

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U032422\
 Data File : VU047657.D
 Acq On : 25 Mar 2022 00:54
 Operator : SY/MD
 Sample : N2081-16
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EW5Y3

Quant Time: Mar 25 05:30:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 24 23:34:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	339277	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	346828	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	193008	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	98307	39.957	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.920%
7) Chloroethane-d5	1.919	69	79554	41.008	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.020%
11) 1,1-Dichloroethene-d2	2.572	63	143660	31.915	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	63.820%
21) 2-Butanone-d5	4.639	46	204644	96.908	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.910%
24) Chloroform-d	5.067	84	188890	41.959	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.920%
26) 1,2-Dichloroethane-d4	5.703	65	121316	43.939	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.880%
32) Benzene-d6	5.732	84	390742	44.773	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.540%
36) 1,2-Dichloropropane-d6	6.694	67	122206	45.596	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.200%
41) Toluene-d8	7.899	98	364990	42.926	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.860%
43) trans-1,3-Dichloroprop...	8.179	79	58375	42.991	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.980%
47) 2-Hexanone-d5	8.636	63	148376	94.568	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.570%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	197691	42.979	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.960%
66) 1,2-Dichlorobenzene-d4	12.192	152	168322	49.019	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.040%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	206183	67.207	ug/L	99
8) Chloroethane	1.938	64	57227	29.714	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.572	101	1274	0.509	ug/L #	18
12) 1,1-Dichloroethene	2.584	96	15566	6.688	ug/L #	1
17) trans-1,2-Dichloroethene	3.356	96	8043	3.204	ug/L	96
19) 1,1-Dichloroethane	3.874	63	853790	197.214	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	912902	331.726	ug/L	96
27) 1,2-Dichloroethane	5.800	62	6002	1.667	ug/L	100
30) 1,1,1-Trichloroethane	5.321	97	442042	112.403	ug/L	99
31) Carbon tetrachloride	5.321	117	61173	17.226	ug/L	99
34) Trichloroethene	6.543	95	35287	13.407	ug/L	98
35) Methylcyclohexane	6.764	83	14228	3.553	ug/L	93
39) cis-1,3-Dichloropropene	7.568	75	3412	0.862	ug/L #	61
42) Toluene	7.970	91	98987	8.986	ug/L	98
44) trans-1,3-Dichloropropene	8.179	75	2675	0.677	ug/L	84
45) 1,1,2-Trichloroethane	8.372	97	2943	1.087	ug/L #	19
46) Tetrachloroethene	8.555	164	73545	31.095	ug/L	98
49) Dibromochloromethane	8.552	129	66479	21.206	ug/L #	11
52) Ethylbenzene	9.571	91	115791	9.997	ug/L	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032422\
 Data File : VU047657.D
 Acq On : 25 Mar 2022 00:54
 Operator : SY/MD
 Sample : N2081-16
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EW5Y3

Quant Time: Mar 25 05:30:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 24 23:34:42 2022
 Response via : Initial Calibration

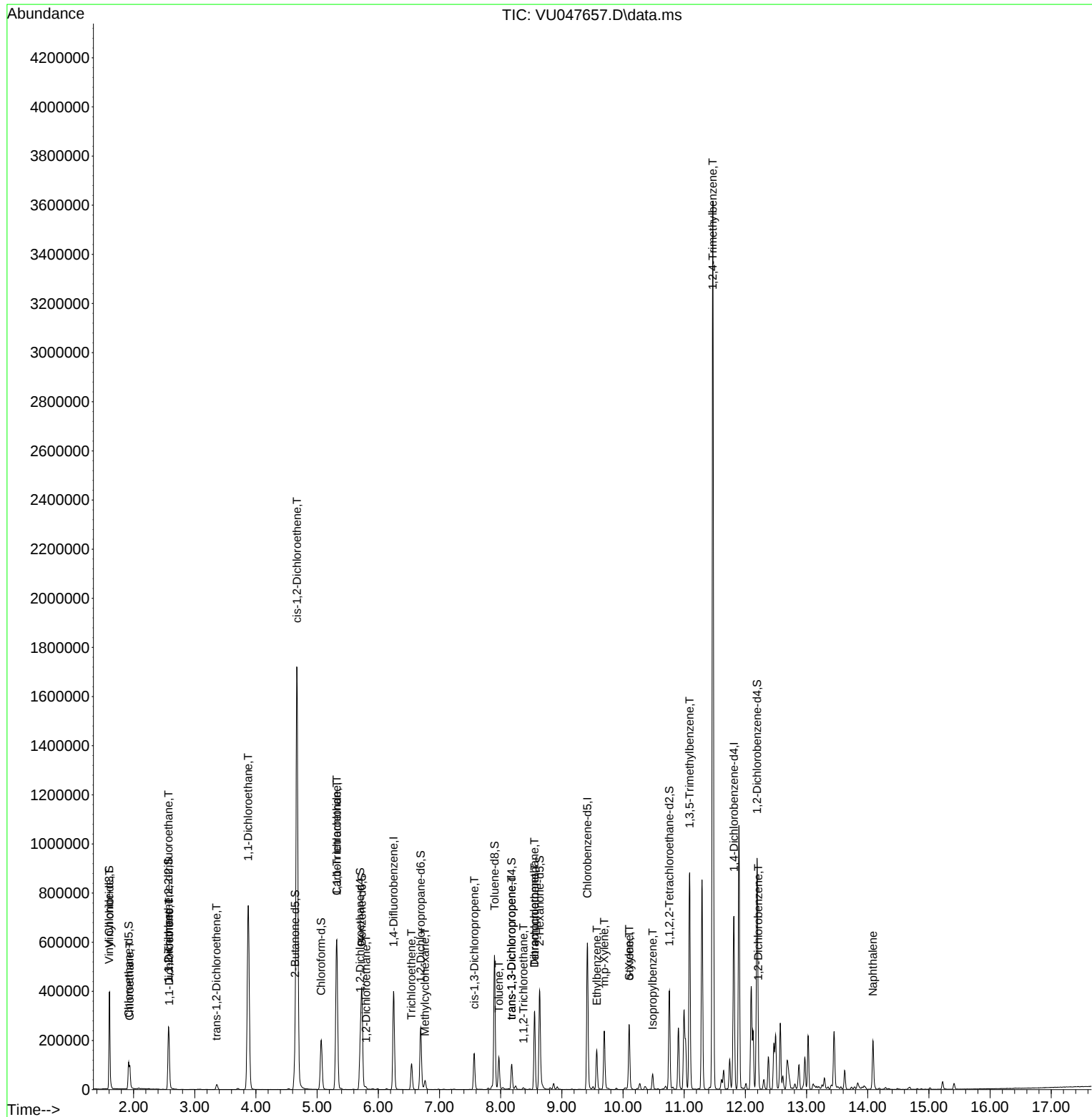
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.694	106	66939	14.729	ug/L	98
54) o-Xylene	10.102	106	73864	16.560	ug/L	97
55) Styrene	10.102	104	4615	0.606	ug/L #	1
61) Isopropylbenzene	10.484	105	41319	3.961	ug/L	98
62) 1,3,5-Trimethylbenzene	11.089	105	478966	84.628	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	1962416	228.270	ug/L	100
67) 1,2-Dichlorobenzene	12.211	146	8727	1.504	ug/L	95
71) Naphthalene	14.086	128	160867	13.083	ug/L	99

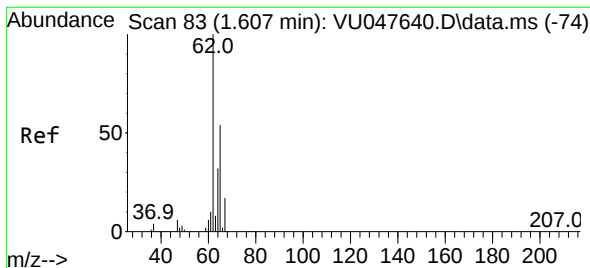
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032422\
Data File : VU047657.D
Acq On : 25 Mar 2022 00:54
Operator : SY/MD
Sample : N2081-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EW5Y3

Quant Time: Mar 25 05:30:45 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 24 23:34:42 2022
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 67.207 ug/L

RT: 1.607 min Scan# 81

Delta R.T. 0.000 min

Lab File: VU047657.D

Acq: 25 Mar 2022 00:54

Instrument :

MSVOA_U

ClientSampleId :

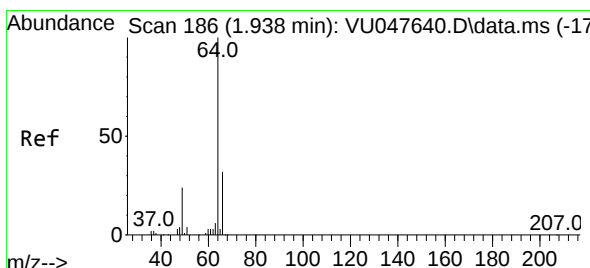
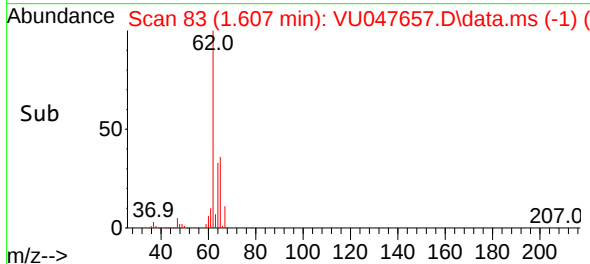
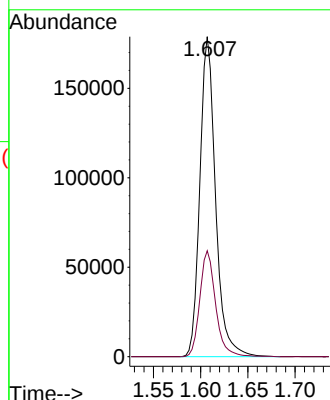
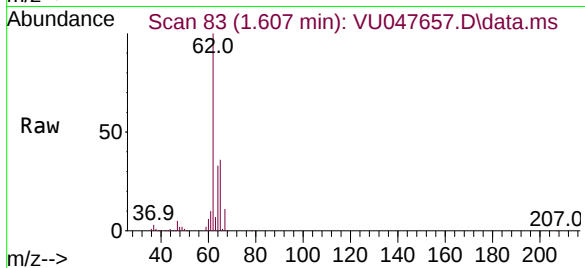
EW5Y3

Tgt Ion: 62 Resp: 206183

Ion Ratio Lower Upper

62 100

64 33.1 23.7 43.9



#8

Chloroethane

Concen: 29.714 ug/L

RT: 1.938 min Scan# 186

Delta R.T. 0.000 min

Lab File: VU047657.D

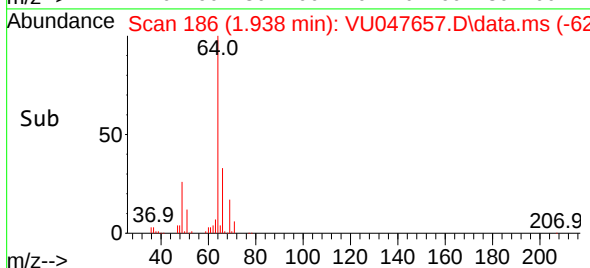
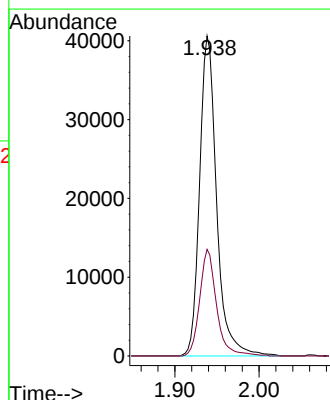
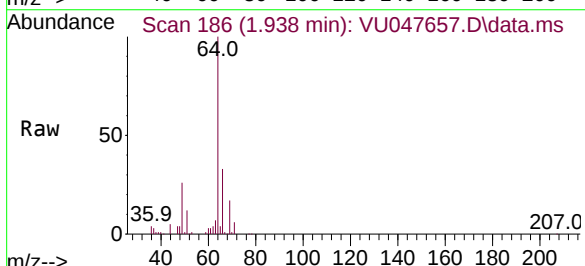
Acq: 25 Mar 2022 00:54

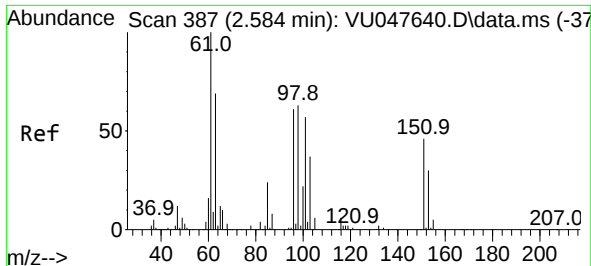
Tgt Ion: 64 Resp: 57227

Ion Ratio Lower Upper

64 100

66 33.3 23.3 43.3

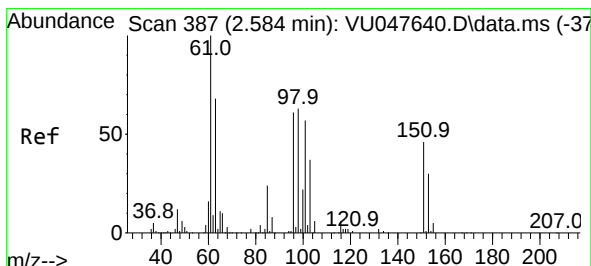
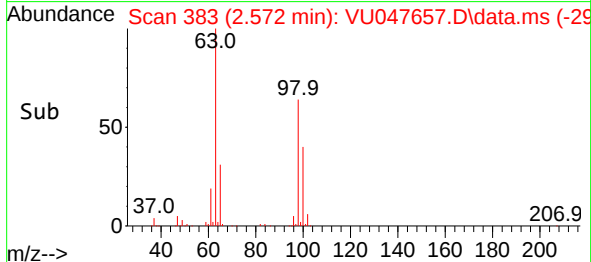
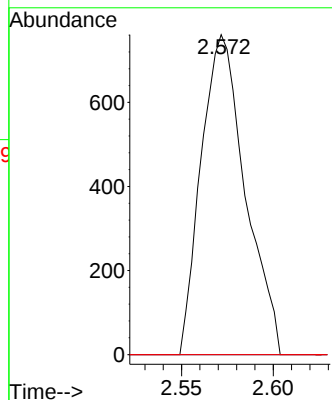
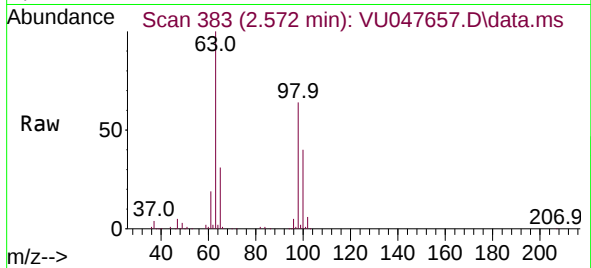




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.509 ug/L
 RT: 2.572 min Scan# 383
 Delta R.T. -0.013 min
 Lab File: VU047657.D
 Acq: 25 Mar 2022 00:54

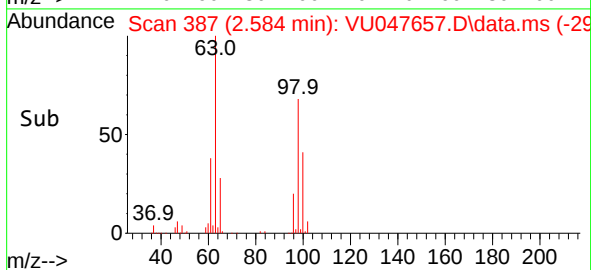
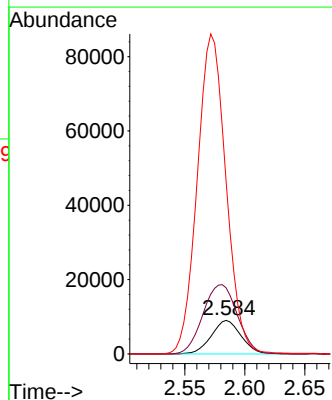
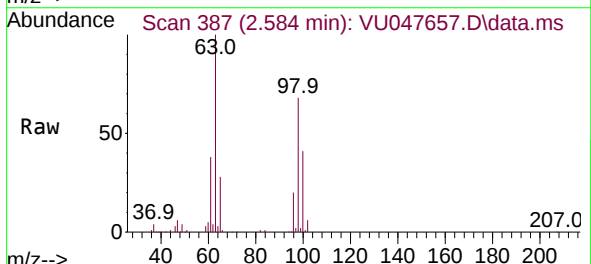
Instrument :
 MSVOA_U
 ClientSampleId :
 EW5Y3

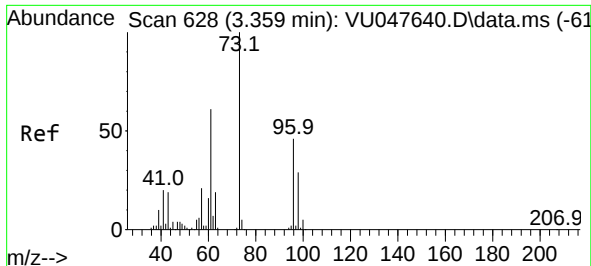
Tgt Ion:101 Resp: 1274
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.8 49.2#
 151 0.0 63.0 94.6#



#12
 1,1-Dichloroethene
 Concen: 6.688 ug/L
 RT: 2.584 min Scan# 387
 Delta R.T. 0.000 min
 Lab File: VU047657.D
 Acq: 25 Mar 2022 00:54

Tgt Ion: 96 Resp: 15566
 Ion Ratio Lower Upper
 96 100
 61 196.4 113.1 210.1
 63 512.8 94.8 176.0#





#17

trans-1,2-Dichloroethene

Concen: 3.204 ug/L

RT: 3.356 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU047657.D

Acq: 25 Mar 2022 00:54

Instrument :

MSVOA_U

ClientSampleId :

EW5Y3

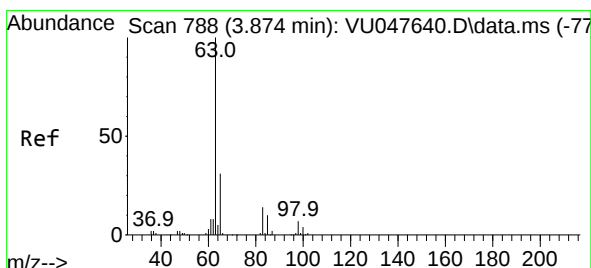
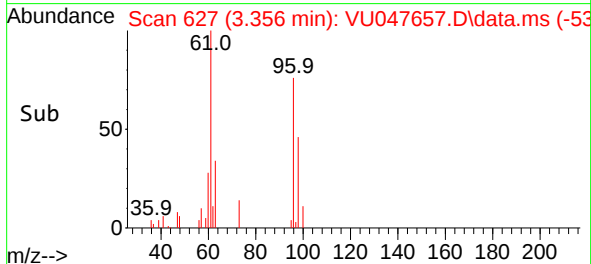
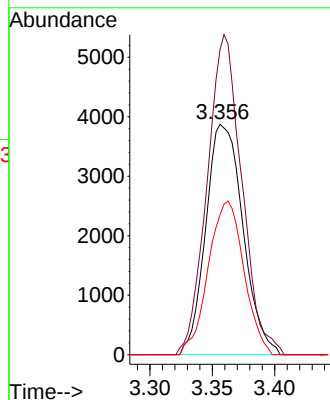
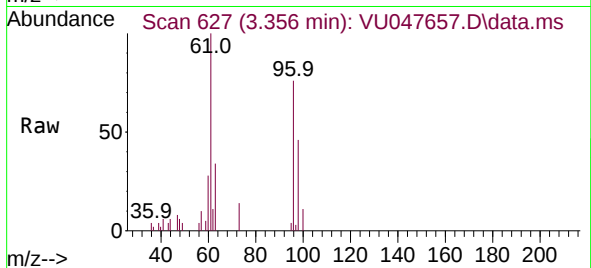
Tgt Ion: 96 Resp: 8043

Ion Ratio Lower Upper

96 100

61 132.3 88.4 164.2

98 60.6 43.3 80.5



#19

1,1-Dichloroethane

Concen: 197.214 ug/L

RT: 3.874 min Scan# 788

Delta R.T. 0.000 min

Lab File: VU047657.D

Acq: 25 Mar 2022 00:54

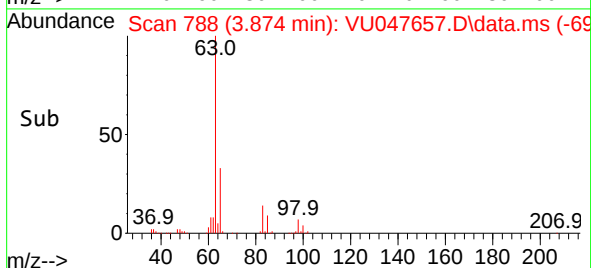
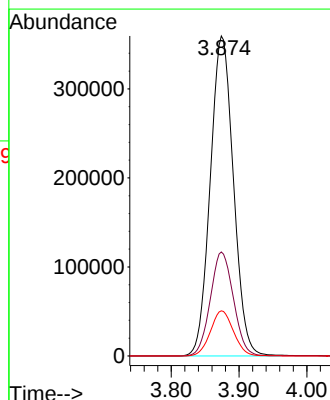
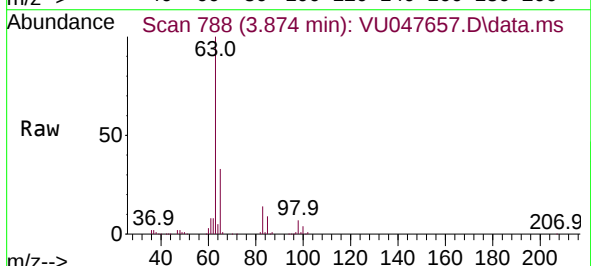
Tgt Ion: 63 Resp: 853790

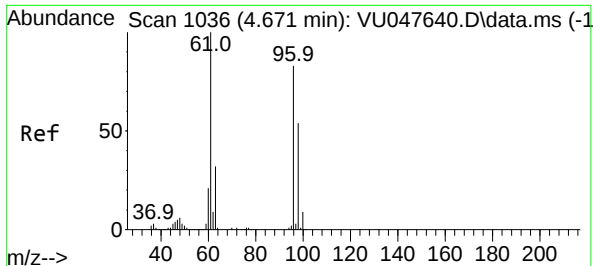
Ion Ratio Lower Upper

63 100

65 32.5 22.0 41.0

83 14.1 9.7 18.1

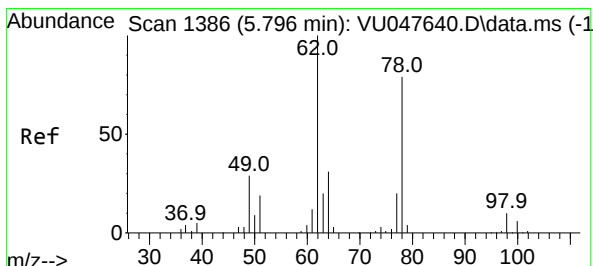
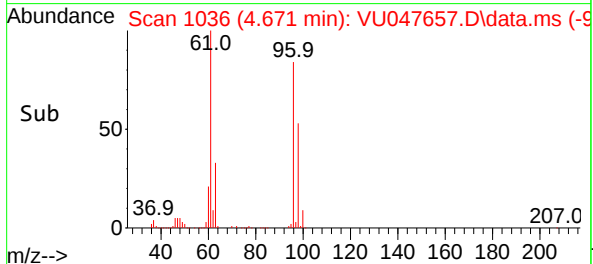
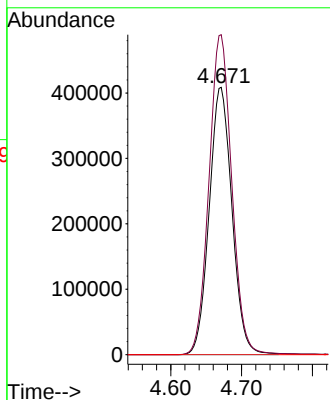
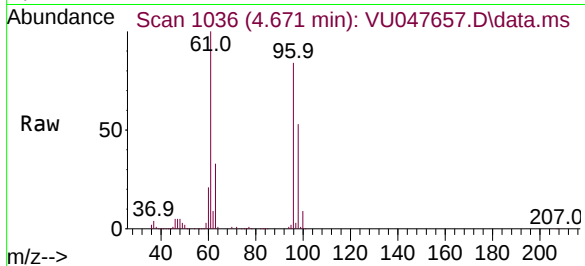




#20
 cis-1,2-Dichloroethene
 Concen: 331.726 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VU047657.D
 Acq: 25 Mar 2022 00:54

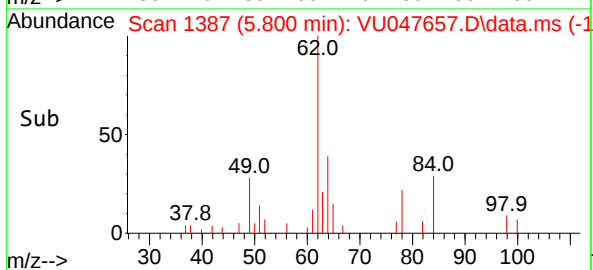
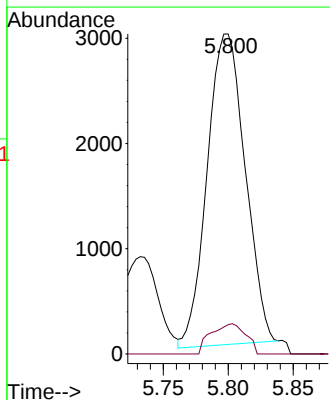
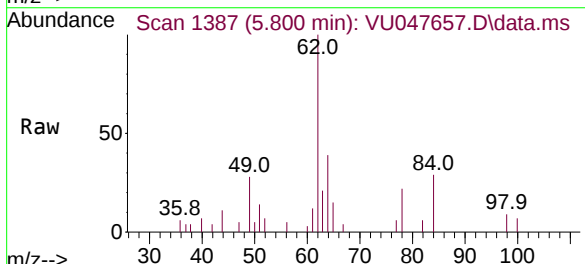
Instrument :
 MSVOA_U
 ClientSampleId :
 EW5Y3

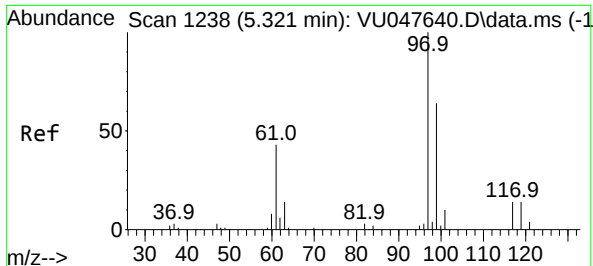
Tgt Ion: 96 Resp: 912902
 Ion Ratio Lower Upper
 96 100
 61 119.7 80.7 149.9
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 1.667 ug/L
 RT: 5.800 min Scan# 1387
 Delta R.T. 0.003 min
 Lab File: VU047657.D
 Acq: 25 Mar 2022 00:54

Tgt Ion: 62 Resp: 6002
 Ion Ratio Lower Upper
 62 100
 98 9.2 7.4 11.0





#30

1,1,1-Trichloroethane

Concen: 112.403 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU047657.D

Acq: 25 Mar 2022 00:54

Instrument :

MSVOA_U

ClientSampleId :

EW5Y3

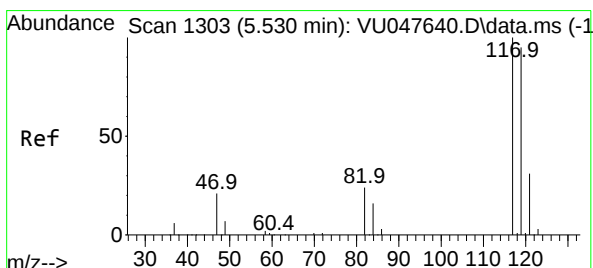
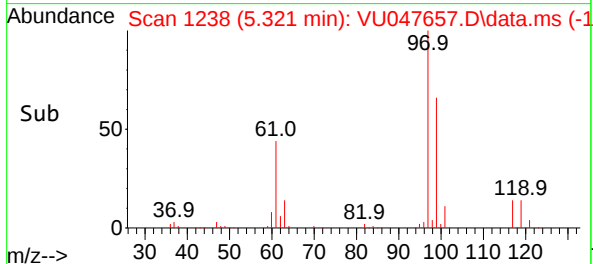
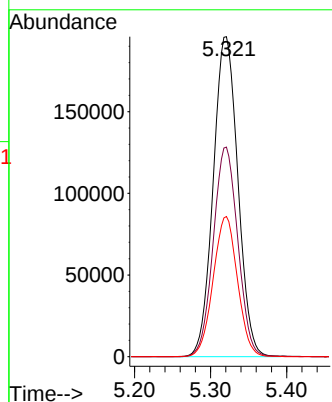
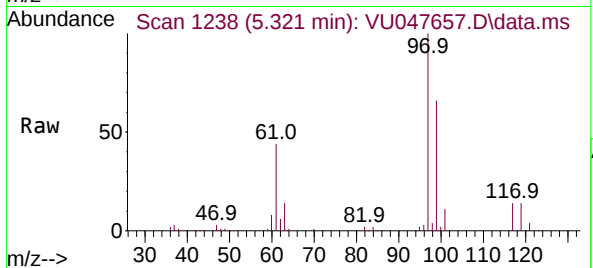
Tgt Ion: 97 Resp: 442042

Ion Ratio Lower Upper

97 100

99 65.2 51.6 77.4

61 43.3 34.2 51.4



#31

Carbon tetrachloride

Concen: 17.226 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.209 min

Lab File: VU047657.D

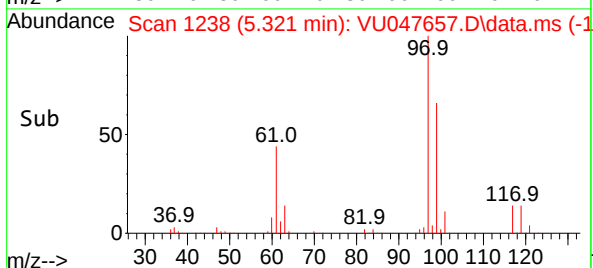
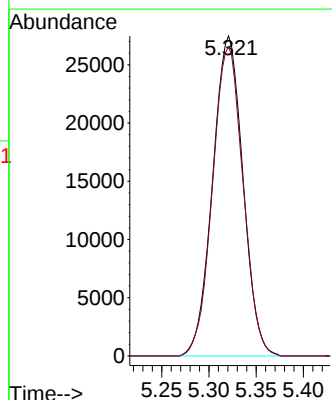
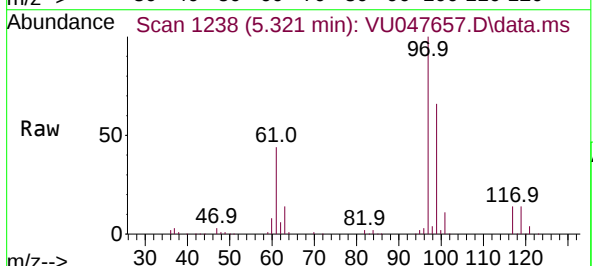
Acq: 25 Mar 2022 00:54

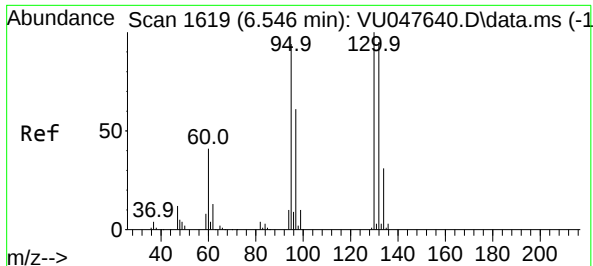
Tgt Ion:117 Resp: 61173

Ion Ratio Lower Upper

117 100

119 97.4 77.2 115.8





#34

Trichloroethene

Concen: 13.407 ug/L

RT: 6.543 min Scan# 1619

Delta R.T. -0.003 min

Lab File: VU047657.D

Acq: 25 Mar 2022 00:54

Instrument :

MSVOA_U

ClientSampleId :

EW5Y3

Tgt Ion: 95 Resp: 35287

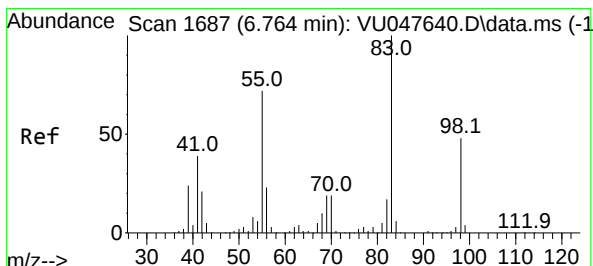
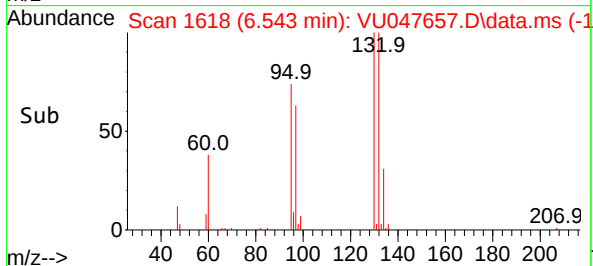
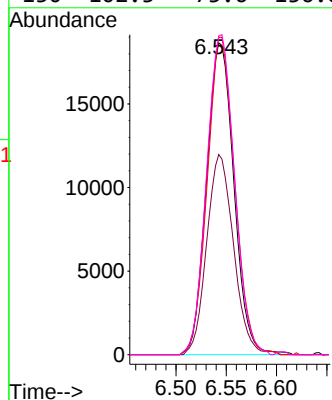
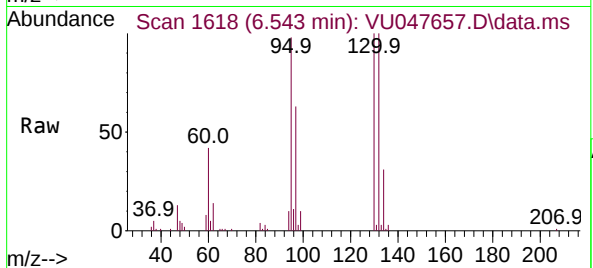
Ion Ratio Lower Upper

95 100

97 64.2 44.7 82.9

132 101.8 70.4 130.8

130 102.3 73.6 136.8



#35

Methylcyclohexane

Concen: 3.553 ug/L

RT: 6.764 min Scan# 1687

Delta R.T. 0.000 min

Lab File: VU047657.D

Acq: 25 Mar 2022 00:54

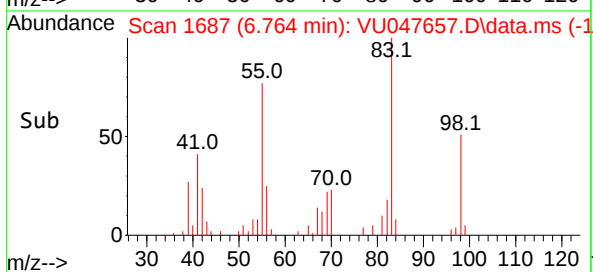
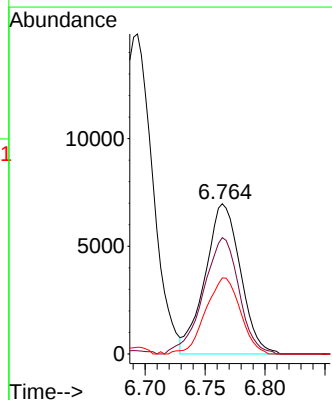
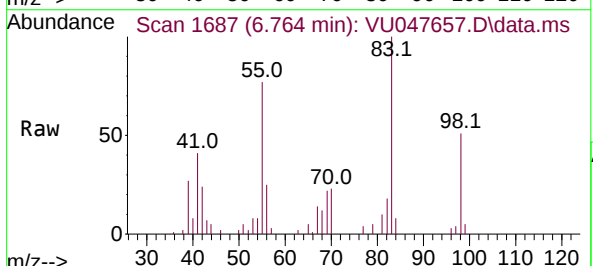
Tgt Ion: 83 Resp: 14228

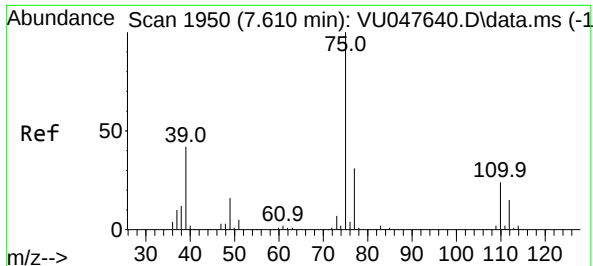
Ion Ratio Lower Upper

83 100

55 78.4 56.8 85.2

98 49.8 38.1 57.1





#39

cis-1,3-Dichloropropene

Concen: 0.862 ug/L

RT: 7.568 min Scan# 1950

Delta R.T. -0.042 min

Lab File: VU047657.D

Acq: 25 Mar 2022 00:54

Instrument :

MSVOA_U

ClientSampleId :

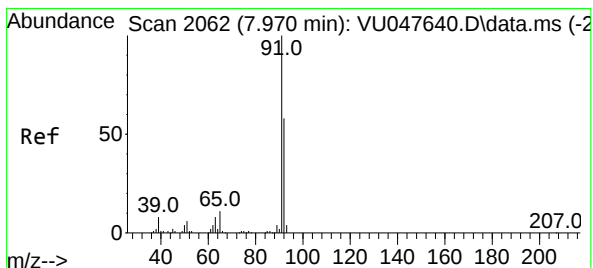
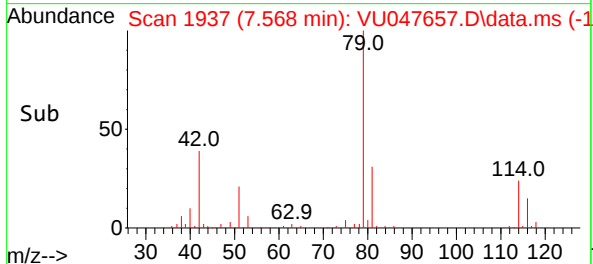
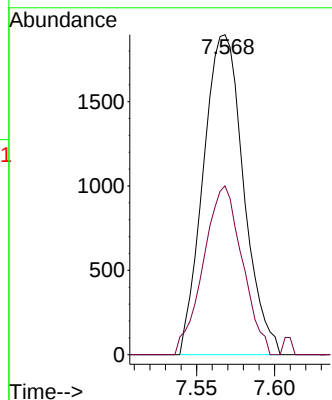
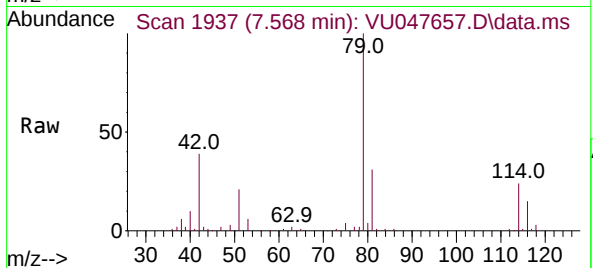
EW5Y3

Tgt Ion: 75 Resp: 3412

Ion Ratio Lower Upper

75 100

77 52.8 21.8 40.6#



#42

Toluene

Concen: 8.986 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU047657.D

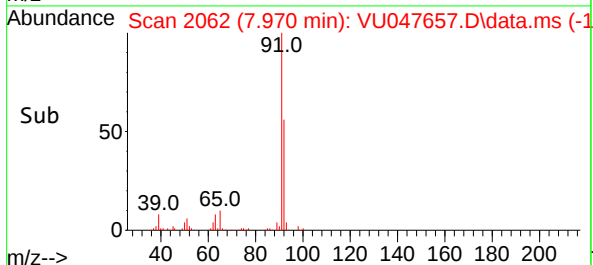
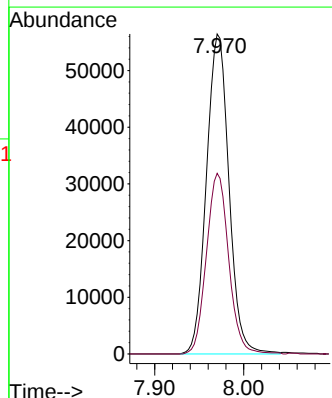
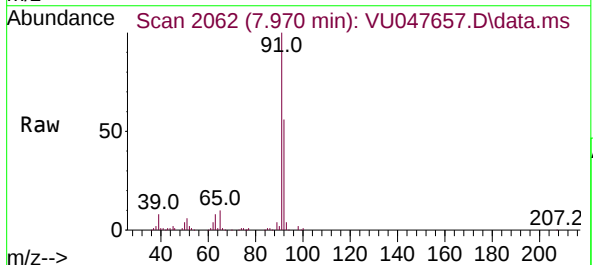
Acq: 25 Mar 2022 00:54

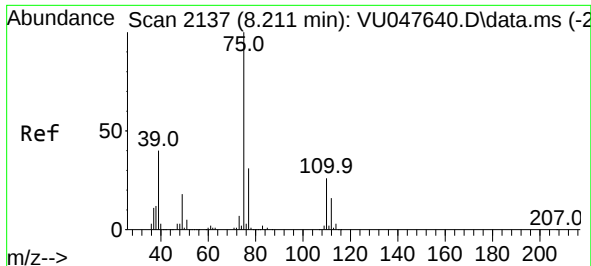
Tgt Ion: 91 Resp: 98987

Ion Ratio Lower Upper

91 100

92 56.4 40.4 75.0

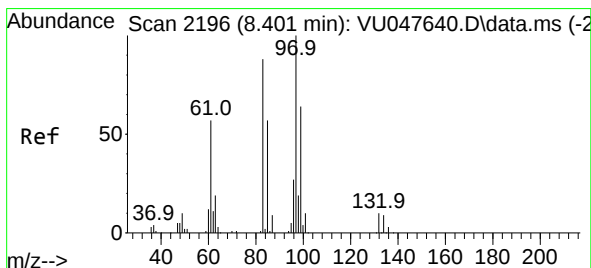
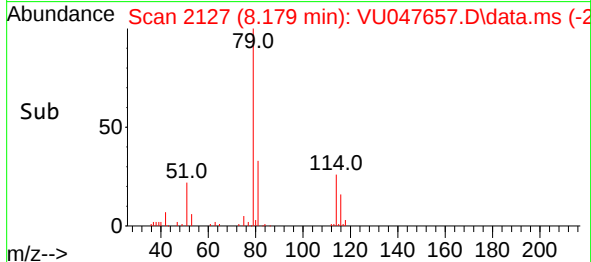
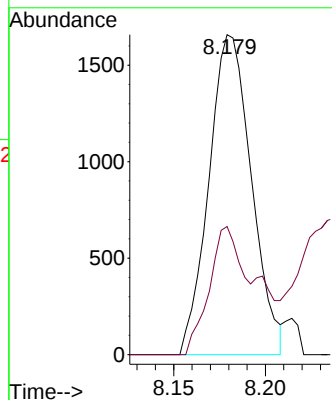
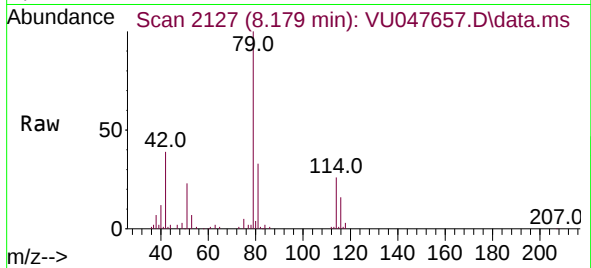




#44
trans-1,3-Dichloropropene
Concen: 0.677 ug/L
RT: 8.179 min Scan# 2137
Delta R.T. -0.032 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

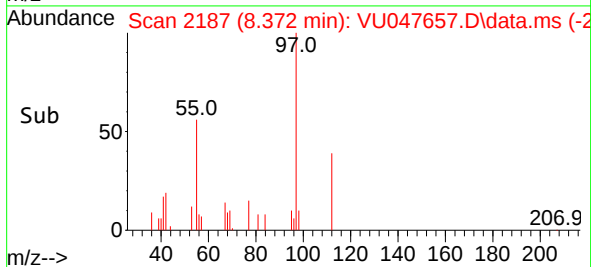
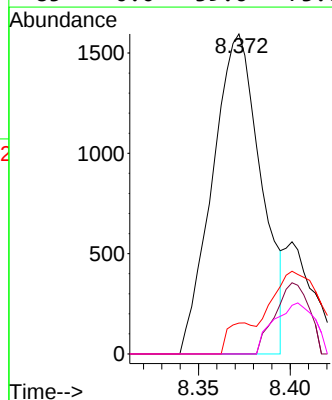
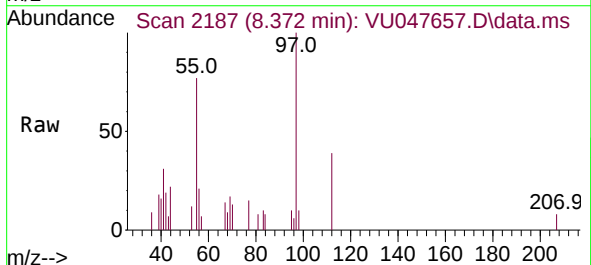
Instrument :
MSVOA_U
ClientSampleId :
EW5Y3

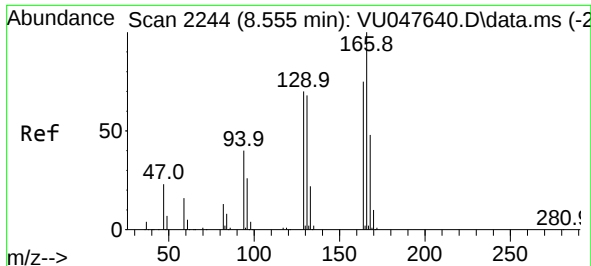
Tgt Ion: 75 Resp: 2675
Ion Ratio Lower Upper
75 100
77 40.0 22.0 40.8



#45
1,1,2-Trichloroethane
Concen: 1.087 ug/L
RT: 8.372 min Scan# 2187
Delta R.T. -0.029 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

Tgt Ion: 97 Resp: 2943
Ion Ratio Lower Upper
97 100
99 0.0 43.3 80.3#
83 9.7 61.0 113.4#
85 0.0 39.6 73.6#

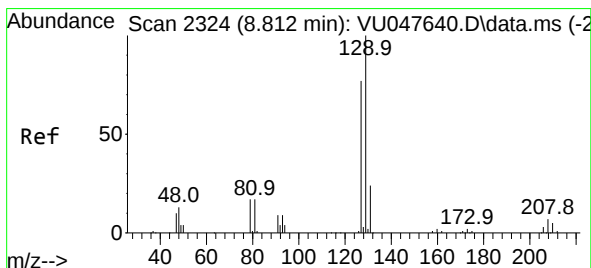
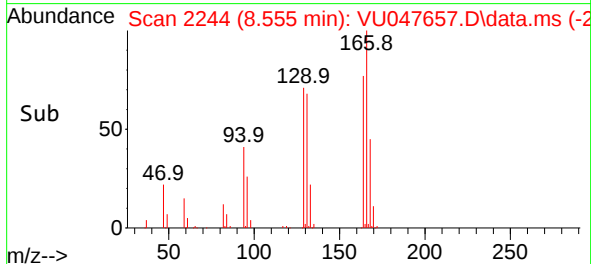
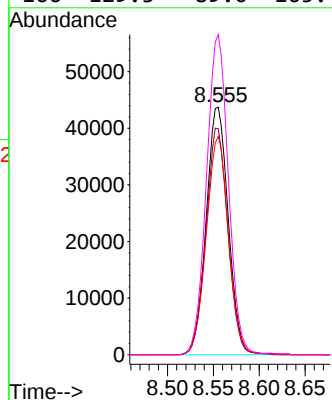
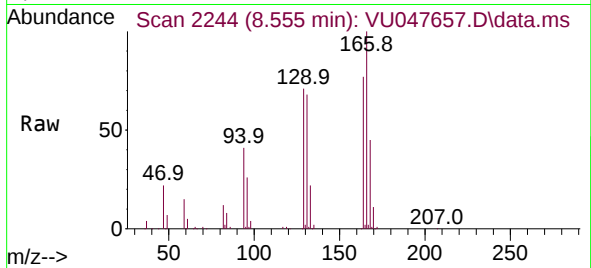




#46
Tetrachloroethene
Concen: 31.095 ug/L
RT: 8.555 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

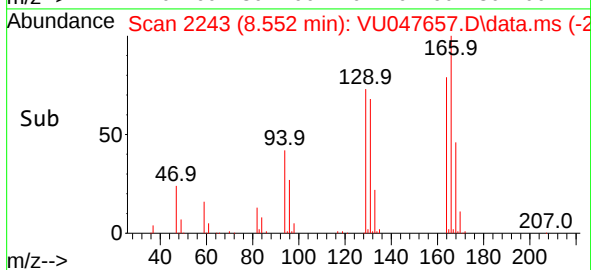
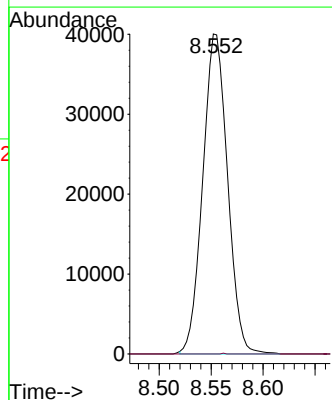
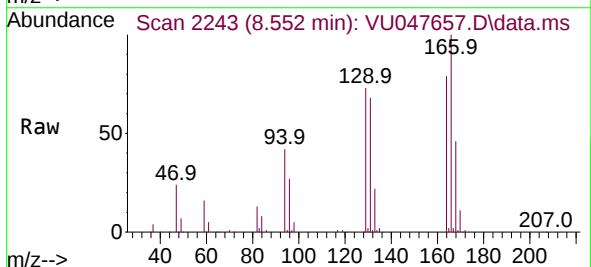
Instrument :
MSVOA_U
ClientSampleId :
EW5Y3

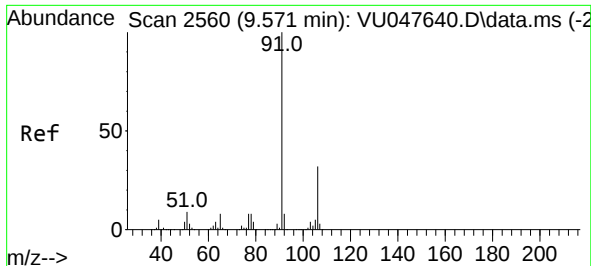
Tgt Ion:164 Resp: 73545
Ion Ratio Lower Upper
164 100
129 91.3 62.4 116.0
131 88.2 60.7 112.7
166 129.3 89.0 165.4



#49
Dibromochloromethane
Concen: 21.206 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. -0.260 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

Tgt Ion:129 Resp: 66479
Ion Ratio Lower Upper
129 100
127 0.0 54.2 100.6#

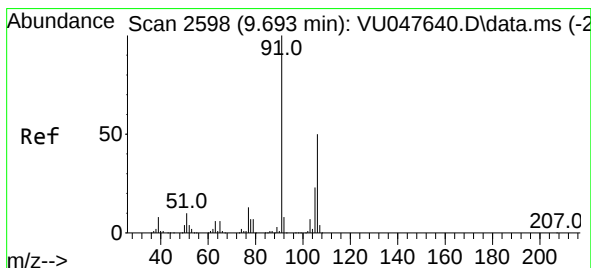
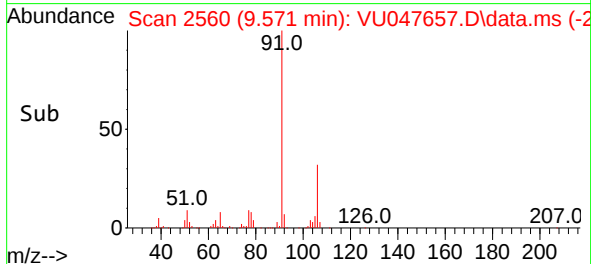
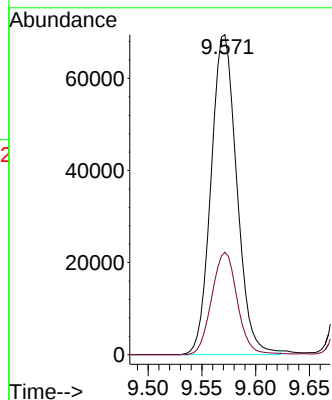
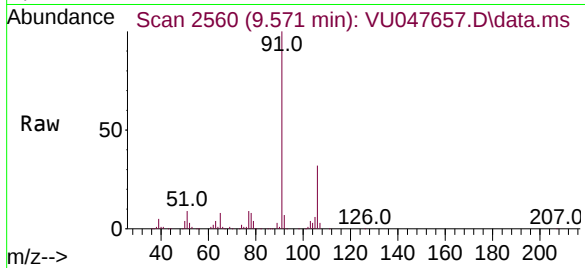




#52
Ethylbenzene
Concen: 9.997 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

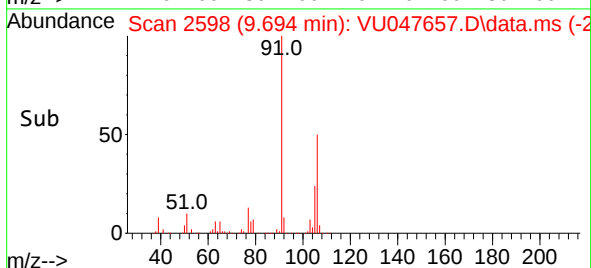
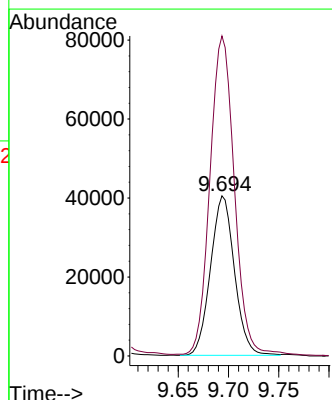
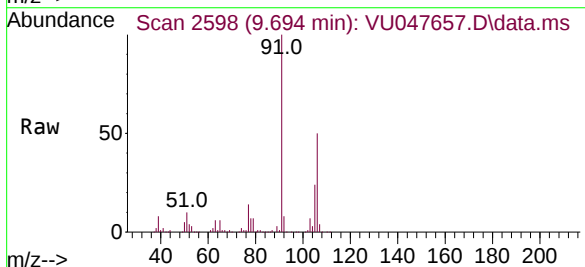
Instrument :
MSVOA_U
ClientSampleId :
EW5Y3

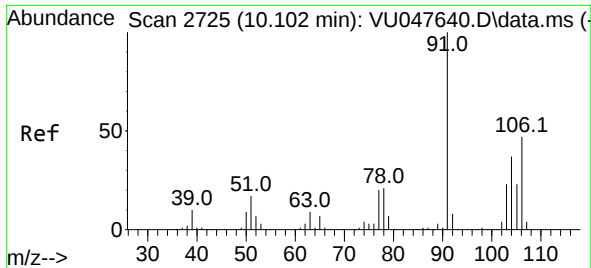
Tgt Ion: 91 Resp: 115791
Ion Ratio Lower Upper
91 100
106 32.0 22.4 41.6



#53
m,p-Xylene
Concen: 14.729 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

Tgt Ion: 106 Resp: 66939
Ion Ratio Lower Upper
106 100
91 199.7 137.7 255.7

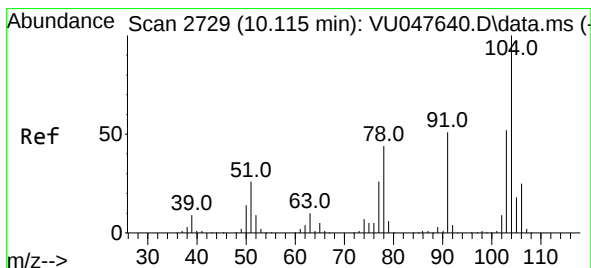
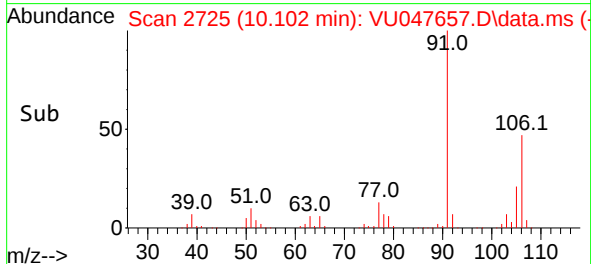
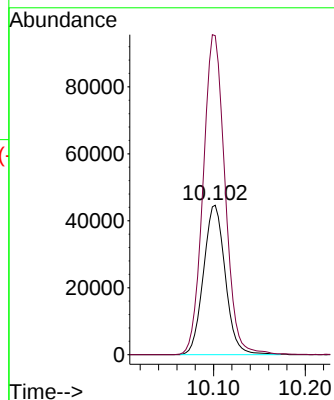
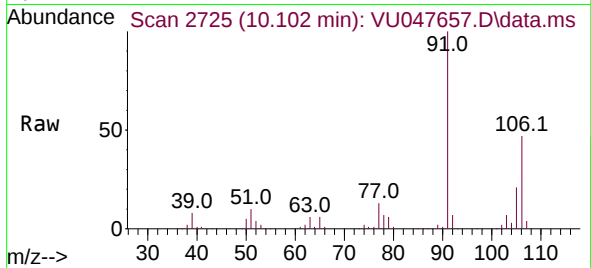




#54
o-Xylene
Concen: 16.560 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. 0.000 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

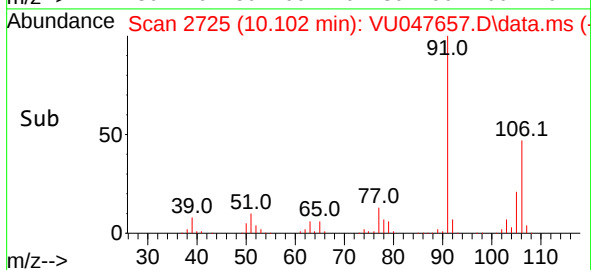
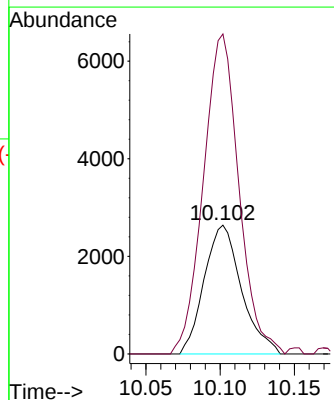
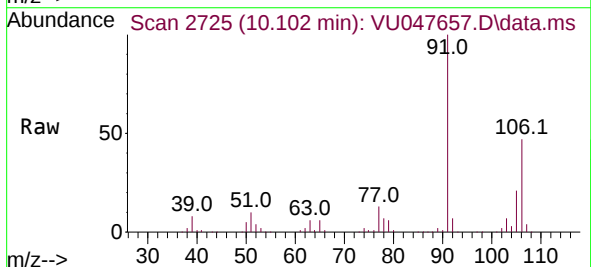
Instrument :
MSVOA_U
ClientSampleId :
EW5Y3

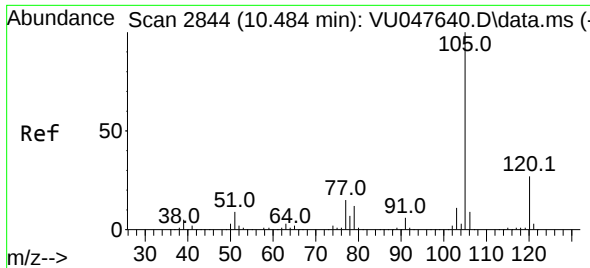
Tgt Ion:106 Resp: 73864
Ion Ratio Lower Upper
106 100
91 213.5 146.7 272.5



#55
Styrene
Concen: 0.606 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.013 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

Tgt Ion:104 Resp: 4615
Ion Ratio Lower Upper
104 100
78 248.4 30.4 56.4#

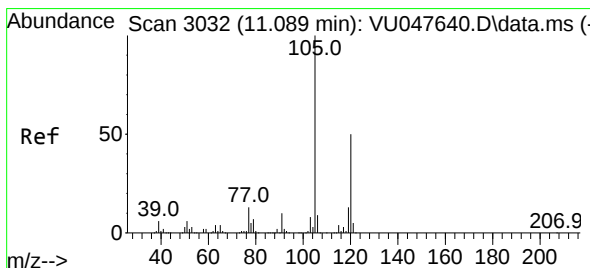
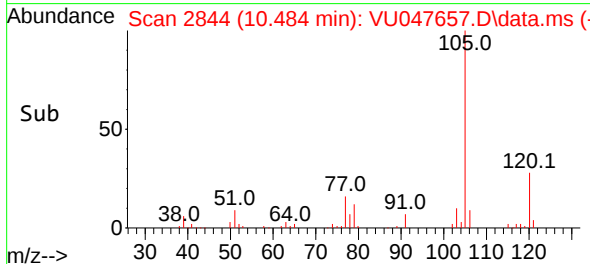
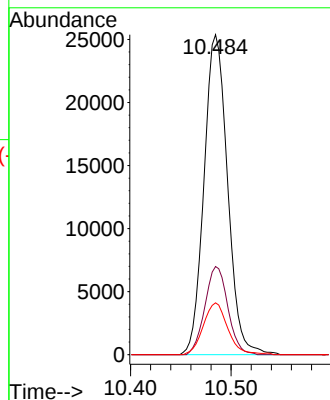
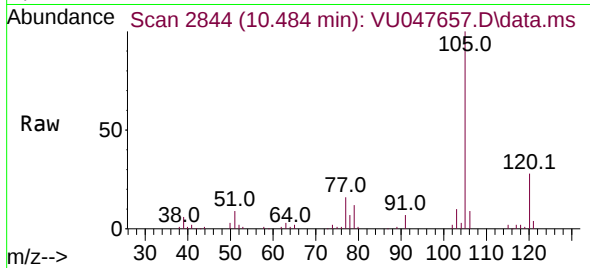




#61
Isopropylbenzene
Concen: 3.961 ug/L
RT: 10.484 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

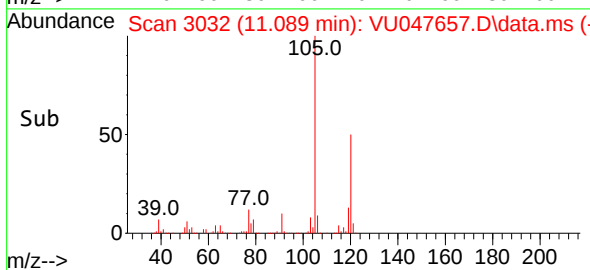
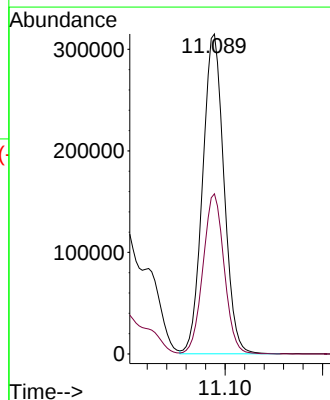
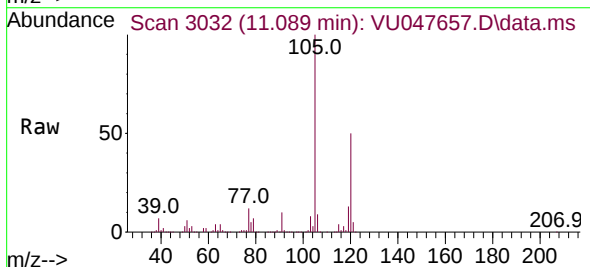
Instrument :
MSVOA_U
ClientSampleId :
EW5Y3

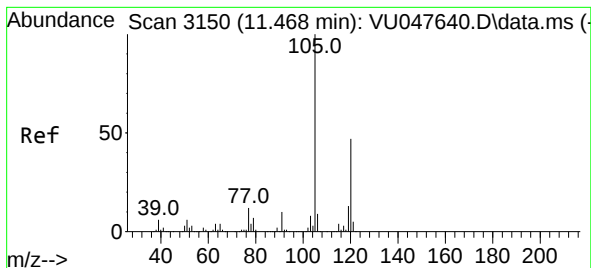
Tgt Ion:105 Resp: 41319
Ion Ratio Lower Upper
105 100
120 26.8 21.9 32.9
77 16.8 12.1 18.1



#62
1,3,5-Trimethylbenzene
Concen: 84.628 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. 0.000 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

Tgt Ion:105 Resp: 478966
Ion Ratio Lower Upper
105 100
120 49.8 40.8 61.2





#63

1,2,4-Trimethylbenzene

Concen: 228.270 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU047657.D

Acq: 25 Mar 2022 00:54

Instrument :

MSVOA_U

ClientSampleId :

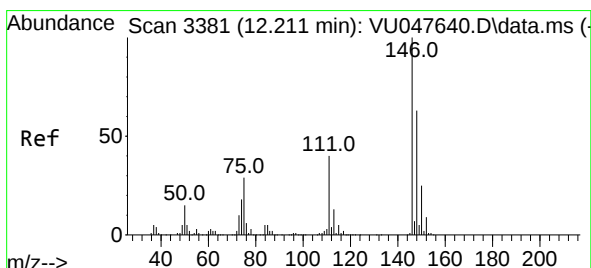
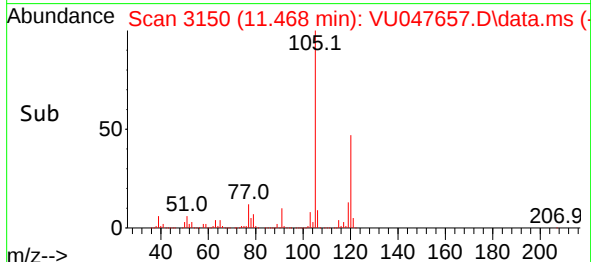
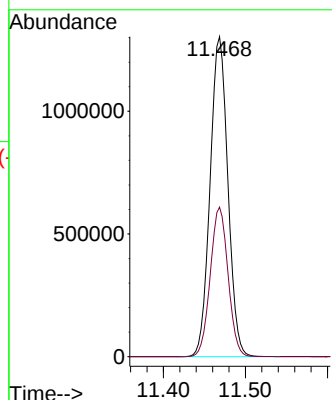
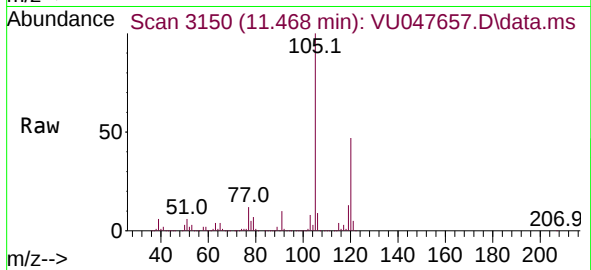
EW5Y3

Tgt Ion:105 Resp: 1962416

Ion Ratio Lower Upper

105 100

120 46.9 37.6 56.4



#67

1,2-Dichlorobenzene

Concen: 1.504 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.000 min

Lab File: VU047657.D

Acq: 25 Mar 2022 00:54

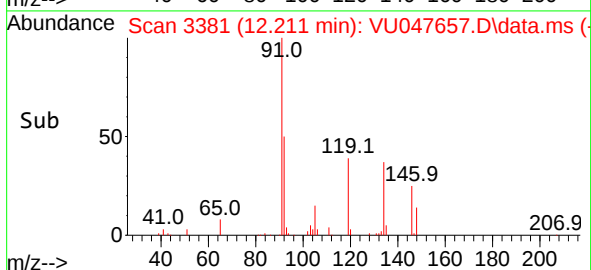
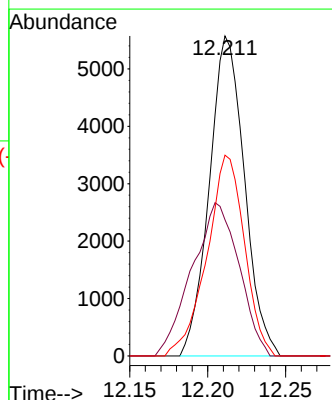
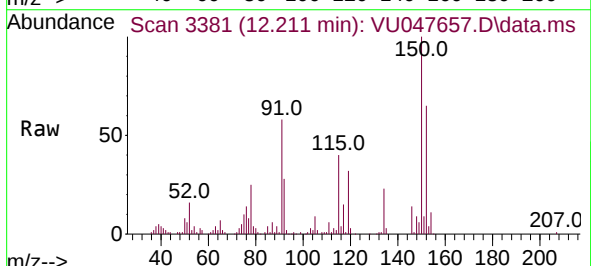
Tgt Ion:146 Resp: 8727

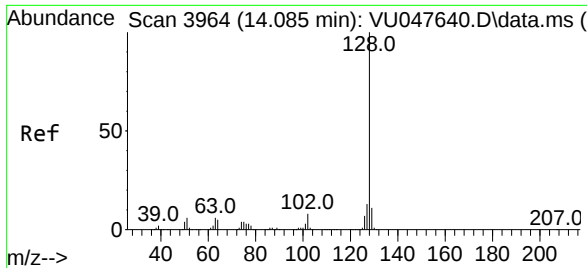
Ion Ratio Lower Upper

146 100

111 39.6 31.7 47.5

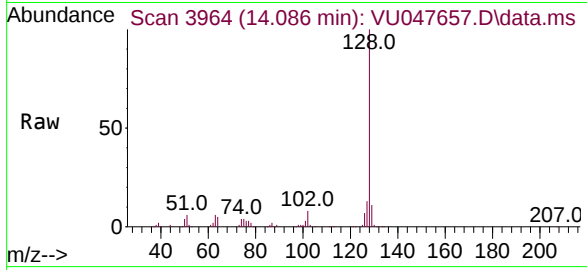
148 58.4 51.4 77.2





#71
Naphthalene
Concen: 13.083 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. 0.000 min
Lab File: VU047657.D
Acq: 25 Mar 2022 00:54

Instrument :
MSVOA_U
ClientSampleId :
EW5Y3



Tgt Ion:128 Resp: 160867
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.2
129 11.1 8.8 13.2

