

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122021\
 Data File : VU046513.D
 Acq On : 20 Dec 2021 16:30
 Operator : SY/MD
 Sample : M5150-25
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBBY1

Quant Time: Dec 21 00:16:53 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Dec 20 00:25:10 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	128723	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	128655	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	65344	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	50148	47.294	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.580%
7) Chloroethane-d5	1.919	69	37994	46.668	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.340%
11) 1,1-Dichloroethene-d2	2.575	63	77708	40.823	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.640%
21) 2-Butanone-d5	4.639	46	74417	88.284	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.280%
24) Chloroform-d	5.067	84	87497	49.413	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.820%
26) 1,2-Dichloroethane-d4	5.703	65	58745	49.434	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.860%
32) Benzene-d6	5.732	84	173254	46.984	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.960%
36) 1,2-Dichloropropane-d6	6.694	67	53310	46.648	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.300%
41) Toluene-d8	7.899	98	152748	45.495	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.000%
43) trans-1,3-Dichloroprop...	8.179	79	26648	48.304	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.600%
47) 2-Hexanone-d5	8.636	63	54892	101.305	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.300%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	77894	44.944	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.880%
66) 1,2-Dichlorobenzene-d4	12.195	152	59046	46.921	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.840%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.388	85	910	0.650	ug/L	94
5) Vinyl chloride	1.610	62	2117	1.676	ug/L #	56
9) Trichlorofluoromethane	2.144	101	1047	0.635	ug/L	92
10) 1,1,2-Trichloro-1,2,2-...	2.584	101	1138	1.215	ug/L #	54
12) 1,1-Dichloroethene	2.588	96	22832	25.653	ug/L #	81
13) Acetone	2.668	43	9605	9.117	ug/L	66
14) Carbon disulfide	2.800	76	2706	0.980	ug/L #	94
17) trans-1,2-Dichloroethene	3.359	96	4169	4.426	ug/L	93
19) 1,1-Dichloroethane	3.874	63	1159	0.677	ug/L #	73
20) cis-1,2-Dichloroethene	4.671	96	349088	341.566	ug/L	99
29) Cyclohexane	5.395	56	2468	1.647	ug/L	91
30) 1,1,1-Trichloroethane	5.321	97	807	0.511	ug/L	96
31) Carbon tetrachloride	5.530	117	674	0.503	ug/L #	49
33) Benzene	5.780	78	3415	0.877	ug/L	100
34) Trichloroethene	6.549	95	3628641	3537.317	ug/L	96
38) Bromodichloromethane	7.108	83	696	0.513	ug/L #	88
42) Toluene	7.973	91	4989	1.194	ug/L	87
45) 1,1,2-Trichloroethane	8.404	97	1221	1.193	ug/L #	81
46) Tetrachloroethene	8.555	164	3652	4.844	ug/L	93

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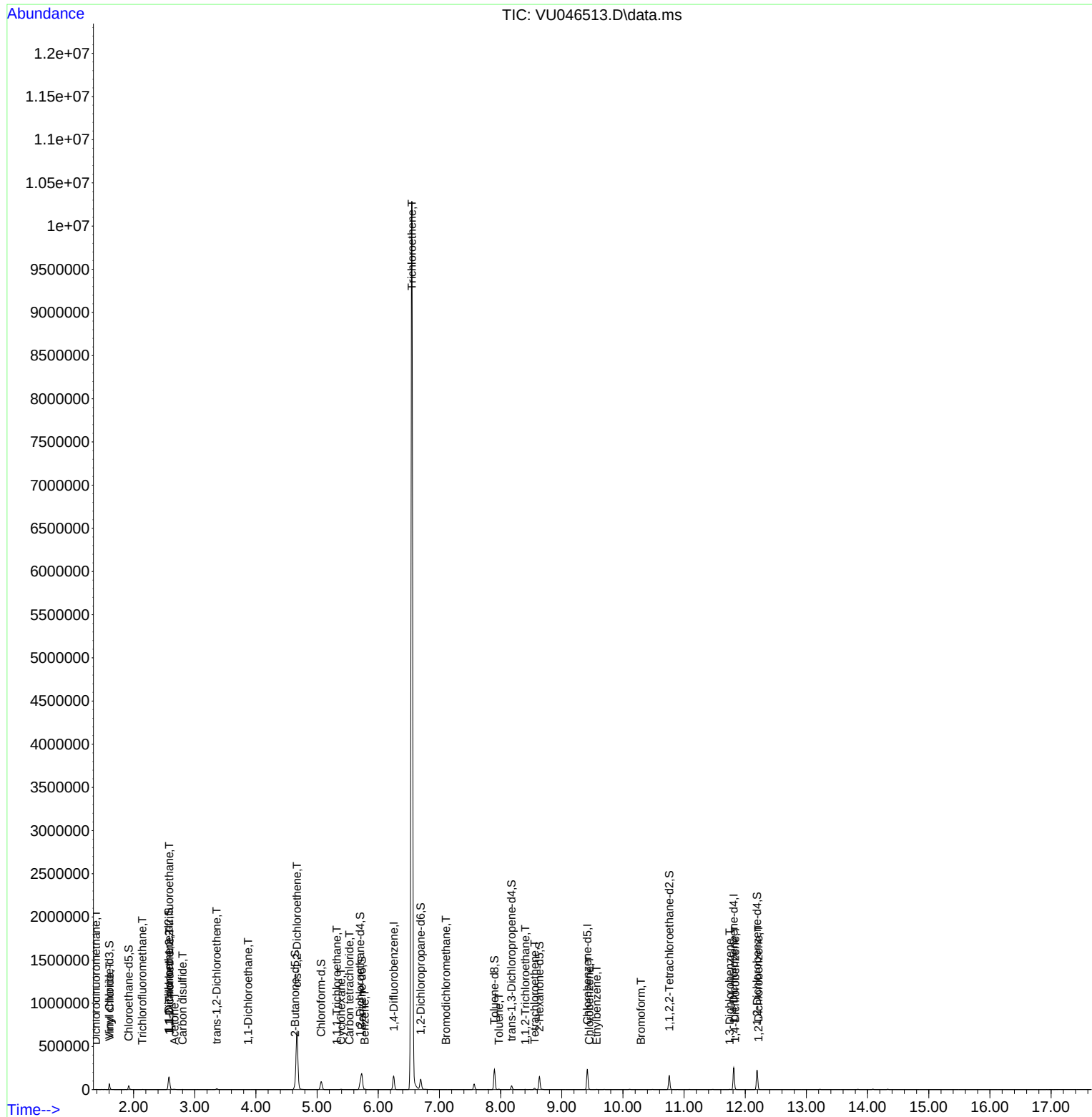
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.449	112	2181	0.807	ug/L	88
52) Ethylbenzene	9.571	91	2813	0.626	ug/L	94
59) Bromoform	10.295	173	559	0.729	ug/L #	66
64) 1,3-Dichlorobenzene	11.745	146	1911	0.946	ug/L	82
65) 1,4-Dichlorobenzene	11.835	146	2001	0.959	ug/L	95
67) 1,2-Dichlorobenzene	12.214	146	1718	0.845	ug/L #	85

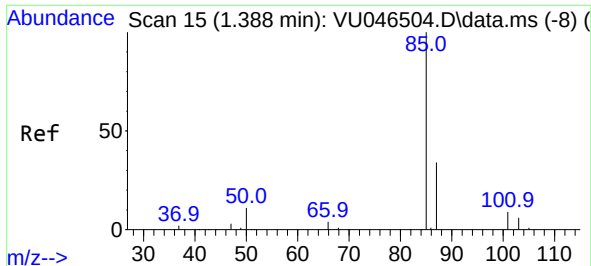
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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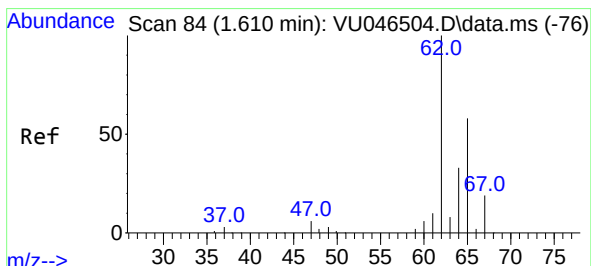
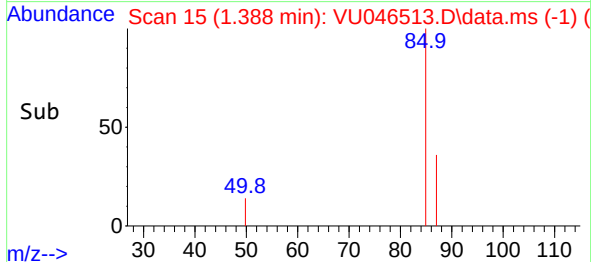
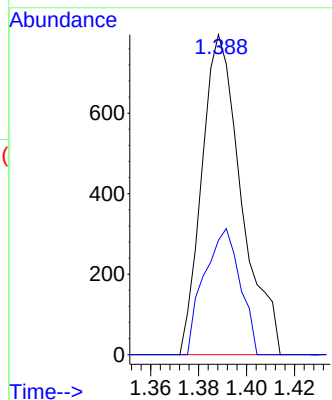
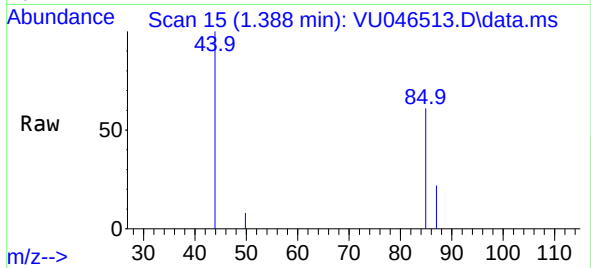




#2
Dichlorodifluoromethane
Concen: 0.650 ug/L
RT: 1.388 min Scan# 15
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

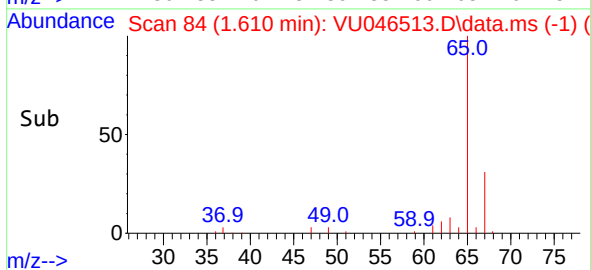
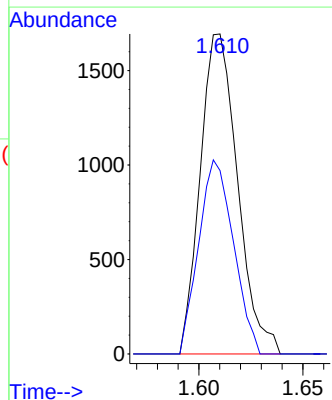
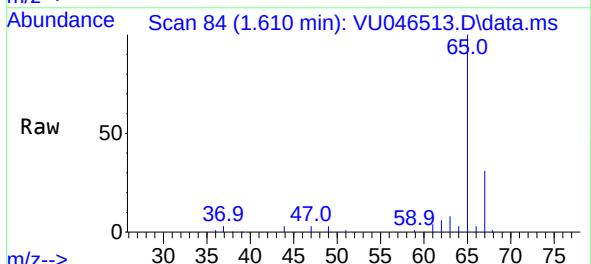
Instrument :
MSVOA_U
ClientSampleId :
GBBY1

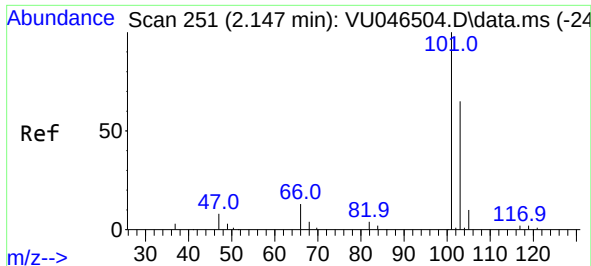
Tgt Ion: 85 Resp: 910
Ion Ratio Lower Upper
85 100
87 35.7 25.7 38.5



#5
Vinyl chloride
Concen: 1.676 ug/L
RT: 1.610 min Scan# 84
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Tgt Ion: 62 Resp: 2117
Ion Ratio Lower Upper
62 100
64 57.3 22.9 42.5#

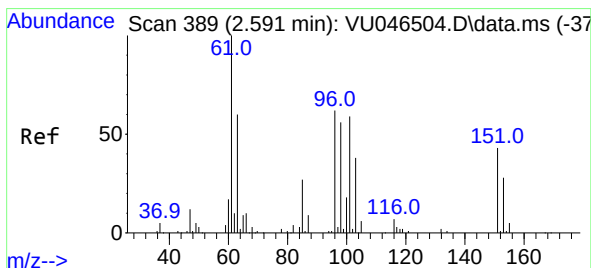
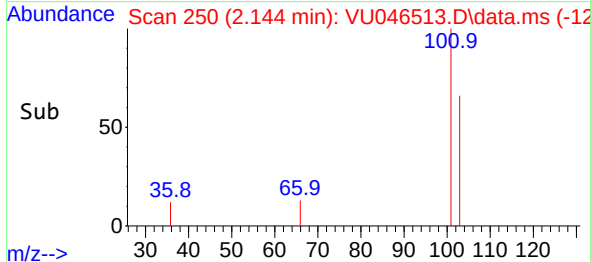
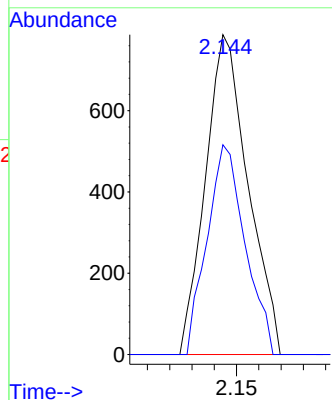
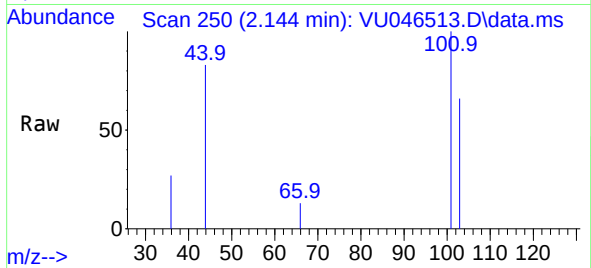




#9
 Trichlorofluoromethane
 Concen: 0.635 ug/L
 RT: 2.144 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: VU046513.D
 Acq: 20 Dec 2021 16:30

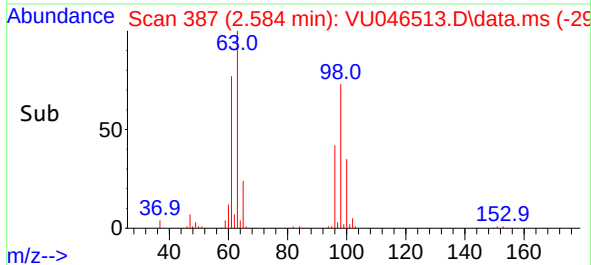
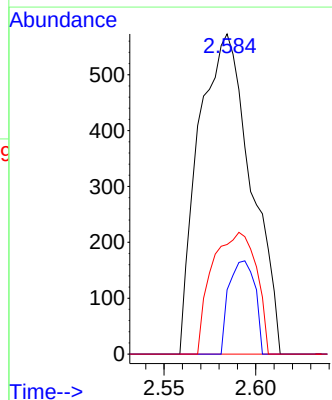
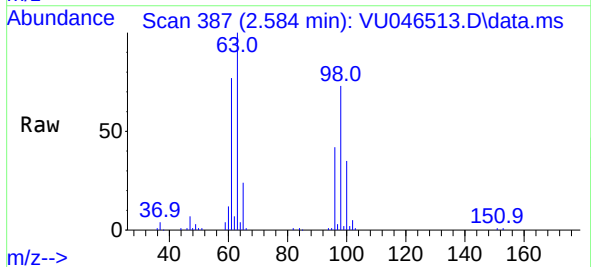
Instrument :
 MSVOA_U
 ClientSampleId :
 GBBY1

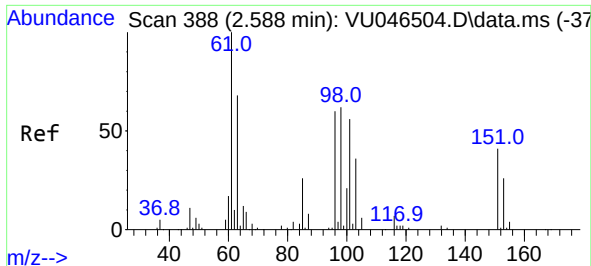
Tgt Ion:101 Resp: 1047
 Ion Ratio Lower Upper
 101 100
 103 58.5 51.8 77.6



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 1.215 ug/L
 RT: 2.584 min Scan# 387
 Delta R.T. -0.003 min
 Lab File: VU046513.D
 Acq: 20 Dec 2021 16:30

Tgt Ion:101 Resp: 1138
 Ion Ratio Lower Upper
 101 100
 85 14.4 35.1 52.7#
 151 32.1 56.7 85.1#

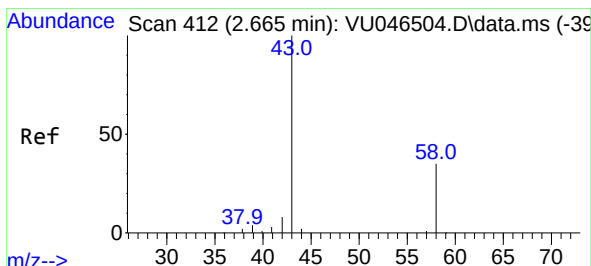
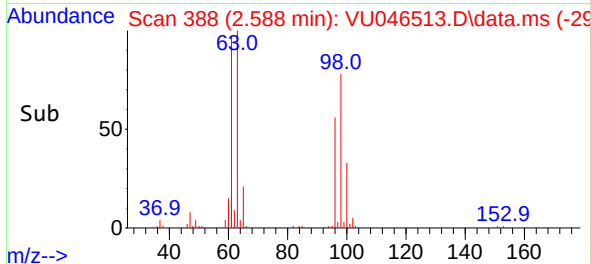
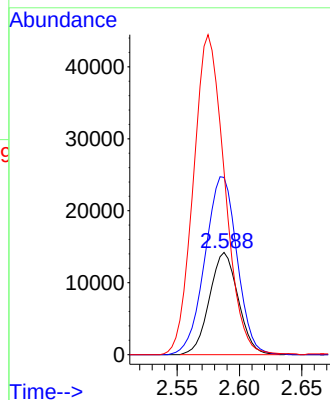
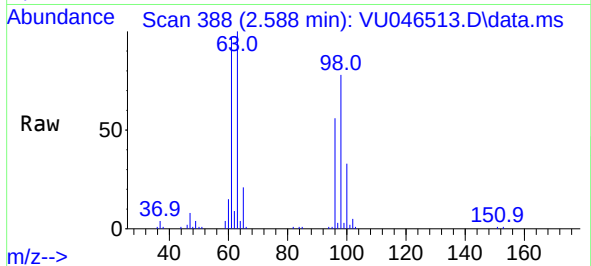




#12
1,1-Dichloroethene
Concen: 25.653 ug/L
RT: 2.588 min Scan# 388
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

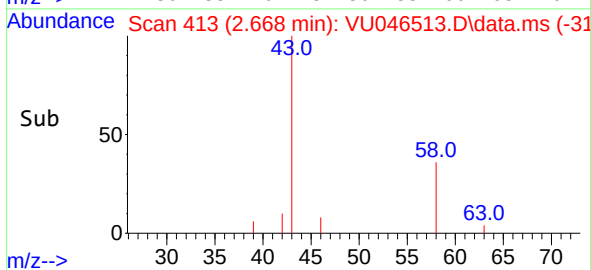
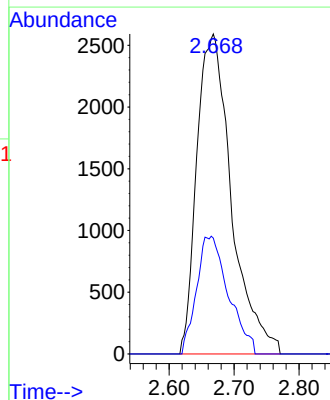
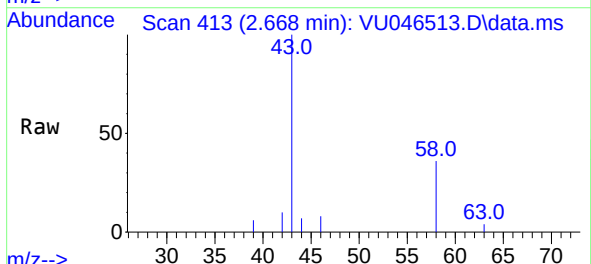
Instrument :
MSVOA_U
ClientSampleId :
GBBY1

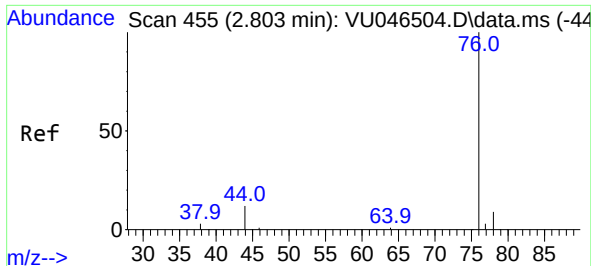
Tgt Ion: 96 Resp: 22832
Ion Ratio Lower Upper
96 100
61 173.6 118.6 220.2
63 179.8 93.0 172.8#



#13
Acetone
Concen: 9.117 ug/L
RT: 2.668 min Scan# 413
Delta R.T. 0.003 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Tgt Ion: 43 Resp: 9605
Ion Ratio Lower Upper
43 100
58 14.2 0.0 66.8

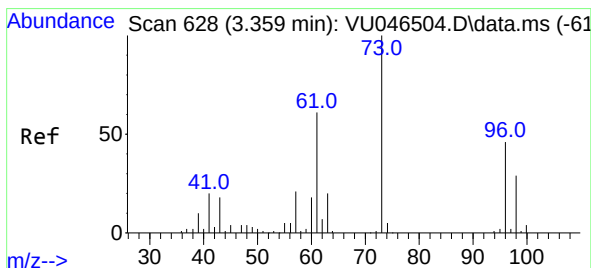
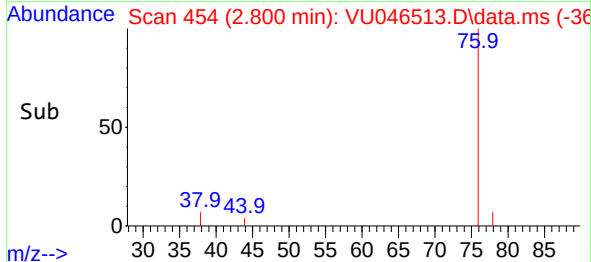
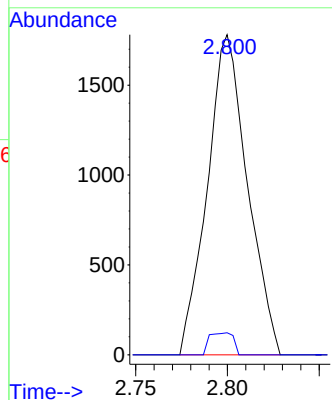
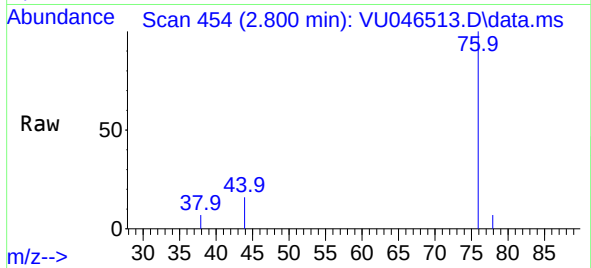




#14
Carbon disulfide
Concen: 0.980 ug/L
RT: 2.800 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

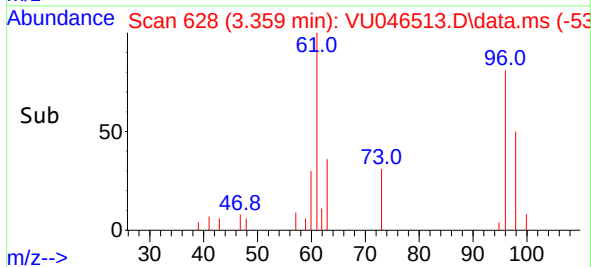
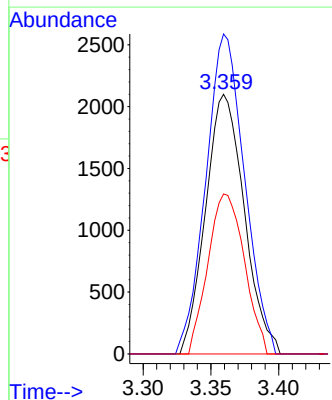
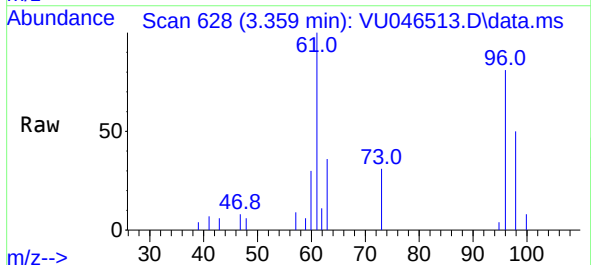
Instrument :
MSVOA_U
ClientSampleId :
GBBY1

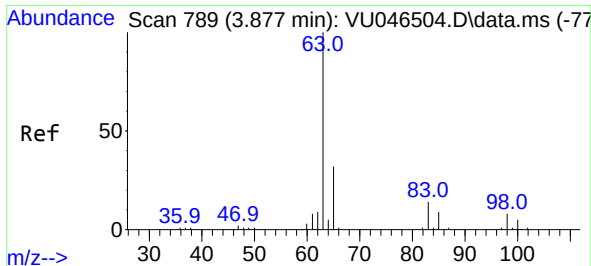
Tgt Ion: 76 Resp: 2706
Ion Ratio Lower Upper
76 100
78 6.9 7.3 10.9#



#17
trans-1,2-Dichloroethene
Concen: 4.426 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Tgt Ion: 96 Resp: 4169
Ion Ratio Lower Upper
96 100
61 123.2 94.6 175.6
98 61.6 44.0 81.8





#19

1,1-Dichloroethane

Concen: 0.677 ug/L

RT: 3.874 min Scan# 789

Delta R.T. -0.003 min

Lab File: VU046513.D

Acq: 20 Dec 2021 16:30

Instrument :

MSVOA_U

ClientSampleId :

GBBY1

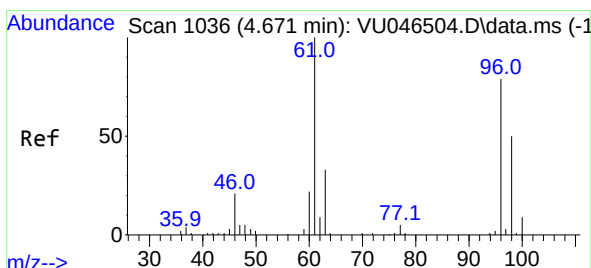
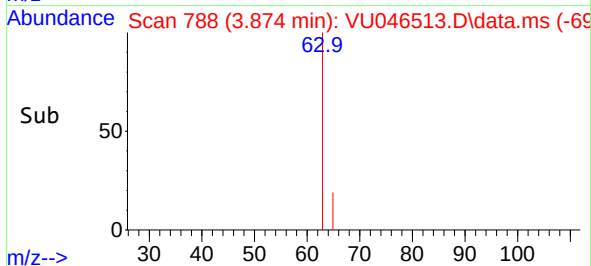
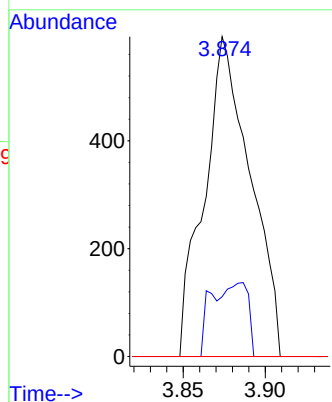
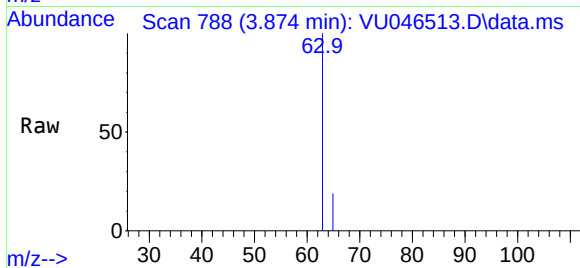
Tgt Ion: 63 Resp: 1159

Ion Ratio Lower Upper

63 100

65 18.7 22.8 42.4#

83 0.0 9.6 17.8#



#20

cis-1,2-Dichloroethene

Concen: 341.566 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU046513.D

Acq: 20 Dec 2021 16:30

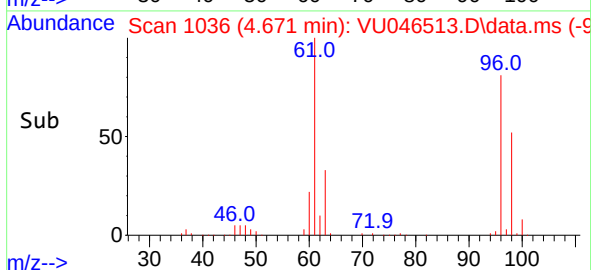
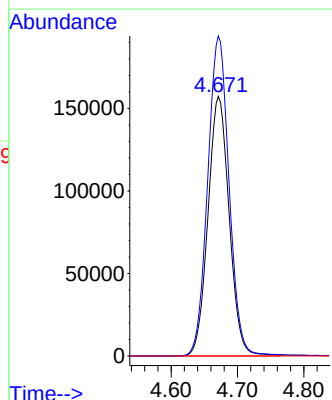
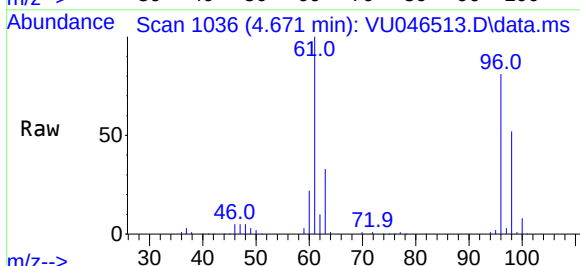
Tgt Ion: 96 Resp: 349088

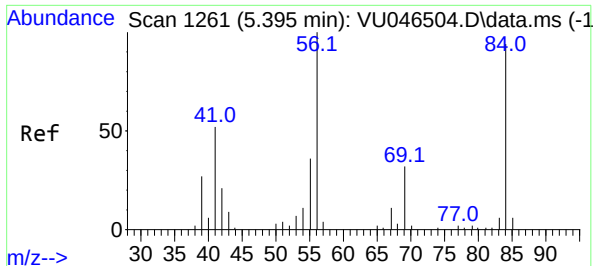
Ion Ratio Lower Upper

96 100

61 123.3 86.8 161.2

68 0.0 0.0 0.0





#29

Cyclohexane

Concen: 1.647 ug/L

RT: 5.395 min Scan# 1261

Delta R.T. 0.000 min

Lab File: VU046513.D

Acq: 20 Dec 2021 16:30

Instrument :

MSVOA_U

ClientSampleId :

GBBY1

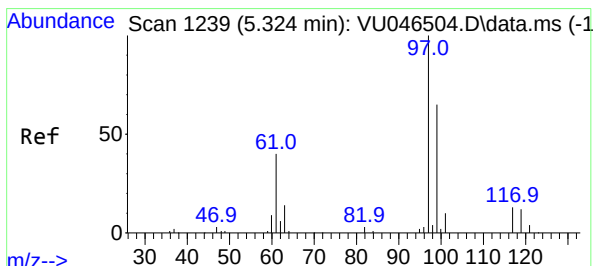
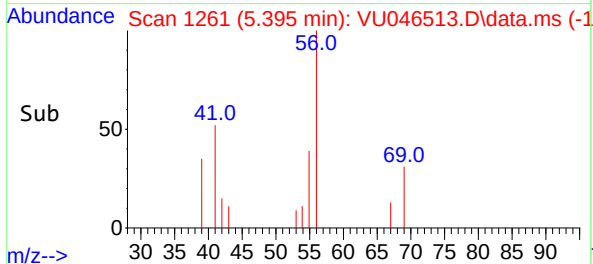
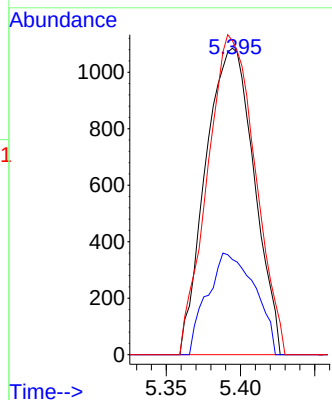
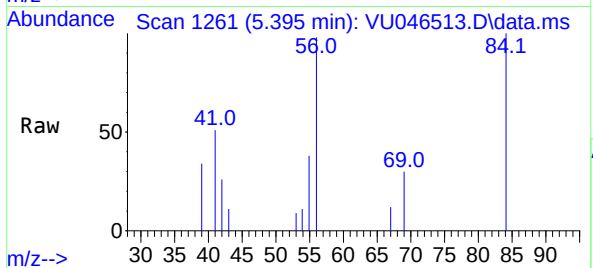
Tgt Ion: 56 Resp: 2468

Ion Ratio Lower Upper

56 100

69 32.4 25.2 37.8

84 102.5 73.3 109.9



#30

1,1,1-Trichloroethane

Concen: 0.511 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU046513.D

Acq: 20 Dec 2021 16:30

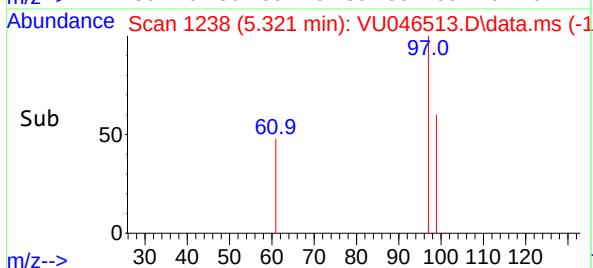
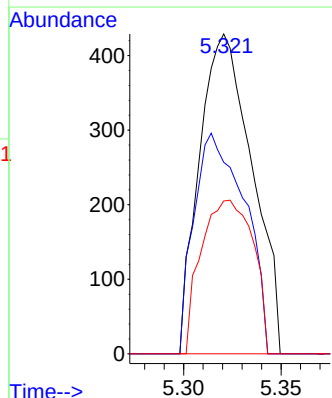
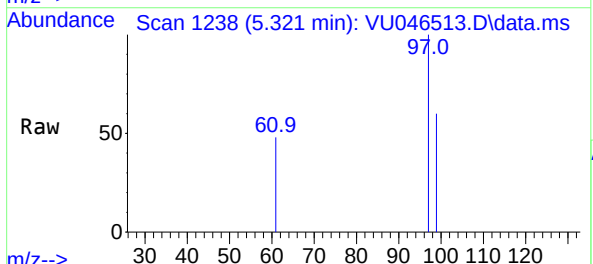
Tgt Ion: 97 Resp: 807

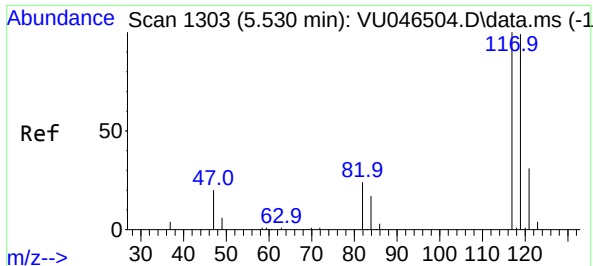
Ion Ratio Lower Upper

97 100

99 66.5 51.8 77.6

61 47.3 34.4 51.6

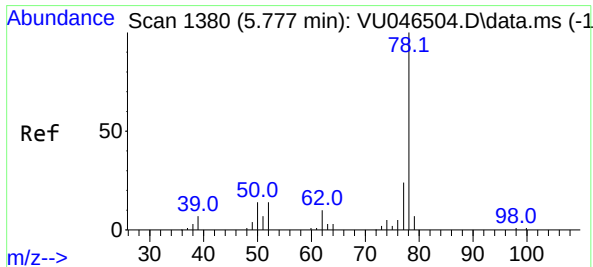
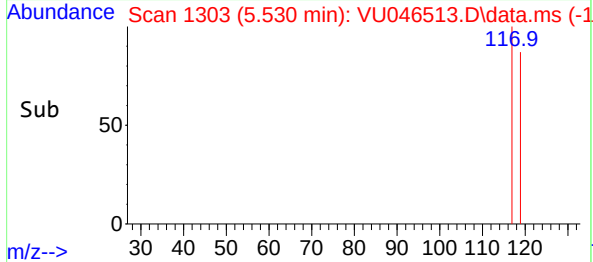
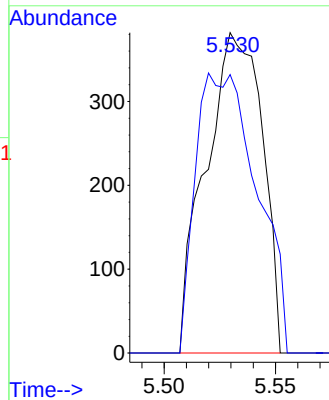
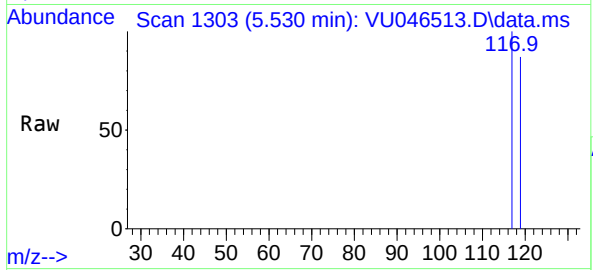




#31
Carbon tetrachloride
Concen: 0.503 ug/L
RT: 5.530 min Scan# 117
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

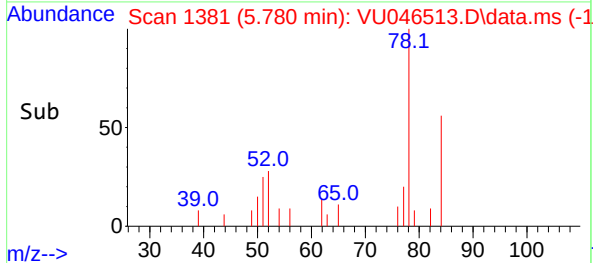
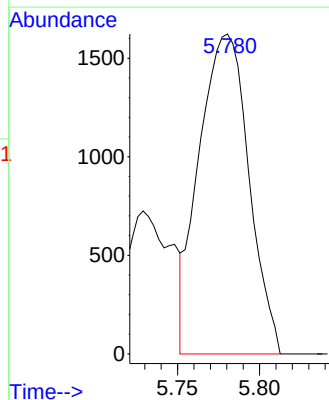
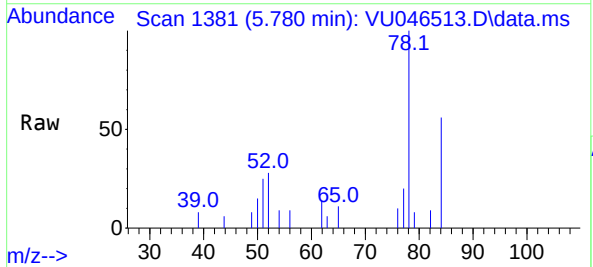
Instrument :
MSVOA_U
ClientSampleId :
GBBY1

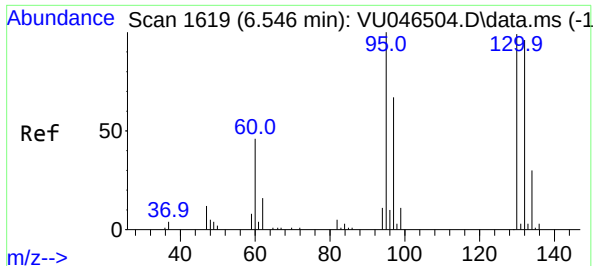
Tgt Ion:117 Resp: 674
Ion Ratio Lower Upper
117 100
119 45.3 75.7 113.5#



#33
Benzene
Concen: 0.877 ug/L
RT: 5.780 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Tgt Ion: 78 Resp: 3415

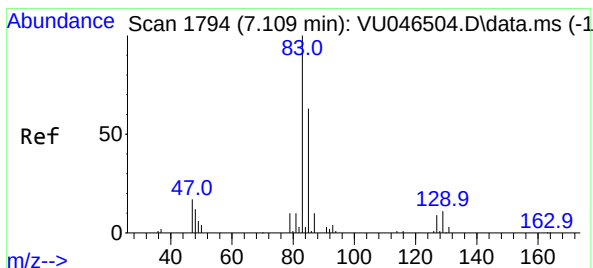
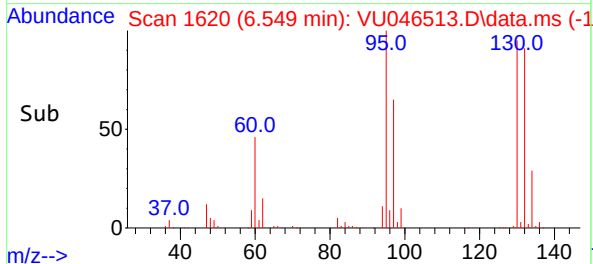
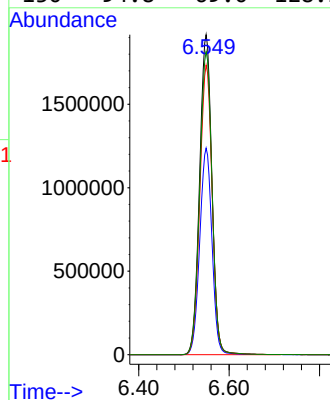
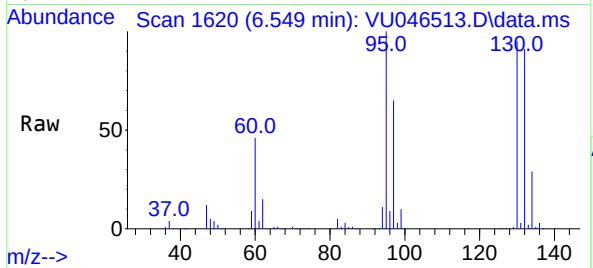




#34
Trichloroethene
Concen: 3537.317 ug/L
RT: 6.549 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

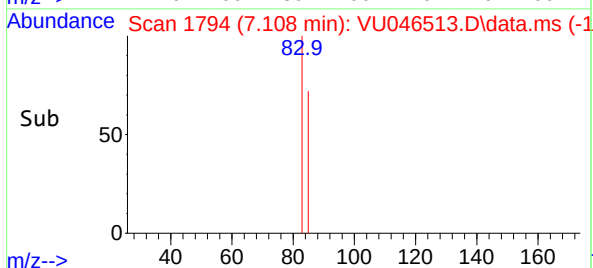
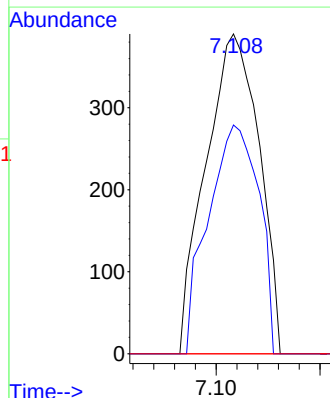
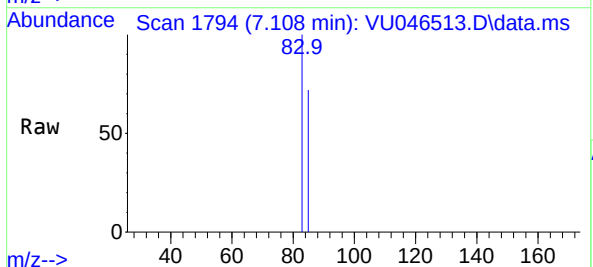
Instrument :
MSVOA_U
ClientSampleId :
GBBY1

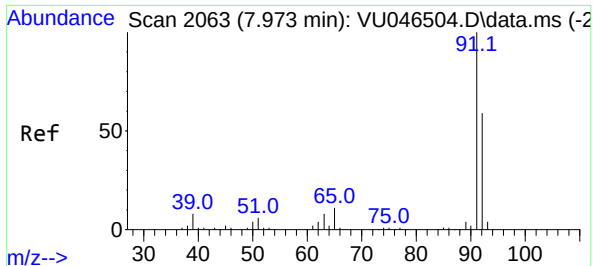
Tgt Ion: 95 Resp: 3628641
Ion Ratio Lower Upper
95 100
97 64.6 44.1 81.9
132 90.5 66.8 124.0
130 94.8 69.0 128.1



#38
Bromodichloromethane
Concen: 0.513 ug/L
RT: 7.108 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Tgt Ion: 83 Resp: 696
Ion Ratio Lower Upper
83 100
85 71.5 44.4 82.5
127 0.0 6.9 10.3#

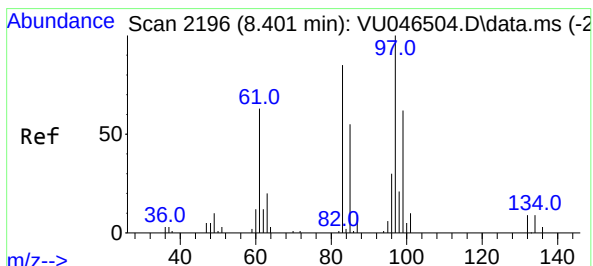
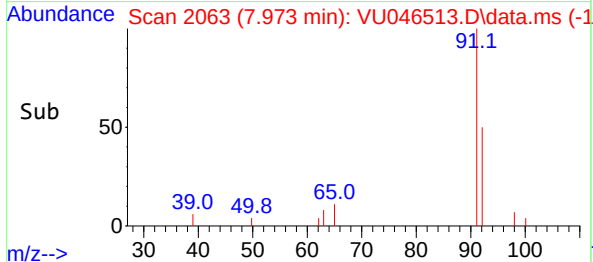
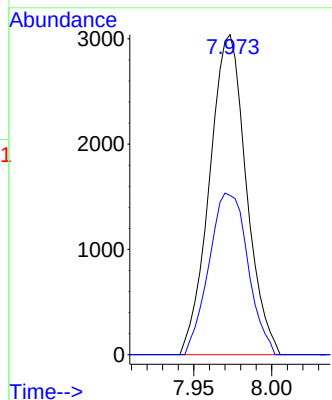
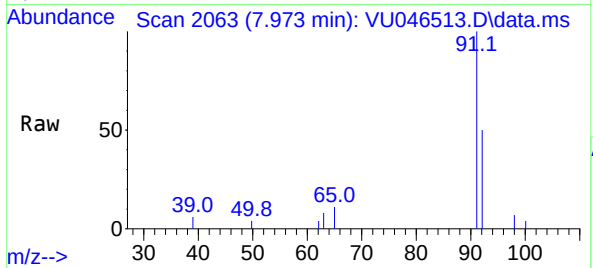




#42
Toluene
Concen: 1.194 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

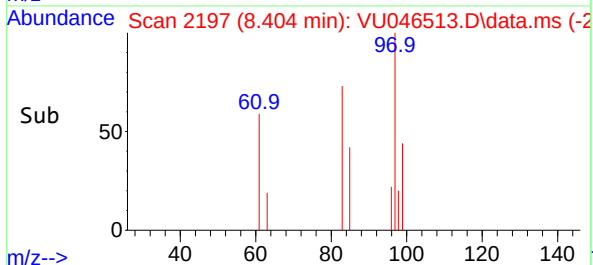
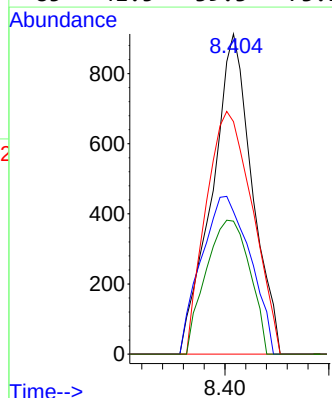
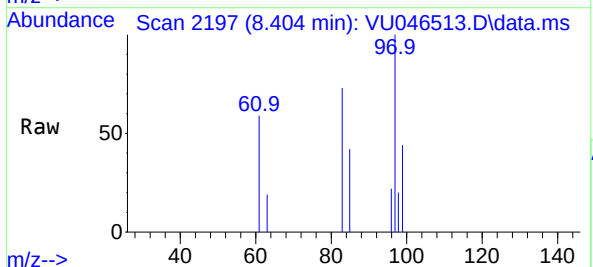
Instrument :
MSVOA_U
ClientSampleId :
GBBY1

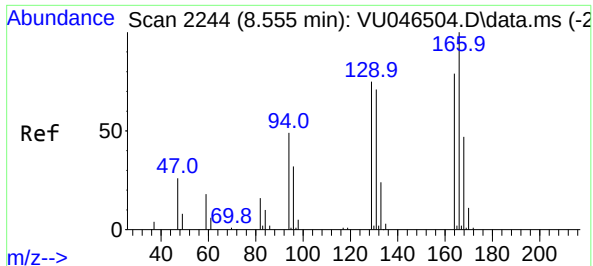
Tgt Ion: 91 Resp: 4989
Ion Ratio Lower Upper
91 100
92 49.8 41.9 77.7



#45
1,1,2-Trichloroethane
Concen: 1.193 ug/L
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Tgt Ion: 97 Resp: 1221
Ion Ratio Lower Upper
97 100
99 44.5 44.7 82.9#
83 72.6 60.2 111.8
85 41.5 39.3 73.1



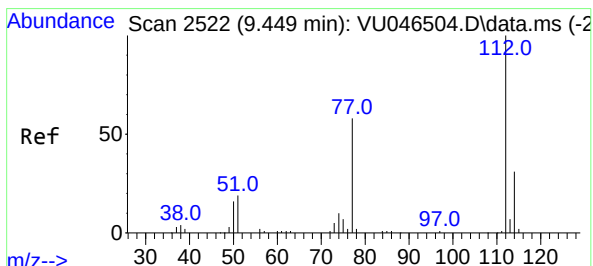
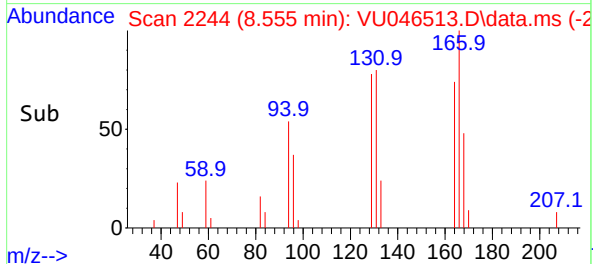
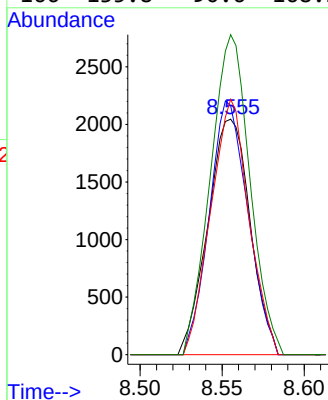
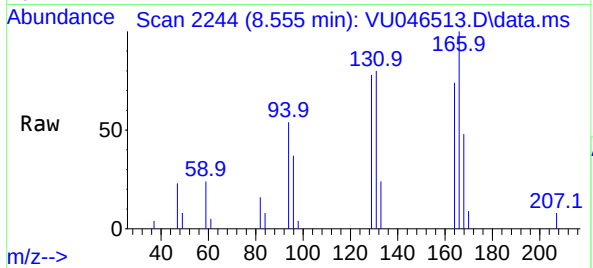


#46
Tetrachloroethene
Concen: 4.844 ug/L
RT: 8.555 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Instrument :
MSVOA_U
ClientSampleId :
GBBY1

Tgt Ion:164 Resp: 3652

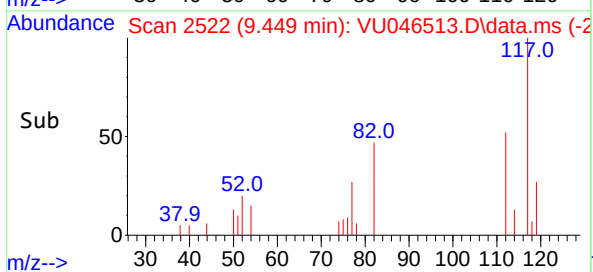
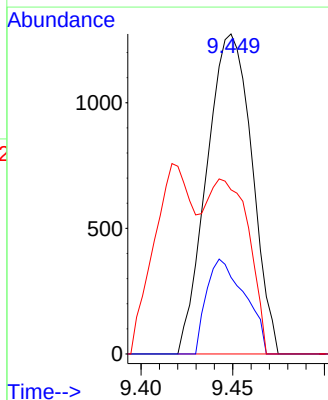
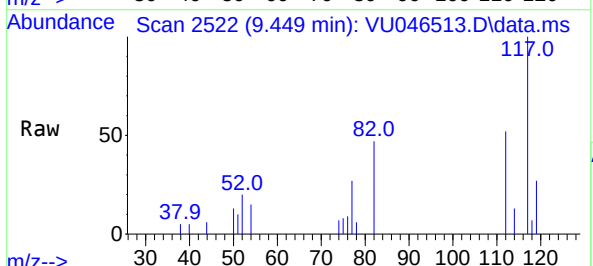
Ion	Ratio	Lower	Upper
164	100		
129	105.6	71.1	132.1
131	108.4	67.8	126.0
166	135.8	90.6	168.2

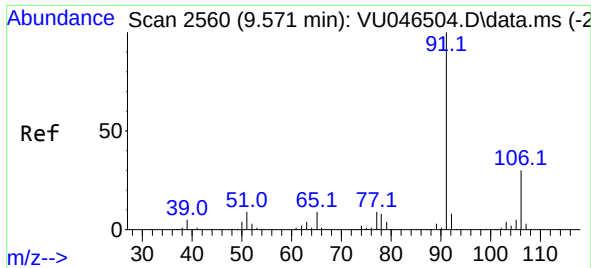


#51
Chlorobenzene
Concen: 0.807 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Tgt Ion:112 Resp: 2181

Ion	Ratio	Lower	Upper
112	100		
114	23.9	22.2	41.2
77	51.3	47.4	71.0

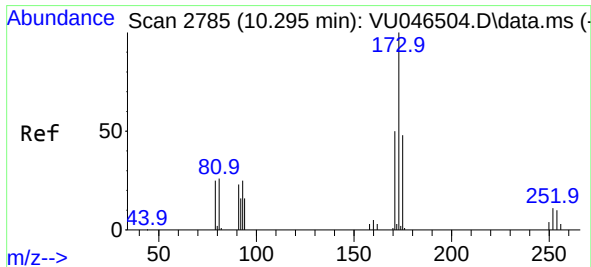
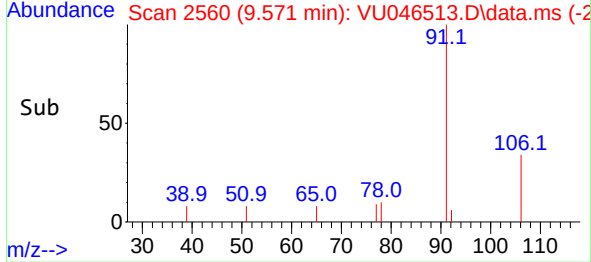
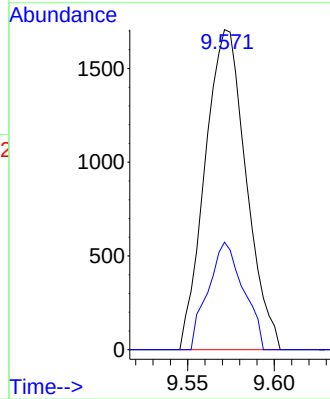
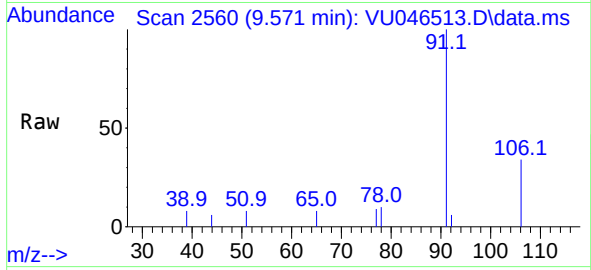




#52
Ethylbenzene
Concen: 0.626 ug/L
RT: 9.571 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

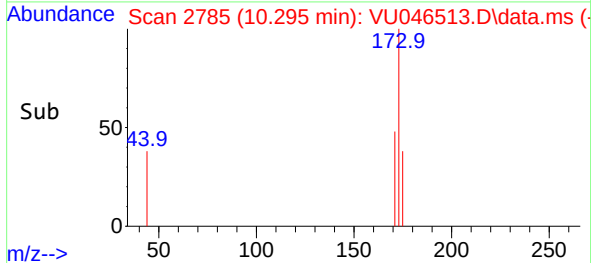
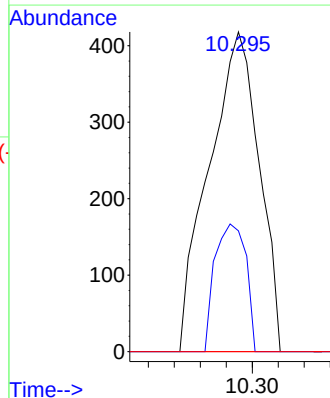
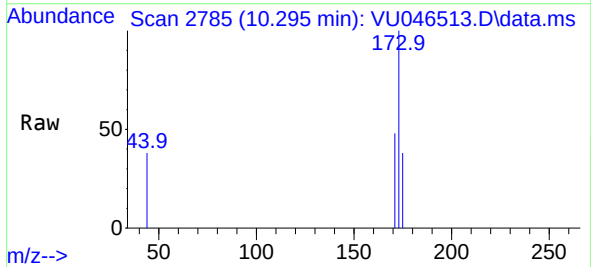
Instrument :
MSVOA_U
ClientSampleId :
GBBY1

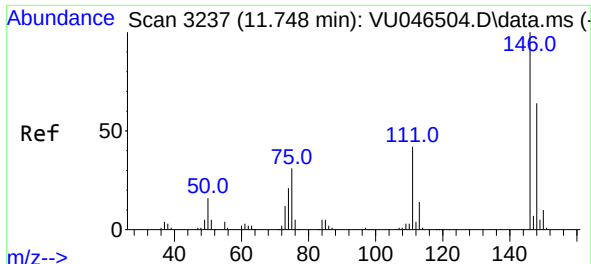
Tgt Ion: 91 Resp: 2813
Ion Ratio Lower Upper
91 100
106 33.6 21.1 39.3



#59
Bromoform
Concen: 0.729 ug/L
RT: 10.295 min Scan# 2785
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Tgt Ion: 173 Resp: 559
Ion Ratio Lower Upper
173 100
175 24.7 39.2 58.8#
254 0.0 7.4 11.2#

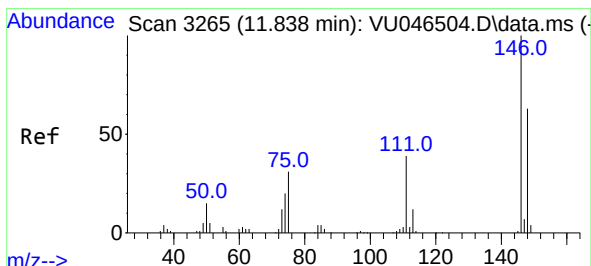
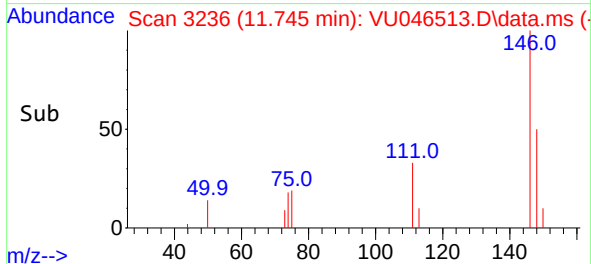
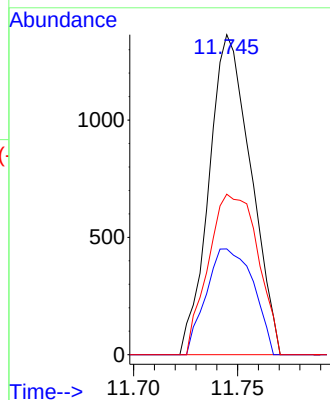
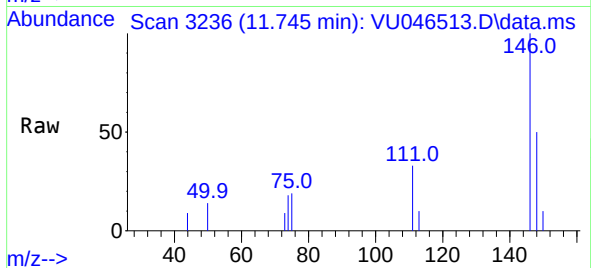




#64
1,3-Dichlorobenzene
Concen: 0.946 ug/L
RT: 11.745 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

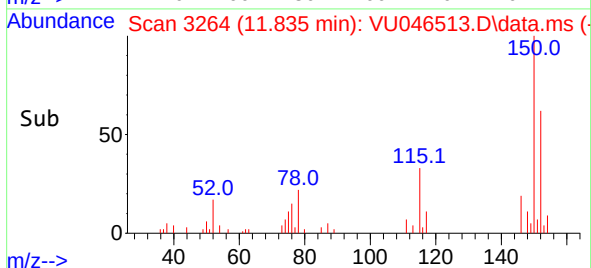
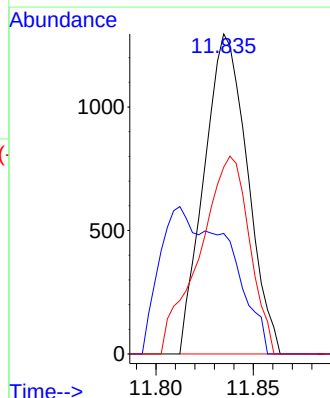
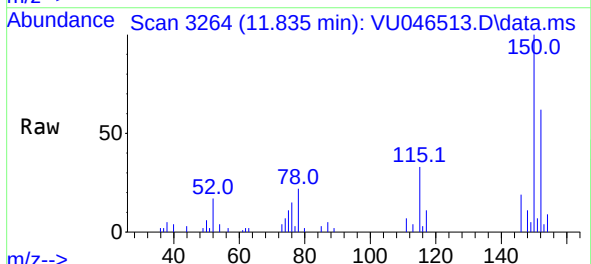
Instrument :
MSVOA_U
ClientSampleId :
GBBY1

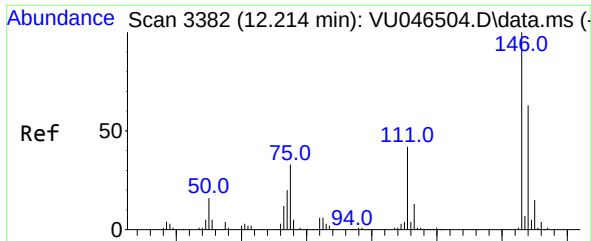
Tgt Ion:146 Resp: 1911
Ion Ratio Lower Upper
146 100
111 33.1 29.5 54.9
148 50.1 45.9 85.3



#65
1,4-Dichlorobenzene
Concen: 0.959 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. -0.003 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

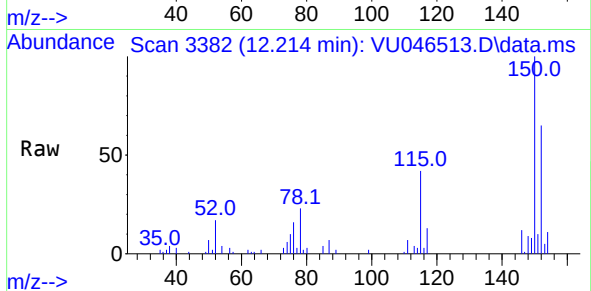
Tgt Ion:146 Resp: 2001
Ion Ratio Lower Upper
146 100
111 37.7 28.3 52.7
148 58.3 43.8 81.3





#67
1,2-Dichlorobenzene
Concen: 0.845 ug/L
RT: 12.214 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU046513.D
Acq: 20 Dec 2021 16:30

Instrument :
MSVOA_U
ClientSampleId :
GBBY1



Tgt Ion:146 Resp: 1718
Ion Ratio Lower Upper
146 100
111 57.3 35.7 53.5#
148 72.7 51.2 76.8

