

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111422\
 Data File : VW028928.D
 Acq On : 14 Nov 2022 11:05
 Operator : SY/MD
 Sample : N5590-15
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GBMY6

Quant Time: Nov 15 00:02:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 15 00:01:45 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	329598	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	308177	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	154307	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	66280	3.299	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	66.000%
7) Chloroethane-d5	1.568	69	63274	3.582	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.600%
11) 1,1-Dichloroethene-d2	2.108	63	124361	3.396	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.000%
20) 2-Butanone-d5	3.892	46	89290	26.546	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	53.100%
24) Chloroform-d	4.339	84	152700	3.701	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.000%
26) 1,2-Dichloroethane-d4	5.024	65	68174	3.673	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.400%
32) Benzene-d6	5.043	84	328410	3.570	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.400%
36) 1,2-Dichloropropane-d6	6.063	67	88564	3.448	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	69.000%
41) Toluene-d8	7.310	98	289906	3.501	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.000%
43) trans-1,3-Dichloroprop...	7.619	79	30975	3.697	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.000%
46) 2-Hexanone-d5	8.085	63	134077	37.494	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	74.980%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	62450	3.507	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	70.200%
66) 1,2-Dichlorobenzene-d4	11.616	152	104415	3.782	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	75.600%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	65610	2.877	ug/L	98
6) Bromomethane	1.523	94	52419	3.372	ug/L	96
9) Trichlorofluoromethane	1.751	101	231691	6.606	ug/L	99
12) 1,1-Dichloroethene	2.118	96	64706	3.243	ug/L	99
13) Acetone	2.175	43	135663	62.699	ug/L	87
14) Carbon disulfide	2.291	76	320416	4.522	ug/L	99
16) Methylene chloride	2.503	84	49347	1.913	ug/L	96
17) Methyl tert-butyl Ether	2.761	73	340589	7.962	ug/L	99
19) 1,1-Dichloroethane	3.182	63	306486	8.102	ug/L	98
21) 2-Butanone	3.963	43	334382	99.818	ug/L	82
27) 1,2-Dichloroethane	5.121	62	135872	6.652	ug/L	99
29) 1,1,1-Trichloroethane	4.600	97	275610	7.621	ug/L	98
30) Cyclohexane	4.667	56	350989	9.550	ug/L	98
34) Trichloroethene	5.908	95	112621	4.671	ug/L	99
35) Methylcyclohexane	6.124	83	238535	5.630	ug/L	98
37) 1,2-Dichloropropane	6.169	63	39705	1.828	ug/L	98
42) Toluene	7.381	91	780237	7.669	ug/L	100
47) Tetrachloroethene	7.966	164	154822	8.020	ug/L	98
48) 2-Hexanone	8.133	43	423606	64.722	ug/L	97

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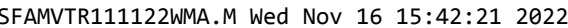
Quant Time: Nov 15 00:02:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
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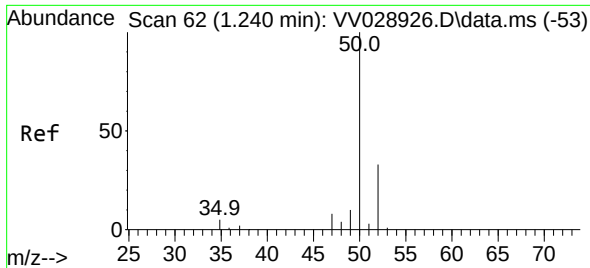
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

50) 1,2-Dibromoethane	8.342	107	196904	14.909	ug/L	97
51) Chlorobenzene	8.873	112	630018	10.016	ug/L	100
52) Ethylbenzene	9.005	91	653566	6.170	ug/L	99
53) m,p-Xylene	9.133	106	511268	12.137	ug/L	99
54) o-Xylene	9.535	106	193580	4.834	ug/L	99
55) Styrene	9.551	104	325954	4.853	ug/L	100
59) Bromoform	9.725	173	43717	5.197	ug/L	99
60) Isopropylbenzene	9.924	105	324903	3.244	ug/L	99
65) 1,4-Dichlorobenzene	11.265	146	192232	4.063	ug/L	98
67) 1,2-Dichlorobenzene	11.635	146	482356	11.408	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.419	75	8141	3.924	ug/L	91
72) 1,2,3-Trichlorobenzene	13.731	180	239130	10.281	ug/L	100

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

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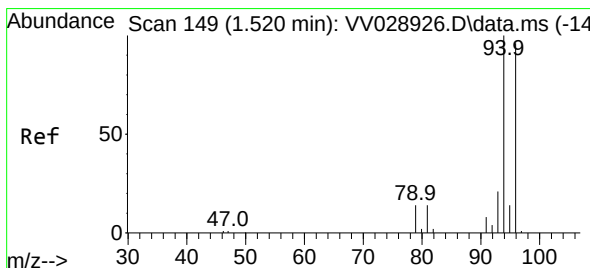
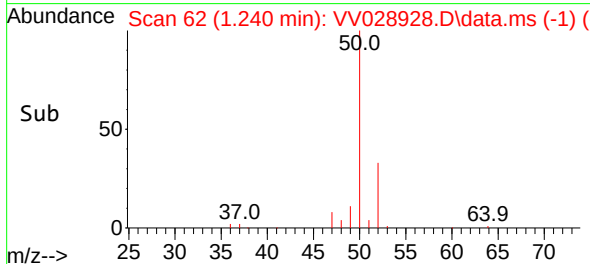
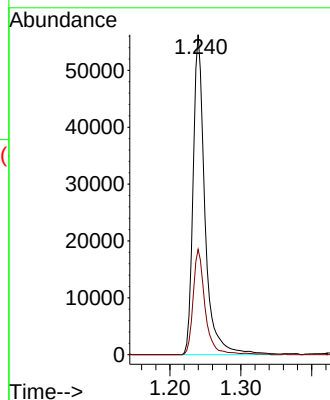
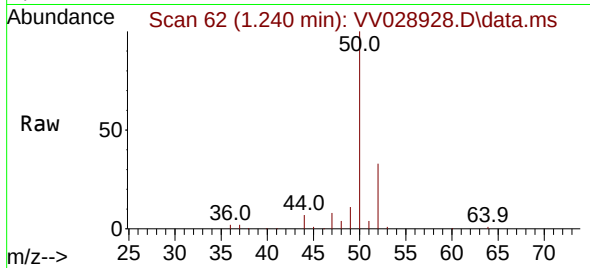




#3
Chloromethane
Concen: 2.877 ug/L
RT: 1.240 min Scan# 61
Delta R.T. -0.000 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

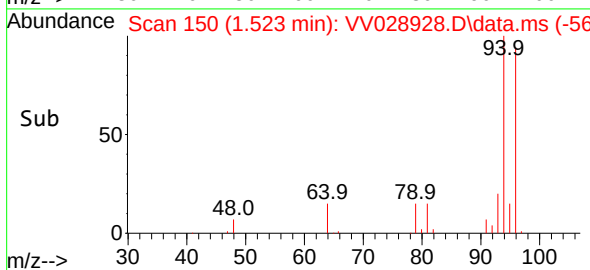
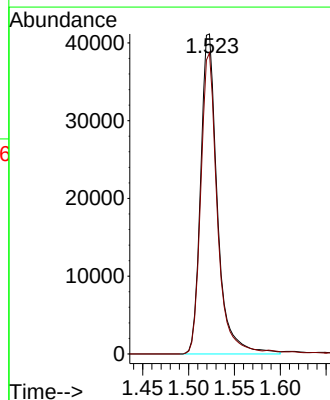
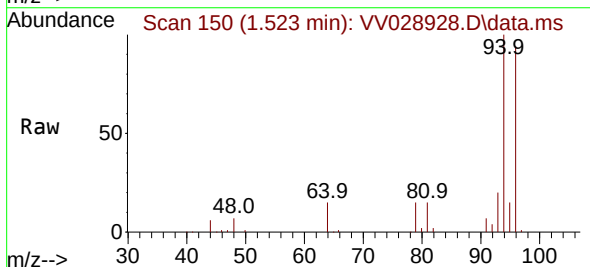
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

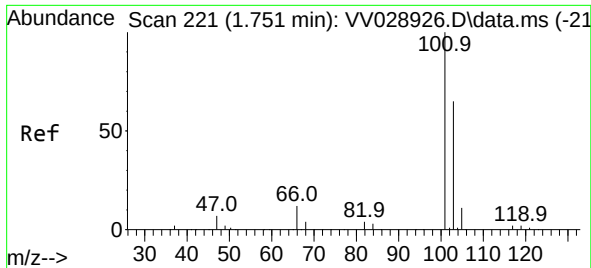
Tgt Ion: 50 Resp: 65610
Ion Ratio Lower Upper
50 100
52 32.9 23.7 43.9



#6
Bromomethane
Concen: 3.372 ug/L
RT: 1.523 min Scan# 150
Delta R.T. 0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Tgt Ion: 94 Resp: 52419
Ion Ratio Lower Upper
94 100
96 94.1 68.5 127.3

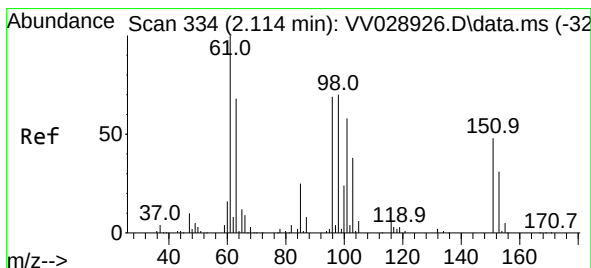
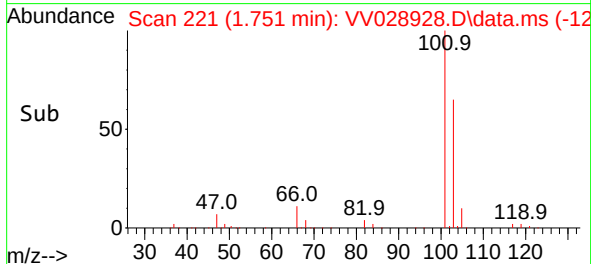
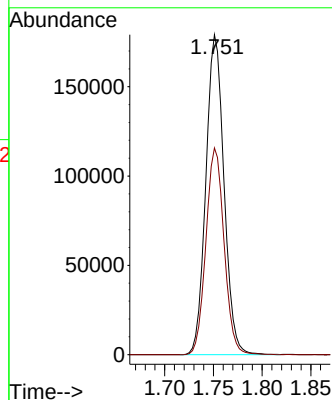
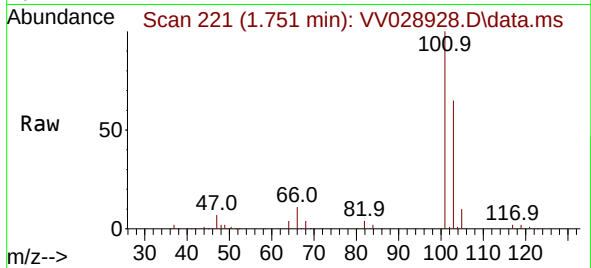




#9
 Trichlorofluoromethane
 Concen: 6.606 ug/L
 RT: 1.751 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VV028928.D
 Acq: 14 Nov 2022 11:05

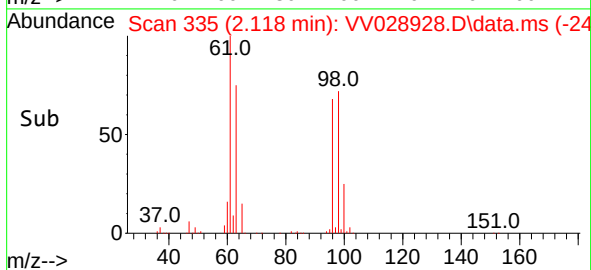
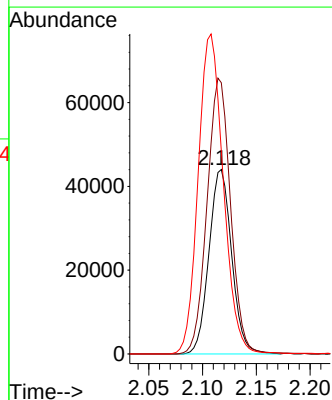
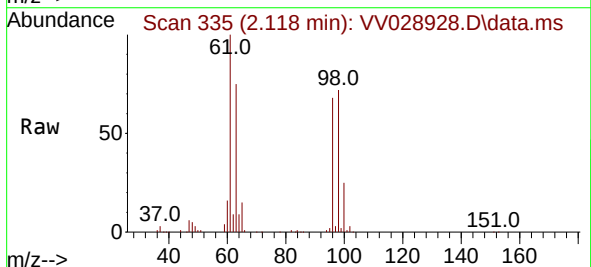
Instrument :
 MSVOA_V
 ClientSampleId :
 GBMY6

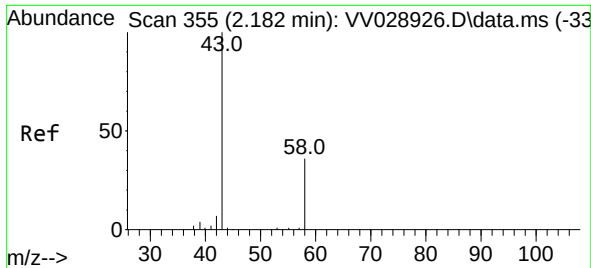
Tgt Ion:101 Resp: 231691
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.3 76.9



#12
 1,1-Dichloroethene
 Concen: 3.243 ug/L
 RT: 2.118 min Scan# 335
 Delta R.T. 0.003 min
 Lab File: VV028928.D
 Acq: 14 Nov 2022 11:05

Tgt Ion: 96 Resp: 64706
 Ion Ratio Lower Upper
 96 100
 61 147.0 104.2 193.4
 63 109.9 75.9 140.9





#13

Acetone

Concen: 62.699 ug/L

RT: 2.175 min Scan# 3

Delta R.T. -0.007 min

Lab File: VV028928.D

Acq: 14 Nov 2022 11:05

Instrument :

MSVOA_V

ClientSampleId :

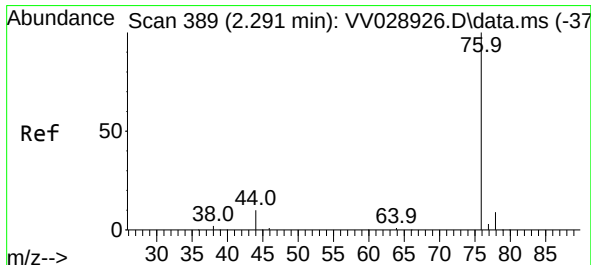
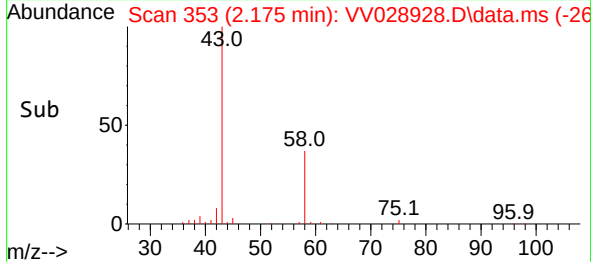
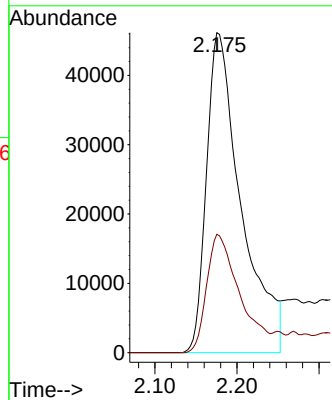
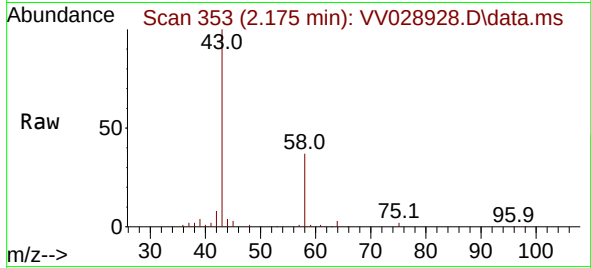
GBMY6

Tgt Ion: 43 Resp: 135663

Ion Ratio Lower Upper

43 100

58 35.4 0.0 56.6



#14

Carbon disulfide

Concen: 4.522 ug/L

RT: 2.291 min Scan# 389

Delta R.T. -0.000 min

Lab File: VV028928.D

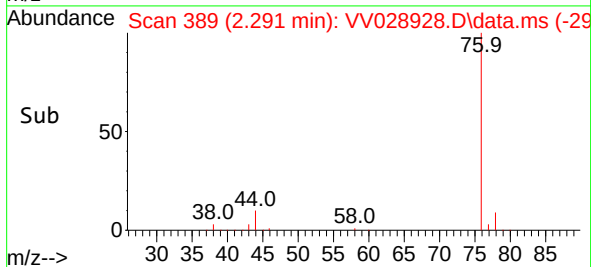
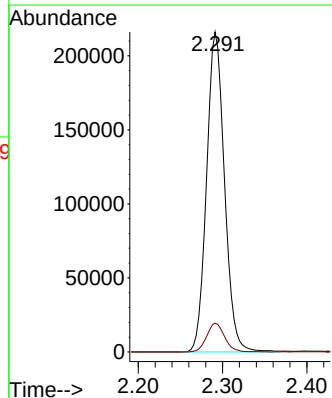
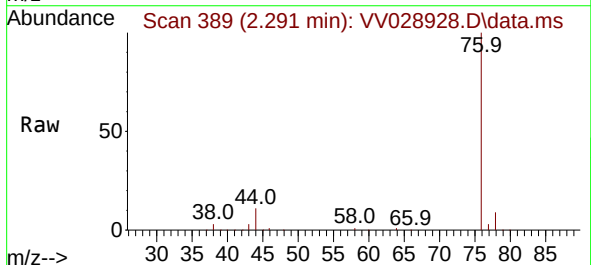
Acq: 14 Nov 2022 11:05

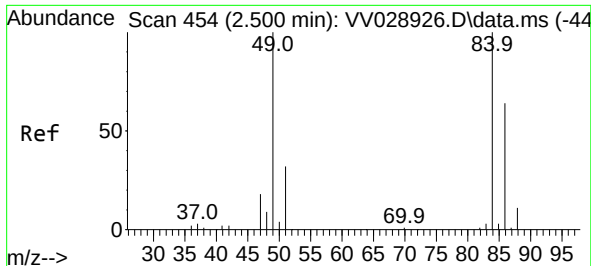
Tgt Ion: 76 Resp: 320416

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2

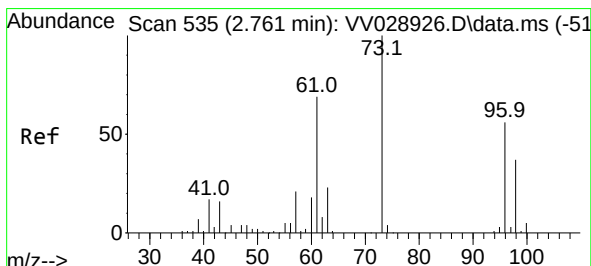
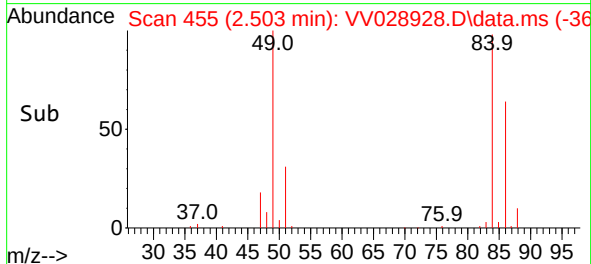
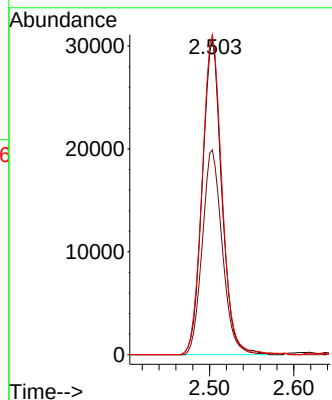
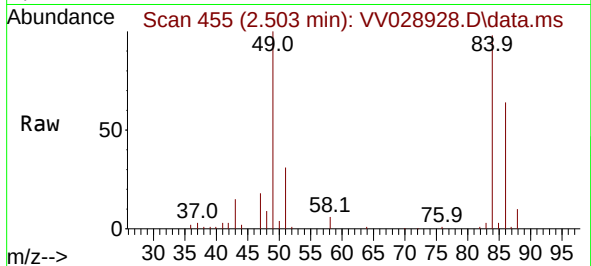




#16
Methylene chloride
Concen: 1.913 ug/L
RT: 2.503 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

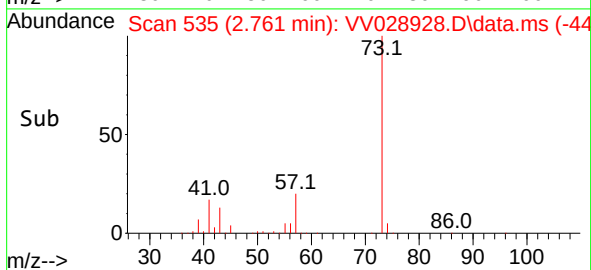
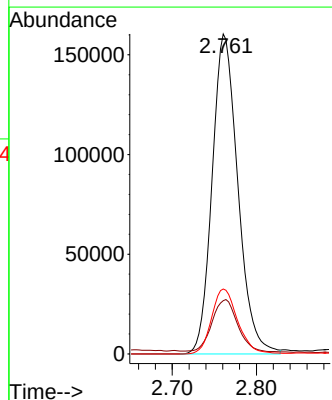
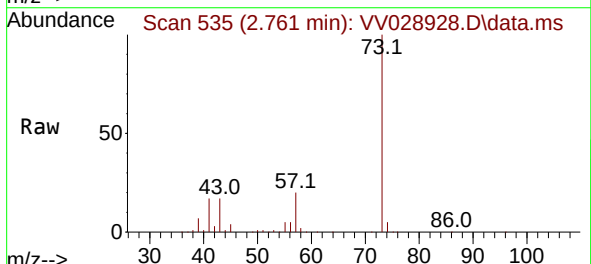
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

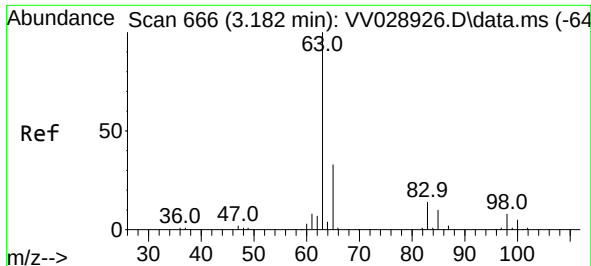
Tgt Ion: 84 Resp: 49347
Ion Ratio Lower Upper
84 100
86 65.0 45.8 85.0
49 101.6 75.5 140.1



#17
Methyl tert-butyl Ether
Concen: 7.962 ug/L
RT: 2.761 min Scan# 535
Delta R.T. -0.000 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Tgt Ion: 73 Resp: 340589
Ion Ratio Lower Upper
73 100
43 16.8 13.0 19.4
57 20.6 16.6 24.8





#19

1,1-Dichloroethane

Concen: 8.102 ug/L

RT: 3.182 min Scan# 6

Delta R.T. -0.000 min

Lab File: VV028928.D

Acq: 14 Nov 2022 11:05

Instrument :

MSVOA_V

ClientSampleId :

GBMY6

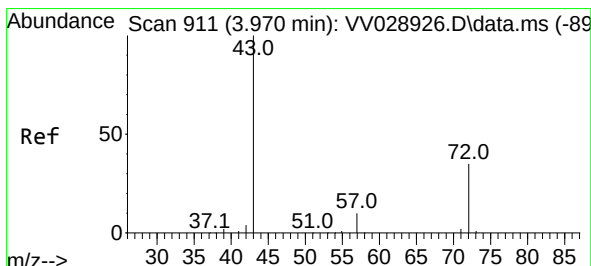
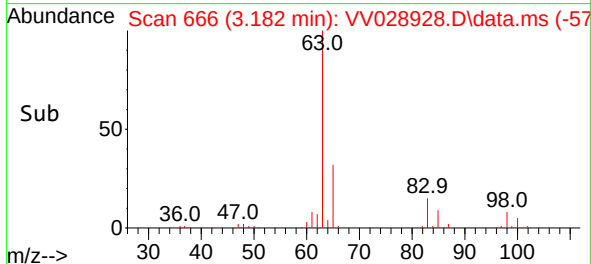
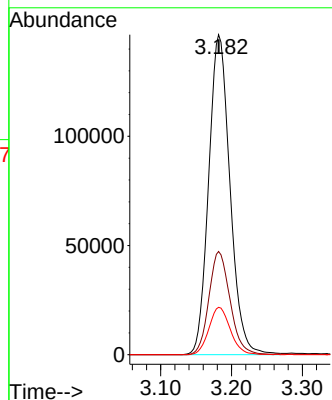
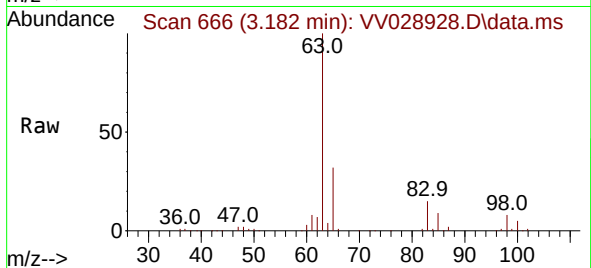
Tgt Ion: 63 Resp: 306486

Ion Ratio Lower Upper

63 100

65 32.3 23.0 42.6

83 14.8 9.4 17.6



#21

2-Butanone

Concen: 99.818 ug/L

RT: 3.963 min Scan# 909

Delta R.T. -0.007 min

Lab File: VV028928.D

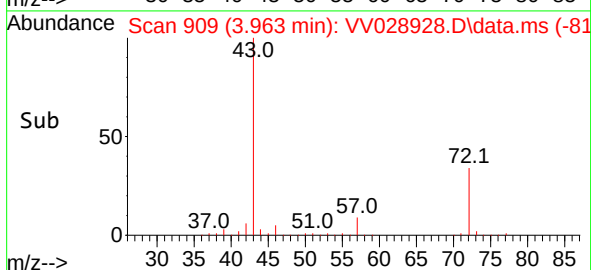
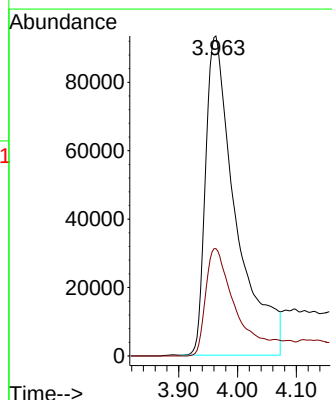
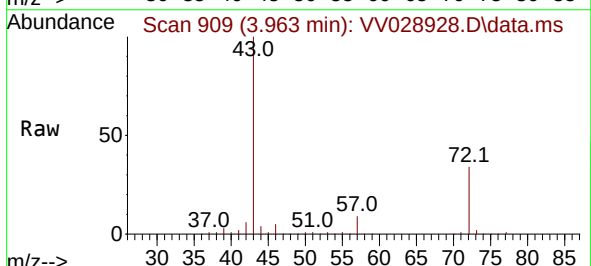
Acq: 14 Nov 2022 11:05

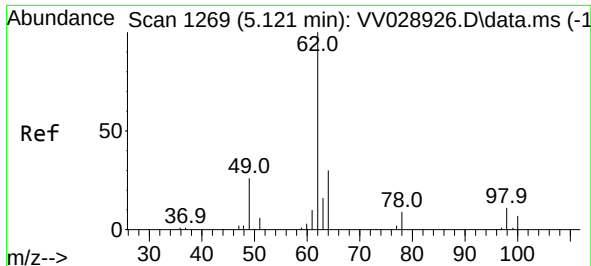
Tgt Ion: 43 Resp: 334382

Ion Ratio Lower Upper

43 100

72 32.6 11.9 35.9

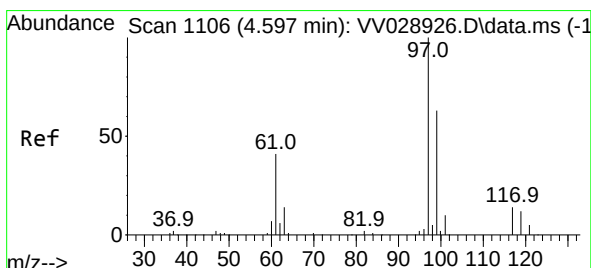
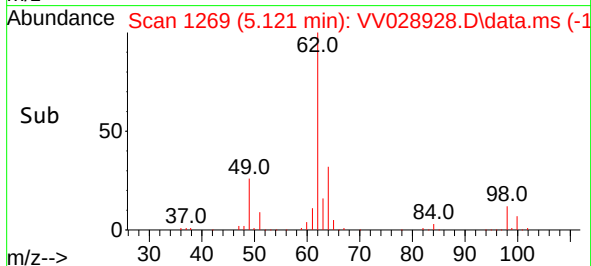
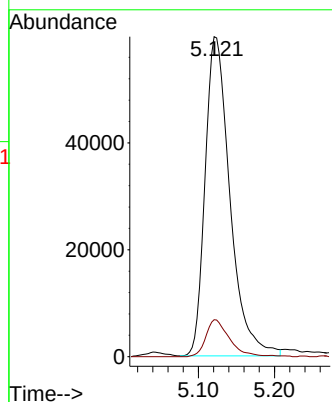
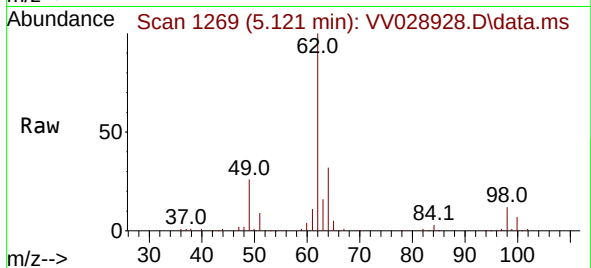




#27
1,2-Dichloroethane
Concen: 6.652 ug/L
RT: 5.121 min Scan# 1107
Delta R.T. -0.000 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

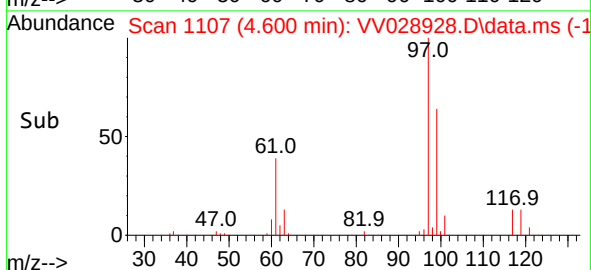
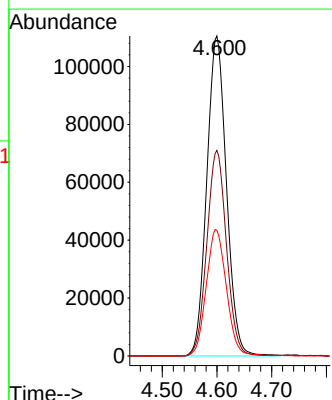
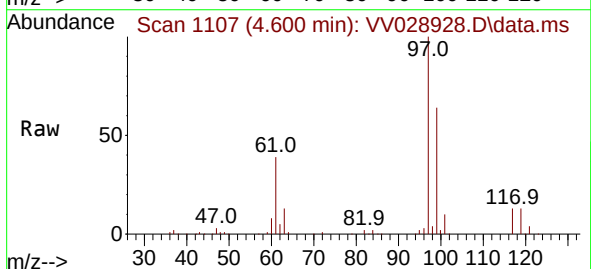
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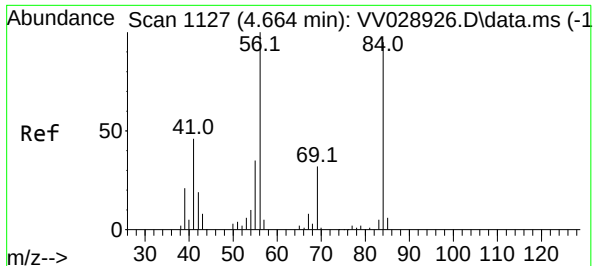
Tgt Ion: 62 Resp: 135872
Ion Ratio Lower Upper
62 100
98 11.5 9.0 13.6



#29
1,1,1-Trichloroethane
Concen: 7.621 ug/L
RT: 4.600 min Scan# 1107
Delta R.T. 0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Tgt Ion: 97 Resp: 275610
Ion Ratio Lower Upper
97 100
99 64.2 52.7 79.1
61 40.5 33.8 50.6

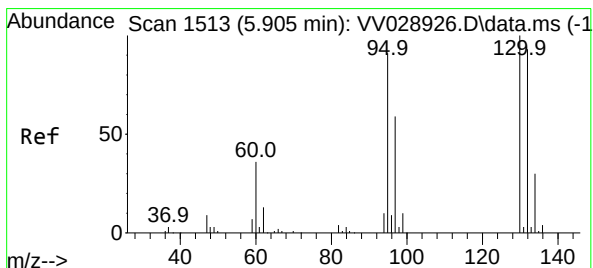
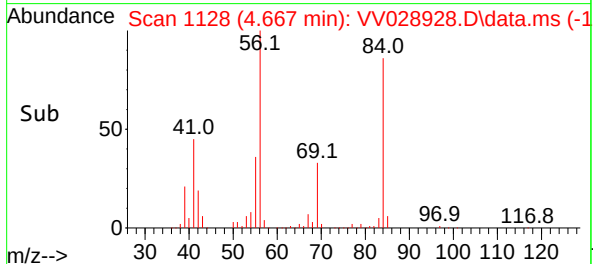
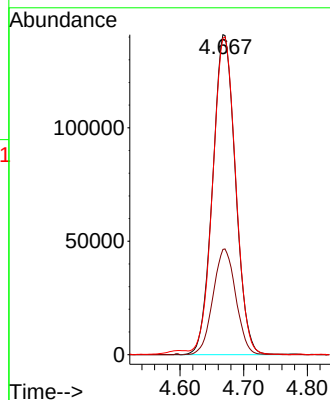
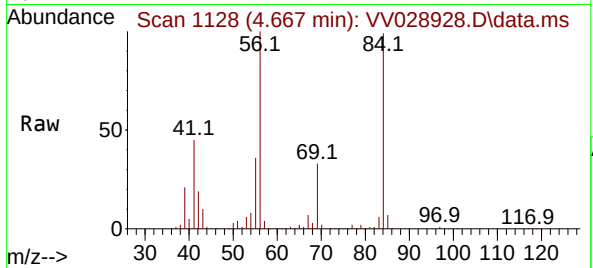




#30
Cyclohexane
Concen: 9.550 ug/L
RT: 4.667 min Scan# 1127
Delta R.T. 0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

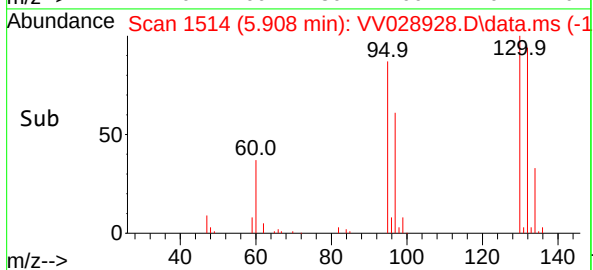
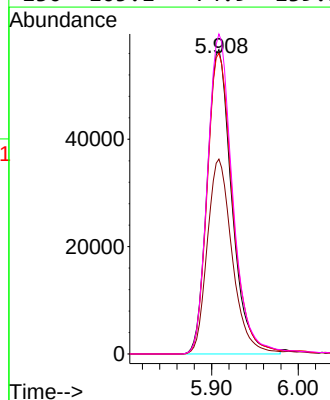
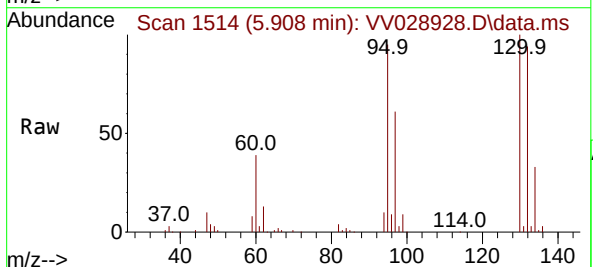
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

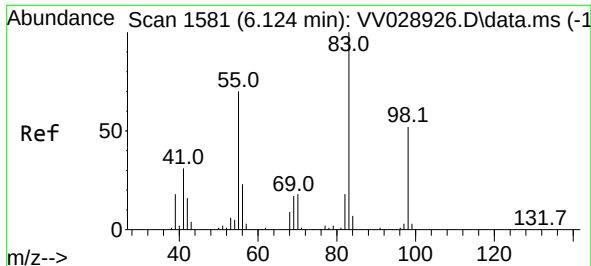
Tgt Ion: 56 Resp: 350989
Ion Ratio Lower Upper
56 100
69 33.0 26.1 39.1
84 99.7 77.9 116.9



#34
Trichloroethene
Concen: 4.671 ug/L
RT: 5.908 min Scan# 1514
Delta R.T. 0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Tgt Ion: 95 Resp: 112621
Ion Ratio Lower Upper
95 100
97 64.0 45.6 84.8
132 98.8 69.1 128.3
130 105.1 74.9 139.1

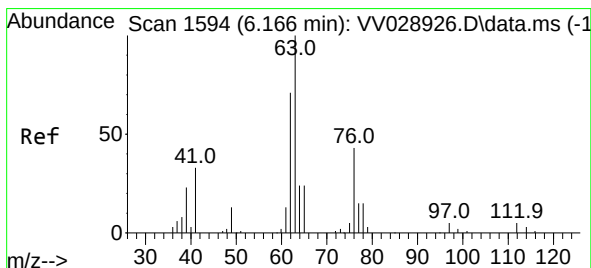
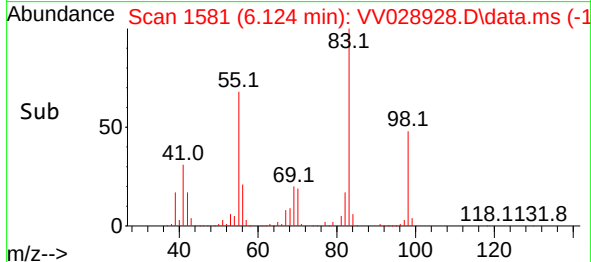
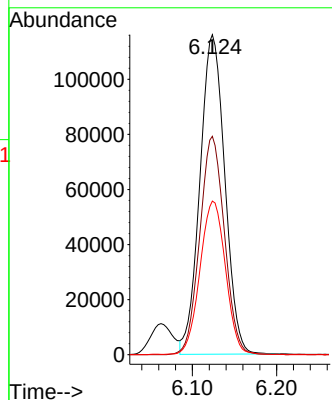
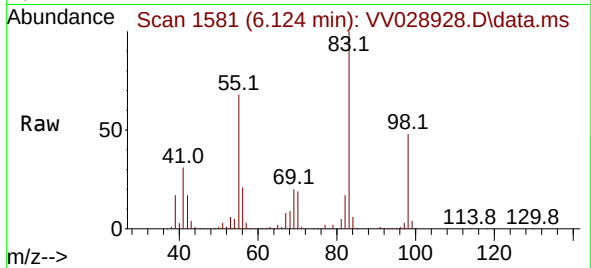




#35
Methylcyclohexane
Concen: 5.630 ug/L
RT: 6.124 min Scan# 1581
Delta R.T. -0.000 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

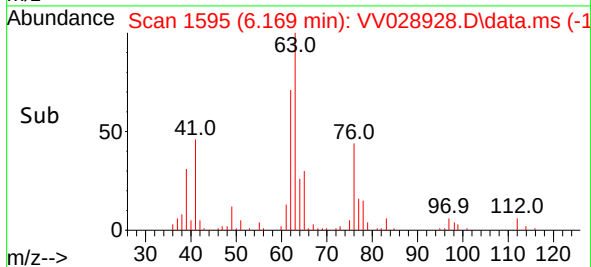
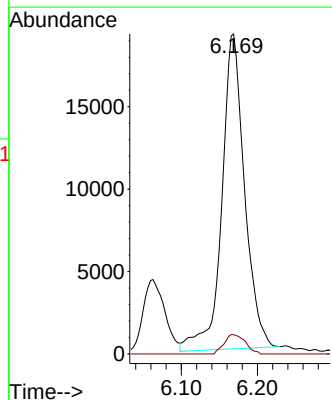
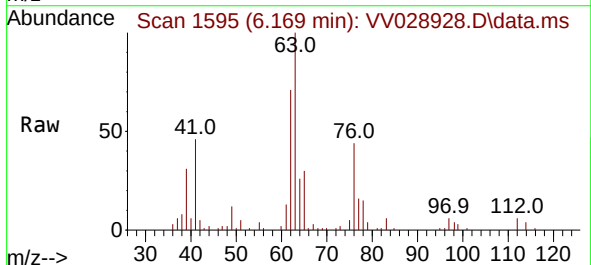
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

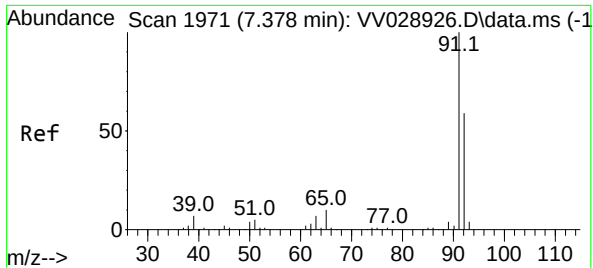
Tgt Ion: 83 Resp: 238535
Ion Ratio Lower Upper
83 100
55 67.9 55.8 83.6
98 49.0 38.2 57.2



#37
1,2-Dichloropropane
Concen: 1.828 ug/L
RT: 6.169 min Scan# 1595
Delta R.T. 0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Tgt Ion: 63 Resp: 39705
Ion Ratio Lower Upper
63 100
112 5.8 4.0 6.0

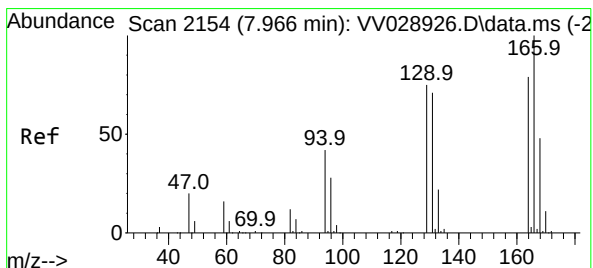
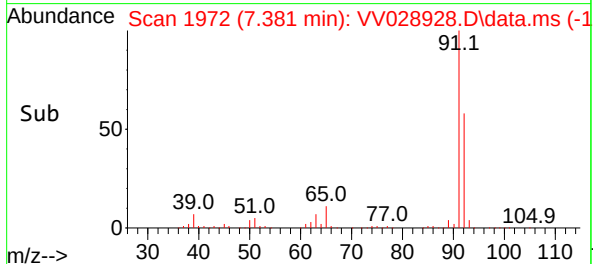
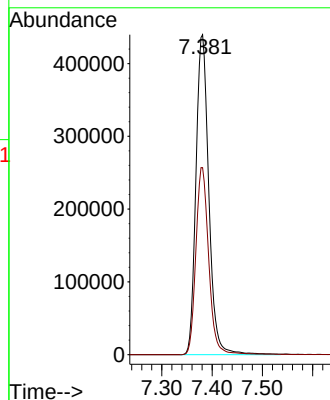
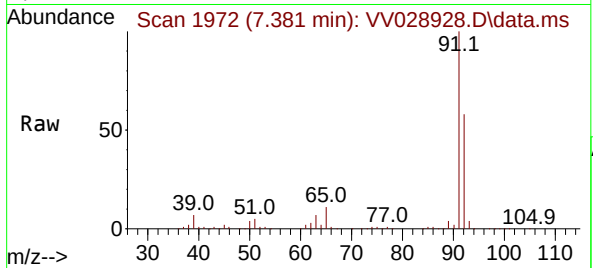




#42
Toluene
Concen: 7.669 ug/L
RT: 7.381 min Scan# 1971
Delta R.T. 0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

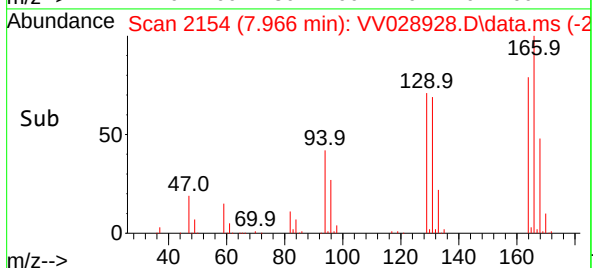
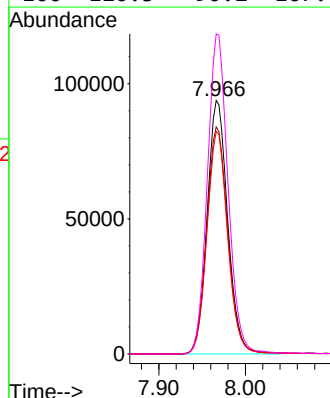
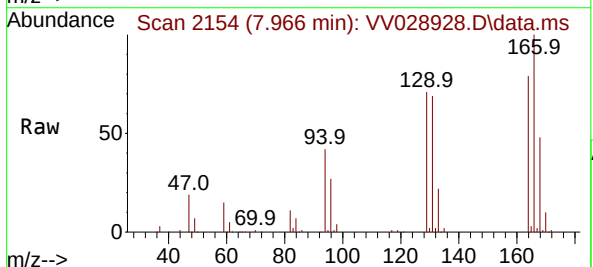
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

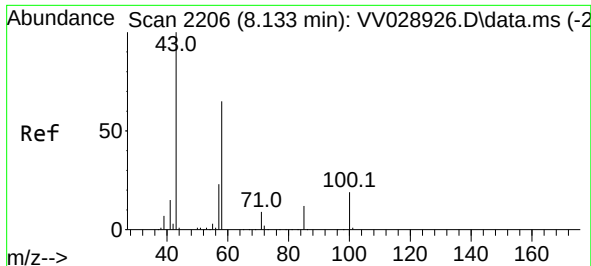
Tgt Ion: 91 Resp: 780237
Ion Ratio Lower Upper
91 100
92 58.5 40.7 75.5



#47
Tetrachloroethene
Concen: 8.020 ug/L
RT: 7.966 min Scan# 2154
Delta R.T. -0.000 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Tgt Ion: 164 Resp: 154822
Ion Ratio Lower Upper
164 100
129 89.6 63.9 118.7
131 87.7 61.8 114.8
166 126.3 90.2 167.4



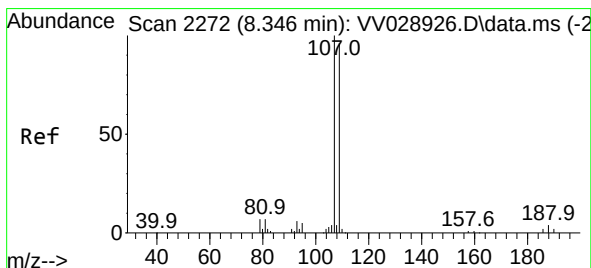
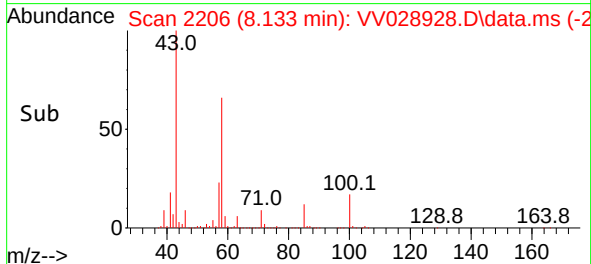
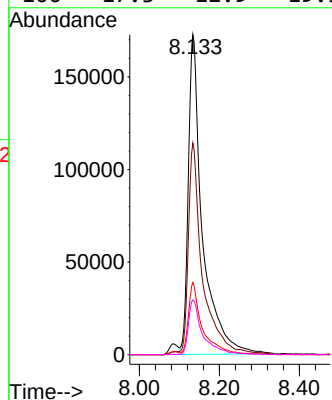
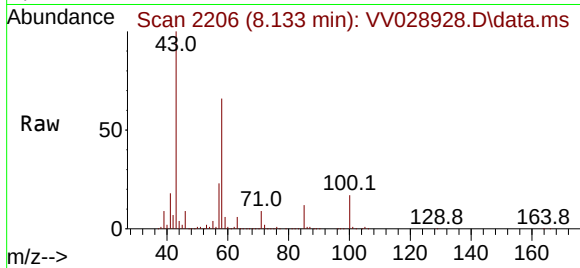


#48
2-Hexanone
Concen: 64.722 ug/L
RT: 8.133 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Instrument :
MSVOA_V
ClientSampleId :
GBMY6

Tgt Ion: 43 Resp: 423606

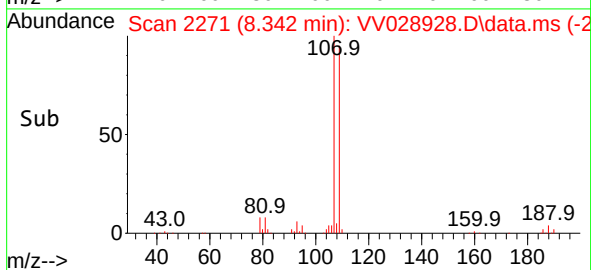
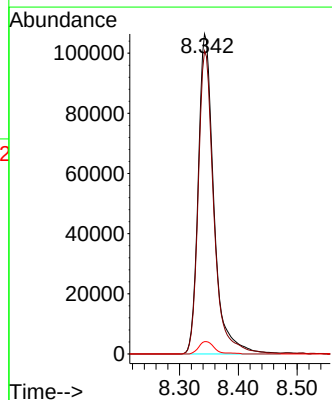
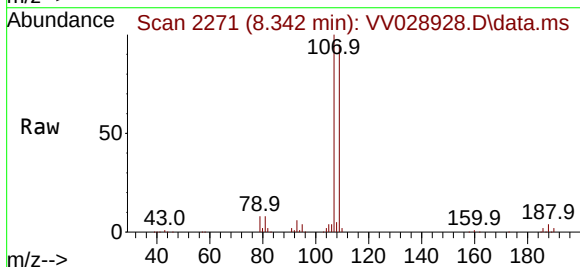
Ion	Ratio	Lower	Upper
43	100		
58	66.0	50.2	75.4
57	22.3	17.8	26.8
100	17.3	12.9	19.3

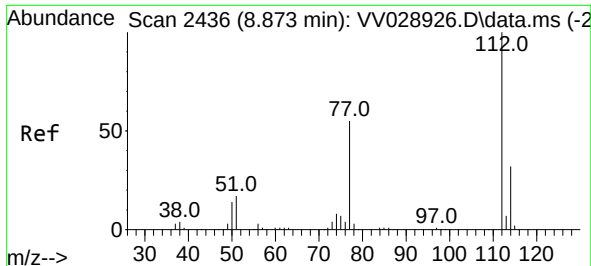


#50
1,2-Dibromoethane
Concen: 14.909 ug/L
RT: 8.342 min Scan# 2271
Delta R.T. -0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Tgt Ion: 107 Resp: 196904

Ion	Ratio	Lower	Upper
107	100		
109	94.7	64.4	119.6
188	3.8	2.9	4.3





#51

Chlorobenzene

Concen: 10.016 ug/L

RT: 8.873 min Scan# 2436

Delta R.T. -0.000 min

Lab File: VV028928.D

Acq: 14 Nov 2022 11:05

Instrument :

MSVOA_V

ClientSampleId :

GBMY6

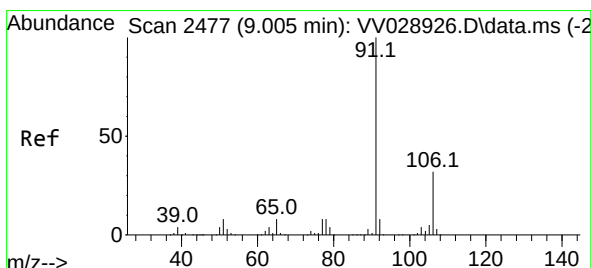
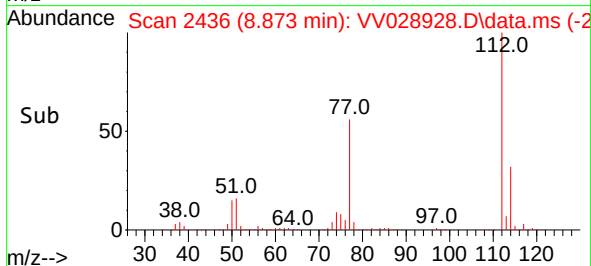
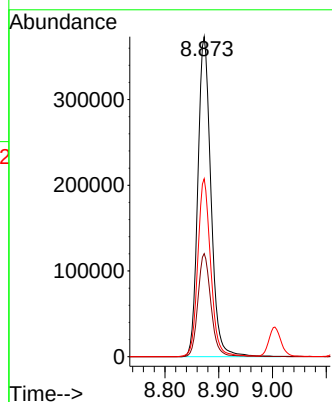
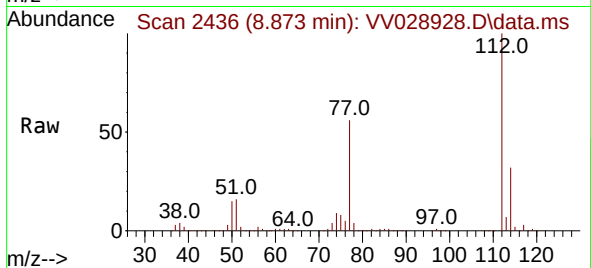
Tgt Ion:112 Resp: 630018

Ion Ratio Lower Upper

112 100

114 32.2 22.4 41.6

77 55.6 44.4 66.6



#52

Ethylbenzene

Concen: 6.170 ug/L

RT: 9.005 min Scan# 2477

Delta R.T. -0.000 min

Lab File: VV028928.D

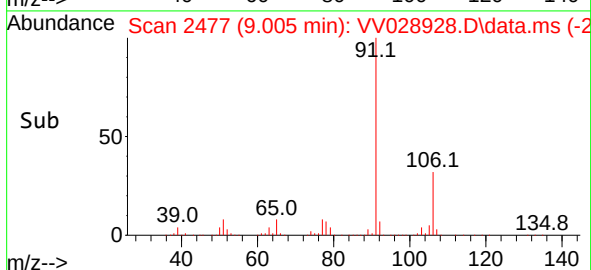
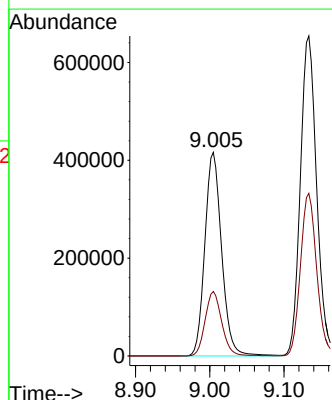
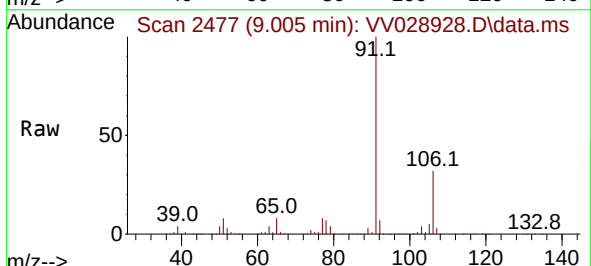
Acq: 14 Nov 2022 11:05

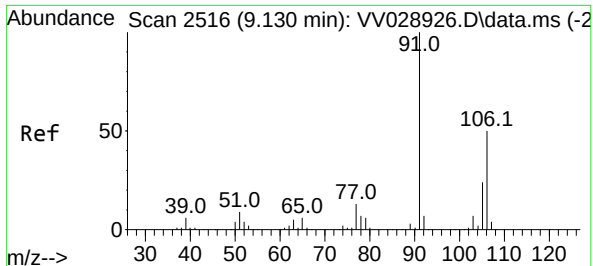
Tgt Ion: 91 Resp: 653566

Ion Ratio Lower Upper

91 100

106 31.7 21.6 40.2

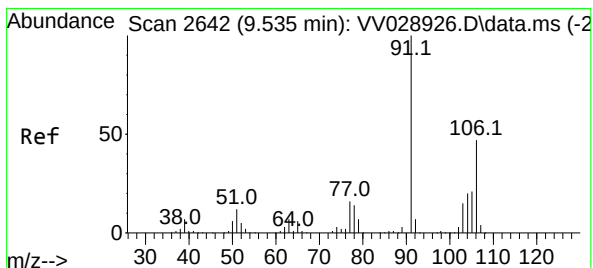
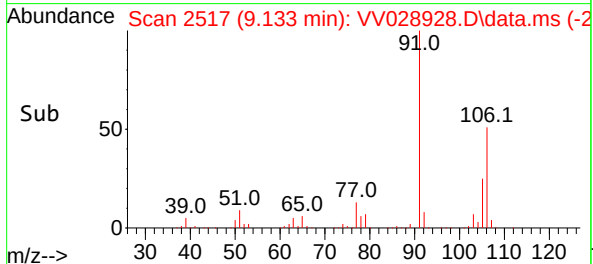
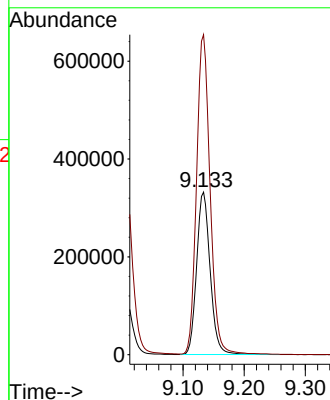
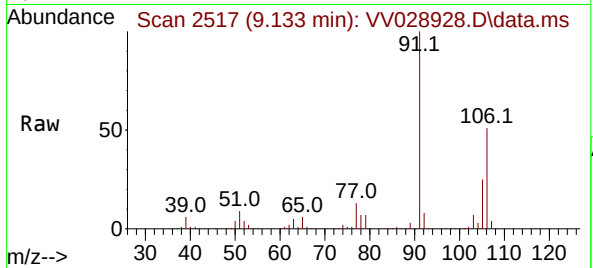




#53
m,p-Xylene
Concen: 12.137 ug/L
RT: 9.133 min Scan# 2517
Delta R.T. 0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

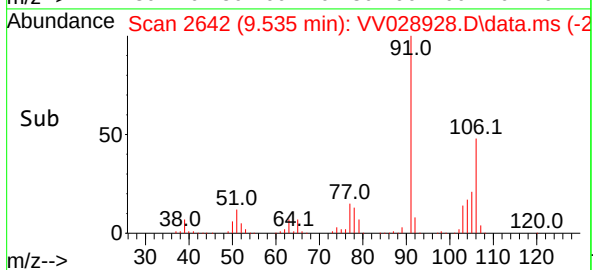
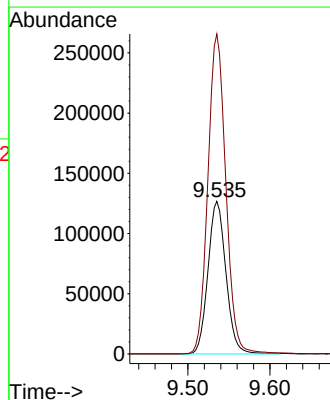
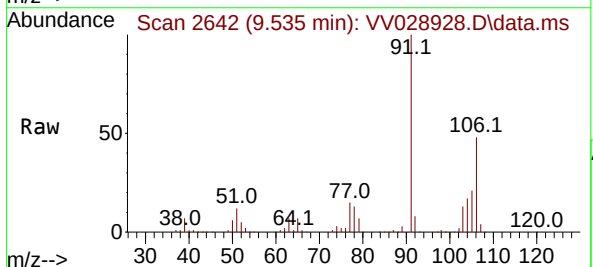
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

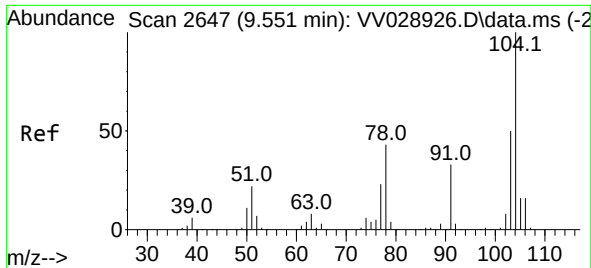
Tgt Ion:106 Resp: 511268
Ion Ratio Lower Upper
106 100
91 196.9 139.1 258.3



#54
o-Xylene
Concen: 4.834 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. -0.000 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Tgt Ion:106 Resp: 193580
Ion Ratio Lower Upper
106 100
91 209.7 145.7 270.7

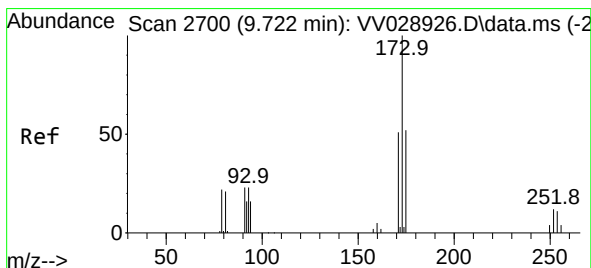
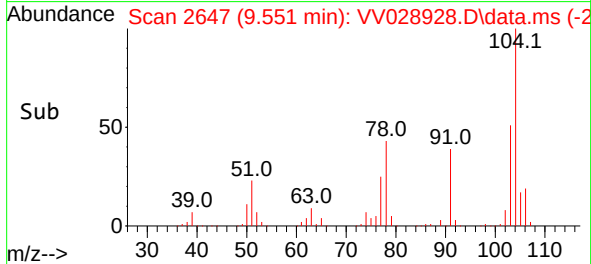
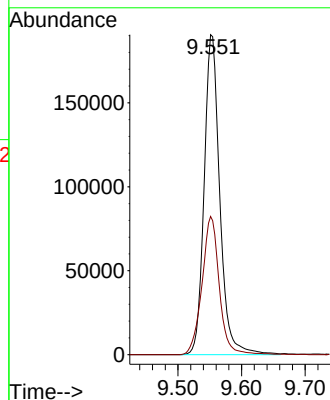
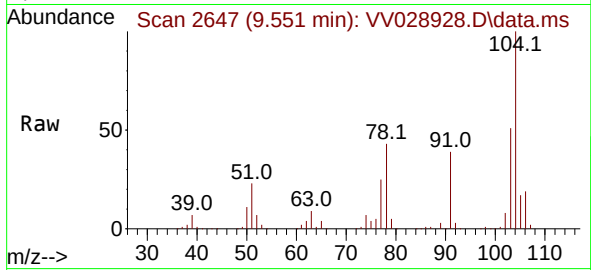




#55
Styrene
Concen: 4.853 ug/L
RT: 9.551 min Scan# 2647
Delta R.T. -0.000 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

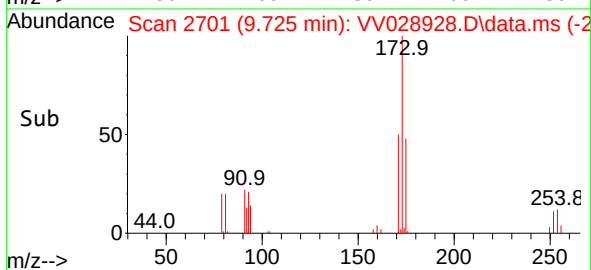
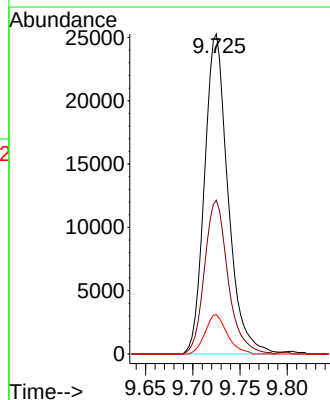
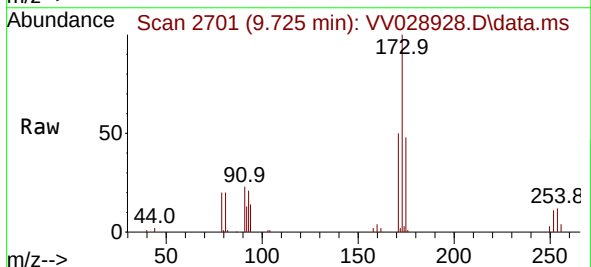
Instrument :
MSVOA_V
ClientSampleId :
GBMY6

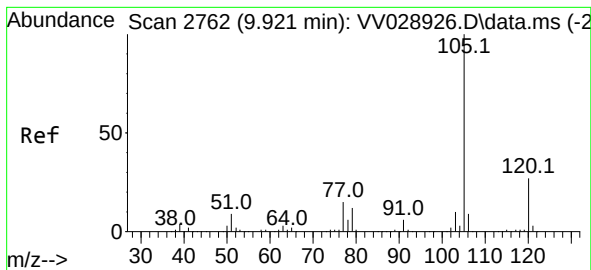
Tgt Ion:104 Resp: 325954
Ion Ratio Lower Upper
104 100
78 43.2 30.1 55.9



#59
Bromoform
Concen: 5.197 ug/L
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV028928.D
Acq: 14 Nov 2022 11:05

Tgt Ion:173 Resp: 43717
Ion Ratio Lower Upper
173 100
175 48.1 38.2 57.4
254 11.5 8.5 12.7





#60

Isopropylbenzene

Concen: 3.244 ug/L

RT: 9.924 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV028928.D

Acq: 14 Nov 2022 11:05

Instrument :

MSVOA_V

ClientSampleId :

GBMY6

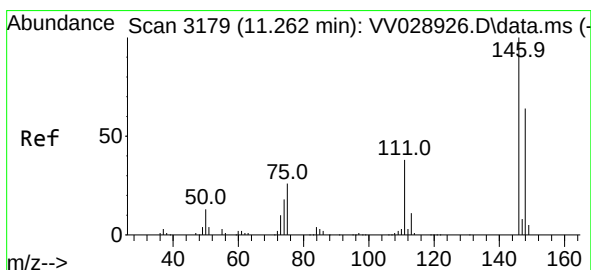
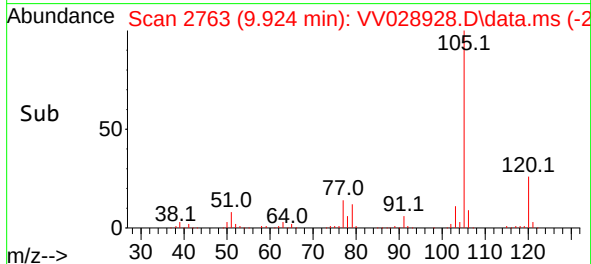
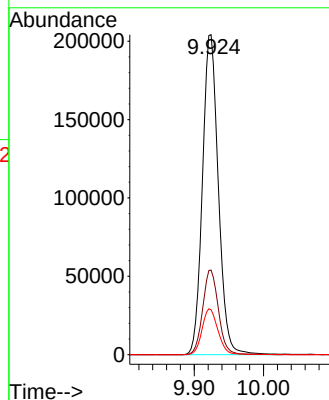
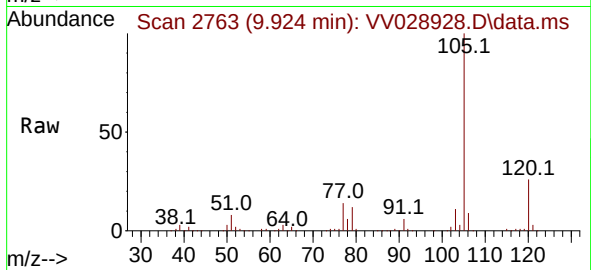
Tgt Ion:105 Resp: 324903

Ion Ratio Lower Upper

105 100

120 26.2 21.3 31.9

77 14.3 11.8 17.8



#65

1,4-Dichlorobenzene

Concen: 4.063 ug/L

RT: 11.265 min Scan# 3180

Delta R.T. 0.003 min

Lab File: VV028928.D

Acq: 14 Nov 2022 11:05

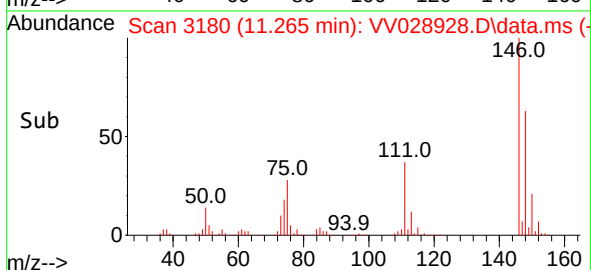
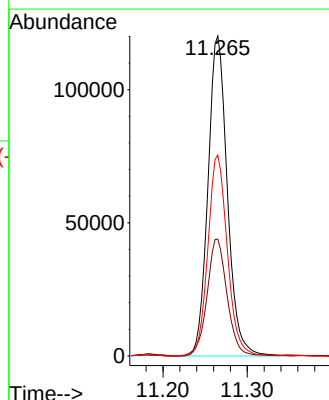
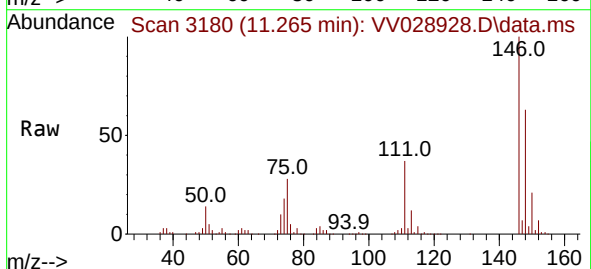
Tgt Ion:146 Resp: 192232

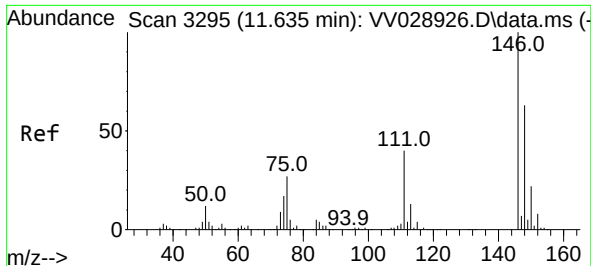
Ion Ratio Lower Upper

146 100

111 36.5 26.5 49.3

148 62.7 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 11.408 ug/L

RT: 11.635 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV028928.D

Acq: 14 Nov 2022 11:05

Instrument :

MSVOA_V

ClientSampleId :

GBMY6

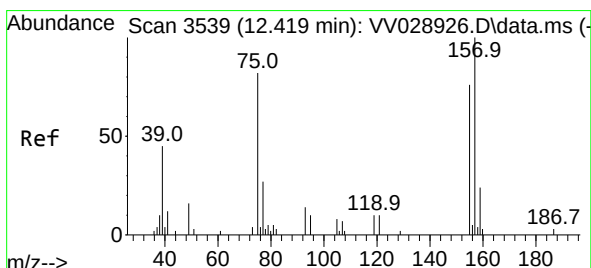
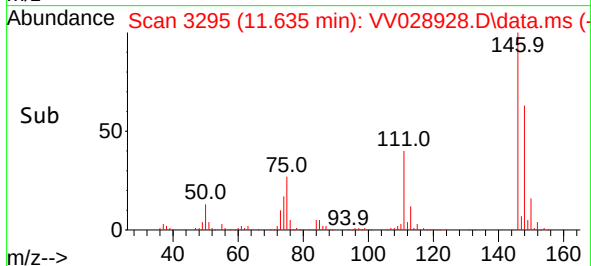
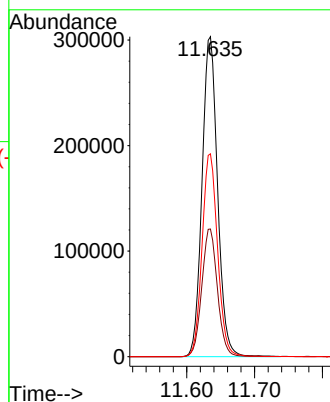
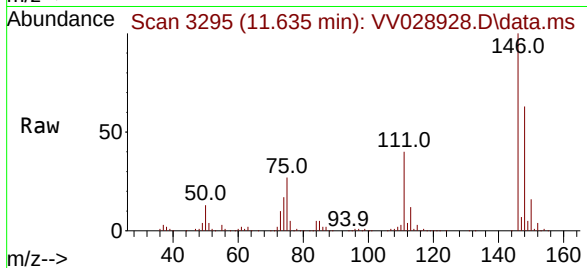
Tgt Ion:146 Resp: 482356

Ion Ratio Lower Upper

146 100

111 39.9 32.4 48.6

148 63.4 49.4 74.2



#68

1,2-Dibromo-3-chloropropane

Concen: 3.924 ug/L

RT: 12.419 min Scan# 3539

Delta R.T. -0.000 min

Lab File: VV028928.D

Acq: 14 Nov 2022 11:05

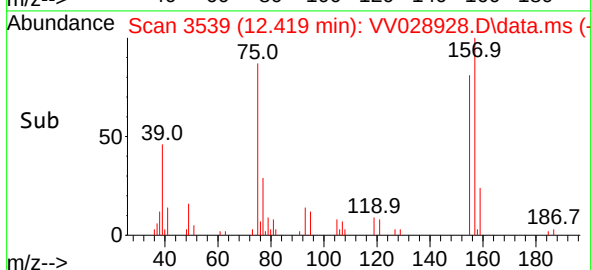
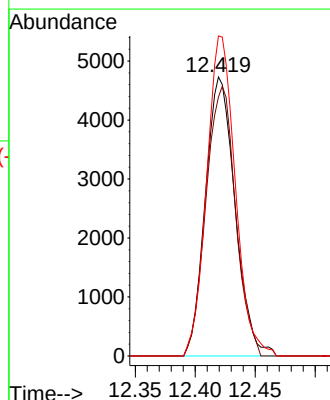
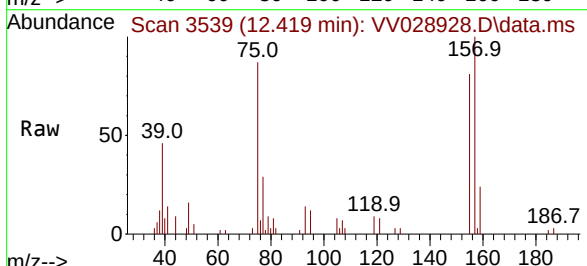
Tgt Ion: 75 Resp: 8141

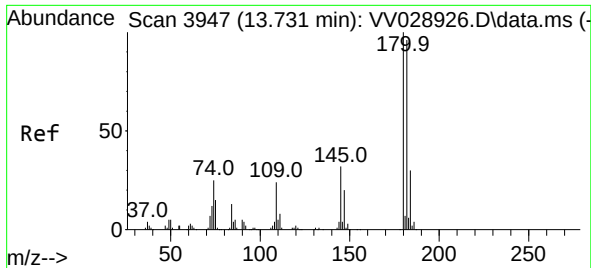
Ion Ratio Lower Upper

75 100

155 92.8 64.8 97.2

157 114.7 86.3 129.5





#72

1,2,3-Trichlorobenzene

Concen: 10.281 ug/L

RT: 13.731 min Scan# 3947

Delta R.T. -0.000 min

Lab File: VV028928.D

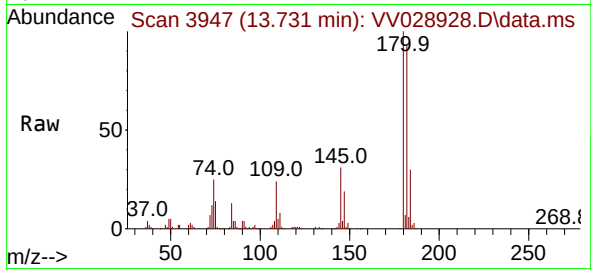
Acq: 14 Nov 2022 11:05

Instrument :

MSVOA_V

ClientSampleId :

GBMY6



Tgt Ion:	180	Resp:	239130
Ion Ratio	Lower	Upper	
180	100		
182	94.3	75.4	113.2
145	30.8	24.9	37.3

