

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122821\
 Data File : VU046617.D
 Acq On : 28 Dec 2021 17:12
 Operator : SY/MD
 Sample : M5175-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBBY9

Quant Time: Dec 29 01:30:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122121WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 29 01:29:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	75851	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	80313	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.815	152	45077	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	21664	3.626	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.600%
7) Chloroethane-d5	1.919	69	19785	4.205	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.200%
11) 1,1-Dichloroethene-d2	2.571	65	10319	4.096	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.000%
20) 2-Butanone-d5	4.649	46	82767	47.759	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.520%
24) Chloroform-d	5.070	84	50873	4.647	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.000%
26) 1,2-Dichloroethane-d4	5.706	65	28060	4.484	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.600%
32) Benzene-d6	5.732	84	92795	4.145	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.800%
36) 1,2-Dichloropropane-d6	6.697	67	30206	4.490	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.800%
41) Toluene-d8	7.902	98	78049	3.841	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.800%
43) trans-1,3-Dichloroprop...	8.182	79	11761	3.780	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.600%
46) 2-Hexanone-d5	8.639	63	70074	38.360	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	76.720%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	29809	4.317	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.400%
66) 1,2-Dichlorobenzene-d4	12.195	152	32734	3.942	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	78.800%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.388	85	22744	1.960	ug/L	99
3) Chloromethane	1.523	50	57551	5.757	ug/L	99
5) Vinyl chloride	1.607	62	44461	4.518	ug/L	100
6) Bromomethane	1.864	94	21182	3.576	ug/L	98
8) Chloroethane	1.941	64	24357	4.216	ug/L	99
9) Trichlorofluoromethane	2.144	101	119784	9.306	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.588	101	30858	4.709	ug/L	95
12) 1,1-Dichloroethene	2.588	96	38810	5.817	ug/L #	71
16) Methylene chloride	3.054	84	27614	3.401	ug/L	95
17) Methyl tert-butyl Ether	3.369	73	97388	5.004	ug/L	98
18) trans-1,2-Dichloroethene	3.359	96	48066	6.753	ug/L	94
22) cis-1,2-Dichloroethene	4.674	96	50418	6.480	ug/L	97
23) Bromochloromethane	4.983	128	7966	2.057	ug/L	92
25) Chloroform	5.092	83	66801	4.716	ug/L	97
27) 1,2-Dichloroethane	5.796	62	50058	4.950	ug/L	99
29) 1,1,1-Trichloroethane	5.321	97	65778	4.953	ug/L	99
31) Carbon tetrachloride	5.530	117	60869	5.462	ug/L	99
34) Trichloroethene	6.546	95	66353	7.888	ug/L	97
37) 1,2-Dichloropropane	6.796	63	38618	4.744	ug/L	99

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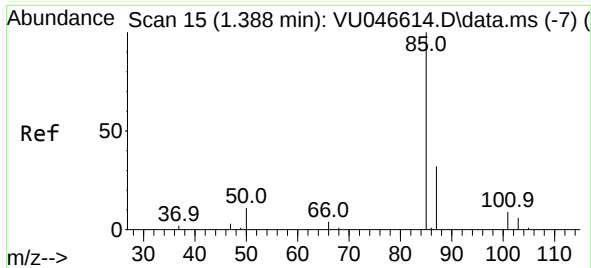
Instrument :
 MSVOA_U
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Quant Time: Dec 29 01:30:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122121WMA.M
 Quant Title : TRACE VOA SFAM1.0
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 Response via : Initial Calibration

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

38) Bromodichloromethane	7.108	83	23335	2.071	ug/L	99
39) cis-1,3-Dichloropropene	7.613	75	19757	1.603	ug/L	95
42) Toluene	7.973	91	93368	2.851	ug/L	99
45) 1,1,2-Trichloroethane	8.404	97	51740	7.371	ug/L	96
47) Tetrachloroethene	8.555	164	30677	5.154	ug/L	94
49) Dibromochloromethane	8.812	129	48676	6.012	ug/L	100
52) Ethylbenzene	9.574	91	362961	10.706	ug/L	100
54) o-Xylene	10.105	106	38526	3.087	ug/L	99
55) Styrene	10.118	104	63785	2.947	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.787	83	42290	4.610	ug/L	96
60) Isopropylbenzene	10.488	105	256133	7.368	ug/L	99
63) 1,2,4-Trimethylbenzene	11.471	105	127184	4.368	ug/L	100
64) 1,3-Dichlorobenzene	11.748	146	33994	2.012	ug/L	98
67) 1,2-Dichlorobenzene	12.214	146	34539	2.038	ug/L	99

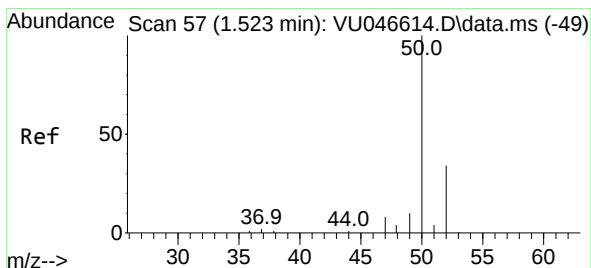
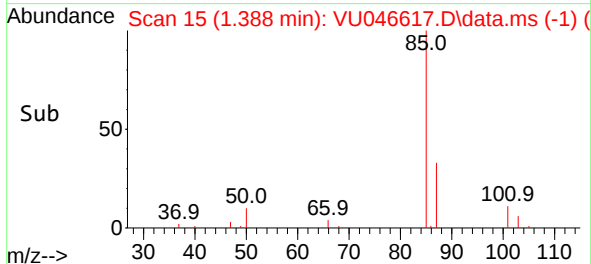
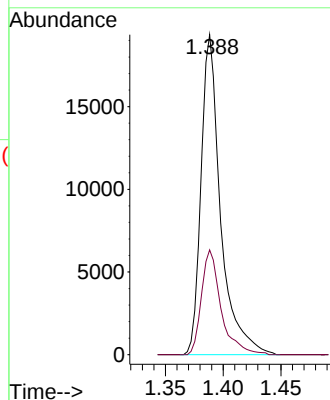
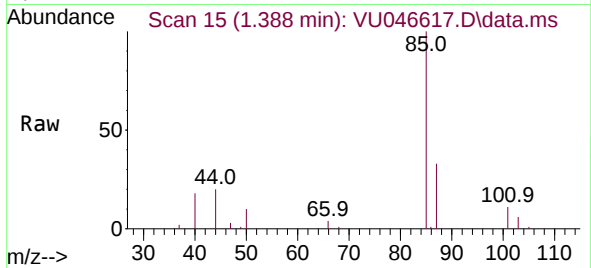
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
Dichlorodifluoromethane
Concen: 1.960 ug/L
RT: 1.388 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

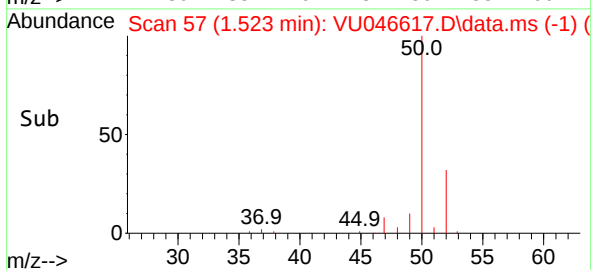
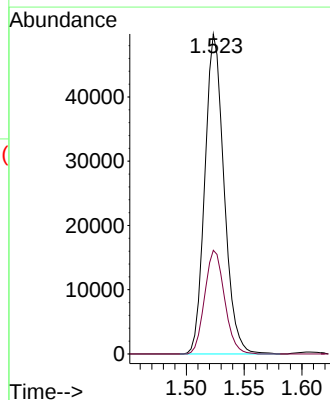
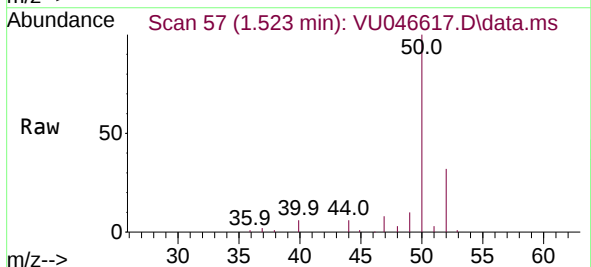
Instrument :
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ClientSampleId :
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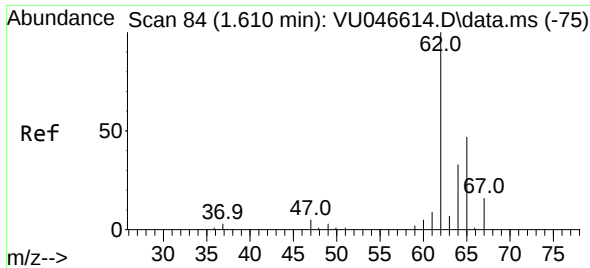
Tgt Ion: 85 Resp: 22744
Ion Ratio Lower Upper
85 100
87 32.9 25.8 38.6



#3
Chloromethane
Concen: 5.757 ug/L
RT: 1.523 min Scan# 57
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion: 50 Resp: 57551
Ion Ratio Lower Upper
50 100
52 32.4 23.0 42.8

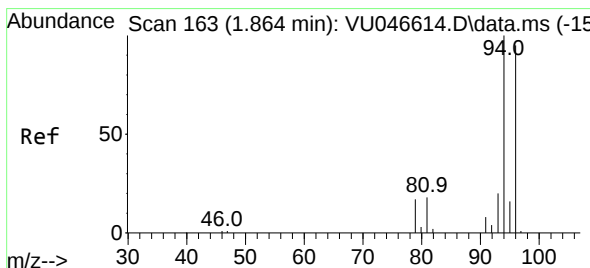
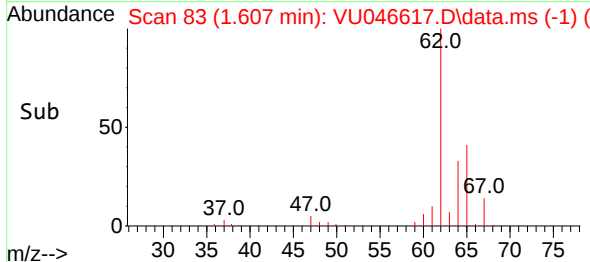
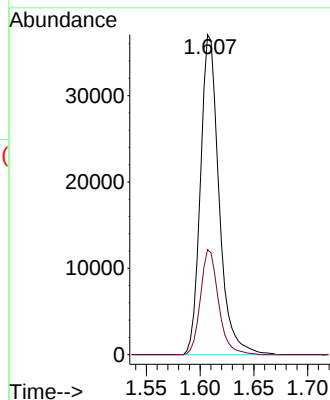
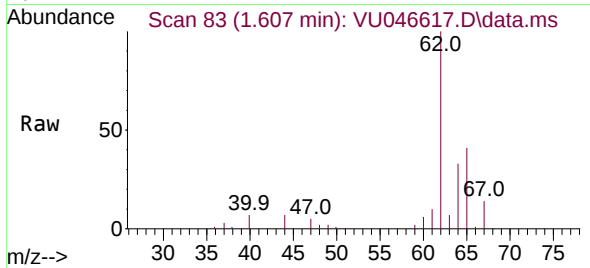




#5
 Vinyl chloride
 Concen: 4.518 ug/L
 RT: 1.607 min Scan# 84
 Delta R.T. -0.003 min
 Lab File: VU046617.D
 Acq: 28 Dec 2021 17:12

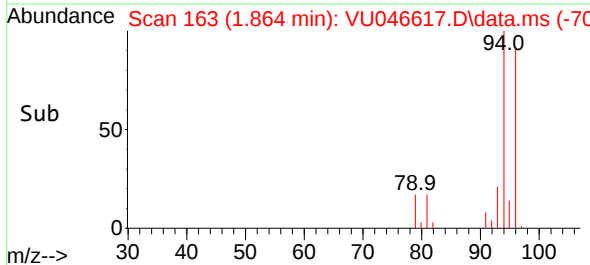
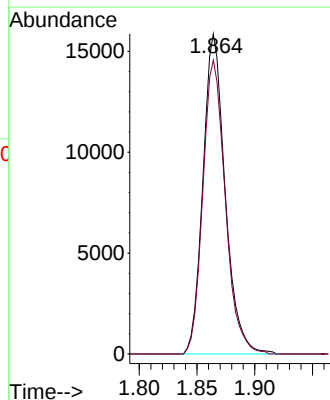
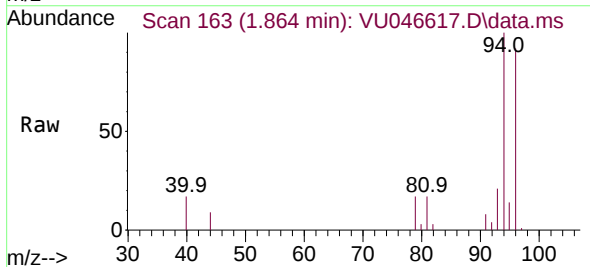
Instrument :
 MSVOA_U
 ClientSampleId :
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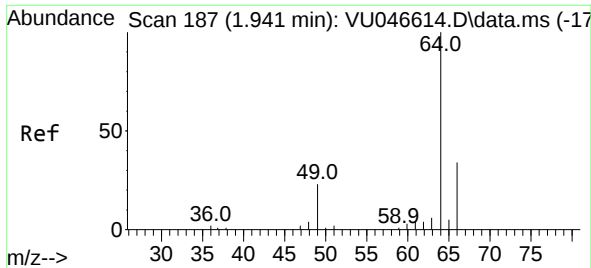
Tgt Ion: 62 Resp: 44461
 Ion Ratio Lower Upper
 62 100
 64 32.8 22.9 42.5



#6
 Bromomethane
 Concen: 3.576 ug/L
 RT: 1.864 min Scan# 163
 Delta R.T. 0.000 min
 Lab File: VU046617.D
 Acq: 28 Dec 2021 17:12

Tgt Ion: 94 Resp: 21182
 Ion Ratio Lower Upper
 94 100
 96 91.8 65.5 121.6

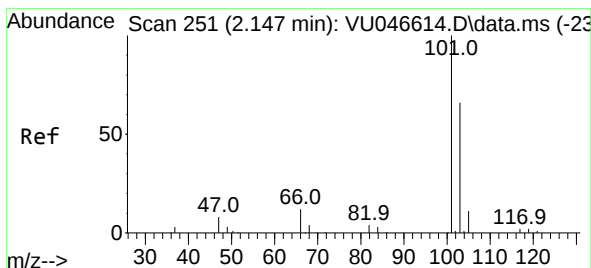
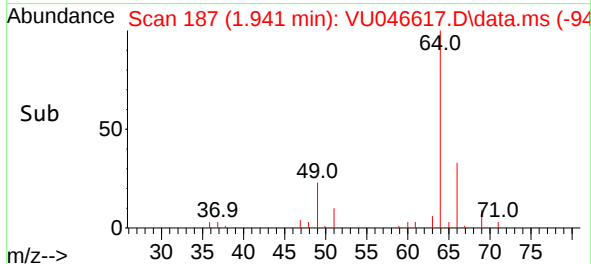
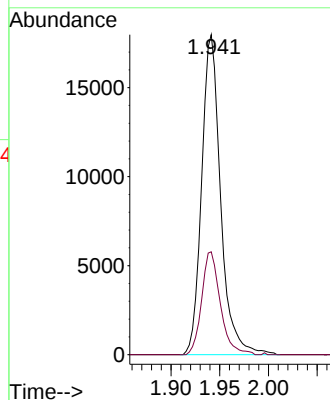
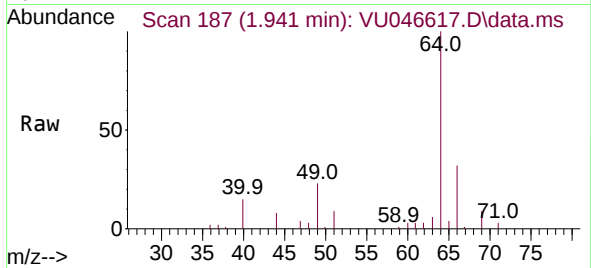




#8
Chloroethane
Concen: 4.216 ug/L
RT: 1.941 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

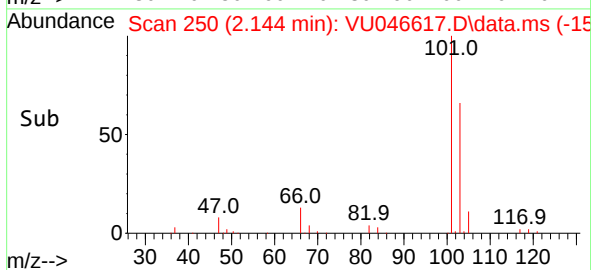
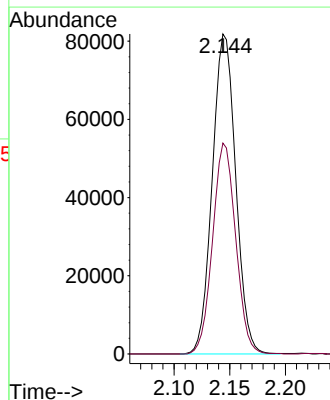
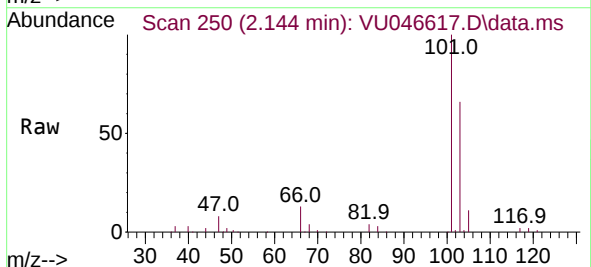
Instrument :
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ClientSampleId :
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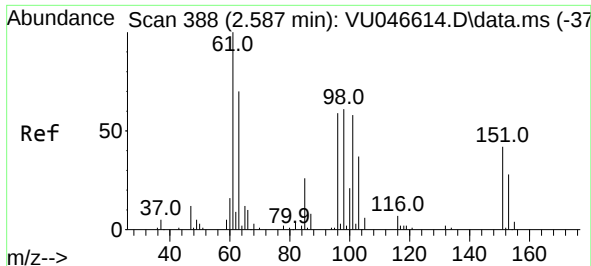
Tgt Ion: 64 Resp: 24357
Ion Ratio Lower Upper
64 100
66 32.1 22.1 41.1



#9
Trichlorofluoromethane
Concen: 9.306 ug/L
RT: 2.144 min Scan# 250
Delta R.T. -0.003 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion:101 Resp: 119784
Ion Ratio Lower Upper
101 100
103 64.9 51.5 77.3

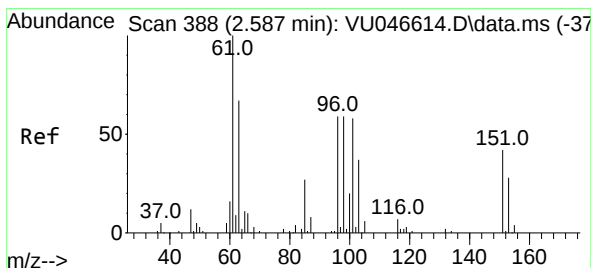
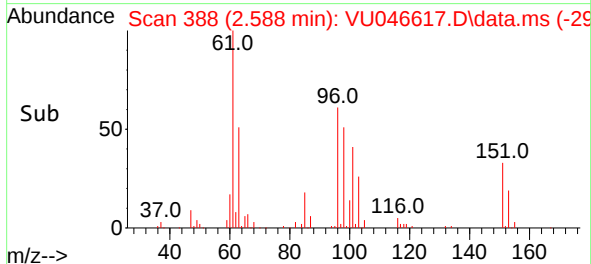
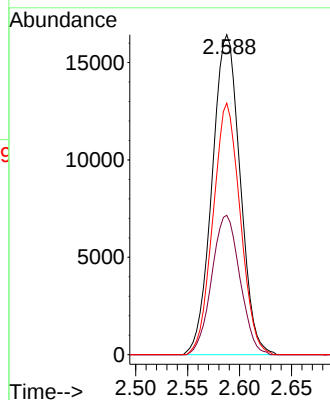
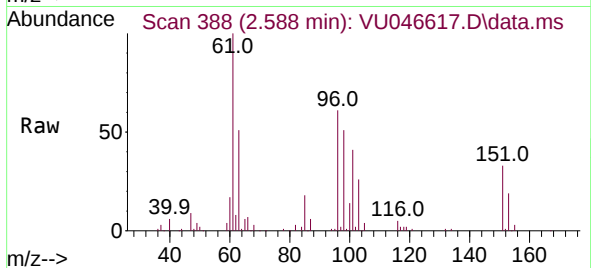




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 4.709 ug/L
RT: 2.588 min Scan# 388
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

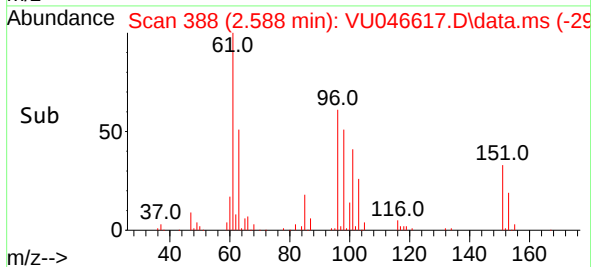
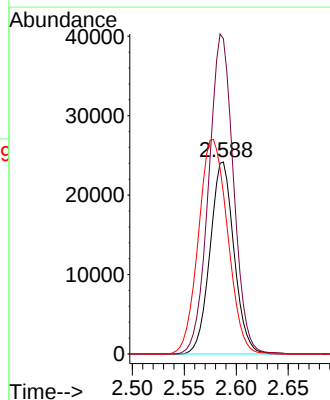
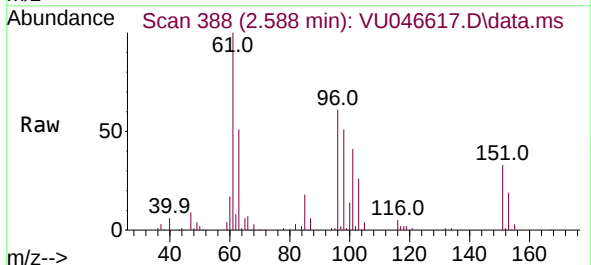
Instrument :
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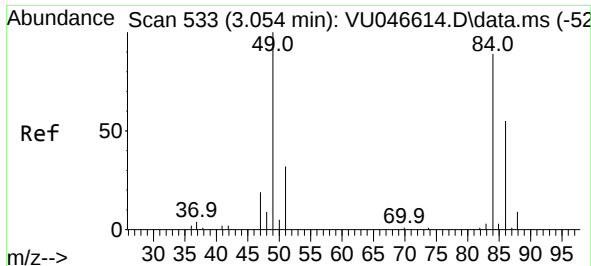
Tgt Ion:101 Resp: 30858
Ion Ratio Lower Upper
101 100
85 43.8 34.6 51.8
151 76.3 56.1 84.1



#12
1,1-Dichloroethene
Concen: 5.817 ug/L
RT: 2.588 min Scan# 388
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion: 96 Resp: 38810
Ion Ratio Lower Upper
96 100
61 164.2 124.7 231.5
63 83.8 105.2 195.4#

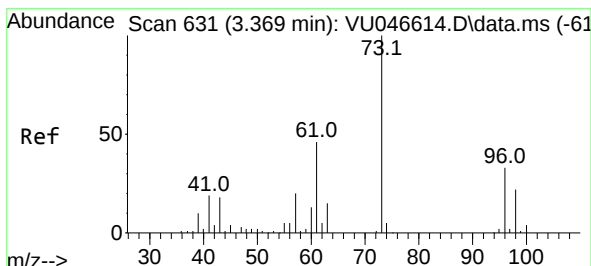
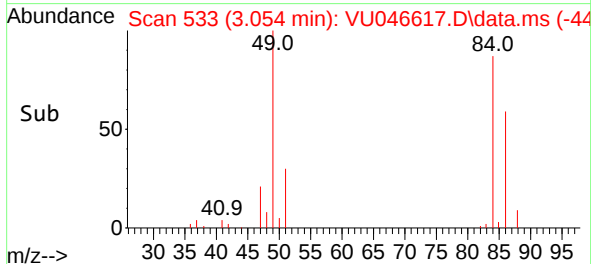
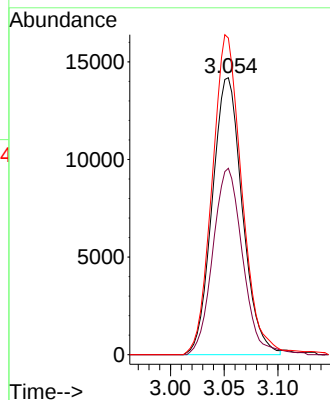
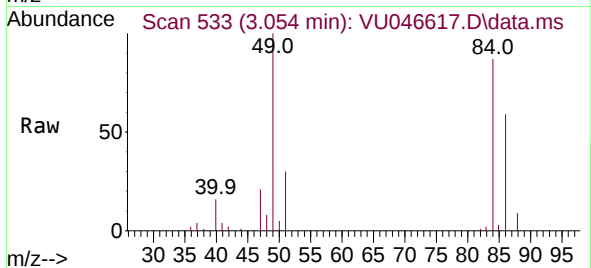




#16
Methylene chloride
Concen: 3.401 ug/L
RT: 3.054 min Scan# 511
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

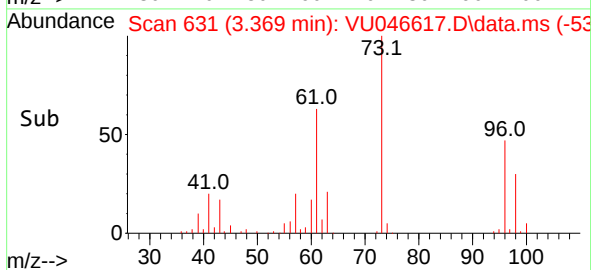
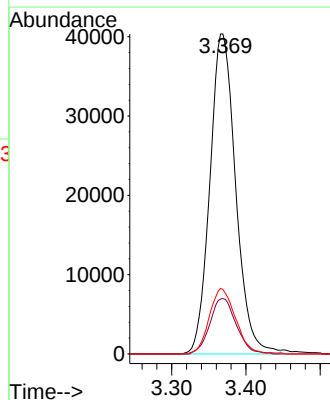
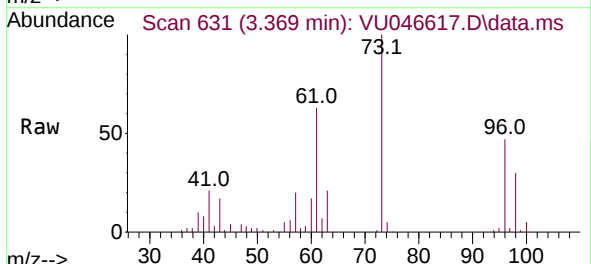
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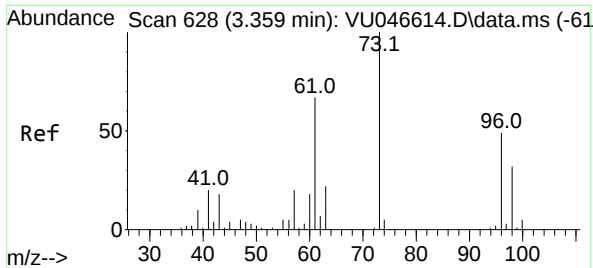
Tgt Ion: 84 Resp: 27614
Ion Ratio Lower Upper
84 100
86 67.3 45.8 85.0
49 114.3 84.5 156.9



#17
Methyl tert-butyl Ether
Concen: 5.004 ug/L
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion: 73 Resp: 97388
Ion Ratio Lower Upper
73 100
43 17.7 14.8 22.2
57 20.7 17.4 26.0





#18

trans-1,2-Dichloroethene

Concen: 6.753 ug/L

RT: 3.359 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU046617.D

Acq: 28 Dec 2021 17:12

Instrument :

MSVOA_U

ClientSampleId :

GBBY9

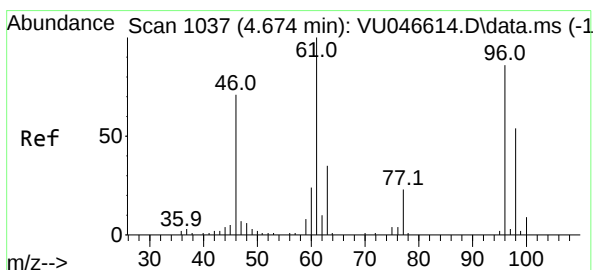
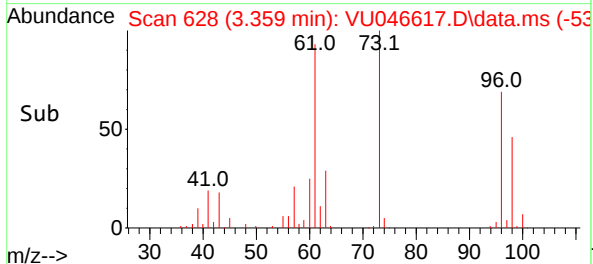
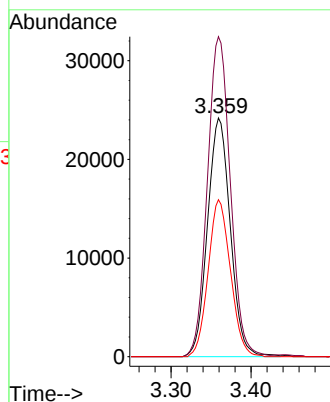
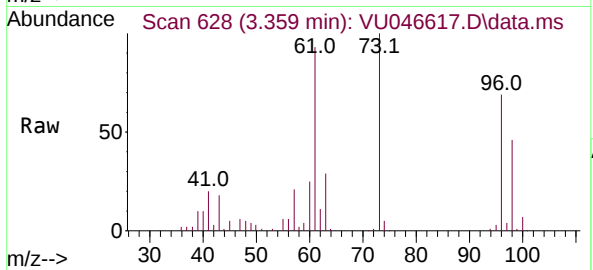
Tgt Ion: 96 Resp: 48066

Ion Ratio Lower Upper

96 100

61 134.0 100.8 187.2

98 65.8 45.1 83.7



#22

cis-1,2-Dichloroethene

Concen: 6.480 ug/L

RT: 4.674 min Scan# 1037

Delta R.T. 0.000 min

Lab File: VU046617.D

Acq: 28 Dec 2021 17:12

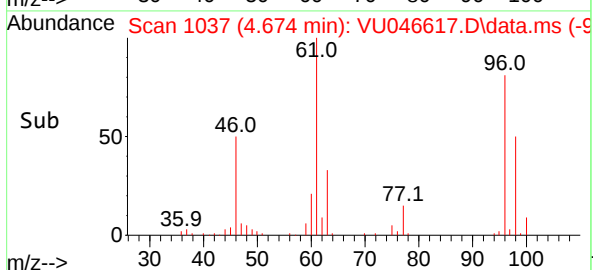
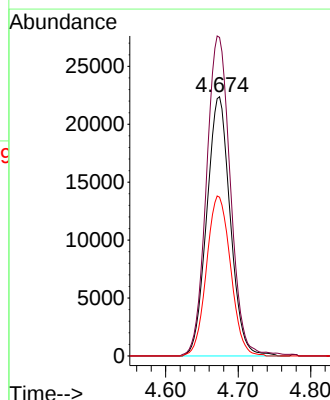
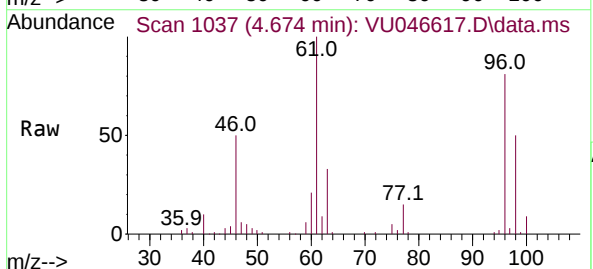
Tgt Ion: 96 Resp: 50418

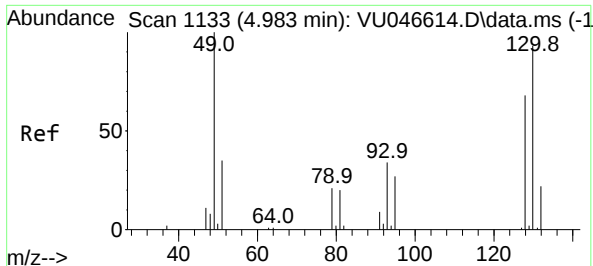
Ion Ratio Lower Upper

96 100

61 122.9 88.5 164.3

98 61.2 44.4 82.5

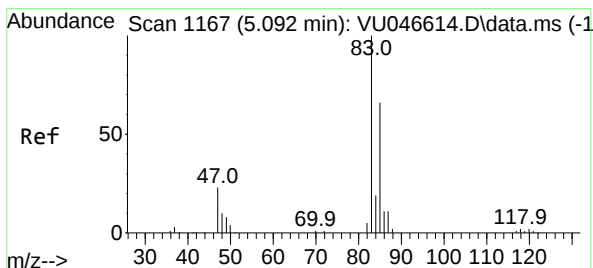
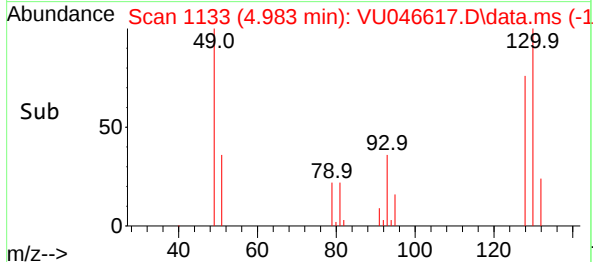
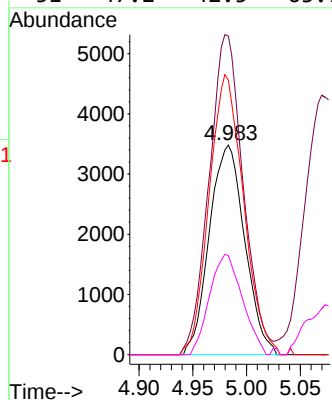
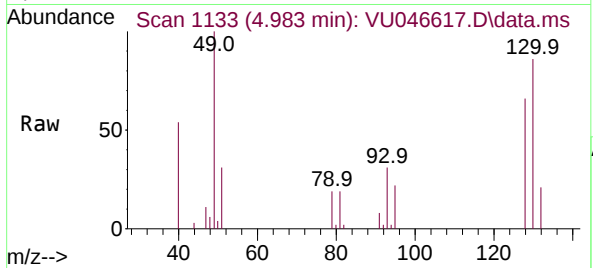




#23
Bromochloromethane
Concen: 2.057 ug/L
RT: 4.983 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

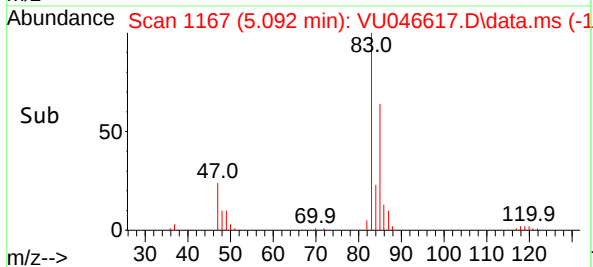
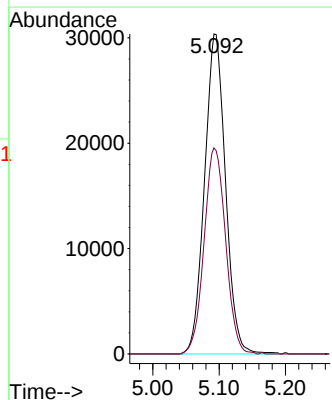
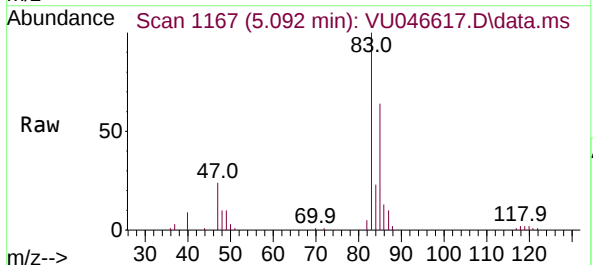
Instrument :
MSVOA_U
ClientSampleId :
GBBY9

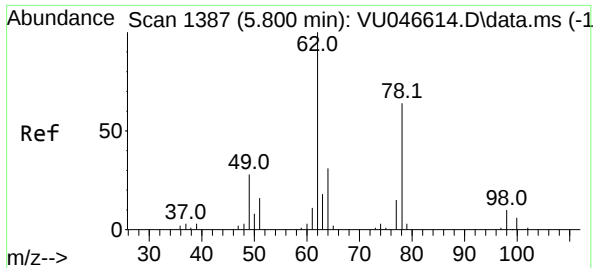
Tgt Ion:	128	Resp:	7966
Ion Ratio	Lower	Upper	
128	100		
49	152.1	117.0	217.2
130	131.0	88.2	163.8
51	47.2	42.5	63.7



#25
Chloroform
Concen: 4.716 ug/L
RT: 5.092 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion:	83	Resp:	66801
Ion Ratio	Lower	Upper	
83	100		
85	64.4	46.9	87.1

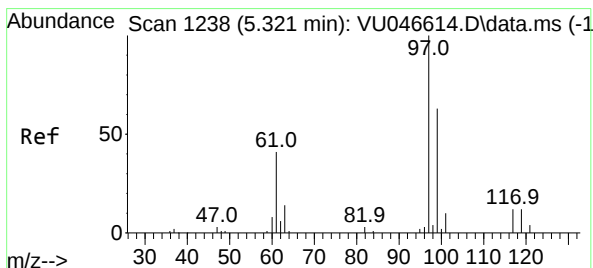
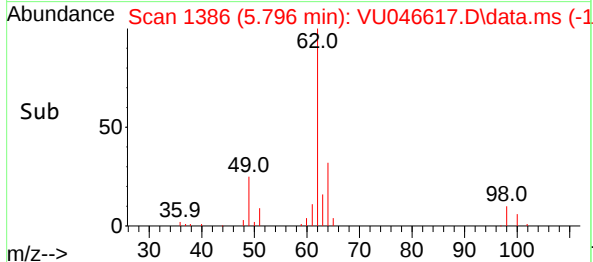
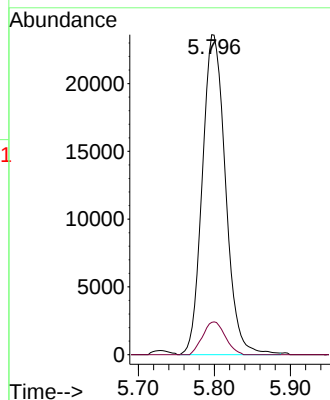
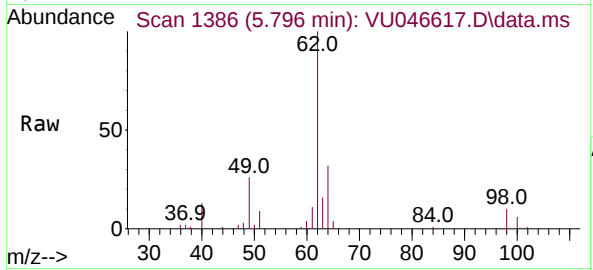




#27
1,2-Dichloroethane
Concen: 4.950 ug/L
RT: 5.796 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

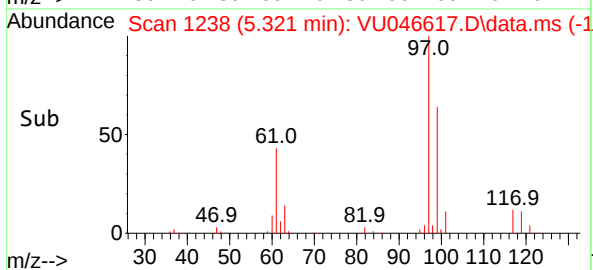
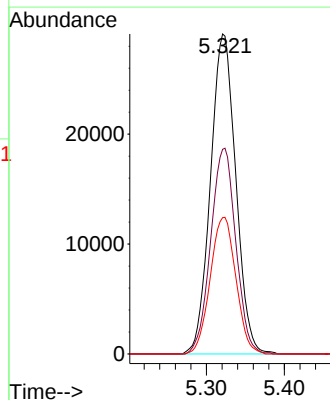
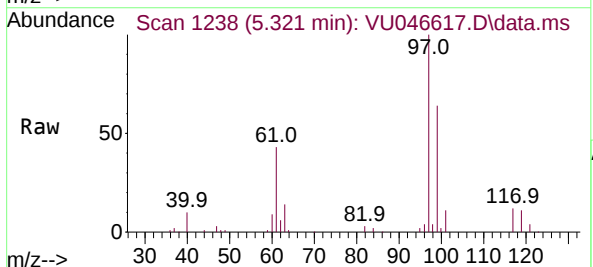
Instrument :
MSVOA_U
ClientSampleId :
GBBY9

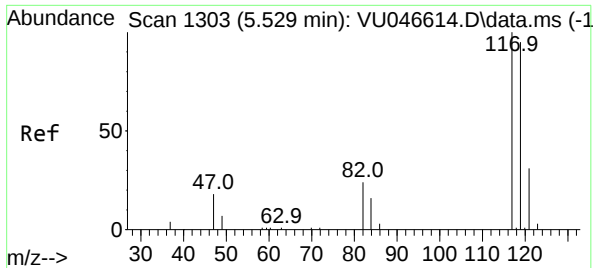
Tgt Ion: 62 Resp: 50058
Ion Ratio Lower Upper
62 100
98 10.1 7.8 11.8



#29
1,1,1-Trichloroethane
Concen: 4.953 ug/L
RT: 5.321 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion: 97 Resp: 65778
Ion Ratio Lower Upper
97 100
99 63.9 51.3 76.9
61 43.3 36.1 54.1

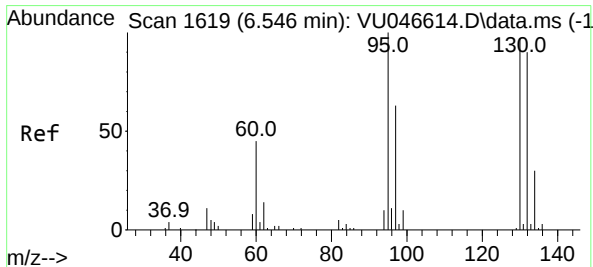
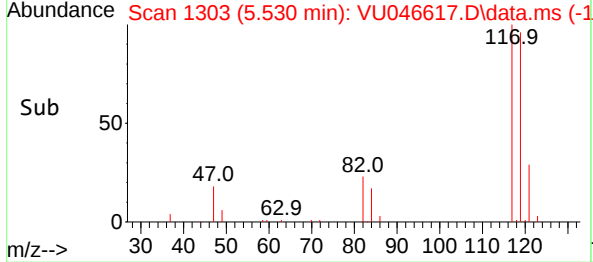
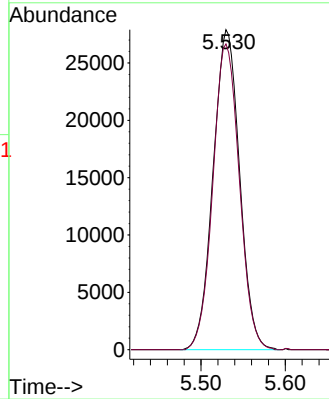
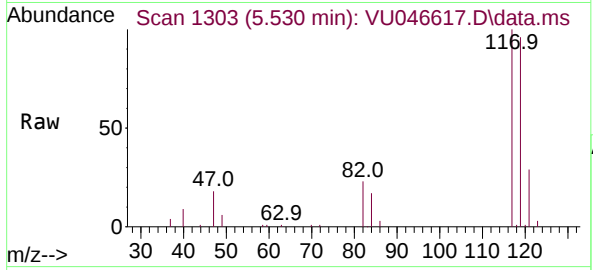




#31
Carbon tetrachloride
Concen: 5.462 ug/L
RT: 5.530 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

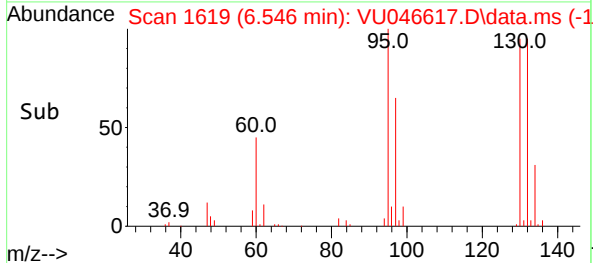
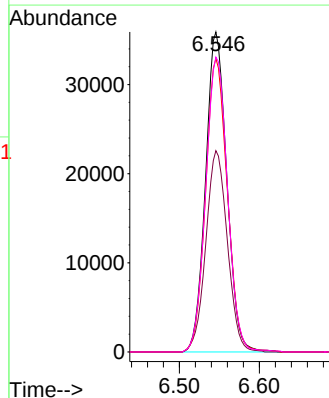
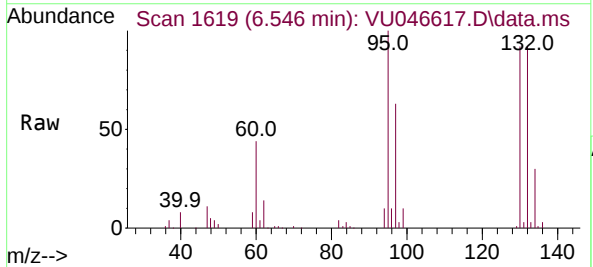
Instrument :
MSVOA_U
ClientSampleId :
GBBY9

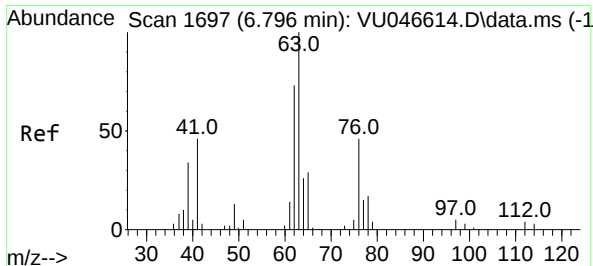
Tgt Ion:117 Resp: 60869
Ion Ratio Lower Upper
117 100
119 95.5 77.5 116.3



#34
Trichloroethene
Concen: 7.888 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion: 95 Resp: 66353
Ion Ratio Lower Upper
95 100
97 62.9 46.5 86.5
132 91.7 65.1 120.9
130 92.2 67.3 124.9

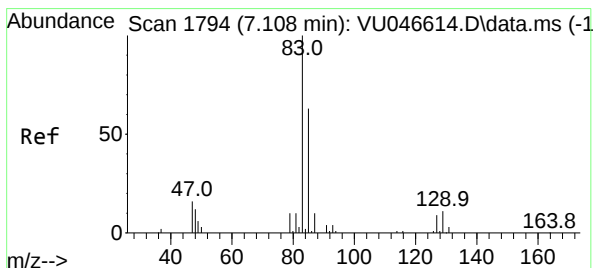
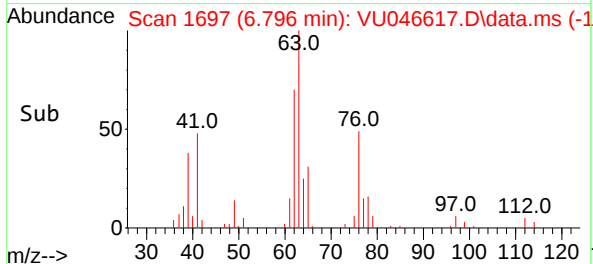
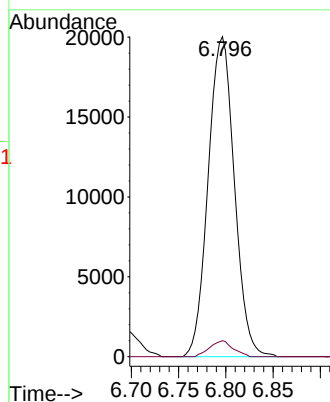
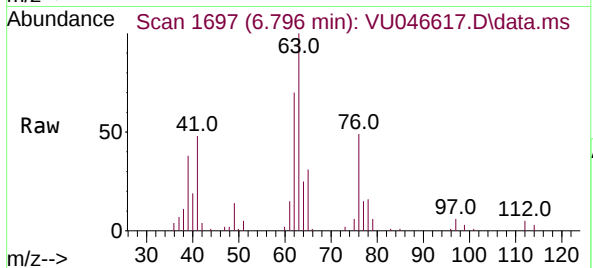




#37
1,2-Dichloropropane
Concen: 4.744 ug/L
RT: 6.796 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

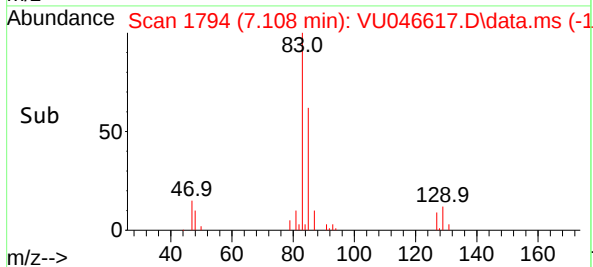
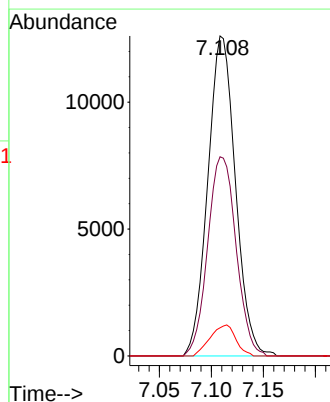
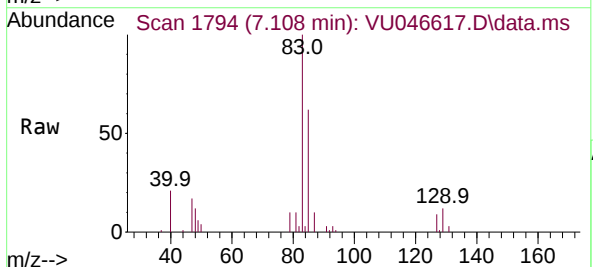
Instrument :
MSVOA_U
ClientSampleId :
GBBY9

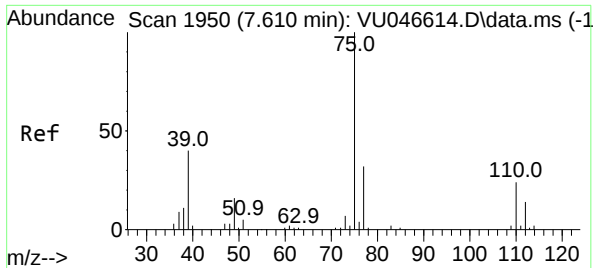
Tgt Ion: 63 Resp: 38618
Ion Ratio Lower Upper
63 100
112 4.4 3.2 4.8



#38
Bromodichloromethane
Concen: 2.071 ug/L
RT: 7.108 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion: 83 Resp: 23335
Ion Ratio Lower Upper
83 100
85 62.2 44.0 81.8
127 8.8 6.3 9.5





#39

cis-1,3-Dichloropropene

Concen: 1.603 ug/L

RT: 7.613 min Scan# 1950

Delta R.T. 0.003 min

Lab File: VU046617.D

Acq: 28 Dec 2021 17:12

Instrument :

MSVOA_U

ClientSampleId :

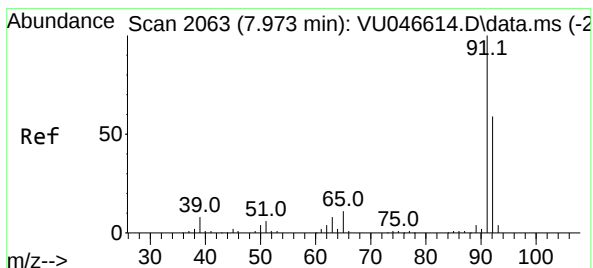
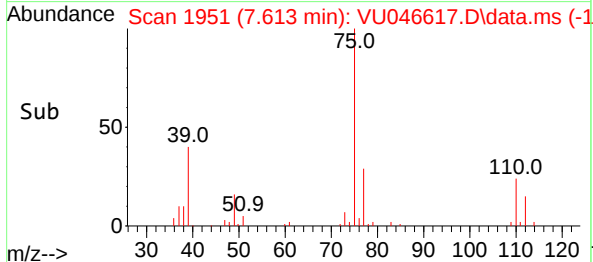
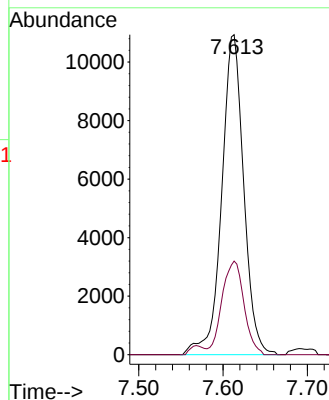
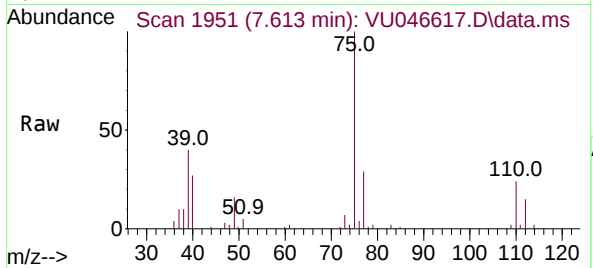
GBBY9

Tgt Ion: 75 Resp: 19757

Ion Ratio Lower Upper

75 100

77 29.3 22.5 41.9



#42

Toluene

Concen: 2.851 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. 0.000 min

Lab File: VU046617.D

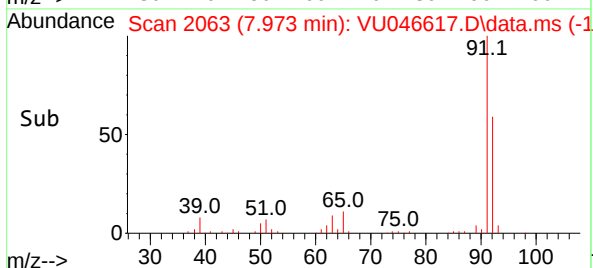
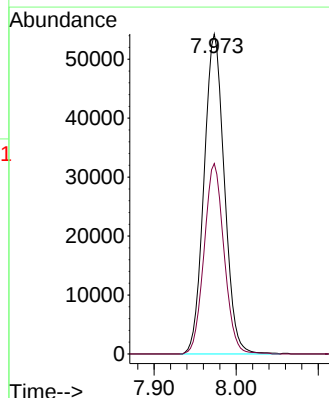
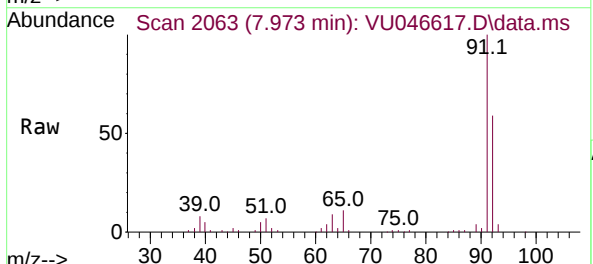
Acq: 28 Dec 2021 17:12

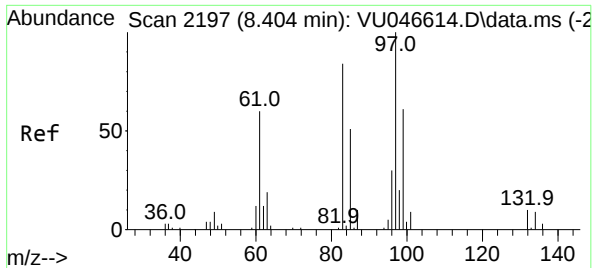
Tgt Ion: 91 Resp: 93368

Ion Ratio Lower Upper

91 100

92 59.5 41.3 76.7



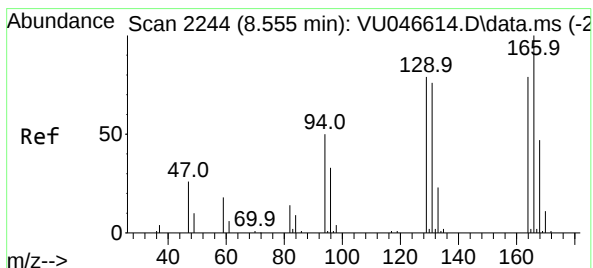
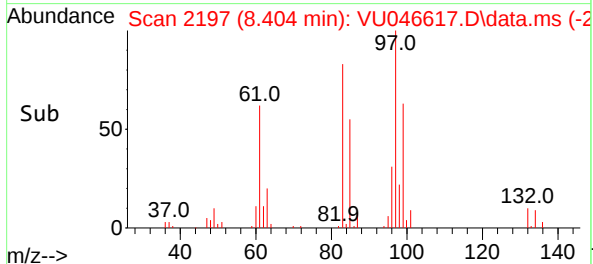
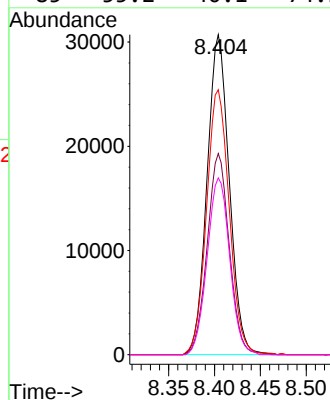
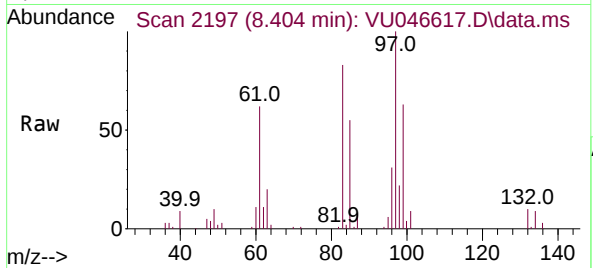


#45
1,1,2-Trichloroethane
Concen: 7.371 ug/L
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Instrument :
MSVOA_U
ClientSampleId :
GBBY9

Tgt Ion: 97 Resp: 51740

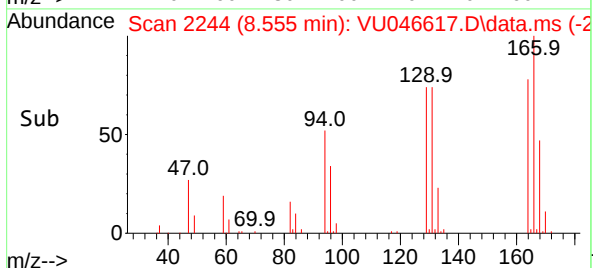
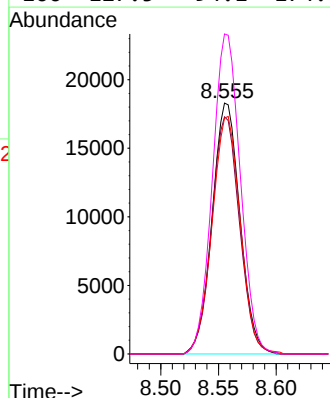
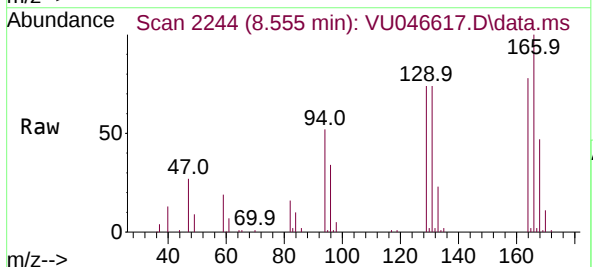
Ion	Ratio	Lower	Upper
97	100		
99	62.9	42.3	78.5
83	82.8	62.0	115.2
85	55.2	40.1	74.5

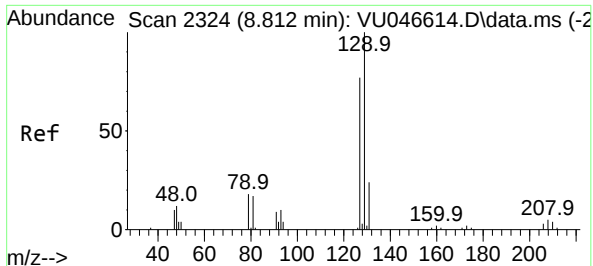


#47
Tetrachloroethene
Concen: 5.154 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion: 164 Resp: 30677

Ion	Ratio	Lower	Upper
164	100		
129	94.5	71.8	133.4
131	94.1	68.5	127.3
166	127.5	94.1	174.8





#49

Dibromochloromethane

Concen: 6.012 ug/L

RT: 8.812 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU046617.D

Acq: 28 Dec 2021 17:12

Instrument :

MSVOA_U

ClientSampleId :

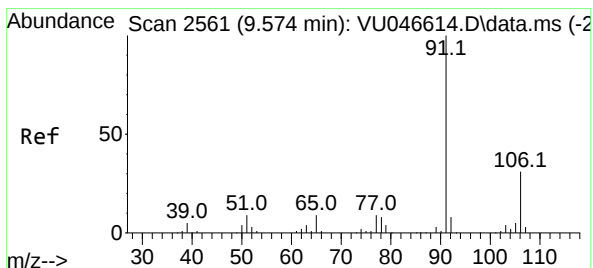
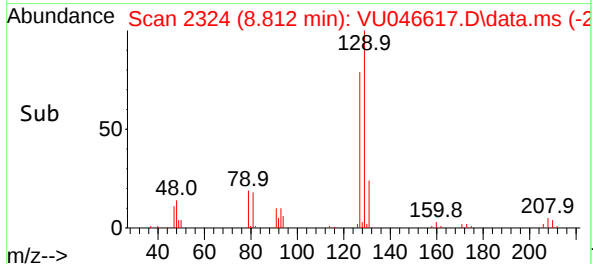
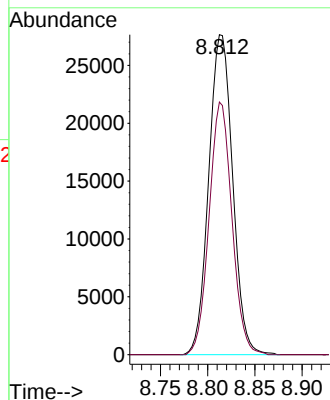
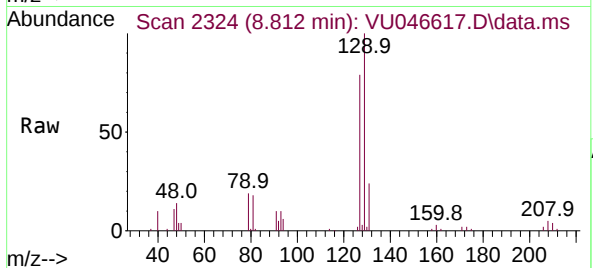
GBBY9

Tgt Ion:129 Resp: 48676

Ion Ratio Lower Upper

129 100

127 79.0 55.4 102.8



#52

Ethylbenzene

Concen: 10.706 ug/L

RT: 9.574 min Scan# 2561

Delta R.T. 0.000 min

Lab File: VU046617.D

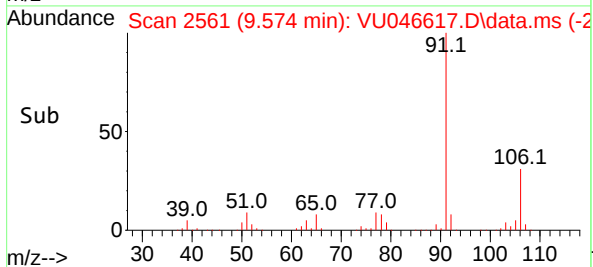
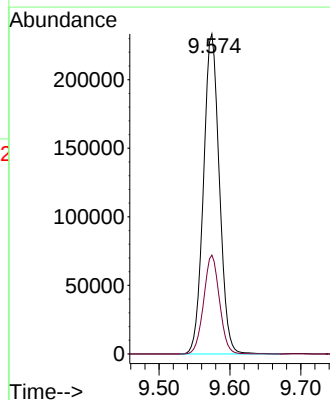
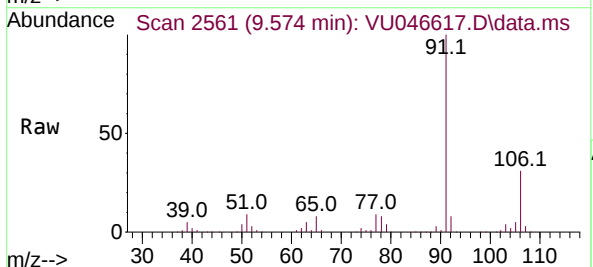
Acq: 28 Dec 2021 17:12

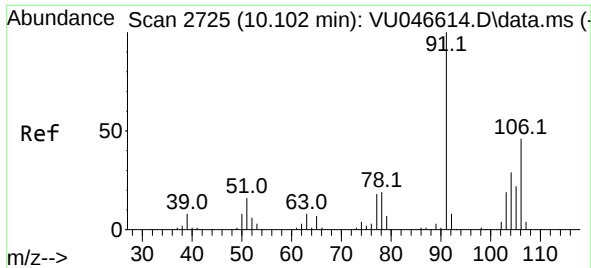
Tgt Ion: 91 Resp: 362961

Ion Ratio Lower Upper

91 100

106 30.9 21.5 39.9

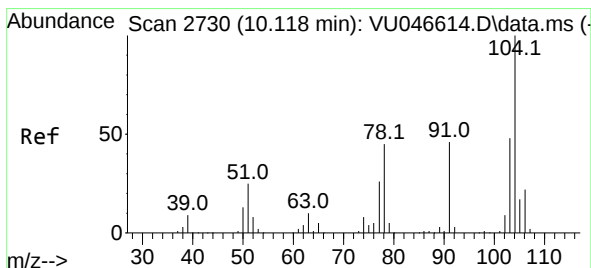
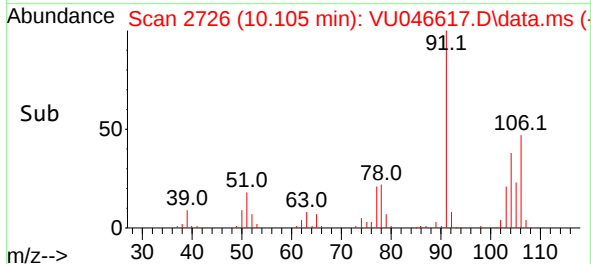
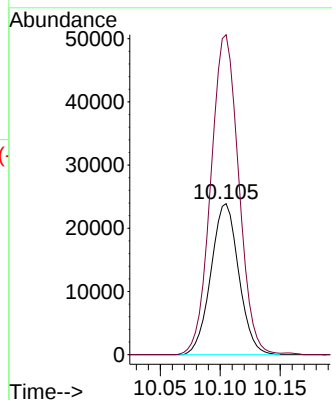
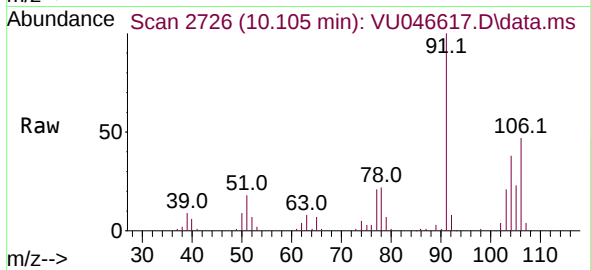




#54
o-Xylene
Concen: 3.087 ug/L
RT: 10.105 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

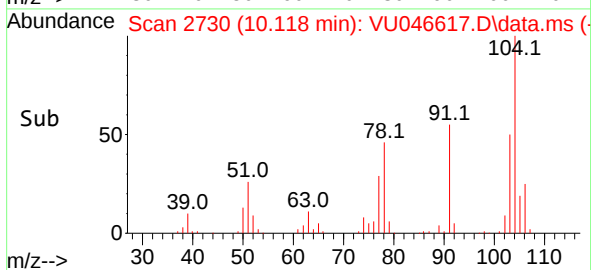
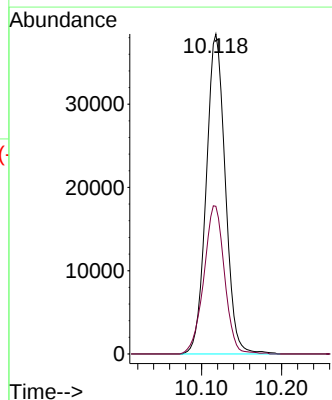
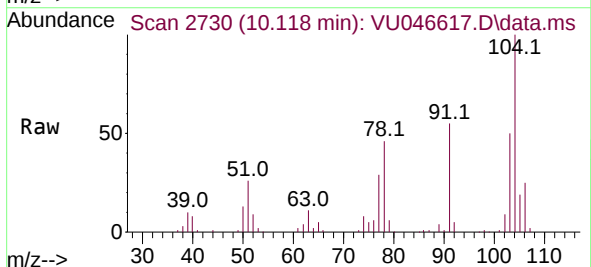
Instrument :
MSVOA_U
ClientSampleId :
GBBY9

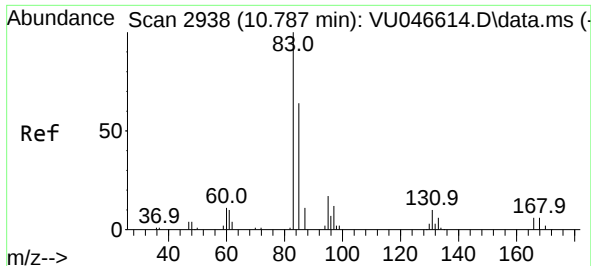
Tgt Ion:106 Resp: 38526
Ion Ratio Lower Upper
106 100
91 211.8 147.5 273.9



#55
Styrene
Concen: 2.947 ug/L
RT: 10.118 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion:104 Resp: 63785
Ion Ratio Lower Upper
104 100
78 46.2 33.0 61.4





#57

1,1,2,2-Tetrachloroethane

Concen: 4.610 ug/L

RT: 10.787 min Scan# 2938

Delta R.T. 0.000 min

Lab File: VU046617.D

Acq: 28 Dec 2021 17:12

Instrument :

MSVOA_U

ClientSampleId :

GBBY9

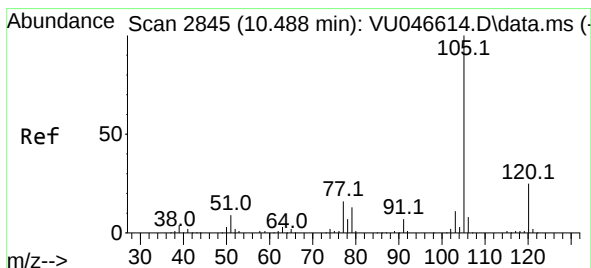
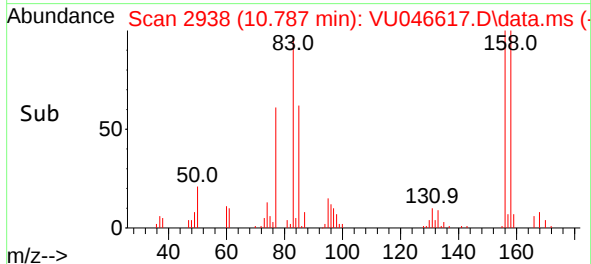
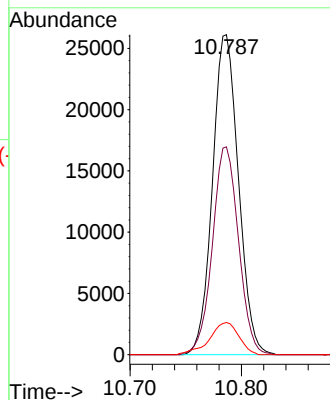
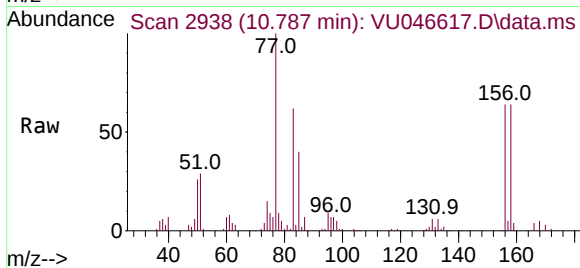
Tgt Ion: 83 Resp: 42290

Ion Ratio Lower Upper

83 100

85 65.0 47.9 89.1

131 10.1 8.1 12.1



#60

Isopropylbenzene

Concen: 7.368 ug/L

RT: 10.488 min Scan# 2845

Delta R.T. 0.000 min

Lab File: VU046617.D

Acq: 28 Dec 2021 17:12

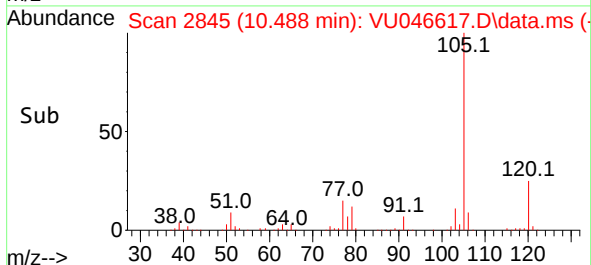
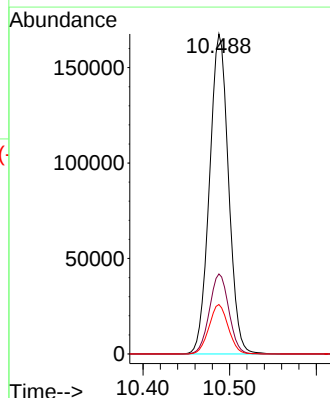
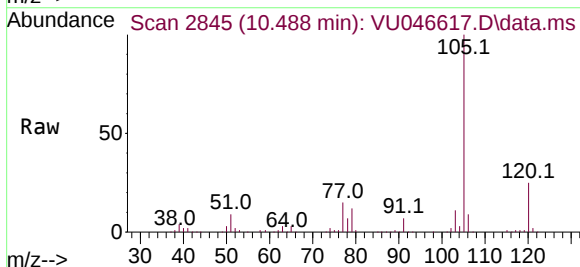
Tgt Ion: 105 Resp: 256133

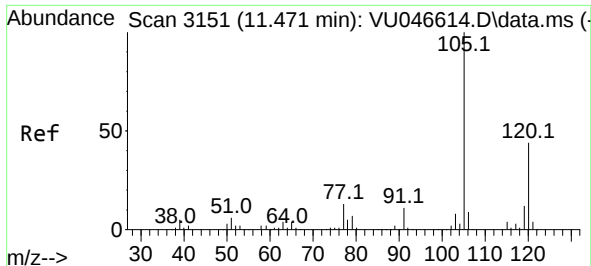
Ion Ratio Lower Upper

105 100

120 25.4 20.7 31.1

77 15.6 12.6 19.0

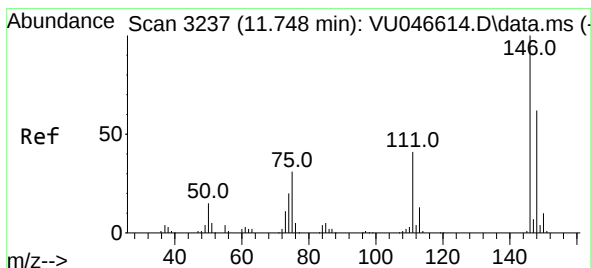
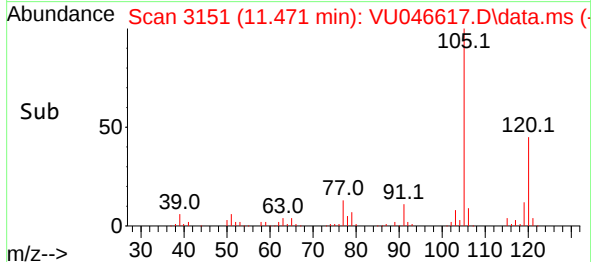
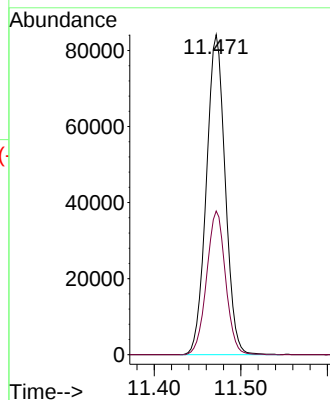
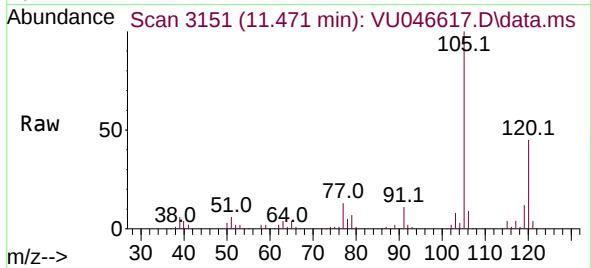




#63
1,2,4-Trimethylbenzene
Concen: 4.368 ug/L
RT: 11.471 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

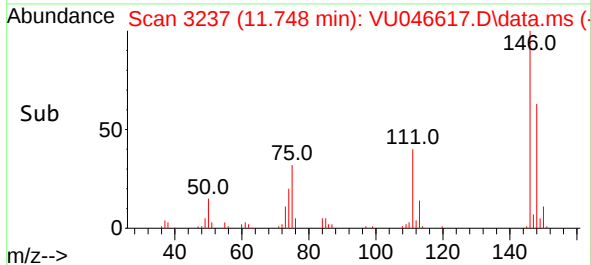
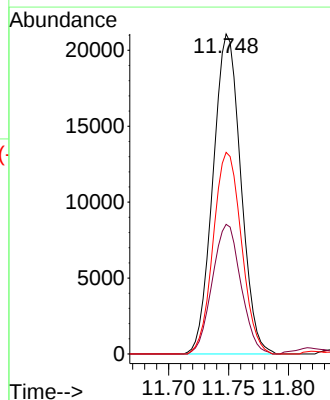
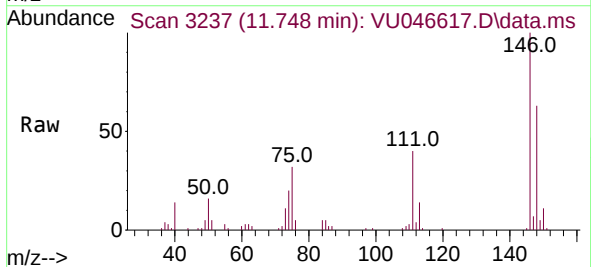
Instrument :
MSVOA_U
ClientSampleId :
GBBY9

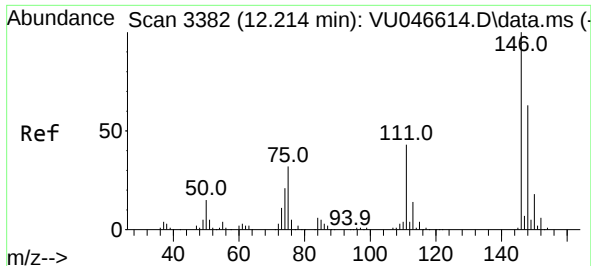
Tgt Ion:105 Resp: 127184
Ion Ratio Lower Upper
105 100
120 45.0 35.8 53.8



#64
1,3-Dichlorobenzene
Concen: 2.012 ug/L
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU046617.D
Acq: 28 Dec 2021 17:12

Tgt Ion:146 Resp: 33994
Ion Ratio Lower Upper
146 100
111 40.5 29.9 55.5
148 63.0 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 2.038 ug/L

RT: 12.214 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU046617.D

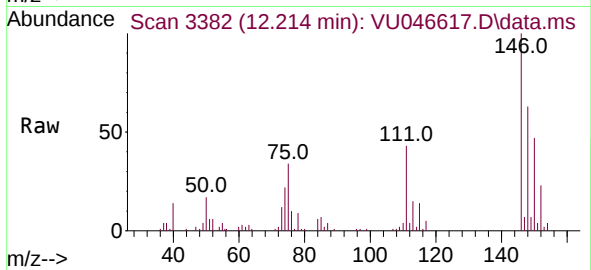
Acq: 28 Dec 2021 17:12

Instrument :

MSVOA_U

ClientSampleId :

GBBY9



Tgt Ion:146 Resp: 34539

Ion Ratio Lower Upper

146 100

111 42.8 35.4 53.0

148 63.2 51.1 76.7

