

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U080422\
 Data File : VU050064.D
 Acq On : 04 Aug 2022 15:03
 Operator : SY/MD
 Sample : VU0804WBL01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK099

Quant Time: Aug 05 04:52:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR080422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Aug 05 04:52:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	95294	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	92916	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	36982	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	40589	5.118	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.400%
7) Chloroethane-d5	1.912	69	32960	5.151	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.000%
11) 1,1-Dichloroethene-d2	2.562	65	15833	5.108	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	102.200%
20) 2-Butanone-d5	4.645	46	103447	53.491	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.980%
24) Chloroform-d	5.067	84	71766	4.865	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.400%
26) 1,2-Dichloroethane-d4	5.703	65	37047	4.892	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.800%
32) Benzene-d6	5.726	84	144842	4.995	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.000%
36) 1,2-Dichloropropane-d6	6.693	67	48721	5.103	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.000%
41) Toluene-d8	7.899	98	118203	4.616	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.400%
43) trans-1,3-Dichloroprop...	8.182	79	17061	4.986	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.800%
46) 2-Hexanone-d5	8.639	63	58634	48.323	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.640%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	39919	4.761	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.200%
66) 1,2-Dichlorobenzene-d4	12.195	152	37508	5.176	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	1737	0.152	ug/L	95
5) Vinyl chloride	1.600	62	949	0.093	ug/L #	19
8) Chloroethane	1.935	64	522	0.087	ug/L #	82
9) Trichlorofluoromethane	2.134	101	1025	0.091	ug/L	94
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	971	0.156	ug/L #	29
12) 1,1-Dichloroethene	2.571	96	805	0.122	ug/L #	1
16) Methylene chloride	3.041	84	5175	0.514	ug/L	96
22) cis-1,2-Dichloroethene	4.665	96	608	0.074	ug/L #	43
25) Chloroform	5.089	83	1772	0.119	ug/L	81
29) 1,1,1-Trichloroethane	5.321	97	978	0.086	ug/L #	90
31) Carbon tetrachloride	5.523	117	839	0.090	ug/L	90
33) Benzene	5.777	78	2978	0.091	ug/L	100
35) Methylcyclohexane	6.693	83	10788	1.061	ug/L #	24
38) Bromodichloromethane	7.115	83	881	0.084	ug/L #	80
48) 2-Hexanone	8.690	43	19207	4.944	ug/L	96
49) Dibromochloromethane	8.812	129	596	0.083	ug/L	82
51) Chlorobenzene	9.449	112	2178	0.106	ug/L	92
52) Ethylbenzene	9.574	91	2564	0.080	ug/L	99
55) Styrene	10.121	104	1308	0.067	ug/L	95

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

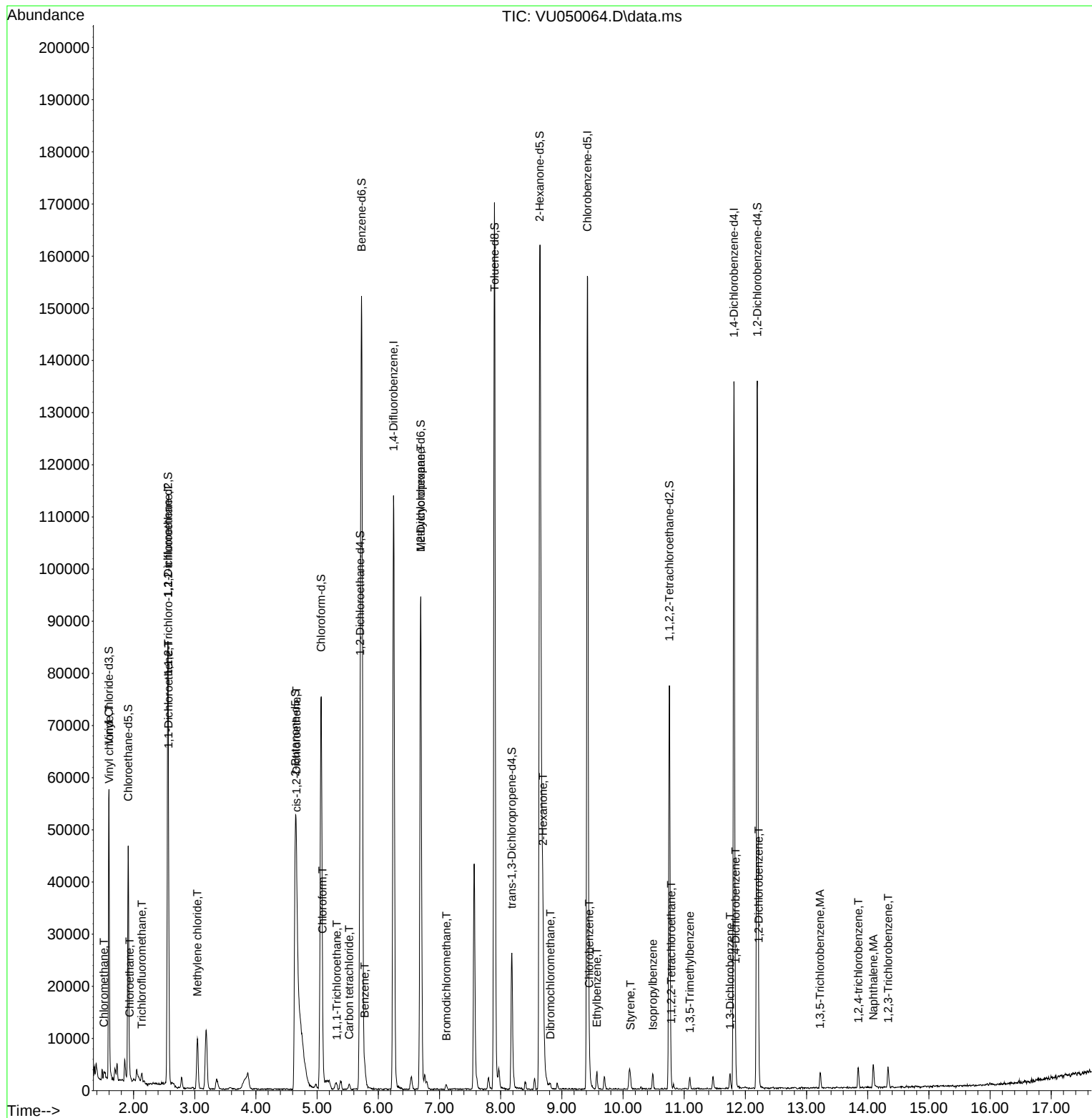
57) 1,1,2,2-Tetrachloroethane	10.787	83	823	0.097	ug/L #	91
60) Isopropylbenzene	10.491	105	2356	0.095	ug/L	95
62) 1,3,5-Trimethylbenzene	11.092	105	1595	0.229	ug/L	97
64) 1,3-Dichlorobenzene	11.751	146	1518	0.122	ug/L	97
65) 1,4-Dichlorobenzene	11.838	146	1877	0.155	ug/L	95
67) 1,2-Dichlorobenzene	12.217	146	1475	0.122	ug/L	94
69) 1,3,5-Trichlorobenzene	13.221	180	1425	0.161	ug/L #	94
70) 1,2,4-trichlorobenzene	13.844	180	1756	0.261	ug/L	92
71) Naphthalene	14.092	128	4866	0.353	ug/L #	93
72) 1,2,3-Trichlorobenzene	14.333	180	1684	0.247	ug/L #	95

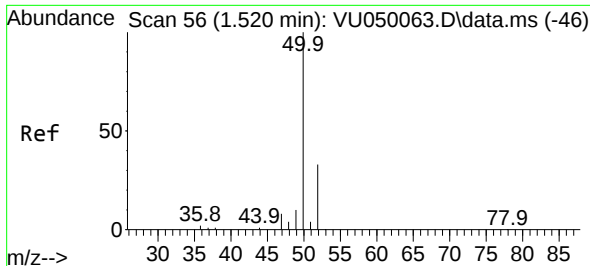
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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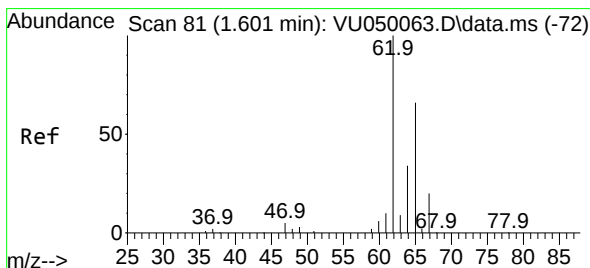
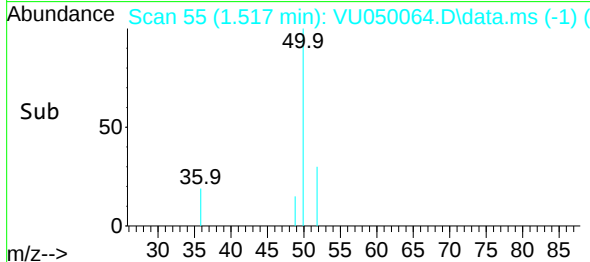
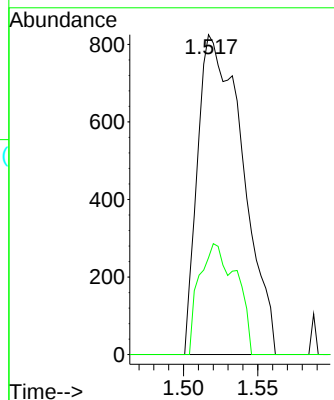
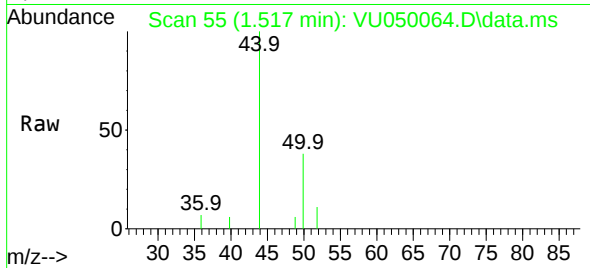




#3
Chloromethane
Concen: 0.152 ug/L
RT: 1.517 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

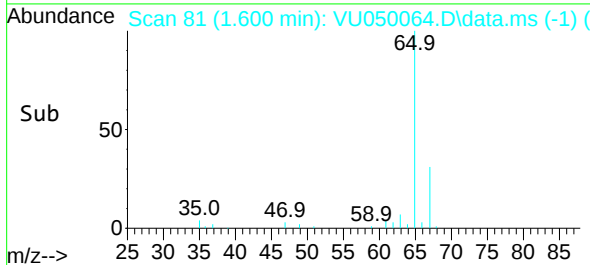
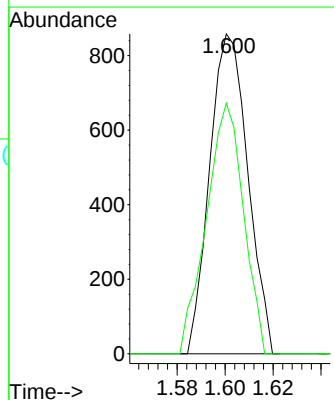
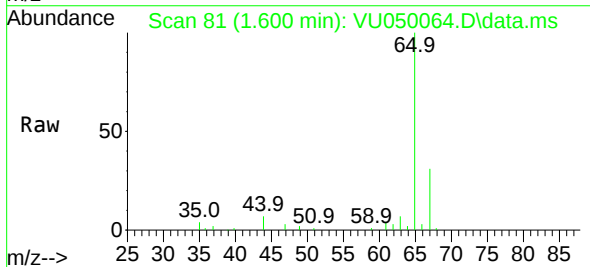
Instrument :
MSVOA_U
ClientSampleId :
VBLK099

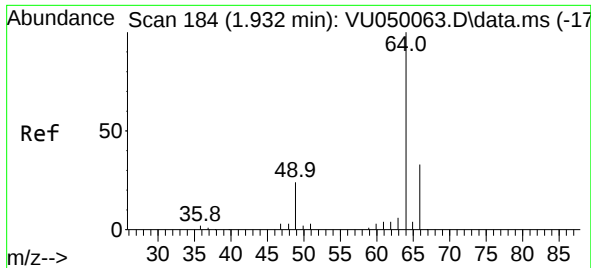
Tgt Ion: 50 Resp: 1737
Ion Ratio Lower Upper
50 100
52 30.3 23.2 43.2



#5
Vinyl chloride
Concen: 0.093 ug/L
RT: 1.600 min Scan# 81
Delta R.T. -0.000 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

Tgt Ion: 62 Resp: 949
Ion Ratio Lower Upper
62 100
64 78.3 22.8 42.4#





#8

Chloroethane

Concen: 0.087 ug/L

RT: 1.935 min Scan# 185

Delta R.T. 0.003 min

Lab File: VU050064.D

Acq: 04 Aug 2022 15:03

Instrument :

MSVOA_U

ClientSampleId :

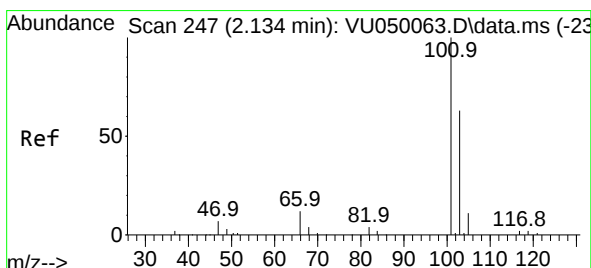
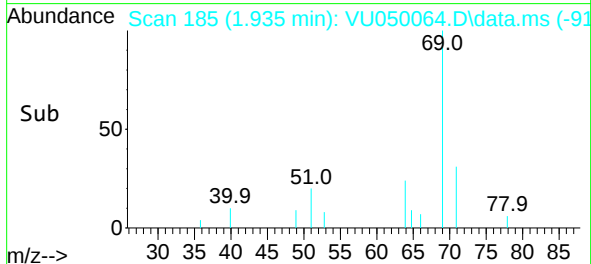
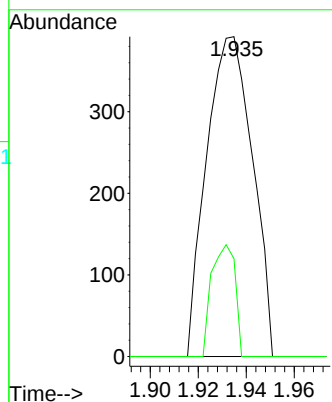
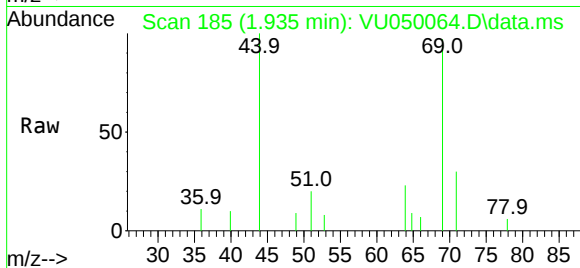
VBLK099

Tgt Ion: 64 Resp: 522

Ion Ratio Lower Upper

64 100

66 22.2 22.8 42.4#



#9

Trichlorofluoromethane

Concen: 0.091 ug/L

RT: 2.134 min Scan# 247

Delta R.T. -0.000 min

Lab File: VU050064.D

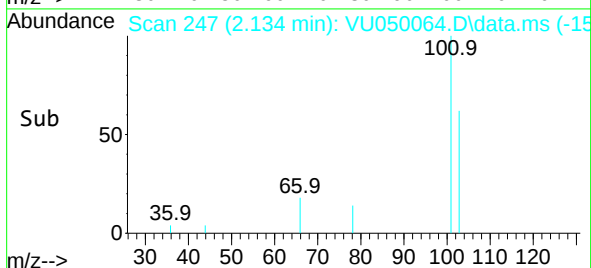
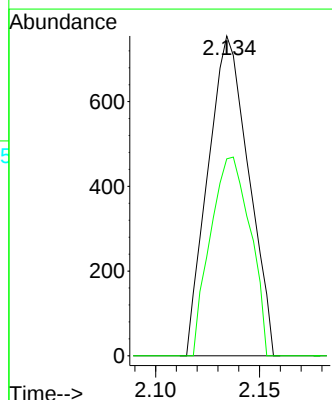
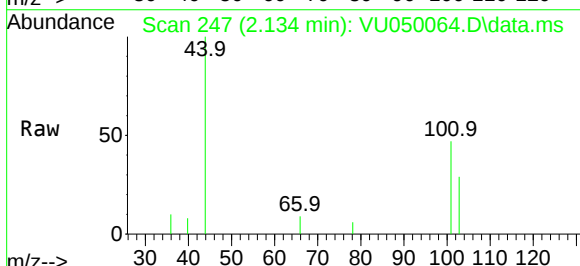
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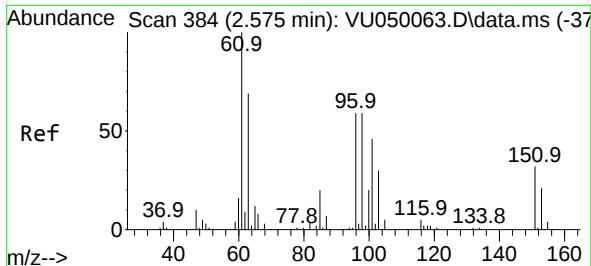
Tgt Ion: 101 Resp: 1025

Ion Ratio Lower Upper

101 100

103 60.8 52.6 78.8

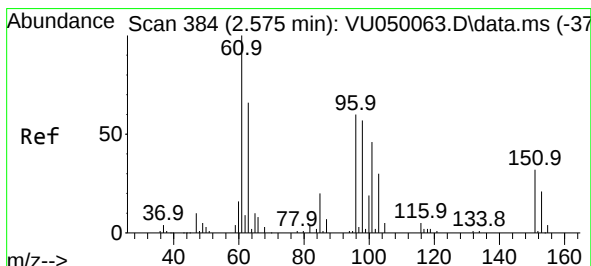
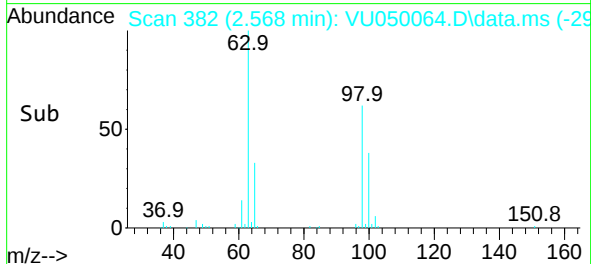
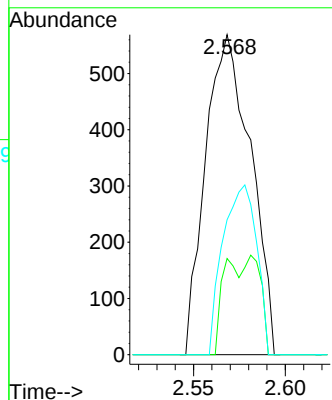
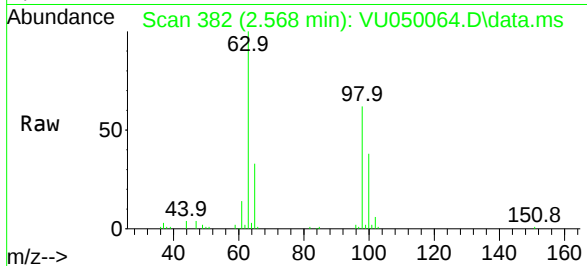




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.156 ug/L
RT: 2.568 min Scan# 382
Delta R.T. -0.007 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

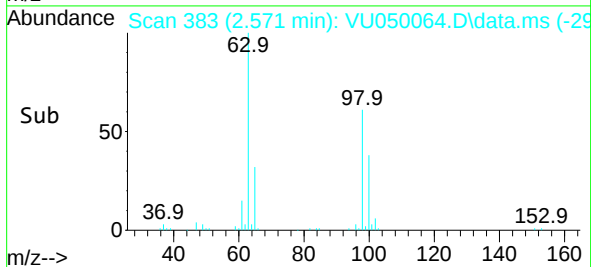
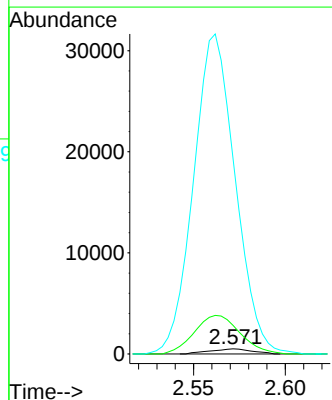
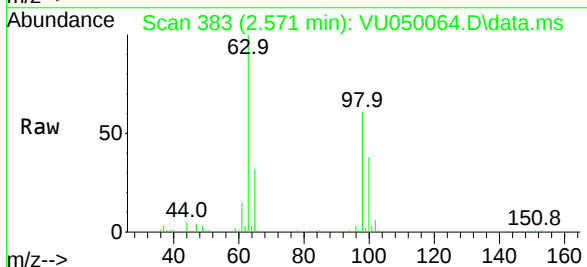
Instrument :
MSVOA_U
ClientSampleId :
VBLK099

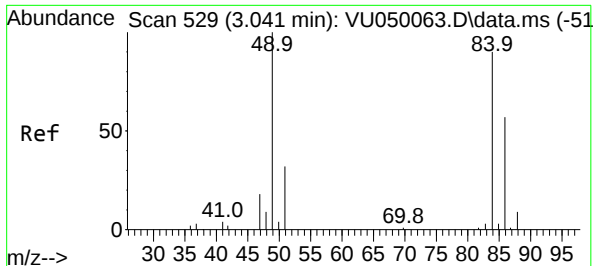
Tgt Ion:101 Resp: 971
Ion Ratio Lower Upper
101 100
85 11.8 35.6 53.4#
151 0.0 55.2 82.8#



#12
1,1-Dichloroethene
Concen: 0.122 ug/L
RT: 2.571 min Scan# 383
Delta R.T. -0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

Tgt Ion: 96 Resp: 805
Ion Ratio Lower Upper
96 100
61 553.1 122.7 227.9#
63 3779.7 85.1 158.1#

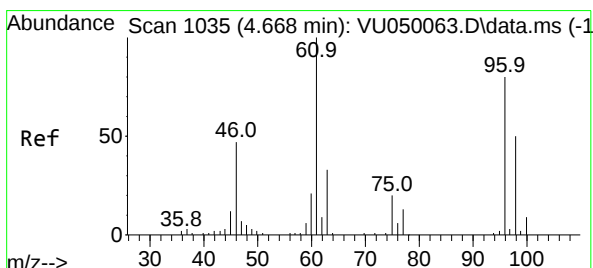
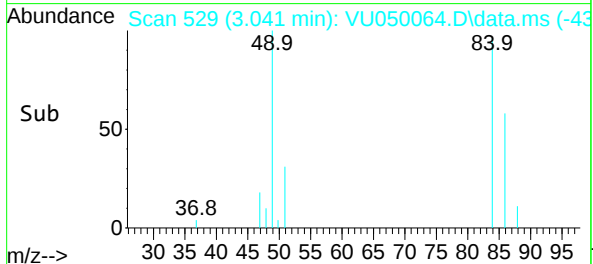
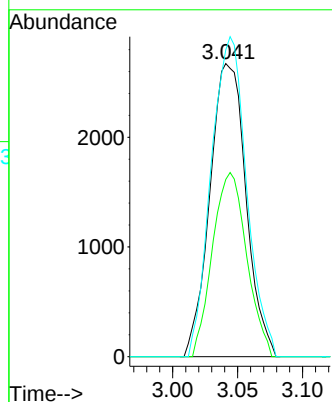
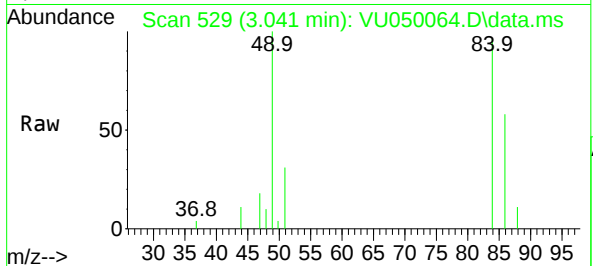




#16
Methylene chloride
Concen: 0.514 ug/L
RT: 3.041 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

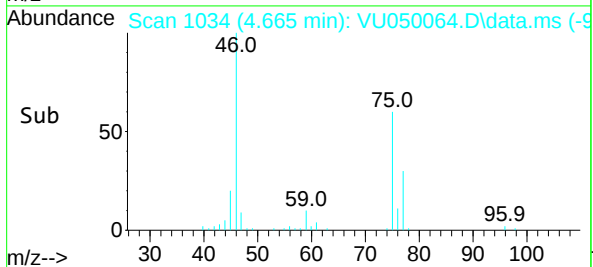
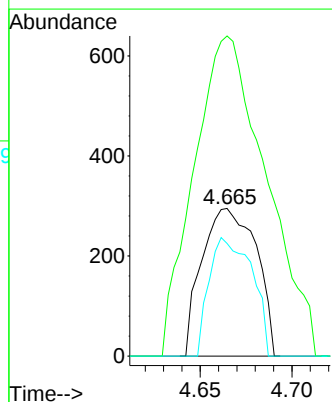
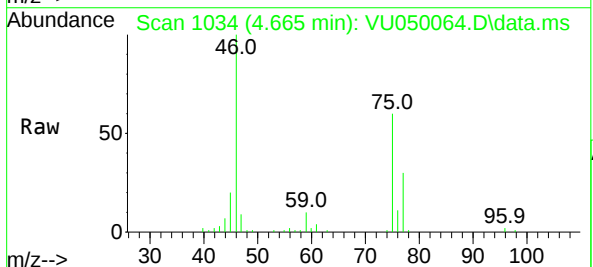
Instrument :
MSVOA_U
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VBLK099

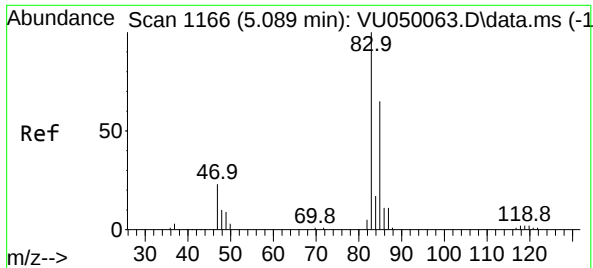
Tgt Ion: 84 Resp: 5175
Ion Ratio Lower Upper
84 100
86 60.5 45.9 85.3
49 108.5 77.6 144.0



#22
cis-1,2-Dichloroethene
Concen: 0.074 ug/L
RT: 4.665 min Scan# 1034
Delta R.T. -0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

Tgt Ion: 96 Resp: 608
Ion Ratio Lower Upper
96 100
61 216.9 89.0 165.4#
98 76.3 45.2 84.0





#25

Chloroform

Concen: 0.119 ug/L

RT: 5.089 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VU050064.D

Acq: 04 Aug 2022 15:03

Instrument :

MSVOA_U

ClientSampleId :

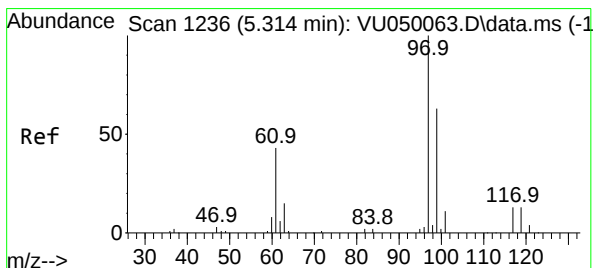
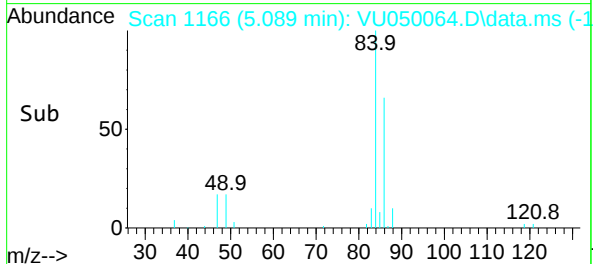
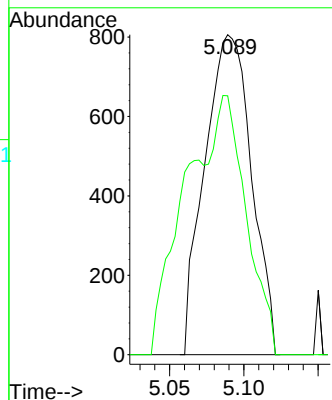
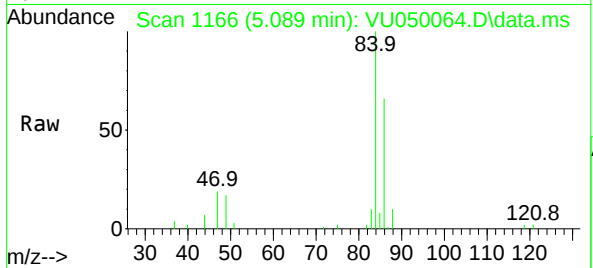
VBLK099

Tgt Ion: 83 Resp: 1772

Ion Ratio Lower Upper

83 100

85 80.9 46.1 85.5



#29

1,1,1-Trichloroethane

Concen: 0.086 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.006 min

Lab File: VU050064.D

Acq: 04 Aug 2022 15:03

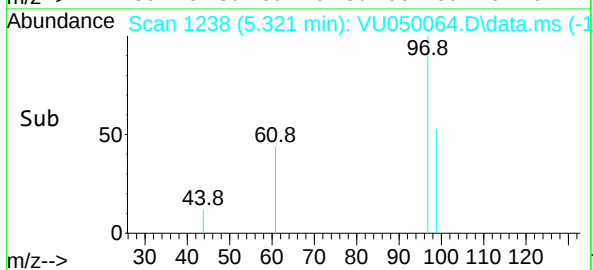
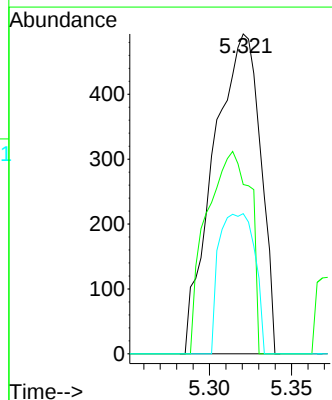
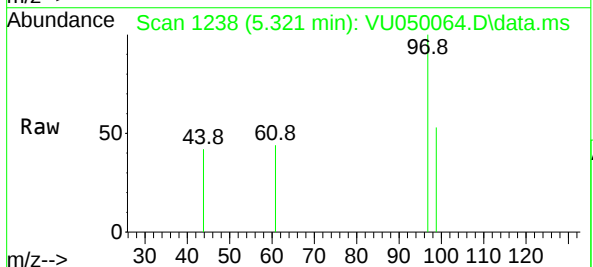
Tgt Ion: 97 Resp: 978

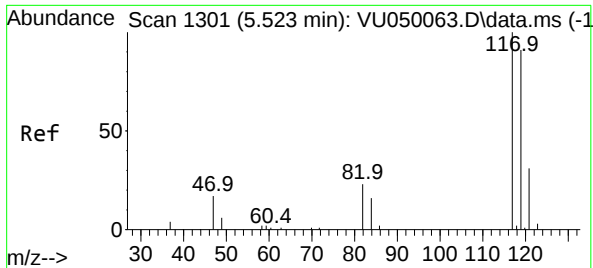
Ion Ratio Lower Upper

97 100

99 59.1 51.5 77.3

61 33.3 34.2 51.4#

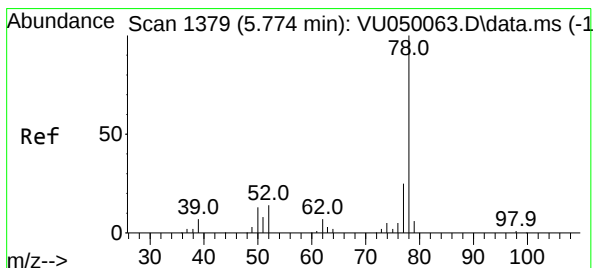
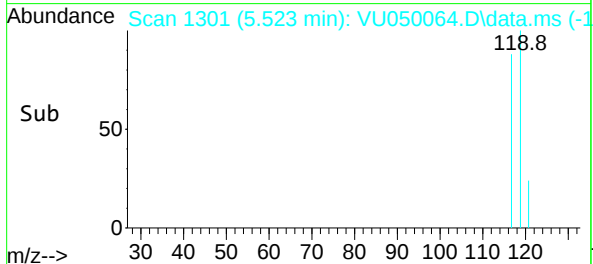
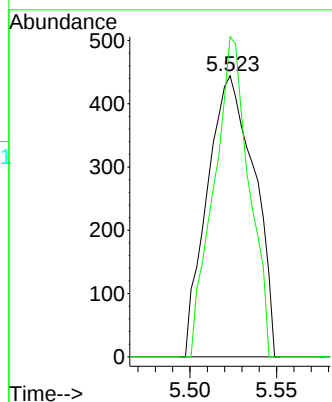
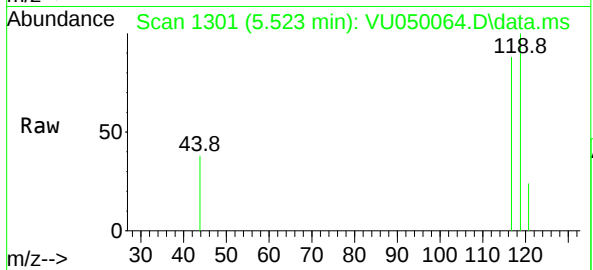




#31
Carbon tetrachloride
Concen: 0.090 ug/L
RT: 5.523 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

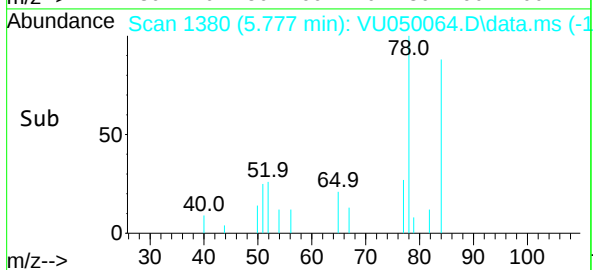
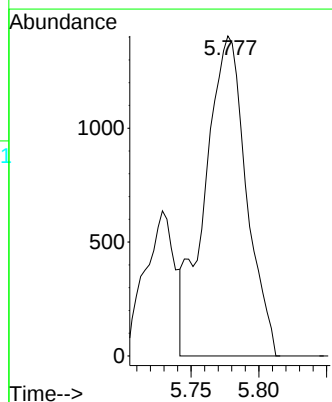
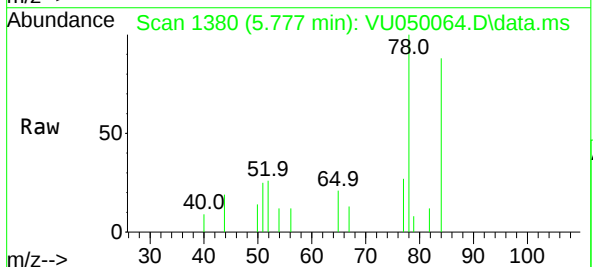
Instrument :
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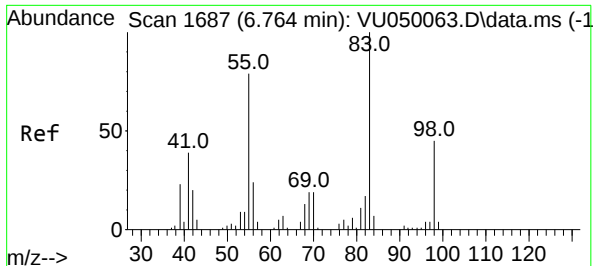
Tgt Ion:117 Resp: 839
Ion Ratio Lower Upper
117 100
119 85.1 76.0 114.0



#33
Benzene
Concen: 0.091 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. 0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

Tgt Ion: 78 Resp: 2978





#35

Methylcyclohexane

Concen: 1.061 ug/L

RT: 6.693 min Scan# 1

Delta R.T. -0.071 min

Lab File: VU050064.D

Acq: 04 Aug 2022 15:03

Instrument :

MSVOA_U

ClientSampleId :

VBLK099

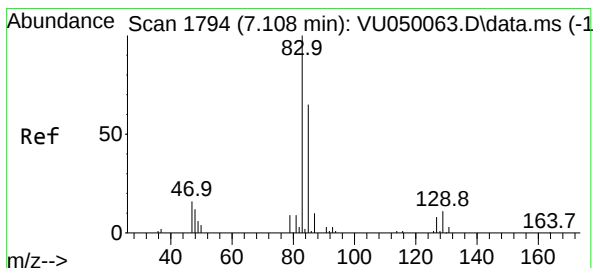
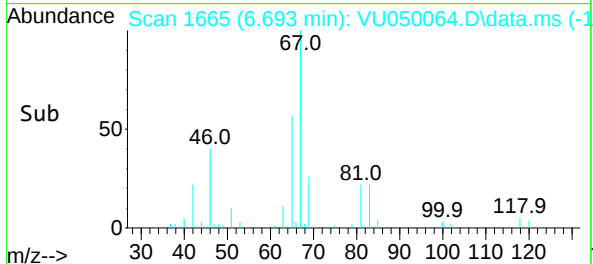
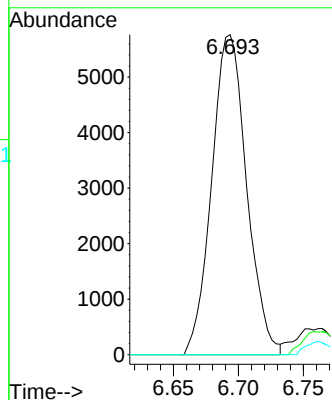
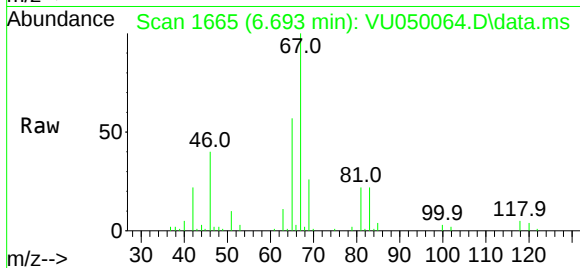
Tgt Ion: 83 Resp: 10788

Ion Ratio Lower Upper

83 100

55 6.4 62.7 94.1#

98 2.5 36.2 54.2#



#38

Bromodichloromethane

Concen: 0.084 ug/L

RT: 7.115 min Scan# 1796

Delta R.T. 0.006 min

Lab File: VU050064.D

Acq: 04 Aug 2022 15:03

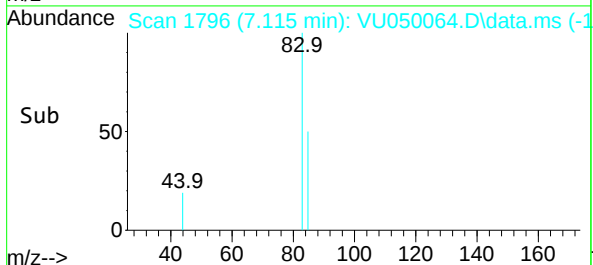
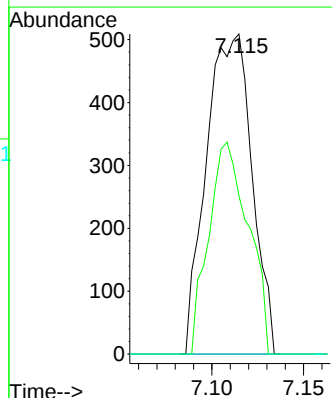
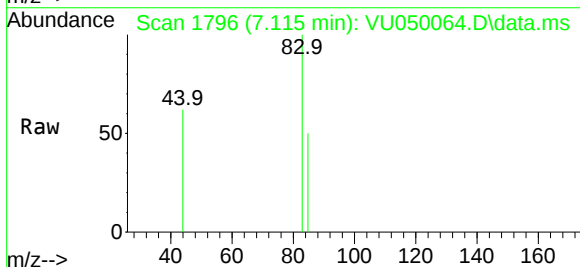
Tgt Ion: 83 Resp: 881

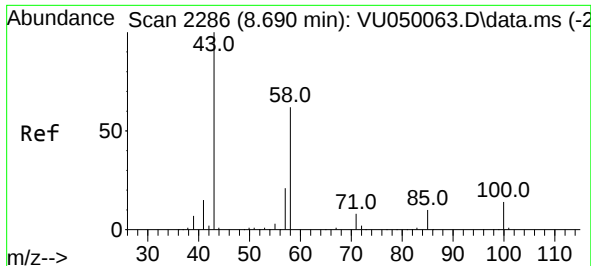
Ion Ratio Lower Upper

83 100

85 49.5 45.1 83.7

127 0.0 6.8 10.2#

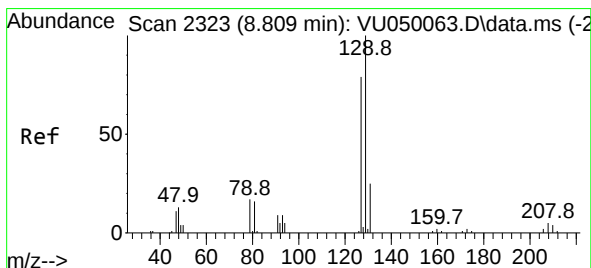
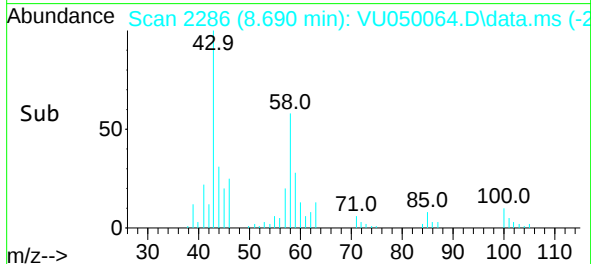
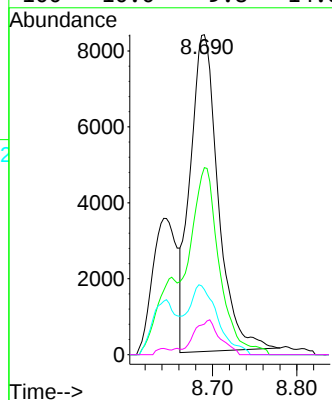
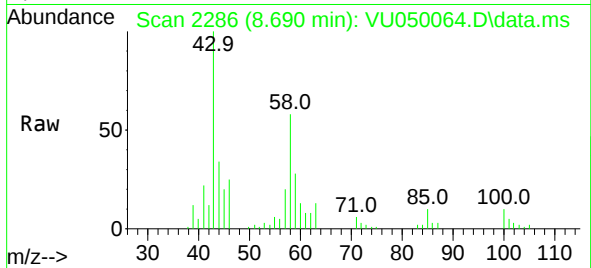




#48
2-Hexanone
Concen: 4.944 ug/L
RT: 8.690 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

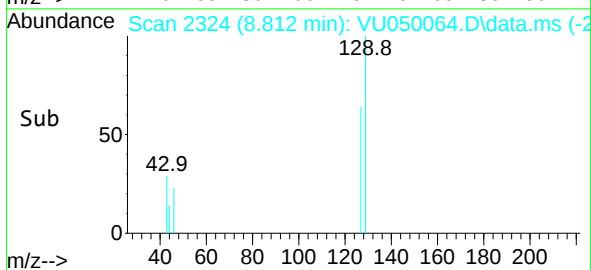
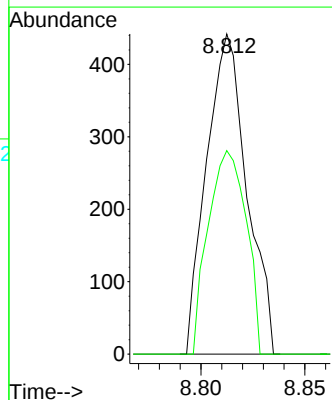
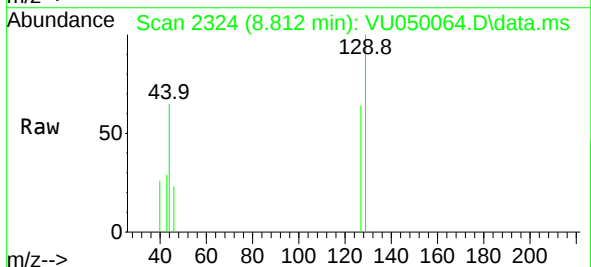
Instrument :
MSVOA_U
ClientSampleId :
VBLK099

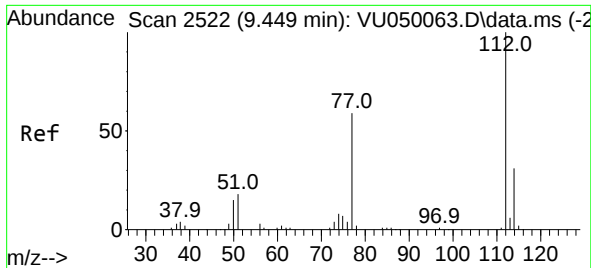
Tgt Ion: 43	Resp:	19207	
Ion	Ratio	Lower	Upper
43	100		
58	61.0	50.6	76.0
57	22.6	16.0	24.0
100	10.0	9.8	14.8



#49
Dibromochloromethane
Concen: 0.083 ug/L
RT: 8.812 min Scan# 2324
Delta R.T. 0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

Tgt Ion:129	Resp:	596	
Ion	Ratio	Lower	Upper
129	100		
127	63.6	55.3	102.7

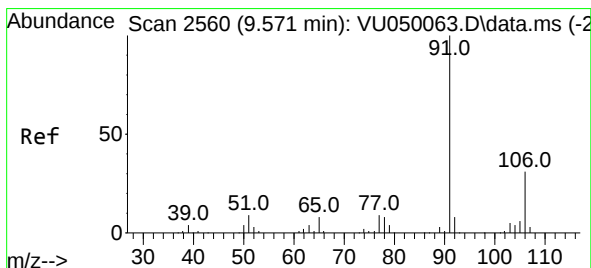
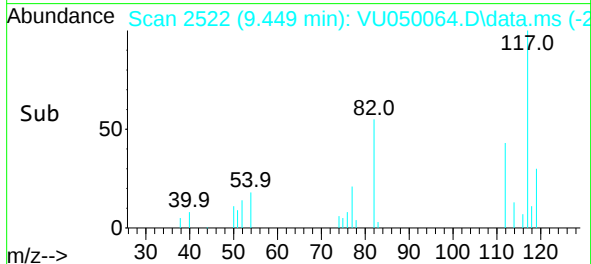
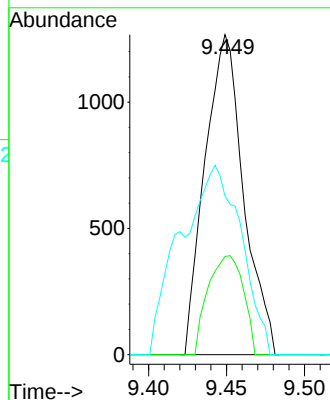
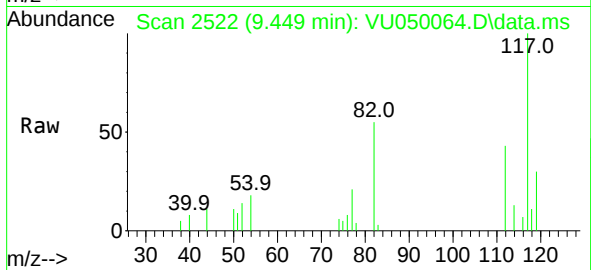




#51
Chlorobenzene
Concen: 0.106 ug/L
RT: 9.449 min Scan# 2178
Delta R.T. -0.000 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

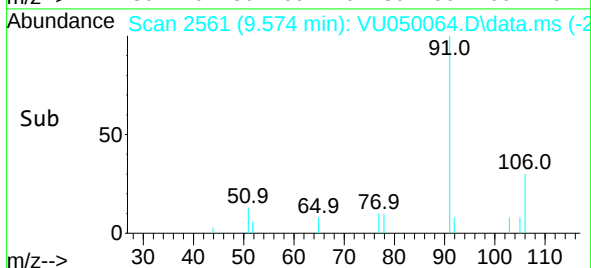
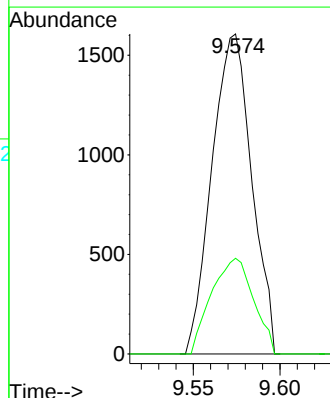
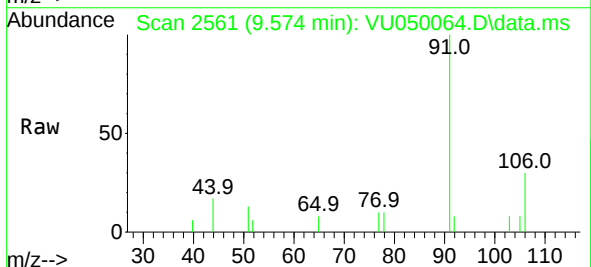
Instrument :
MSVOA_U
ClientSampleId :
VBLK099

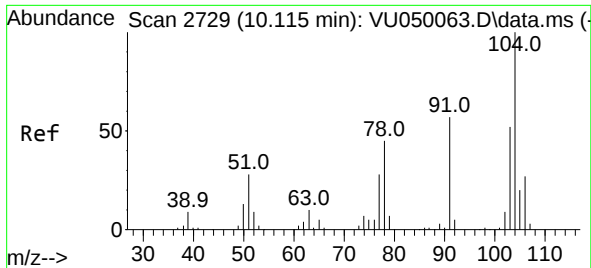
Tgt Ion:	112	Resp:	2178
Ion Ratio	Lower	Upper	
112	100		
114	30.7	22.1	41.1
77	49.6	46.3	69.5



#52
Ethylbenzene
Concen: 0.080 ug/L
RT: 9.574 min Scan# 2561
Delta R.T. 0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

Tgt Ion:	91	Resp:	2564
Ion Ratio	Lower	Upper	
91	100		
106	29.9	21.3	39.5

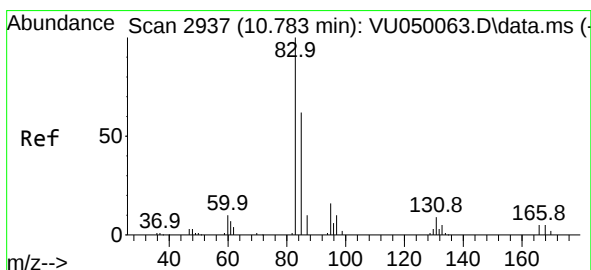
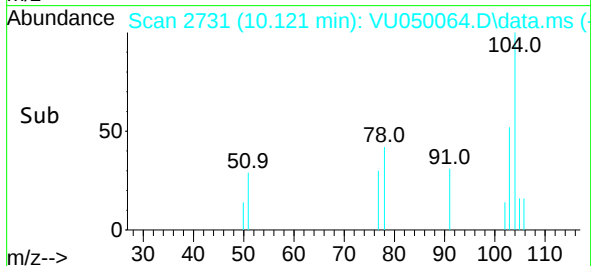
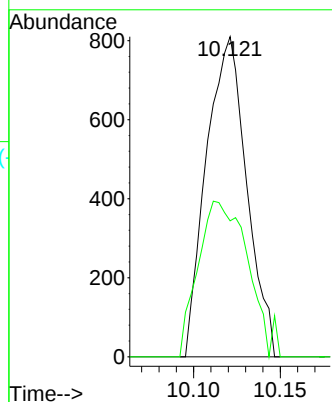
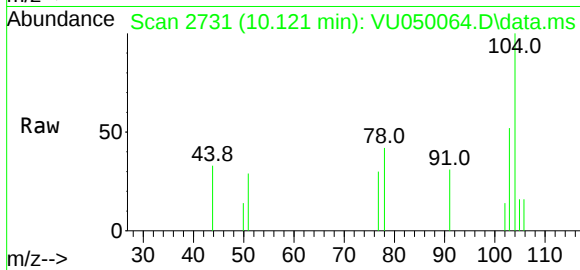




#55
Styrene
Concen: 0.067 ug/L
RT: 10.121 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

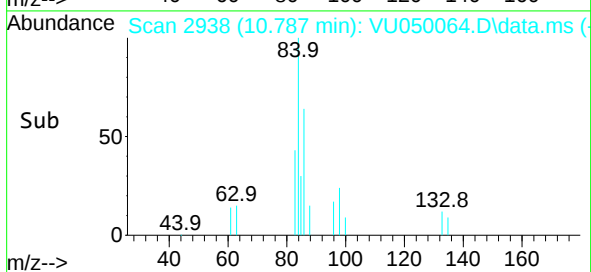
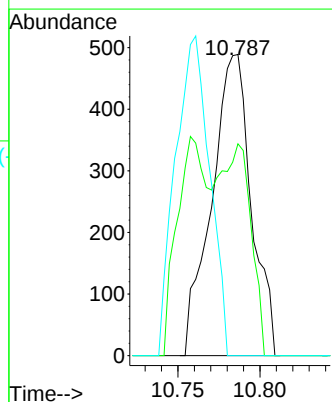
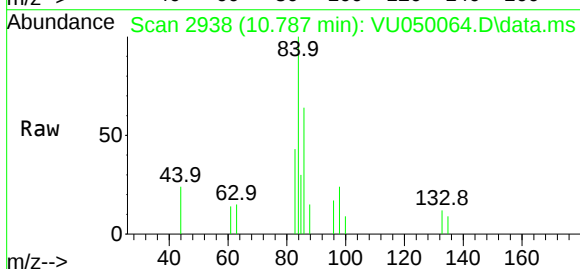
Instrument :
MSVOA_U
ClientSampleId :
VBLK099

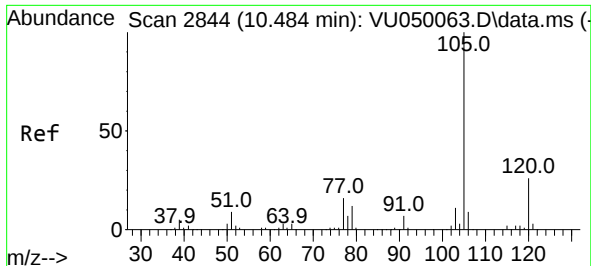
Tgt Ion:104 Resp: 1308
Ion Ratio Lower Upper
104 100
78 42.5 31.9 59.3



#57
1,1,2,2-Tetrachloroethane
Concen: 0.097 ug/L
RT: 10.787 min Scan# 2938
Delta R.T. 0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

Tgt Ion: 83 Resp: 823
Ion Ratio Lower Upper
83 100
85 70.3 45.2 84.0
131 0.0 6.6 9.8#

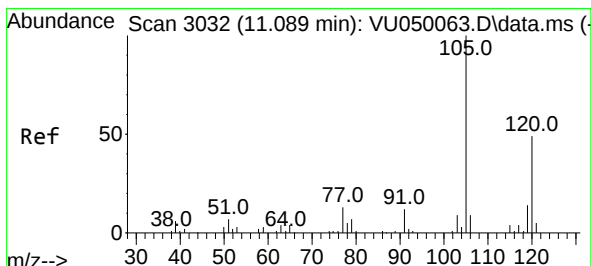
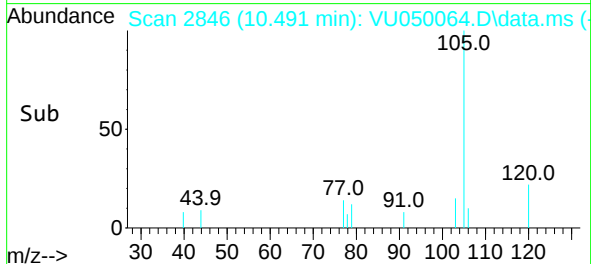
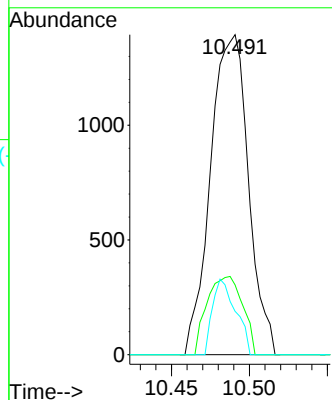
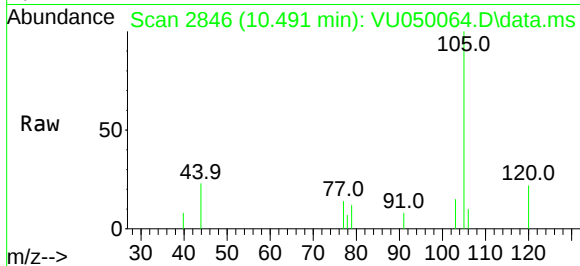




#60
Isopropylbenzene
Concen: 0.095 ug/L
RT: 10.491 min Scan# 2846
Delta R.T. 0.006 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

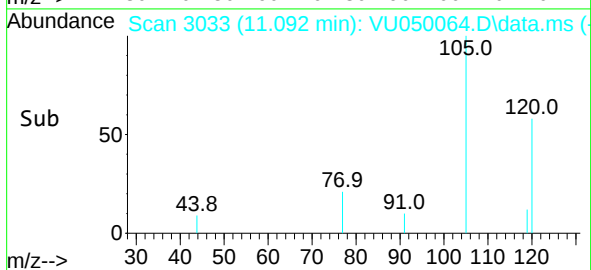
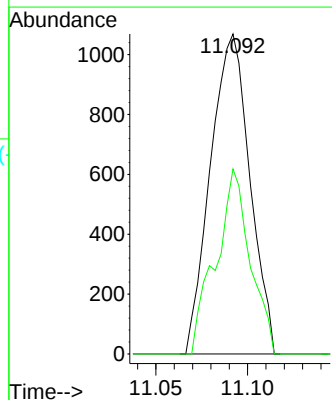
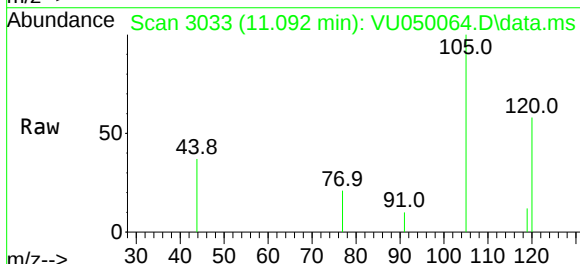
Instrument :
MSVOA_U
ClientSampleId :
VBLK099

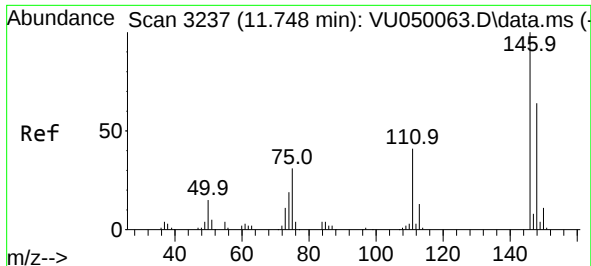
Tgt Ion:105 Resp: 2356
Ion Ratio Lower Upper
105 100
120 22.8 20.8 31.2
77 14.4 12.6 19.0



#62
1,3,5-Trimethylbenzene
Concen: 0.229 ug/L
RT: 11.092 min Scan# 3033
Delta R.T. 0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

Tgt Ion:105 Resp: 1595
Ion Ratio Lower Upper
105 100
120 50.6 38.9 58.3





#64

1,3-Dichlorobenzene

Concen: 0.122 ug/L

RT: 11.751 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU050064.D

Acq: 04 Aug 2022 15:03

Instrument :

MSVOA_U

ClientSampleId :

VBLK099

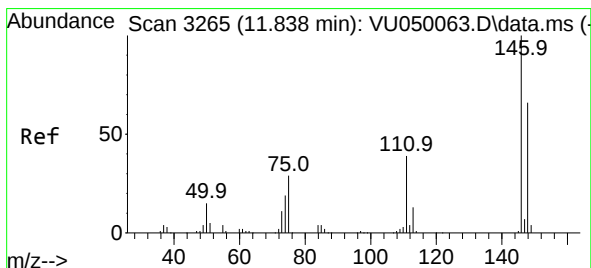
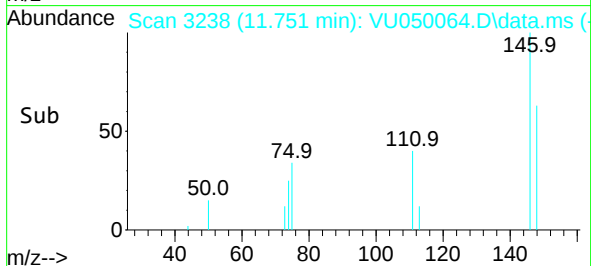
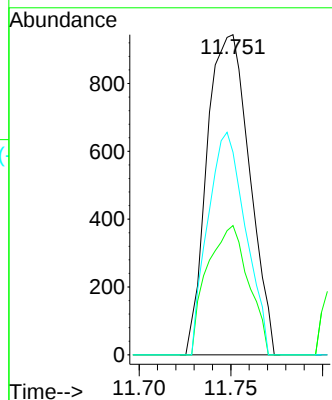
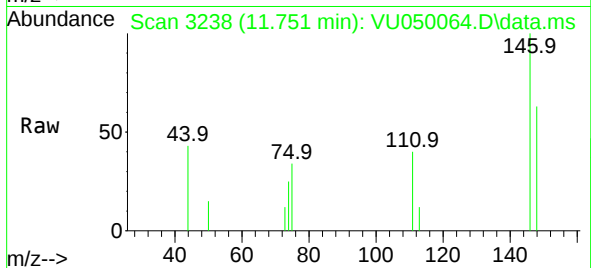
Tgt Ion:146 Resp: 1518

Ion Ratio Lower Upper

146 100

111 40.4 29.9 55.5

148 63.2 45.8 85.2



#65

1,4-Dichlorobenzene

Concen: 0.155 ug/L

RT: 11.838 min Scan# 3265

Delta R.T. -0.000 min

Lab File: VU050064.D

Acq: 04 Aug 2022 15:03

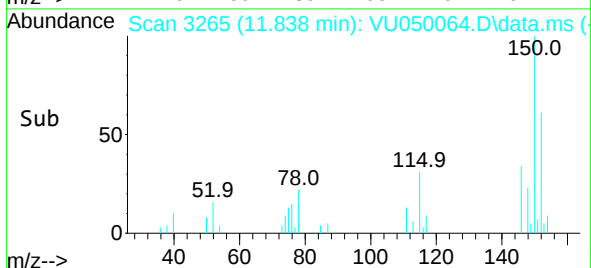
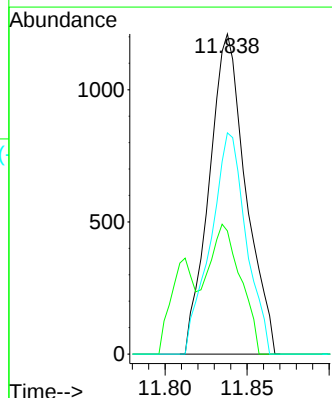
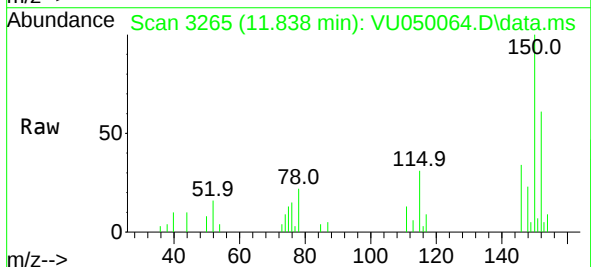
Tgt Ion:146 Resp: 1877

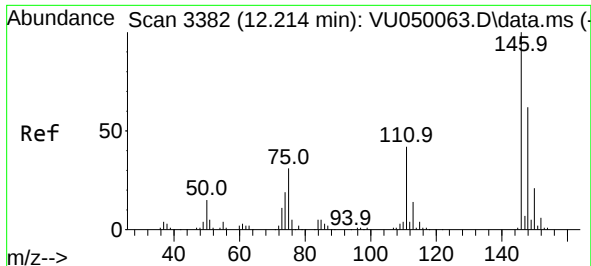
Ion Ratio Lower Upper

146 100

111 38.5 28.1 52.1

148 69.1 44.6 82.8





#67

1,2-Dichlorobenzene

Concen: 0.122 ug/L

RT: 12.217 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU050064.D

Acq: 04 Aug 2022 15:03

Instrument :

MSVOA_U

ClientSampleId :

VBLK099

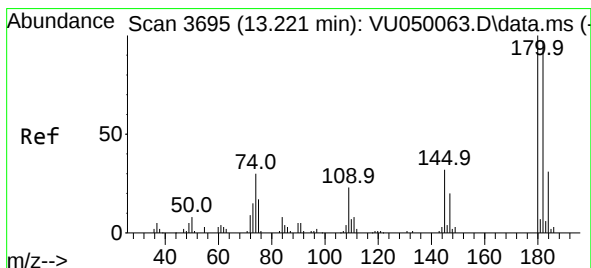
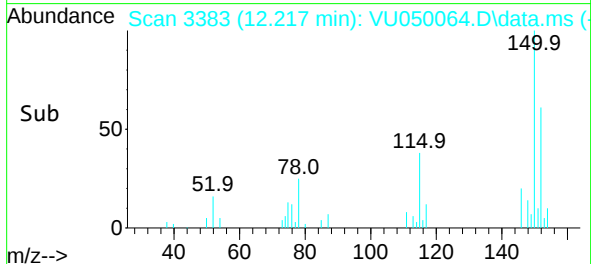
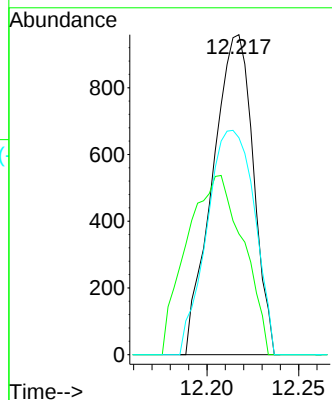
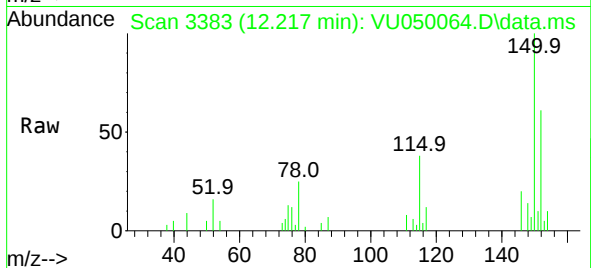
Tgt Ion:146 Resp: 1475

Ion Ratio Lower Upper

146 100

111 37.7 32.9 49.3

148 67.8 50.4 75.6



#69

1,3,5-Trichlorobenzene

Concen: 0.161 ug/L

RT: 13.221 min Scan# 3695

Delta R.T. -0.000 min

Lab File: VU050064.D

Acq: 04 Aug 2022 15:03

Tgt Ion:180 Resp: 1425

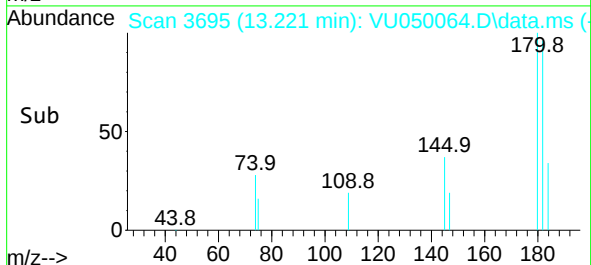
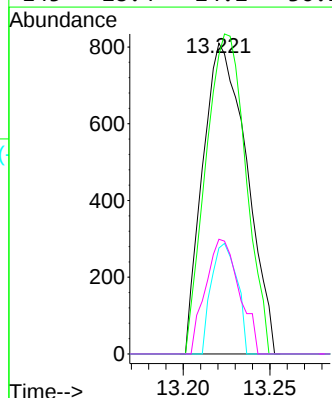
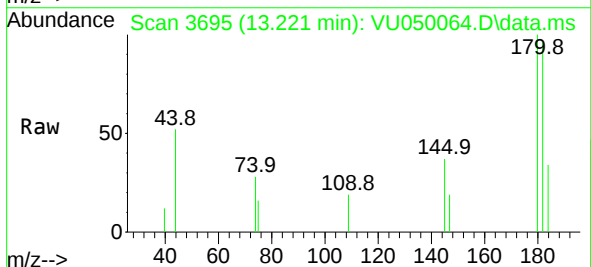
Ion Ratio Lower Upper

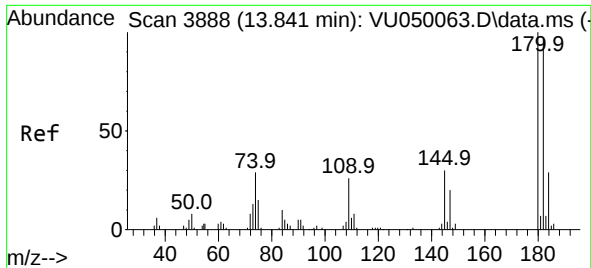
180 100

182 93.9 77.3 115.9

184 20.8 24.1 36.1#

145 28.4 24.2 36.2

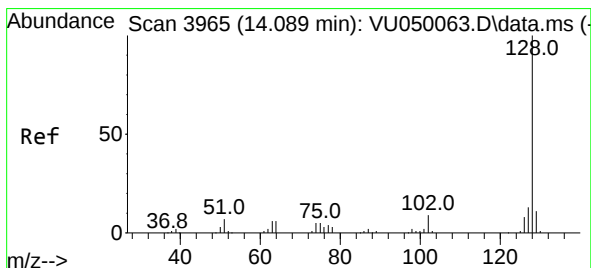
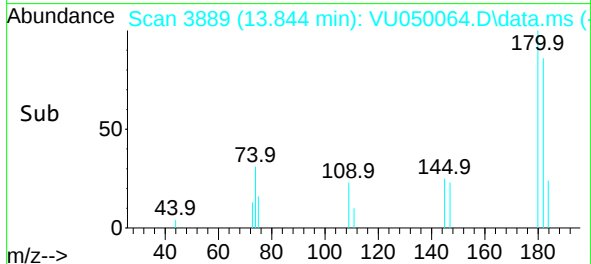
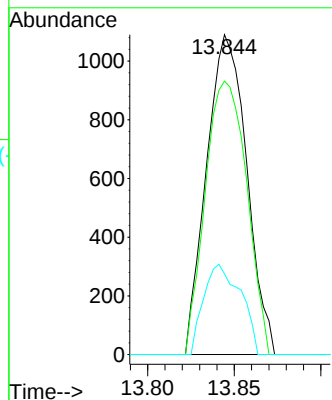
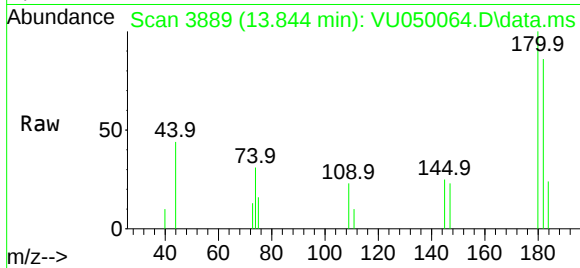




#70
1,2,4-trichlorobenzene
Concen: 0.261 ug/L
RT: 13.844 min Scan# 3888
Delta R.T. 0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

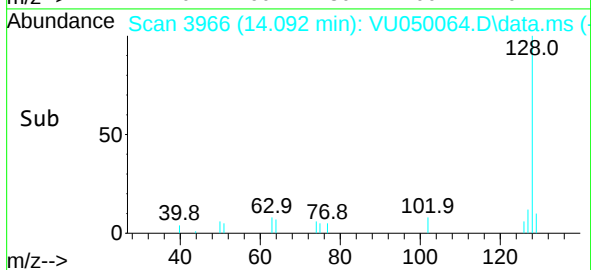
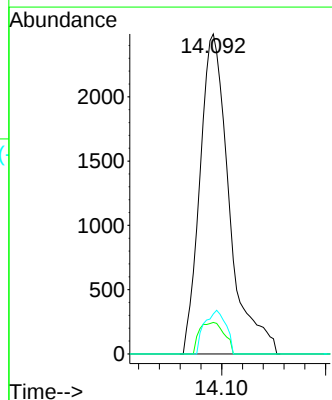
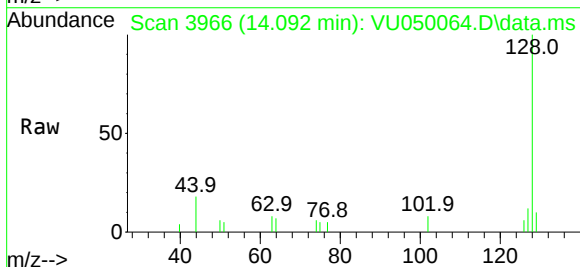
Instrument :
MSVOA_U
ClientSampleId :
VBLK099

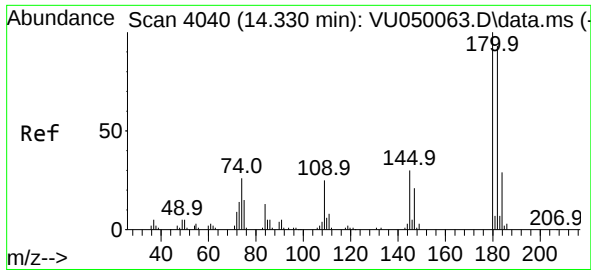
Tgt Ion:180 Resp: 1756
Ion Ratio Lower Upper
180 100
182 88.2 76.9 115.3
145 26.0 24.2 36.4



#71
Naphthalene
Concen: 0.353 ug/L
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU050064.D
Acq: 04 Aug 2022 15:03

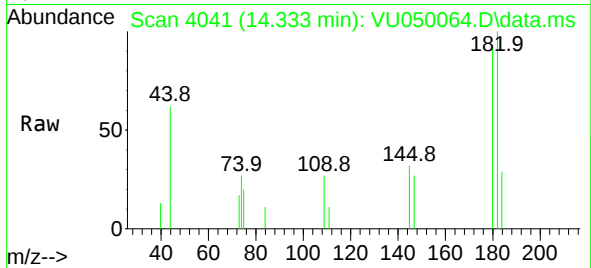
Tgt Ion:128 Resp: 4866
Ion Ratio Lower Upper
128 100
129 8.4 8.6 12.8#
127 10.0 10.6 16.0#





#72
 1,2,3-Trichlorobenzene
 Concen: 0.247 ug/L
 RT: 14.333 min Scan# 40
 Delta R.T. 0.003 min
 Lab File: VU050064.D
 Acq: 04 Aug 2022 15:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK099



Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	77.5	116.3
145	24.6	25.8	38.6#

