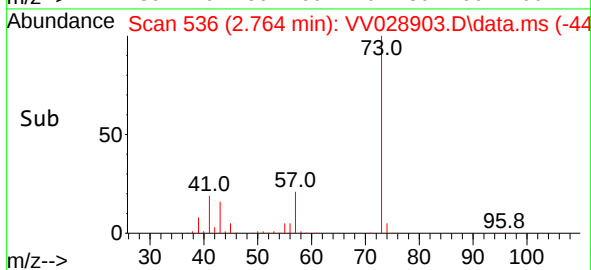
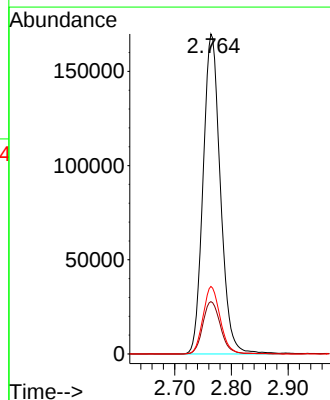
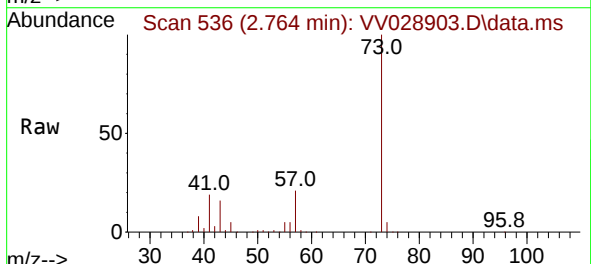
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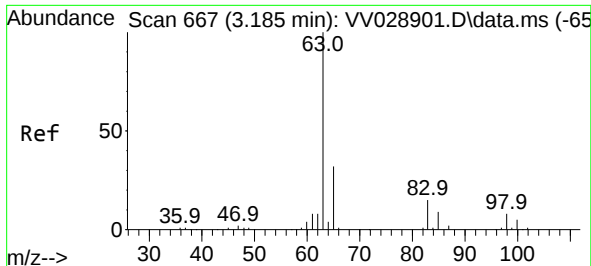
Tgt Ion: 84 Resp: 51179
Ion Ratio Lower Upper
84 100
86 63.4 45.8 85.0
49 102.8 75.5 140.1



#17
Methyl tert-butyl Ether
Concen: 10.292 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion: 73 Resp: 360361
Ion Ratio Lower Upper
73 100
43 16.7 13.0 19.4
57 21.0 16.6 24.8





#19

1,1-Dichloroethane

Concen: 10.282 ug/L

RT: 3.185 min Scan# 6

Delta R.T. 0.000 min

Lab File: VV028903.D

Acq: 12 Nov 2022 02:58

Instrument :

MSVOA_V

ClientSampleId :

GBMY6

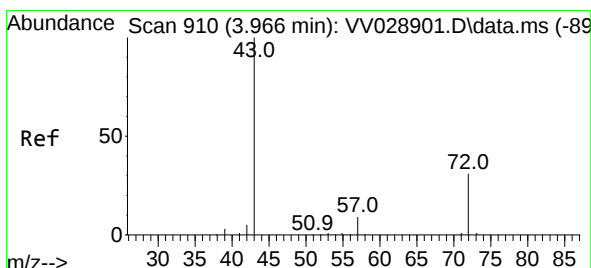
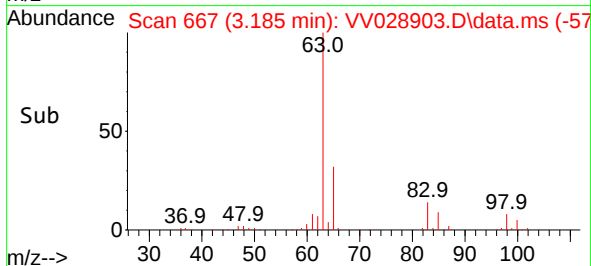
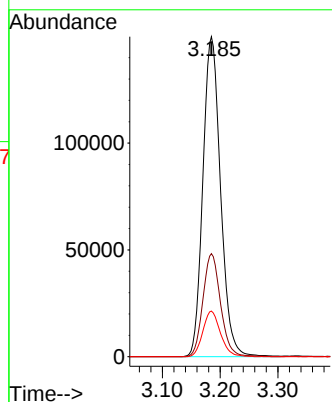
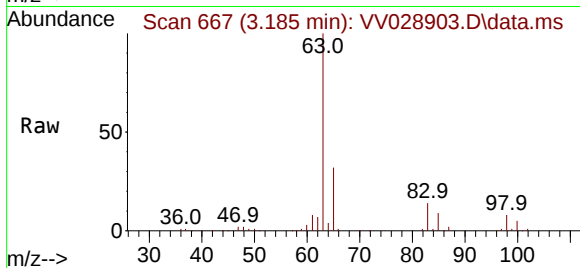
Tgt Ion: 63 Resp: 318388

Ion Ratio Lower Upper

63 100

65 32.2 23.0 42.6

83 14.3 9.4 17.6



#21

2-Butanone

Concen: 138.270 ug/L

RT: 3.966 min Scan# 910

Delta R.T. 0.000 min

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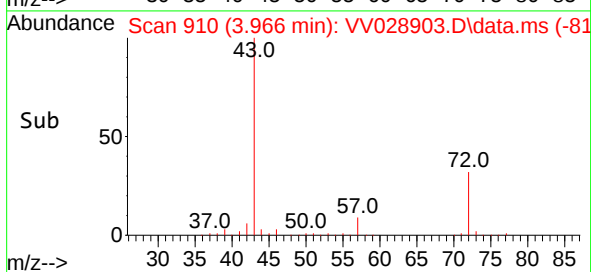
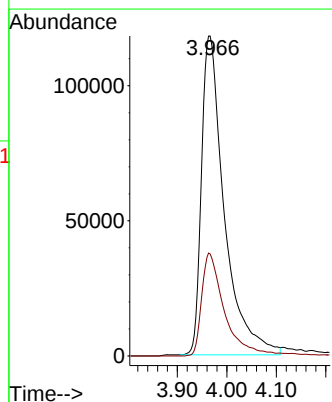
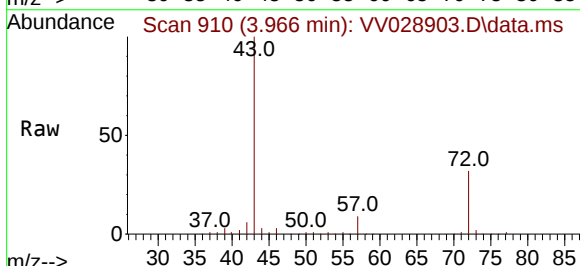
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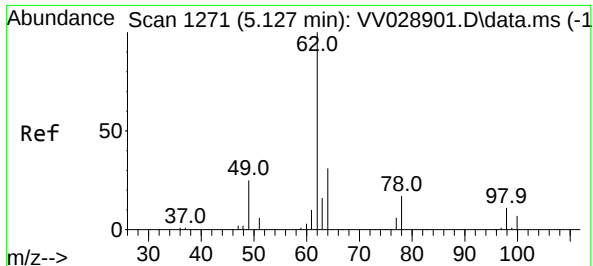
Tgt Ion: 43 Resp: 379138

Ion Ratio Lower Upper

43 100

72 31.9 11.9 35.9





#27

1,2-Dichloroethane

Concen: 8.659 ug/L

RT: 5.127 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV028903.D

Acq: 12 Nov 2022 02:58

Instrument :

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ClientSampleId :

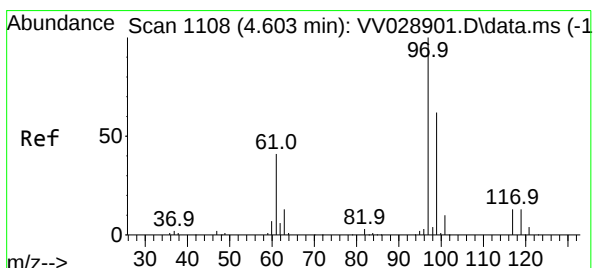
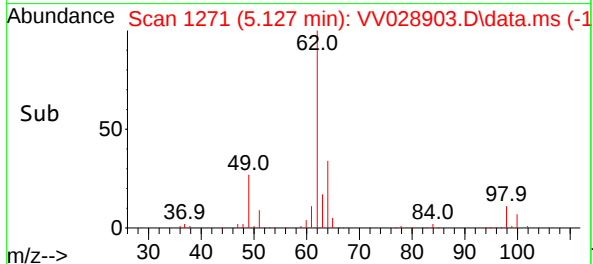
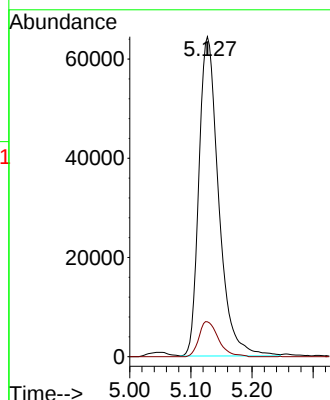
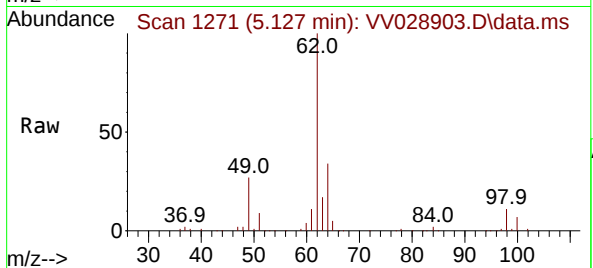
GBMY6

Tgt Ion: 62 Resp: 144771

Ion Ratio Lower Upper

62 100

98 10.9 9.0 13.6



#29

1,1,1-Trichloroethane

Concen: 9.232 ug/L

RT: 4.603 min Scan# 1108

Delta R.T. 0.000 min

Lab File: VV028903.D

Acq: 12 Nov 2022 02:58

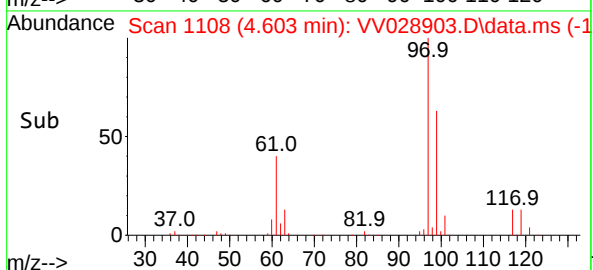
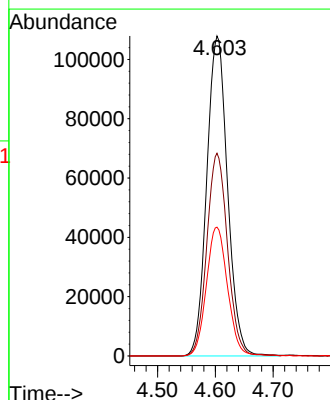
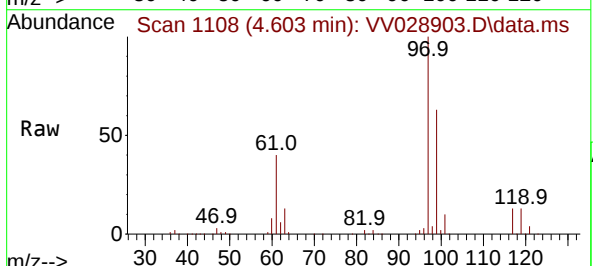
Tgt Ion: 97 Resp: 269719

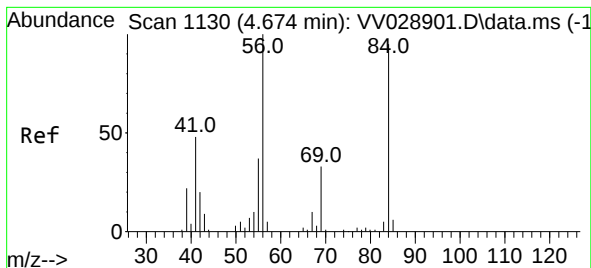
Ion Ratio Lower Upper

97 100

99 63.2 52.7 79.1

61 41.0 33.8 50.6





#30

Cyclohexane

Concen: 11.838 ug/L

RT: 4.674 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VV028903.D

Acq: 12 Nov 2022 02:58

Instrument :

MSVOA_V

ClientSampleId :

GBMY6

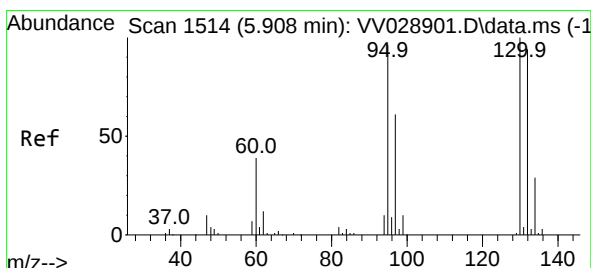
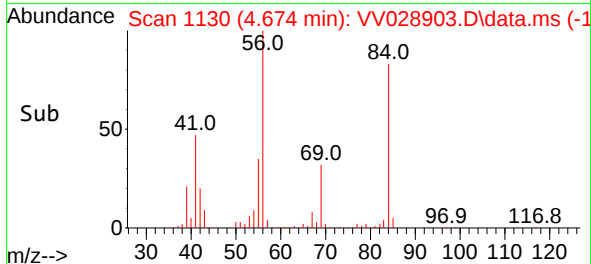
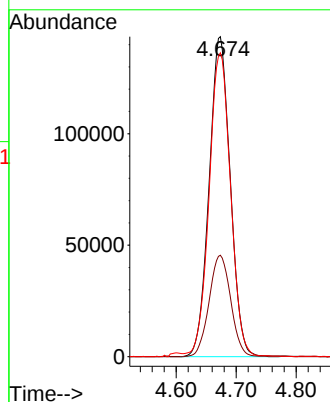
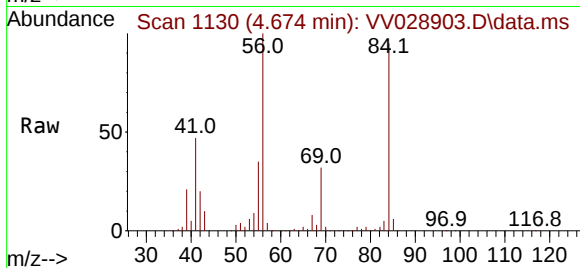
Tgt Ion: 56 Resp: 351515

Ion Ratio Lower Upper

56 100

69 32.4 26.1 39.1

84 95.6 77.9 116.9



#34

Trichloroethene

Concen: 5.643 ug/L

RT: 5.912 min Scan# 1515

Delta R.T. 0.003 min

Lab File: VV028903.D

Acq: 12 Nov 2022 02:58

Tgt Ion: 95 Resp: 109910

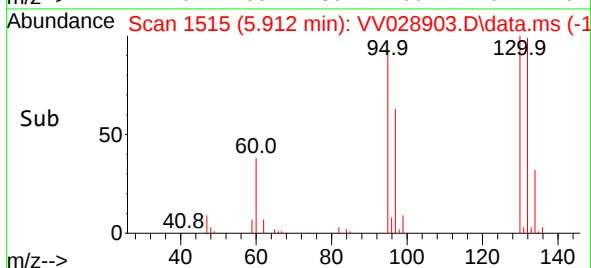
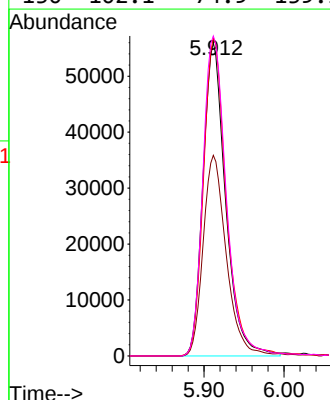
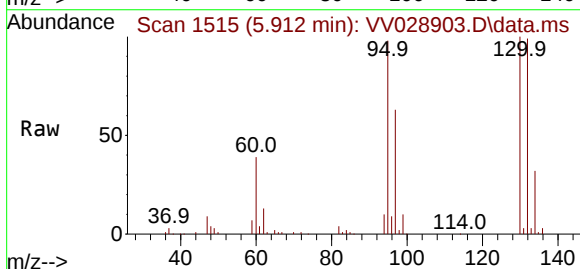
Ion Ratio Lower Upper

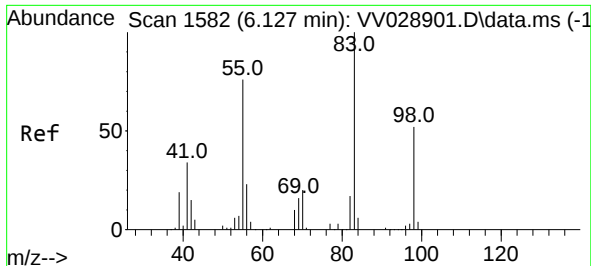
95 100

97 64.0 45.6 84.8

132 101.5 69.1 128.3

130 102.1 74.9 139.1

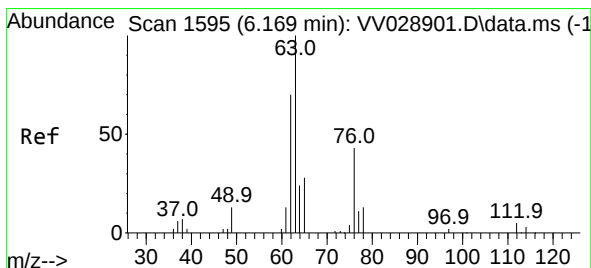
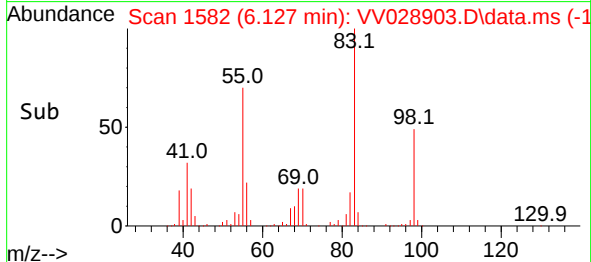
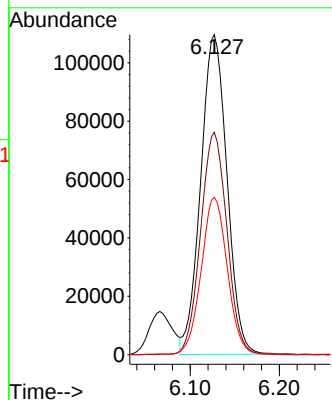
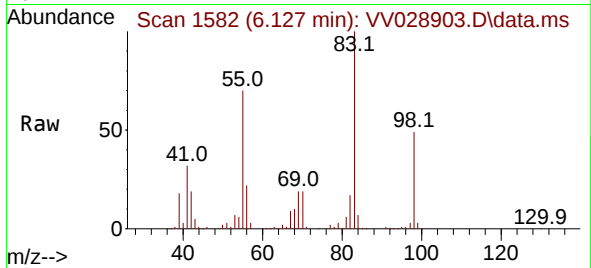




#35
Methylcyclohexane
Concen: 6.572 ug/L
RT: 6.127 min Scan# 1582
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

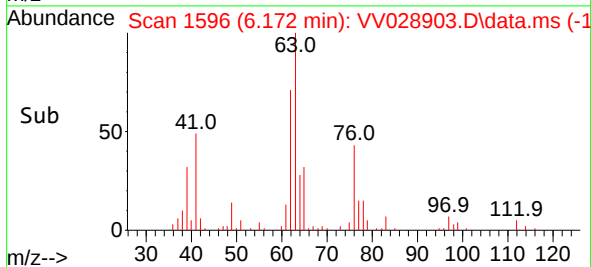
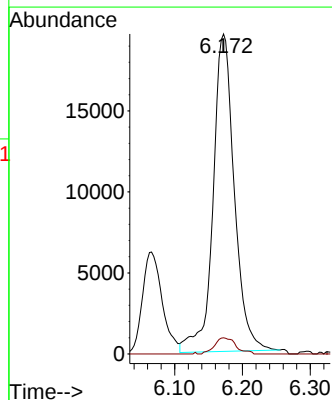
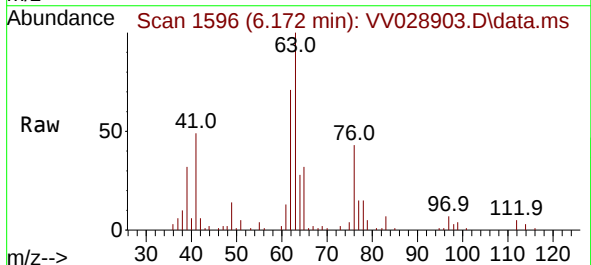
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

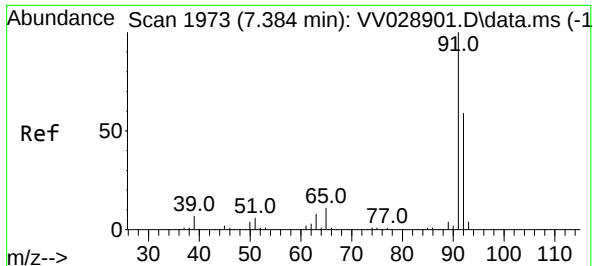
Tgt Ion: 83 Resp: 224966
Ion Ratio Lower Upper
83 100
55 69.2 55.8 83.6
98 49.1 38.2 57.2



#37
1,2-Dichloropropane
Concen: 2.439 ug/L
RT: 6.172 min Scan# 1596
Delta R.T. 0.003 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion: 63 Resp: 42786
Ion Ratio Lower Upper
63 100
112 5.1 4.0 6.0

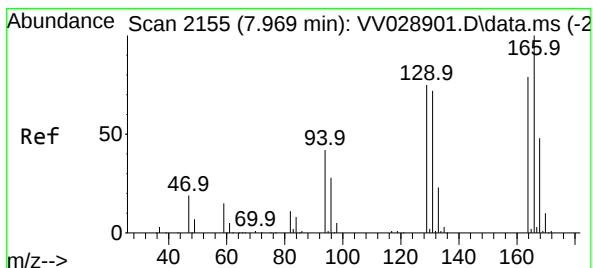
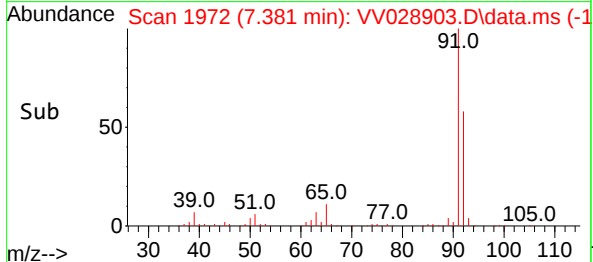
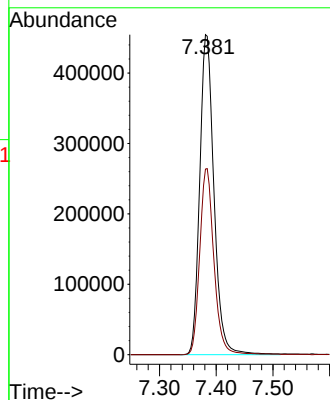
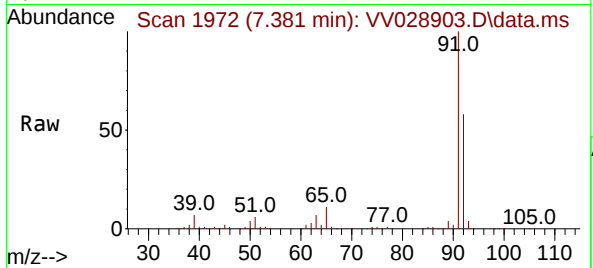




#42
Toluene
Concen: 9.653 ug/L
RT: 7.381 min Scan# 1973
Delta R.T. -0.003 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

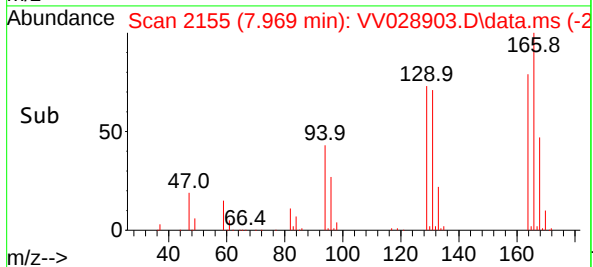
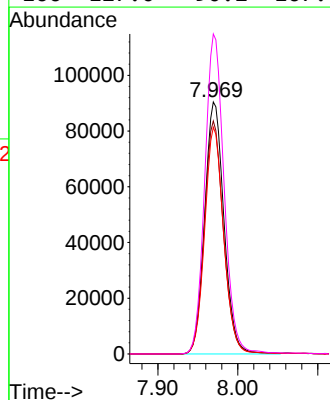
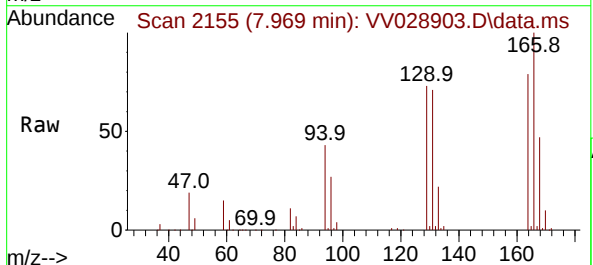
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

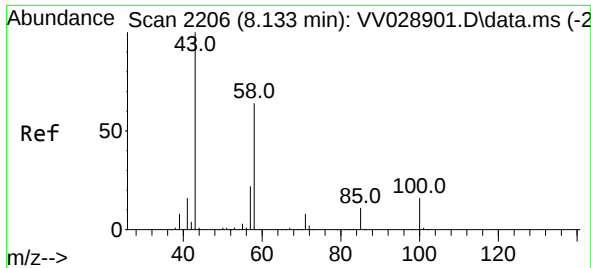
Tgt Ion: 91 Resp: 793405
Ion Ratio Lower Upper
91 100
92 58.0 40.7 75.5



#47
Tetrachloroethene
Concen: 9.760 ug/L
RT: 7.969 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion: 164 Resp: 152217
Ion Ratio Lower Upper
164 100
129 92.4 63.9 118.7
131 89.9 61.8 114.8
166 127.0 90.2 167.4

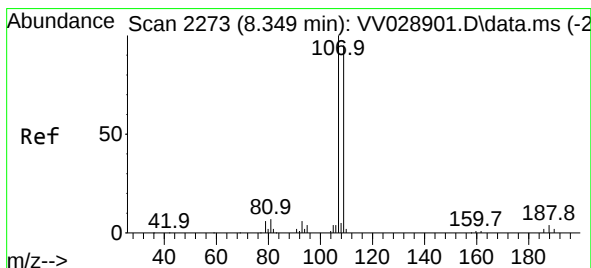
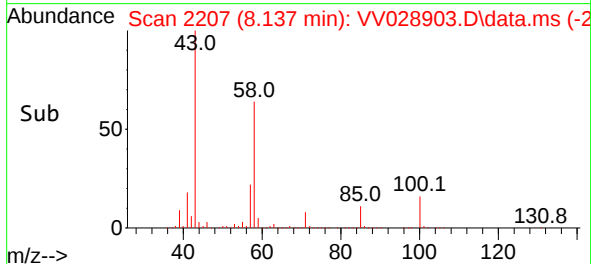
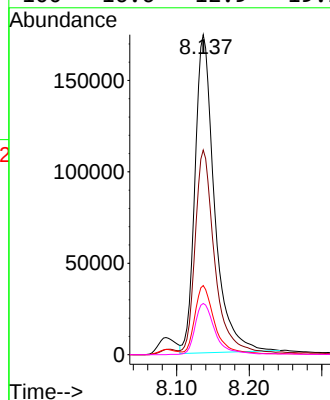
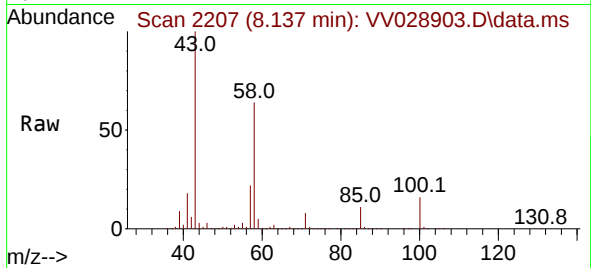




#48
2-Hexanone
Concen: 61.689 ug/L
RT: 8.137 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

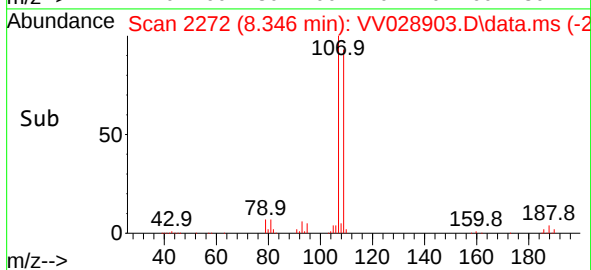
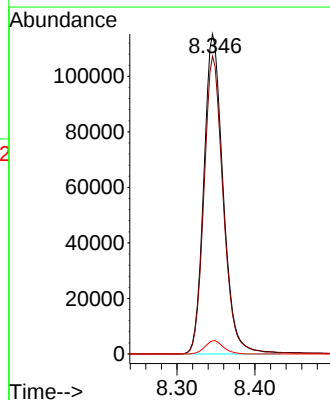
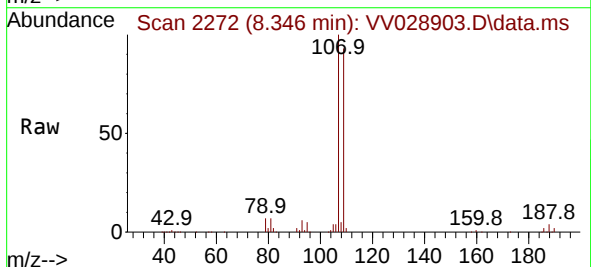
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

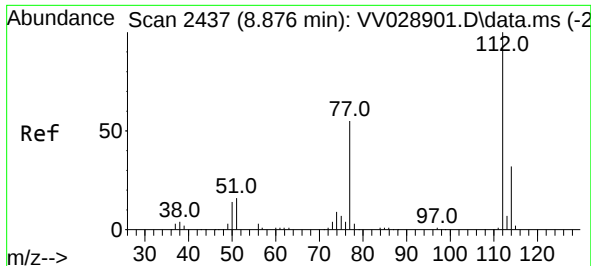
Tgt Ion: 43 Resp: 326195
Ion Ratio Lower Upper
43 100
58 63.3 50.2 75.4
57 21.7 17.8 26.8
100 16.6 12.9 19.3



#50
1,2-Dibromoethane
Concen: 18.571 ug/L
RT: 8.346 min Scan# 2272
Delta R.T. -0.003 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion: 107 Resp: 198156
Ion Ratio Lower Upper
107 100
109 93.0 64.4 119.6
188 4.1 2.9 4.3

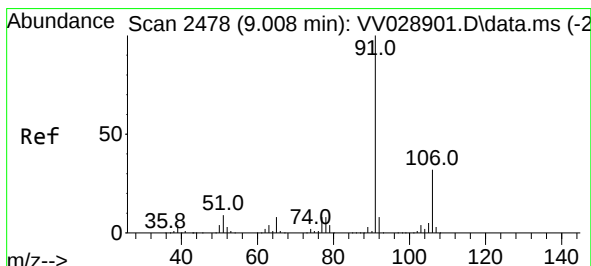
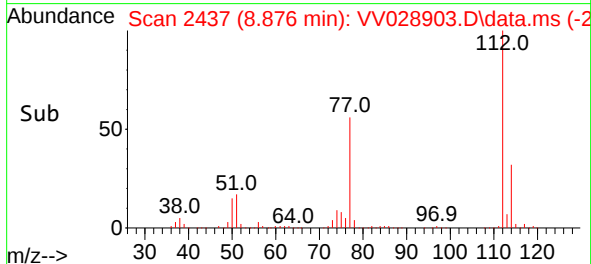
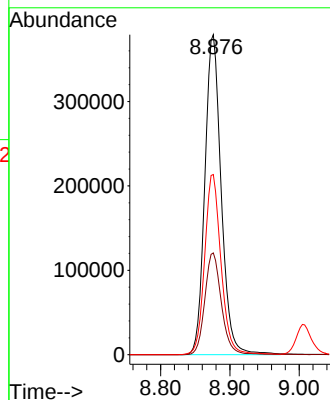
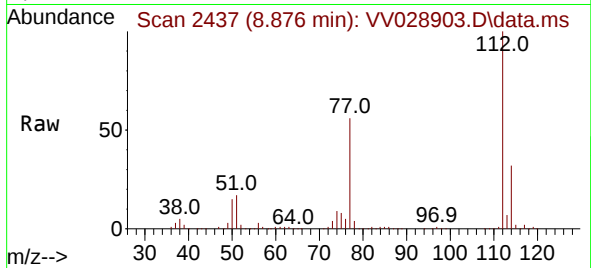




#51
Chlorobenzene
Concen: 12.222 ug/L
RT: 8.876 min Scan# 2437
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

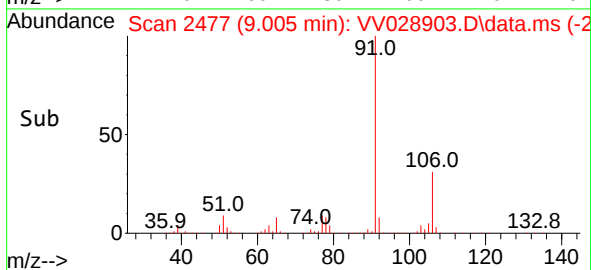
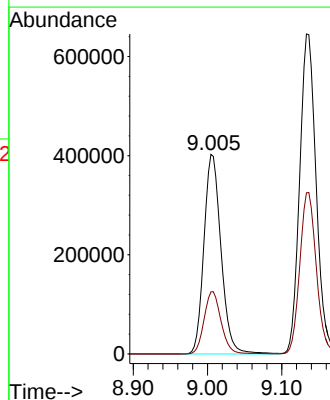
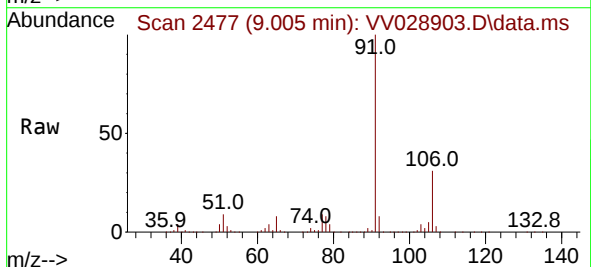
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

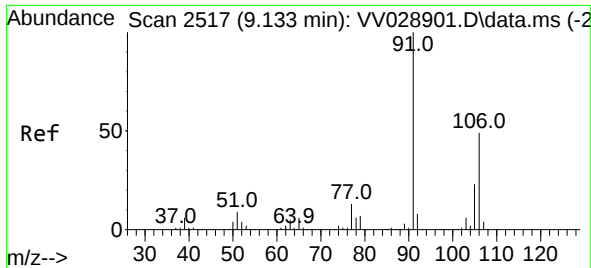
Tgt Ion:112 Resp: 621148
Ion Ratio Lower Upper
112 100
114 31.8 22.4 41.6
77 56.3 44.4 66.6



#52
Ethylbenzene
Concen: 7.522 ug/L
RT: 9.005 min Scan# 2477
Delta R.T. -0.003 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion: 91 Resp: 643638
Ion Ratio Lower Upper
91 100
106 31.1 21.6 40.2

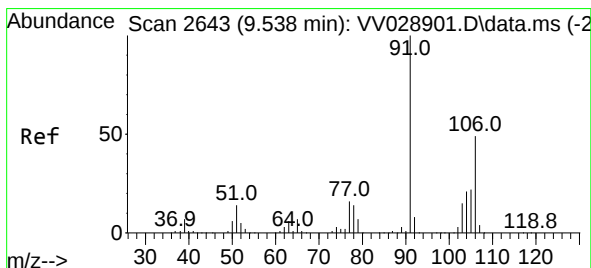
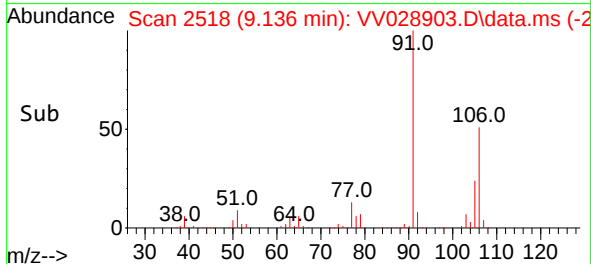
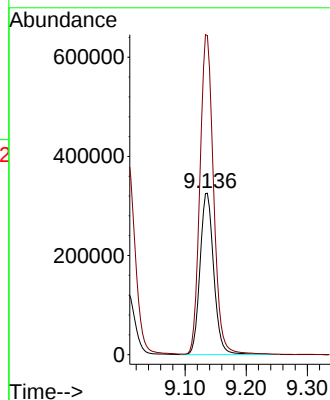
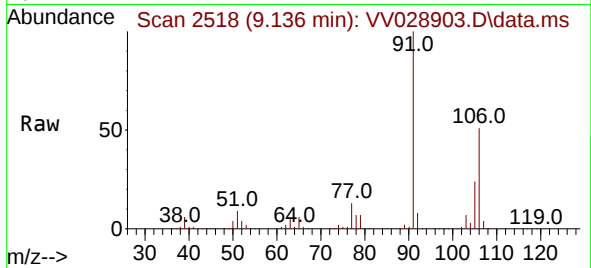




#53
m,p-Xylene
Concen: 14.891 ug/L
RT: 9.136 min Scan# 2517
Delta R.T. 0.003 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

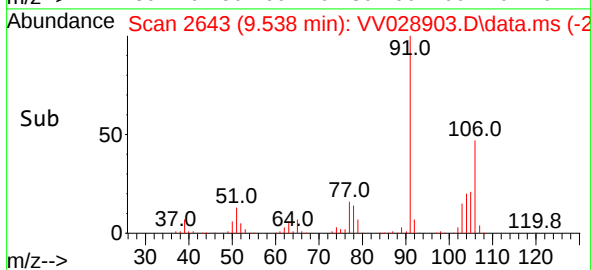
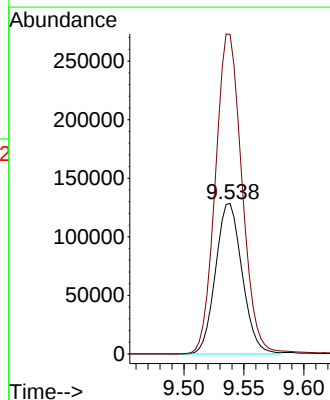
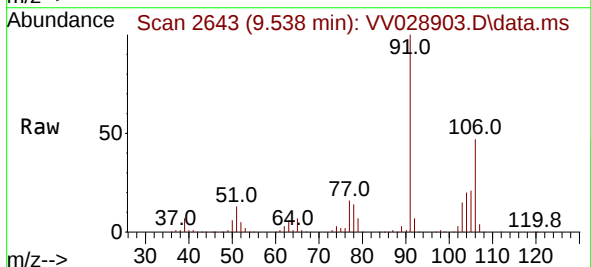
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

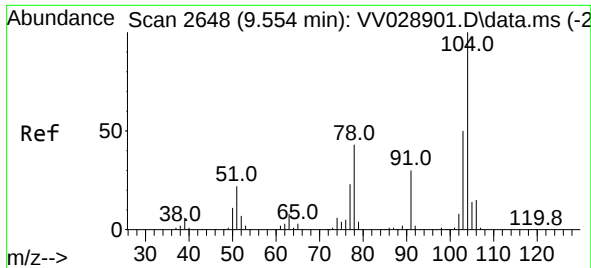
Tgt Ion:106 Resp: 506792
Ion Ratio Lower Upper
106 100
91 197.6 139.1 258.3



#54
o-Xylene
Concen: 6.115 ug/L
RT: 9.538 min Scan# 2643
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion:106 Resp: 197828
Ion Ratio Lower Upper
106 100
91 212.4 145.7 270.7

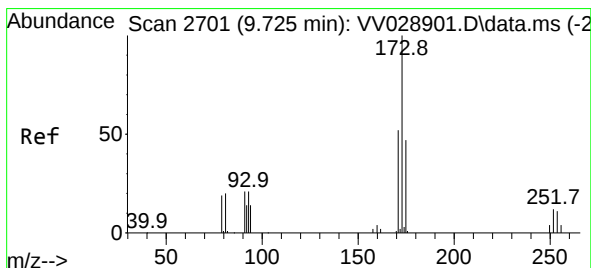
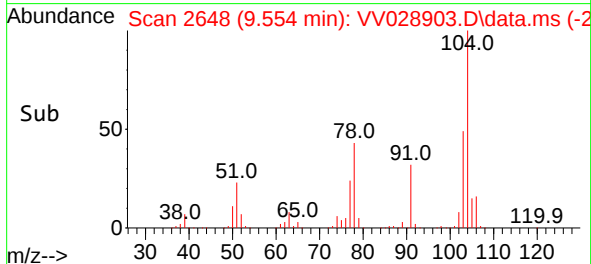
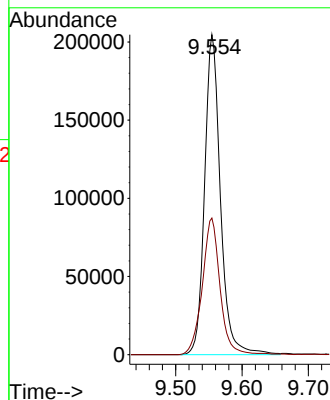
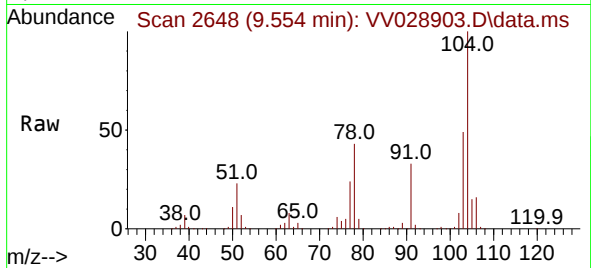




#55
Styrene
Concen: 6.282 ug/L
RT: 9.554 min Scan# 2648
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

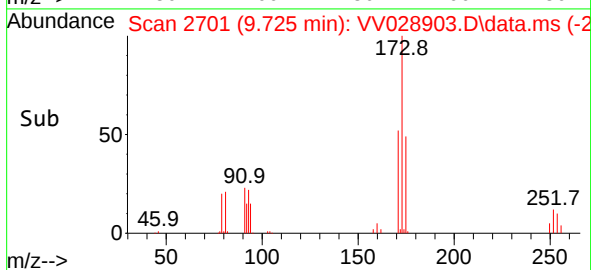
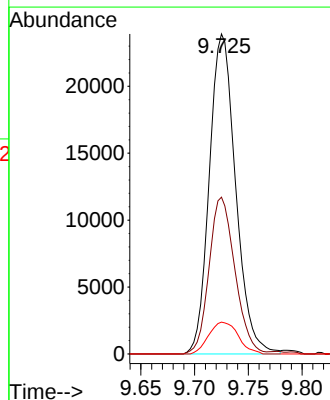
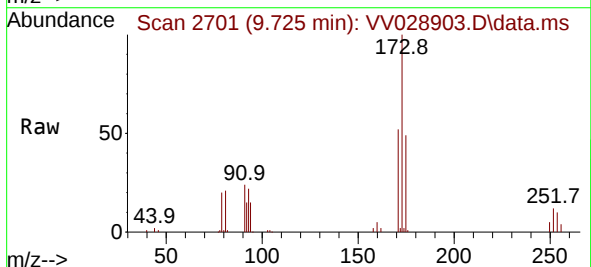
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

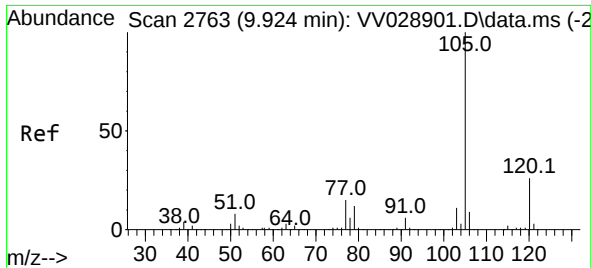
Tgt Ion:104 Resp: 340884
Ion Ratio Lower Upper
104 100
78 42.7 30.1 55.9



#59
Bromoform
Concen: 5.951 ug/L
RT: 9.725 min Scan# 2701
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion:173 Resp: 40755
Ion Ratio Lower Upper
173 100
175 48.0 38.2 57.4
254 11.1 8.5 12.7

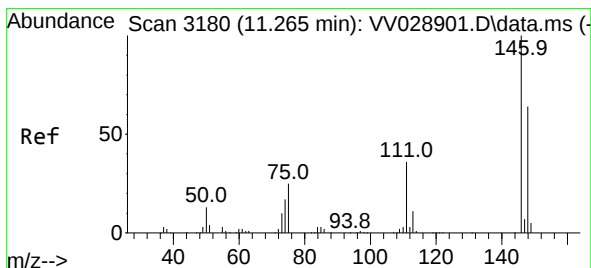
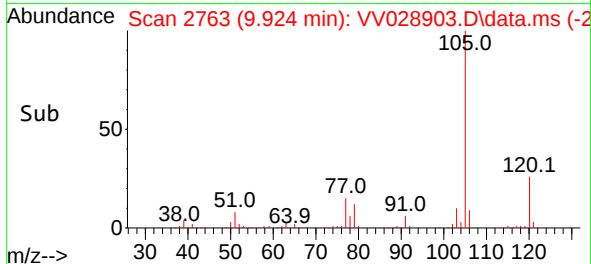
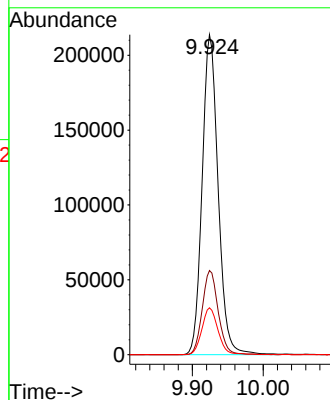
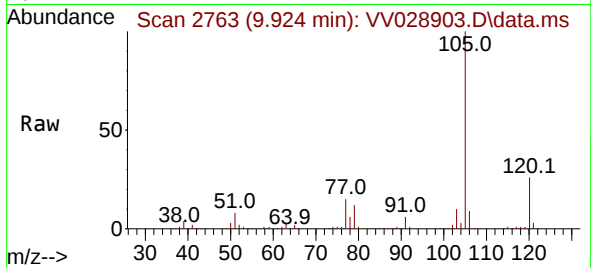




#60
Isopropylbenzene
Concen: 4.099 ug/L
RT: 9.924 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

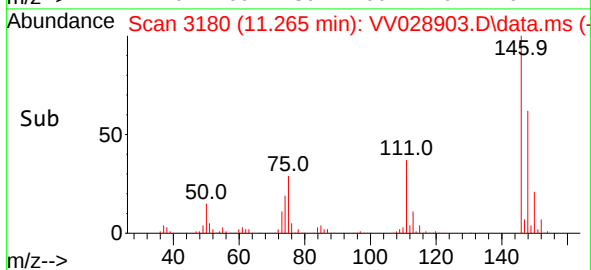
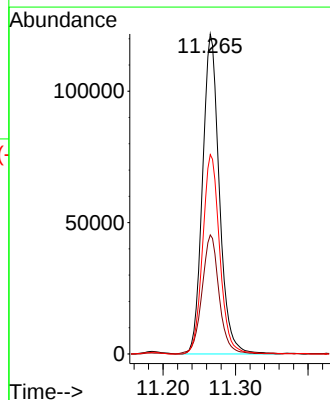
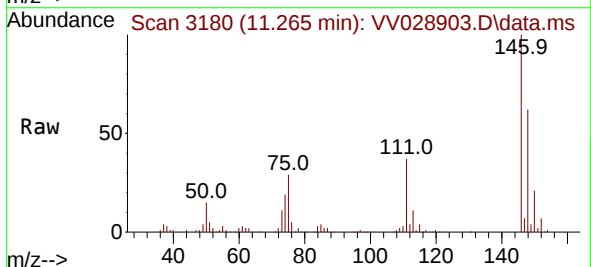
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

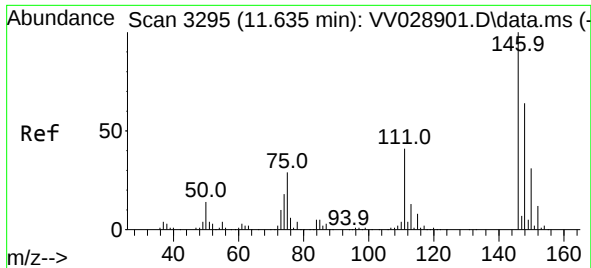
Tgt Ion:105 Resp: 334181
Ion Ratio Lower Upper
105 100
120 26.3 21.3 31.9
77 14.9 11.8 17.8



#65
1,4-Dichlorobenzene
Concen: 5.095 ug/L
RT: 11.265 min Scan# 3180
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion:146 Resp: 196224
Ion Ratio Lower Upper
146 100
111 37.2 26.5 49.3
148 62.3 44.5 82.7

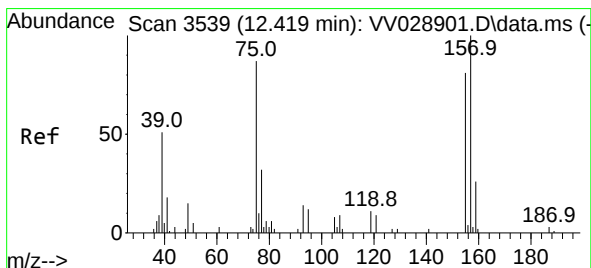
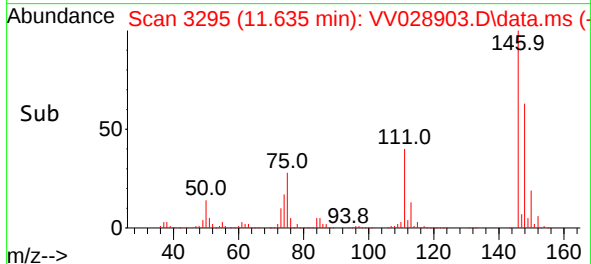
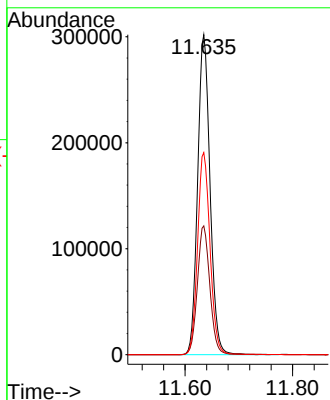
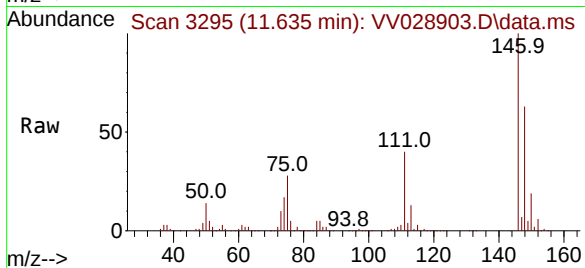




#67
1,2-Dichlorobenzene
Concen: 14.043 ug/L
RT: 11.635 min Scan# 311
Delta R.T. 0.000 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

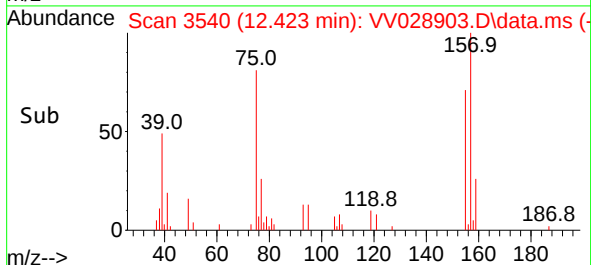
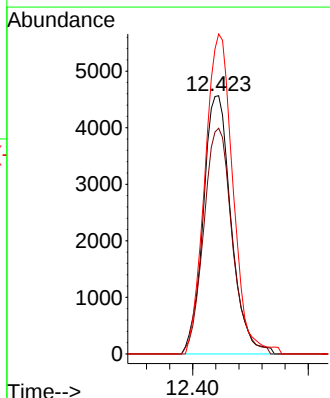
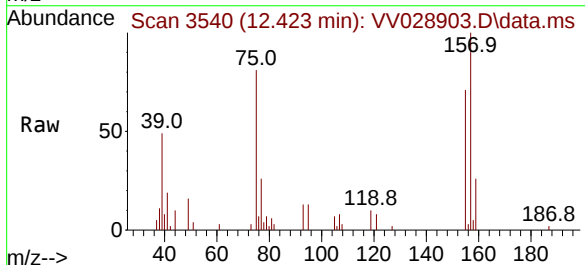
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

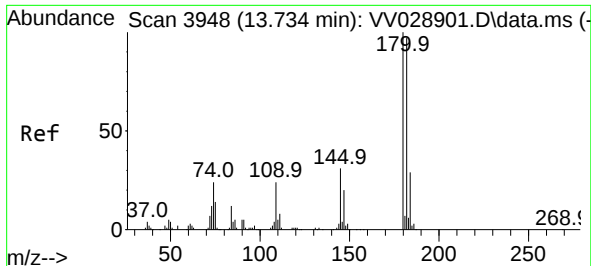
Tgt Ion:146 Resp: 483369
Ion Ratio Lower Upper
146 100
111 40.2 32.4 48.6
148 63.1 49.4 74.2



#68
1,2-Dibromo-3-chloropropane
Concen: 4.527 ug/L
RT: 12.423 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VV028903.D
Acq: 12 Nov 2022 02:58

Tgt Ion: 75 Resp: 7646
Ion Ratio Lower Upper
75 100
155 87.4 64.8 97.2
157 123.9 86.3 129.5





#72
 1,2,3-Trichlorobenzene
 Concen: 11.446 ug/L
 RT: 13.734 min Scan# 3948
 Delta R.T. 0.000 min
 Lab File: VV028903.D
 Acq: 12 Nov 2022 02:58

Instrument :
 MSVOA_V
 ClientSampleId :
 GBMY6

Tgt Ion:180 Resp: 216735

Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.4	113.2
145	31.3	24.9	37.3

