

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU090523\
 Data File : VU055111.D
 Acq On : 05 Sep 2023 22:36
 Operator : MD/SY
 Sample : 04230-19
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 06 05:24:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 06 05:03:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	187024	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	189940	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.814	152	98259	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	37759	4.308	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	86.200%	
7) Chloroethane-d5	1.907	69	43672	4.304	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	86.000%	
11) 1,1-Dichloroethene-d2	2.560	65	22353	4.476	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	89.600%	
20) 2-Butanone-d5	4.627	46	136516	53.669	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	=	107.340%	
24) Chloroform-d	5.058	84	113013	4.859	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	97.200%	
26) 1,2-Dichloroethane-d4	5.701	65	57776	4.965	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.200%	
32) Benzene-d6	5.724	84	214547	4.576	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	91.600%	
36) 1,2-Dichloropropane-d6	6.688	67	71479	4.793	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	95.800%	
41) Toluene-d8	7.897	98	192742	4.463	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	89.200%	
43) trans-1,3-Dichloroprop...	8.184	79	18359	4.471	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	89.400%	
46) 2-Hexanone-d5	8.634	63	83406	50.027	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	100.060%	
56) 1,1,2,2-Tetrachloroeth...	10.756	84	51510	4.912	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	98.200%	
66) 1,2-Dichlorobenzene-d4	12.193	152	69018	4.812	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	96.200%	
Target Compounds						
2) Dichlorodifluoromethane	1.380	85	2259	0.208	ug/L	97
5) Vinyl chloride	1.599	62	2084	0.179	ug/L #	61
10) 1,1,2-Trichloro-1,2,2-...	2.573	101	2049	0.207	ug/L #	71
12) 1,1-Dichloroethene	2.573	96	95732	11.072	ug/L	83
17) Methyl tert-butyl Ether	3.370	73	7217	0.318	ug/L	98
18) trans-1,2-Dichloroethene	3.357	96	3749	0.427	ug/L #	71
19) 1,1-Dichloroethane	3.865	63	38617	2.037	ug/L	97
22) cis-1,2-Dichloroethene	4.663	96	1261164	117.444	ug/L	96
25) Chloroform	5.084	83	54020	2.736	ug/L	94
27) 1,2-Dichloroethane	5.791	62	13790	1.144	ug/L #	92
29) 1,1,1-Trichloroethane	5.316	97	4683	0.285	ug/L	92
31) Carbon tetrachloride	5.518	117	4687	0.343	ug/L	97
34) Trichloroethene	6.541	95	810919	72.179	ug/L	98
35) Methylcyclohexane	6.688	83	16582	1.052	ug/L #	19
37) 1,2-Dichloropropane	6.688	63	7988	0.726	ug/L #	88
42) Toluene	7.971	91	7519	0.174	ug/L	84
47) Tetrachloroethene	8.550	164	4335	0.558	ug/L	93
48) 2-Hexanone	8.682	43	19726	4.011	ug/L #	85
49) Dibromochloromethane	8.553	129	4206	0.520	ug/L #	9

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QLast Update : Wed Sep 06 05:03:37 2023
Response via : Initial Calibration

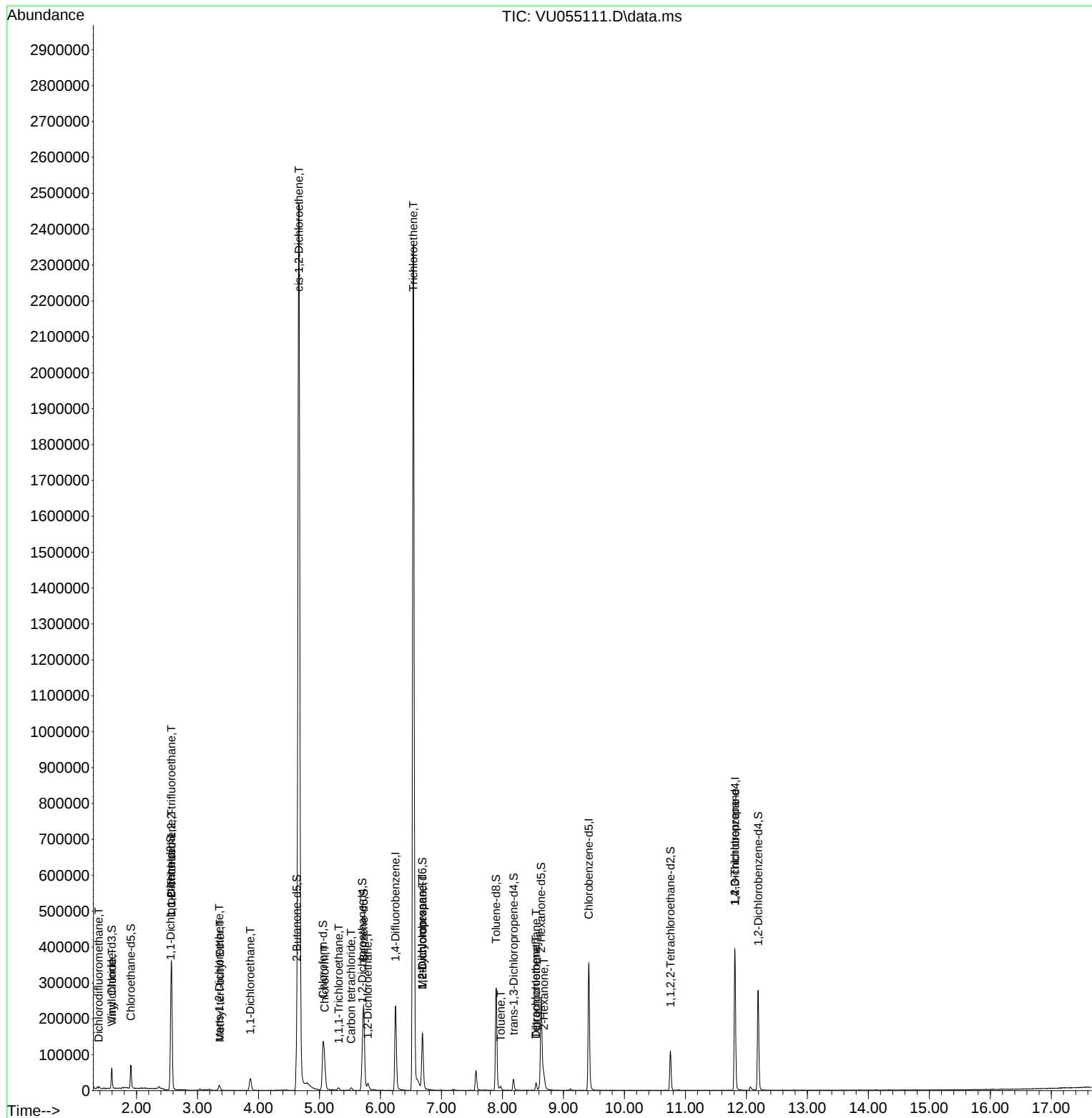
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.810	75	14019	2.150	ug/L #	71

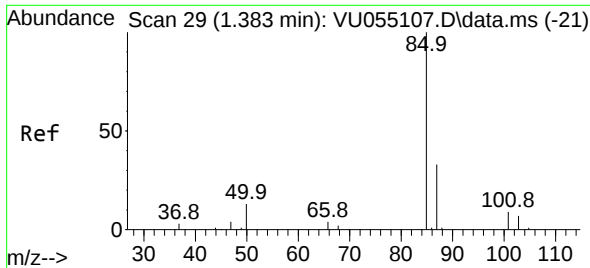
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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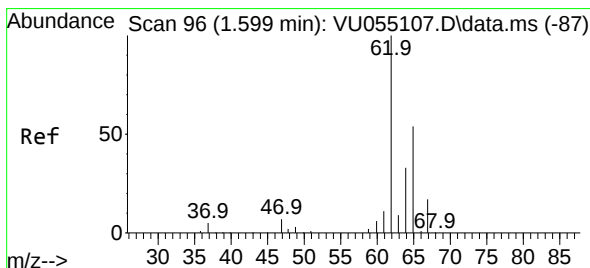
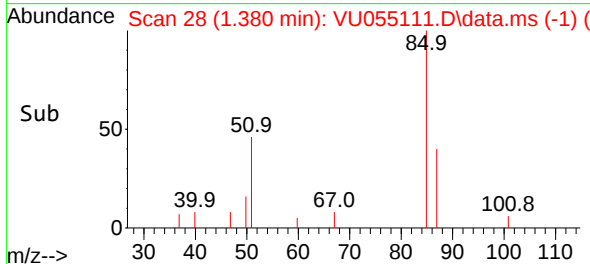
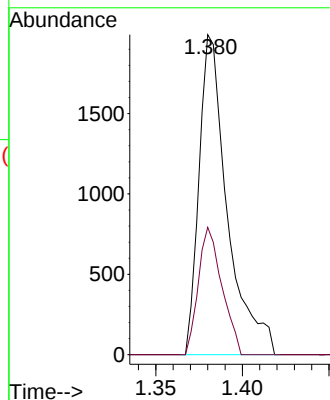
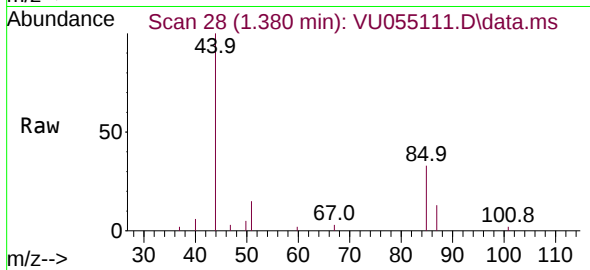




#2
Dichlorodifluoromethane
Concen: 0.208 ug/L
RT: 1.380 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU055111.D
Acq: 05 Sep 2023 22:36

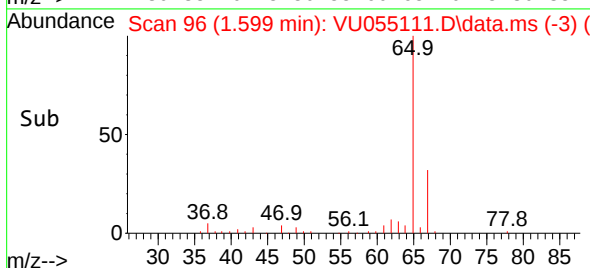
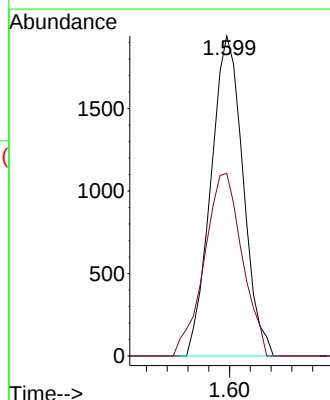
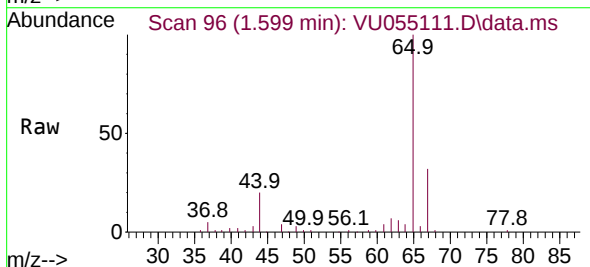
Instrument :
MSVOA_U
ClientSampleId :

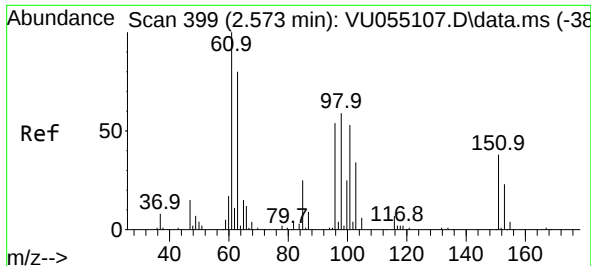
Tgt Ion: 85 Resp: 2259
Ion Ratio Lower Upper
85 100
87 33.1 25.1 37.7



#5
Vinyl chloride
Concen: 0.179 ug/L
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU055111.D
Acq: 05 Sep 2023 22:36

Tgt Ion: 62 Resp: 2084
Ion Ratio Lower Upper
62 100
64 57.1 24.2 45.0#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.207 ug/L

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

Instrument :

MSVOA_U

ClientSampleId :

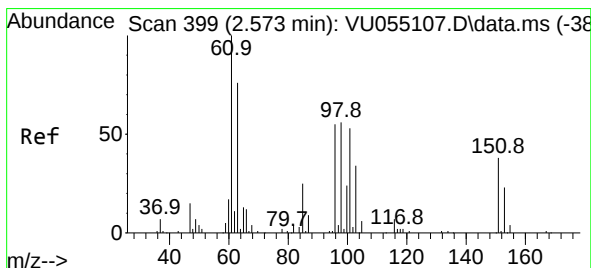
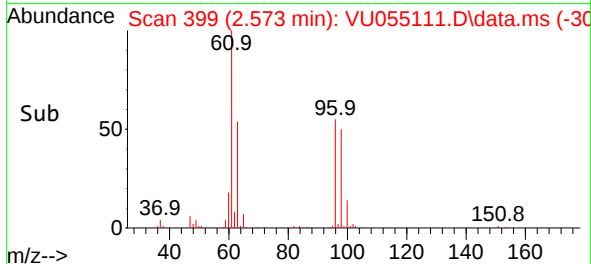
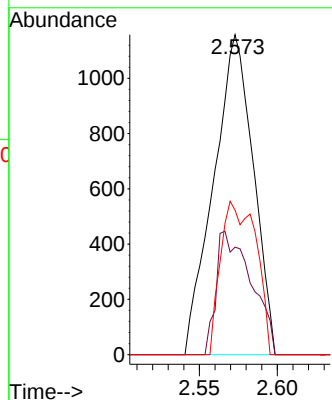
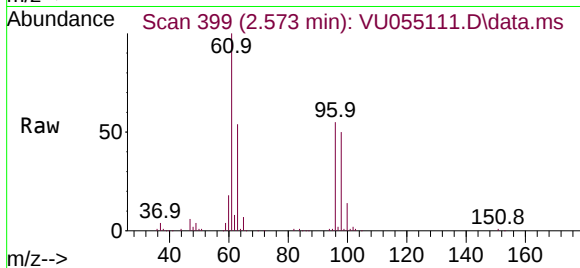
Tgt Ion:101 Resp: 2049

Ion Ratio Lower Upper

101 100

85 34.3 37.3 55.9#

151 42.8 57.6 86.4#



#12

1,1-Dichloroethene

Concen: 11.072 ug/L

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

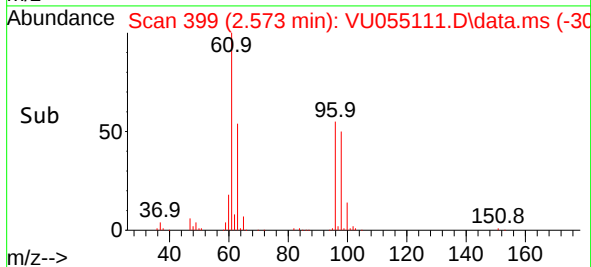
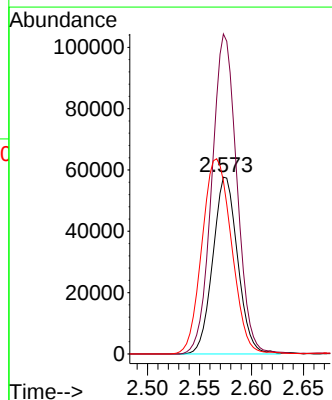
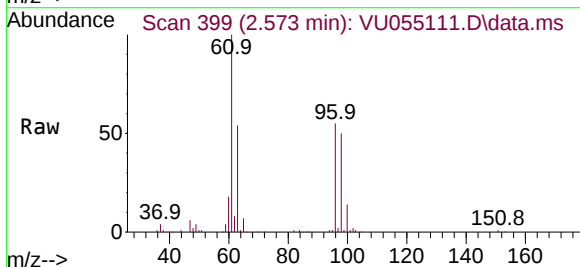
Tgt Ion: 96 Resp: 95732

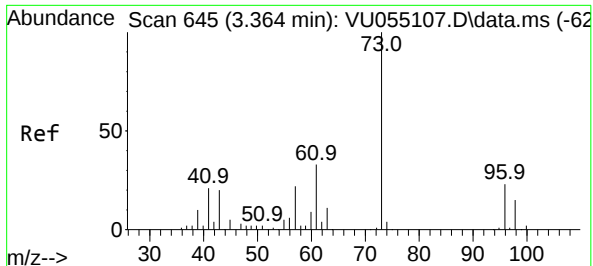
Ion Ratio Lower Upper

96 100

61 181.0 120.8 224.4

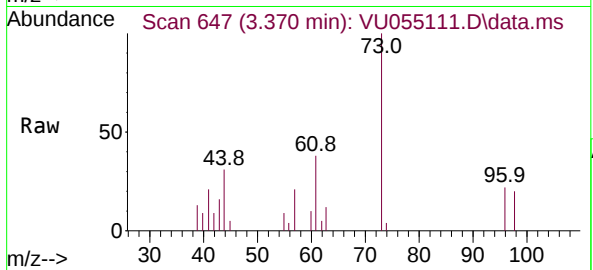
63 97.8 94.5 175.5





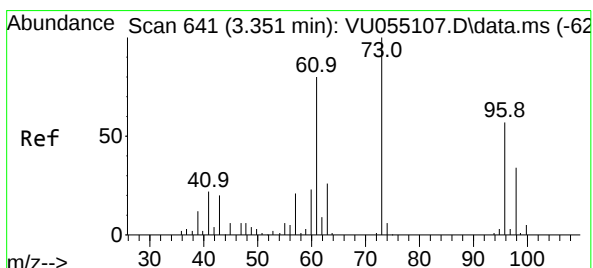
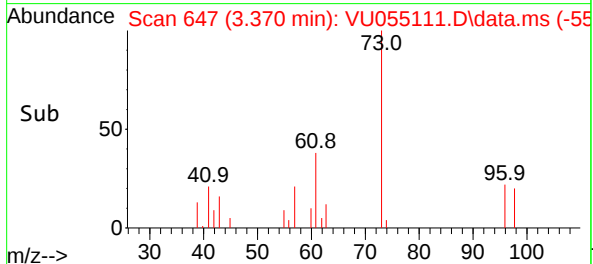
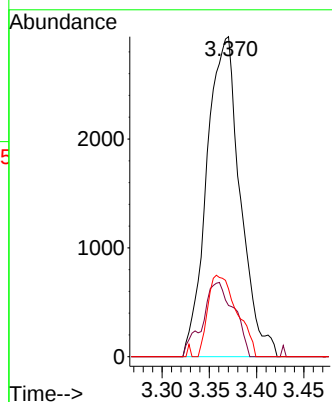
#17
Methyl tert-butyl Ether
Concen: 0.318 ug/L
RT: 3.370 min Scan# 645
Delta R.T. 0.006 min
Lab File: VU055111.D
Acq: 05 Sep 2023 22:36

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 73 Resp: 7217

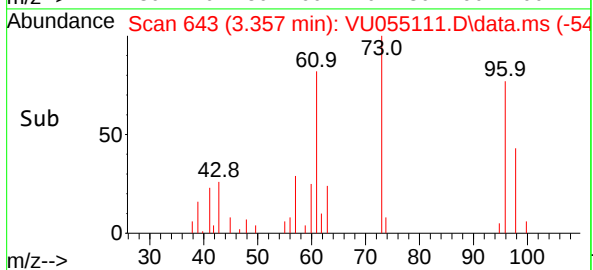
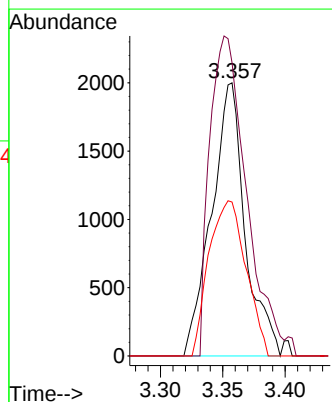
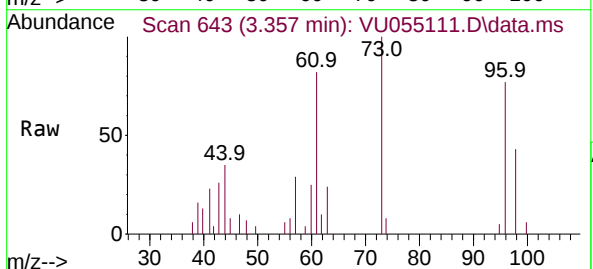
Ion	Ratio	Lower	Upper
73	100		
43	21.9	16.2	24.2
57	22.1	17.4	26.2

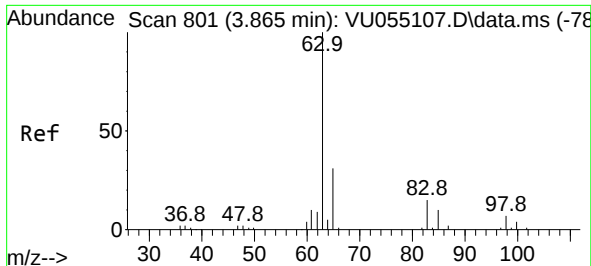


#18
trans-1,2-Dichloroethene
Concen: 0.427 ug/L
RT: 3.357 min Scan# 643
Delta R.T. 0.006 min
Lab File: VU055111.D
Acq: 05 Sep 2023 22:36

Tgt Ion: 96 Resp: 3749

Ion	Ratio	Lower	Upper
96	100		
61	107.4	108.1	200.9#
98	56.4	45.4	84.4





#19

1,1-Dichloroethane

Concen: 2.037 ug/L

RT: 3.865 min Scan# 801

Delta R.T. 0.000 min

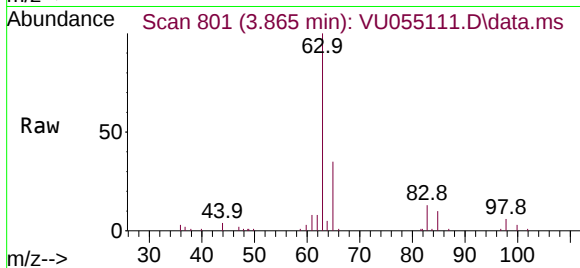
Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

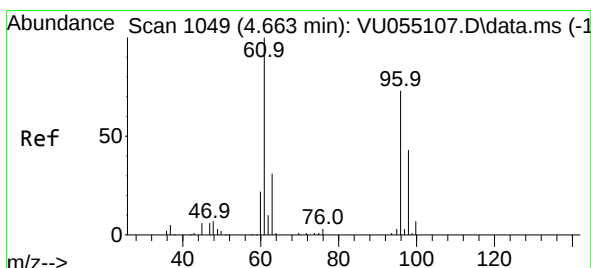
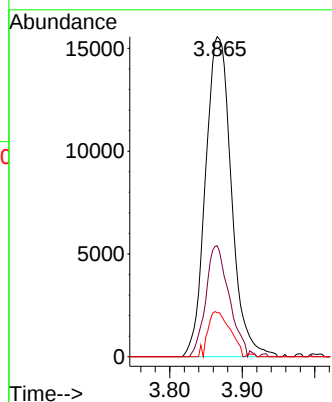
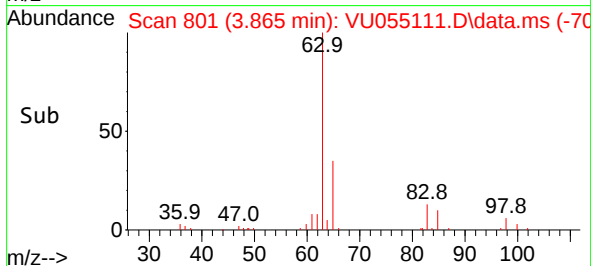
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	63	Resp:	38617
Ion	Ratio	Lower	Upper
63	100		
65	33.1	22.2	41.2
83	13.1	10.6	19.8



#22

cis-1,2-Dichloroethene

Concen: 117.444 ug/L

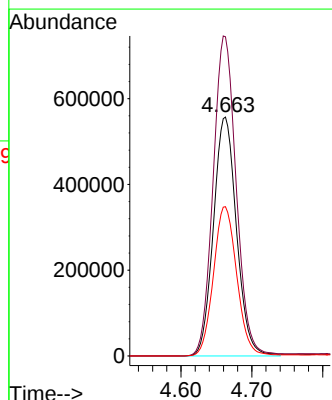
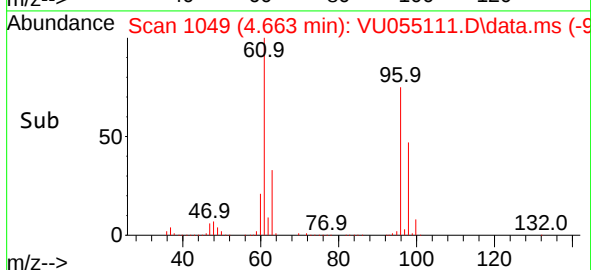
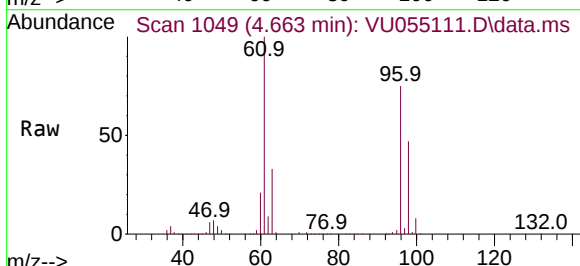
RT: 4.663 min Scan# 1049

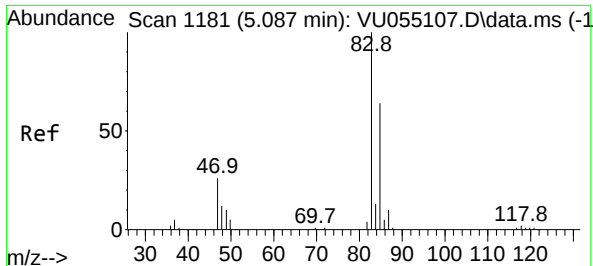
Delta R.T. 0.000 min

Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

Tgt Ion:	96	Resp:	1261164
Ion	Ratio	Lower	Upper
96	100		
61	133.7	97.2	180.4
98	62.5	46.1	85.7





#25

Chloroform

Concen: 2.736 ug/L

RT: 5.084 min Scan# 1181

Delta R.T. -0.003 min

Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

Instrument :

MSVOA_U

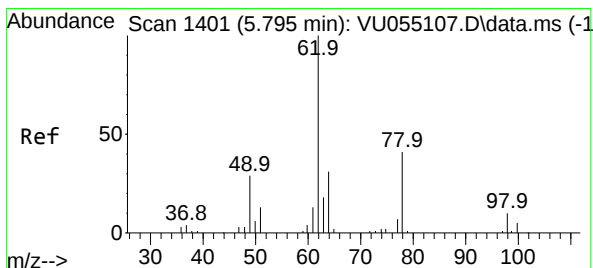
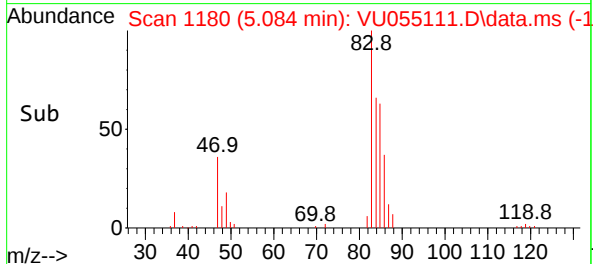
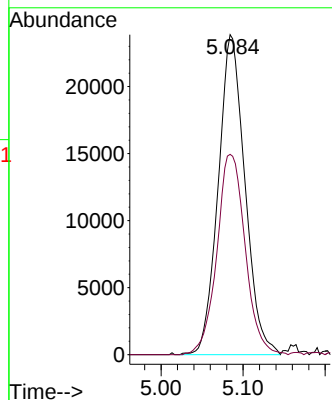
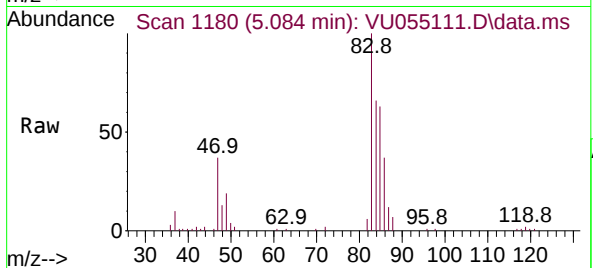
ClientSampleId :

Tgt Ion: 83 Resp: 54020

Ion Ratio Lower Upper

83 100

85 62.6 47.2 87.6



#27

1,2-Dichloroethane

Concen: 1.144 ug/L

RT: 5.791 min Scan# 1400

Delta R.T. -0.003 min

Lab File: VU055111.D

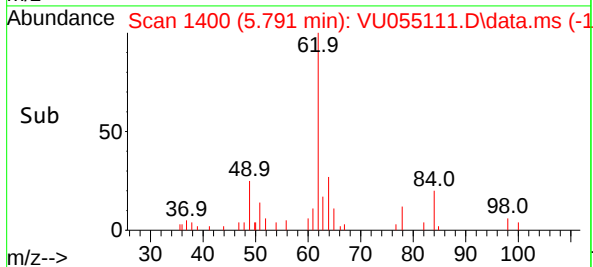
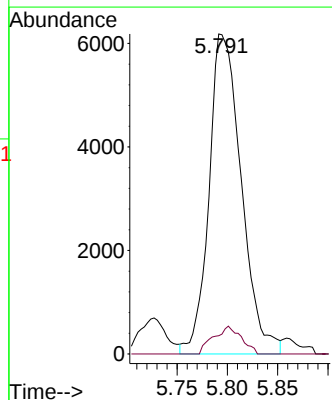
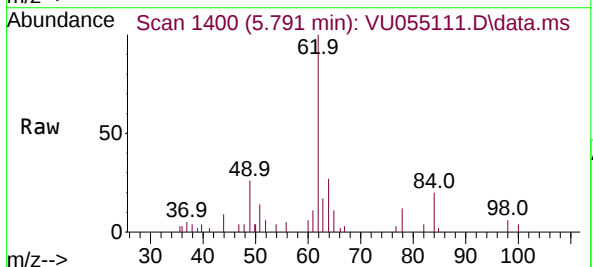
Acq: 05 Sep 2023 22:36

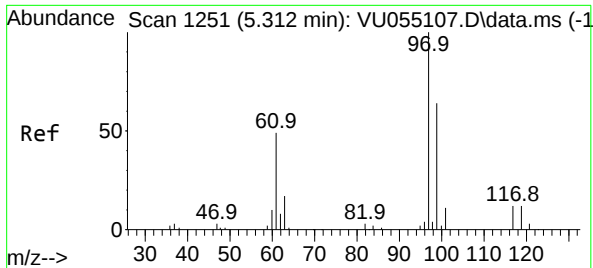
Tgt Ion: 62 Resp: 13790

Ion Ratio Lower Upper

62 100

98 5.7 6.9 10.3#





#29

1,1,1-Trichloroethane

Concen: 0.285 ug/L

RT: 5.316 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

Instrument :

MSVOA_U

ClientSampleId :

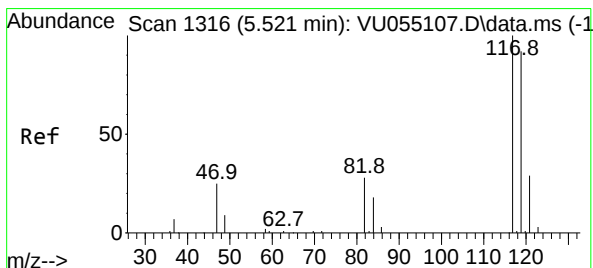
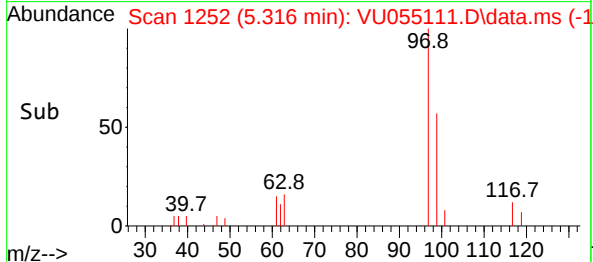
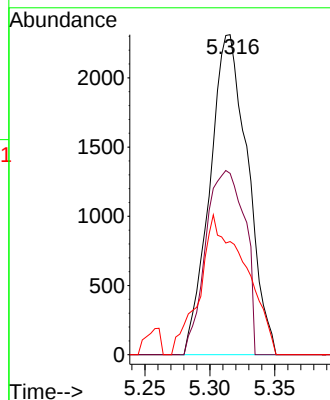
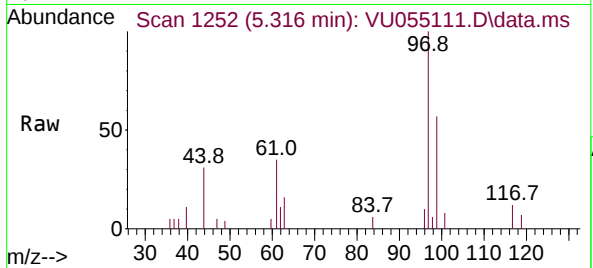
Tgt Ion: 97 Resp: 4683

Ion Ratio Lower Upper

97 100

99 59.5 51.8 77.8

61 52.5 36.8 55.2



#31

Carbon tetrachloride

Concen: 0.343 ug/L

RT: 5.518 min Scan# 1315

Delta R.T. -0.003 min

Lab File: VU055111.D

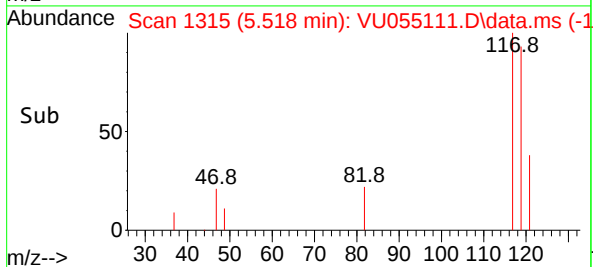
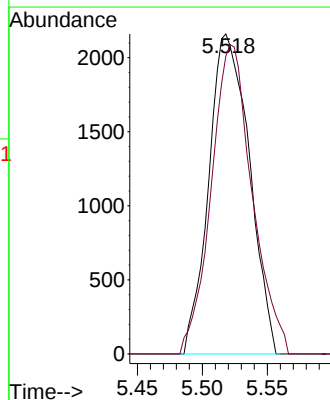
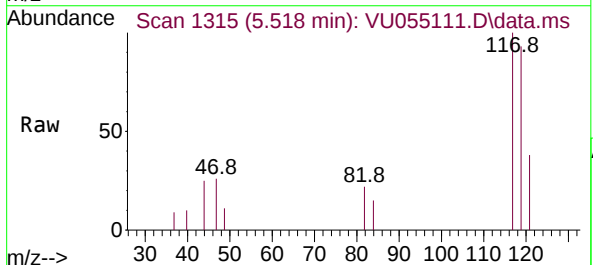
Acq: 05 Sep 2023 22:36

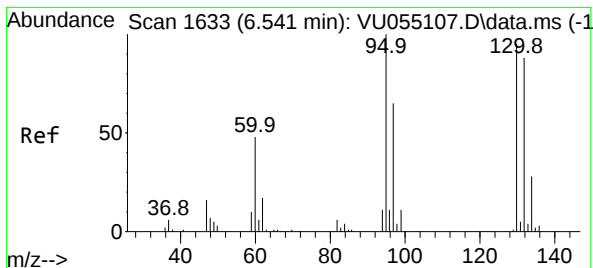
Tgt Ion: 117 Resp: 4687

Ion Ratio Lower Upper

117 100

119 97.4 75.4 113.0





#34

Trichloroethene

Concen: 72.179 ug/L

RT: 6.541 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 810919

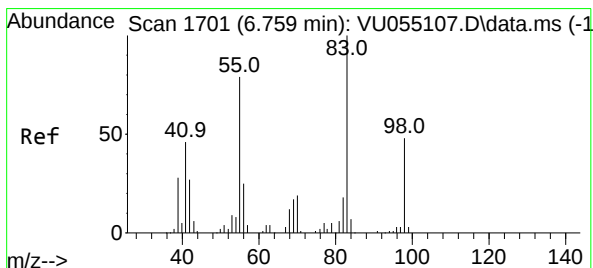
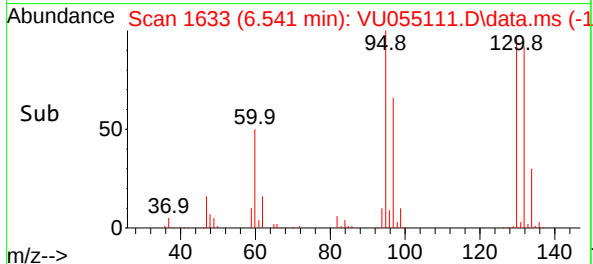
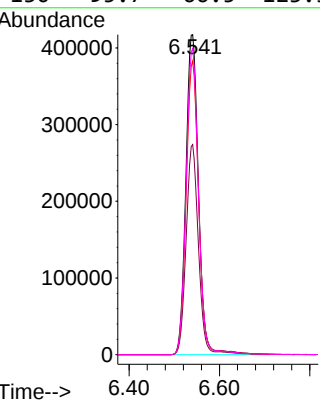
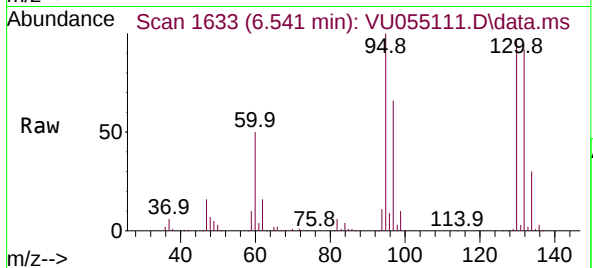
Ion Ratio Lower Upper

95 100

97 65.7 44.7 83.1

132 91.8 66.6 123.6

130 95.7 66.5 123.5



#35

Methylcyclohexane

Concen: 1.052 ug/L

RT: 6.688 min Scan# 1679

Delta R.T. -0.071 min

Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

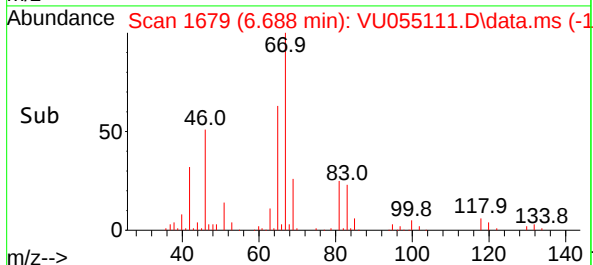
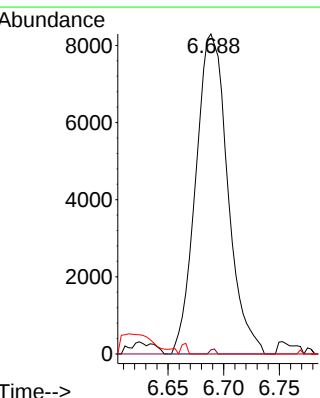
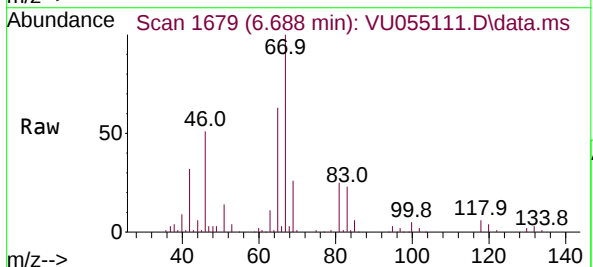
Tgt Ion: 83 Resp: 16582

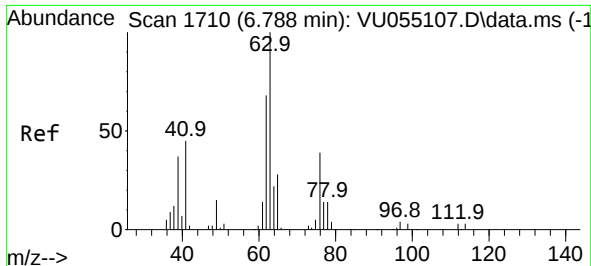
Ion Ratio Lower Upper

83 100

55 0.3 60.4 90.6#

98 0.0 35.3 52.9#





#37

1,2-Dichloropropane

Concen: 0.726 ug/L

RT: 6.688 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

Instrument :

MSVOA_U

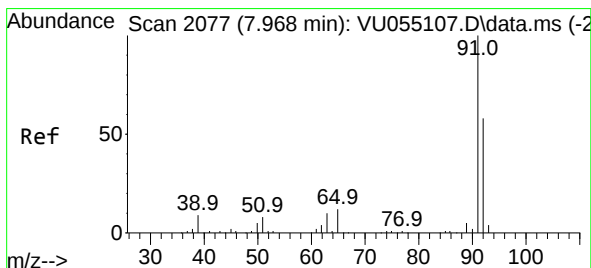
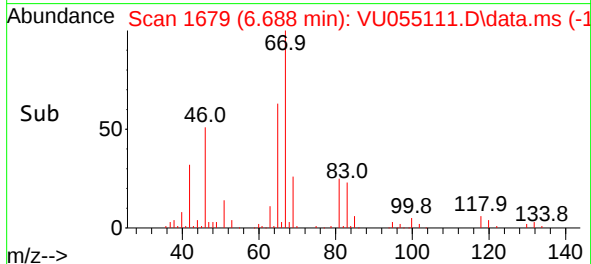
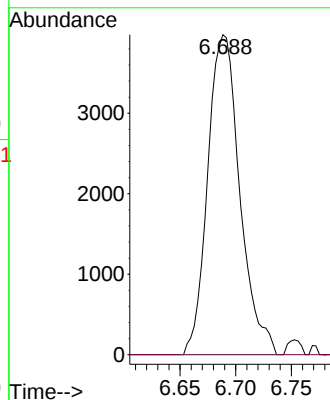
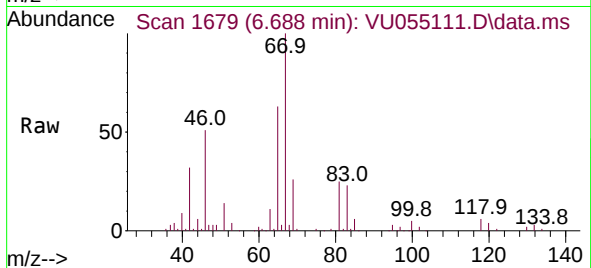
ClientSampleId :

Tgt Ion: 63 Resp: 7988

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#42

Toluene

Concen: 0.174 ug/L

RT: 7.971 min Scan# 2078

Delta R.T. 0.003 min

Lab File: VU055111.D

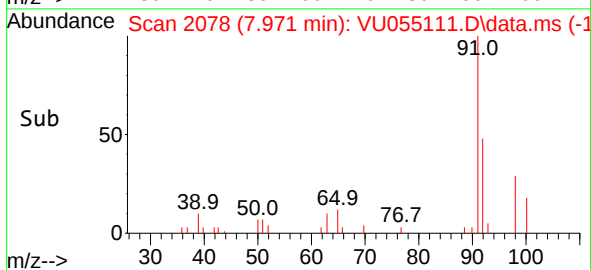
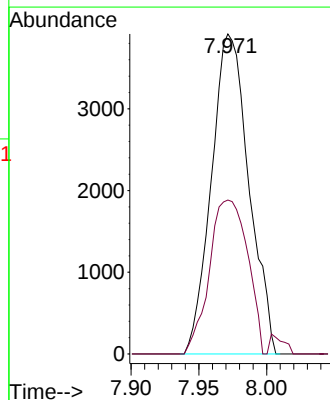
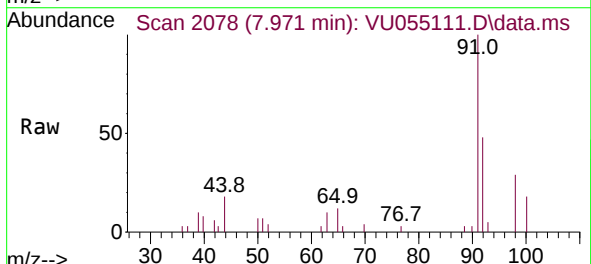
Acq: 05 Sep 2023 22:36

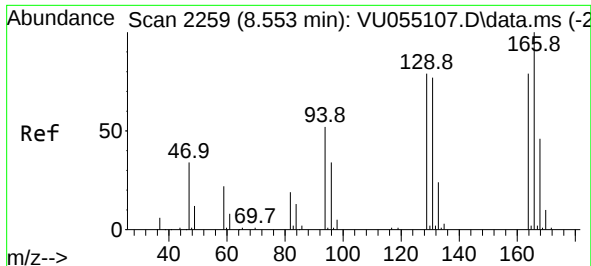
Tgt Ion: 91 Resp: 7519

Ion Ratio Lower Upper

91 100

92 48.1 41.9 77.9





#47

Tetrachloroethene

Concen: 0.558 ug/L

RT: 8.550 min Scan# 21

Delta R.T. -0.003 min

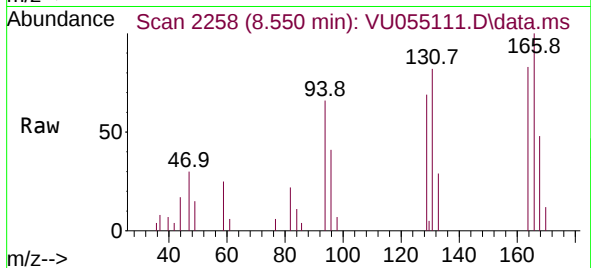
Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 4335

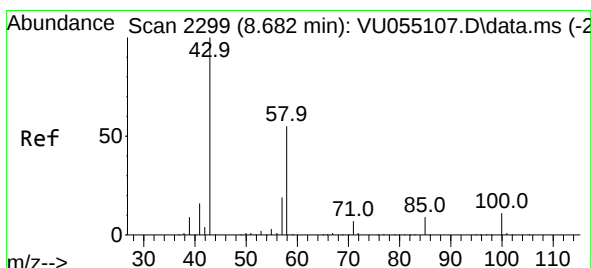
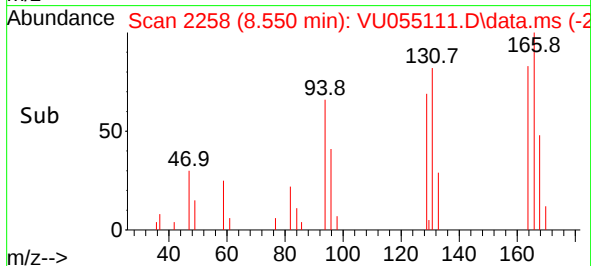
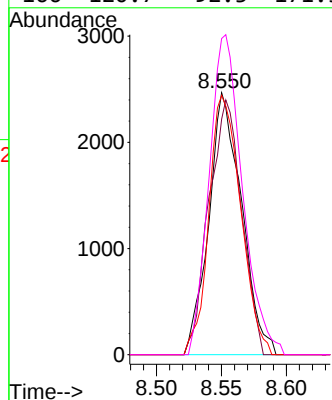
Ion Ratio Lower Upper

164 100

129 89.9 69.2 128.6

131 99.0 68.8 127.8

166 120.7 92.3 171.5



#48

2-Hexanone

Concen: 4.011 ug/L

RT: 8.682 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VU055111.D

Acq: 05 Sep 2023 22:36

Tgt Ion: 43 Resp: 19726

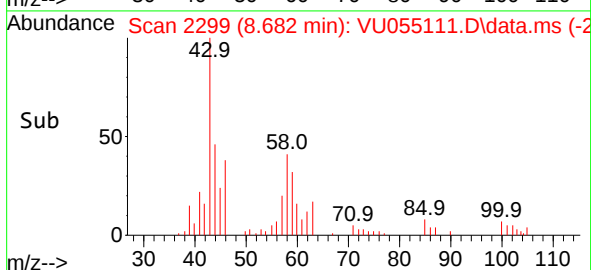
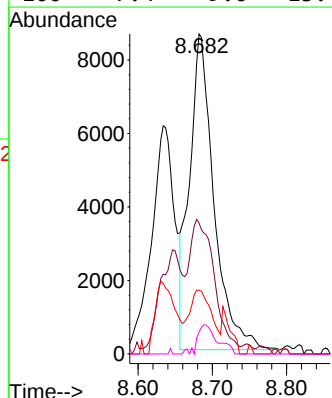
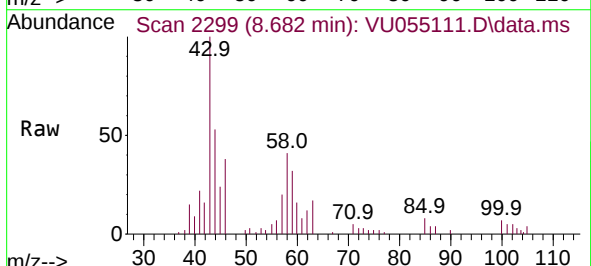
Ion Ratio Lower Upper

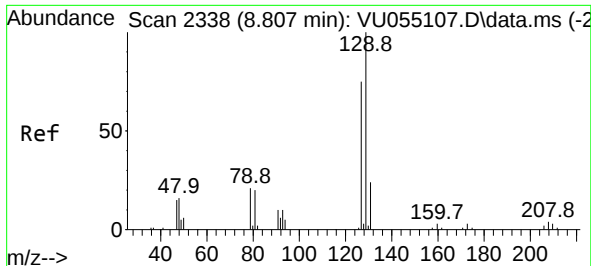
43 100

58 40.2 44.0 66.0#

57 19.1 16.2 24.2

100 7.4 9.0 13.4#

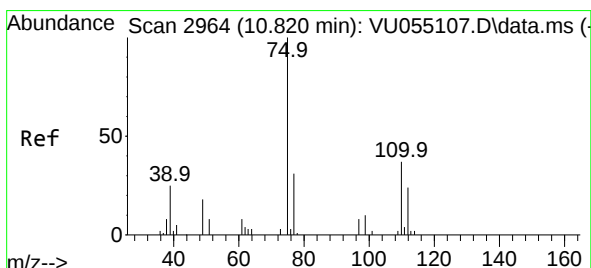
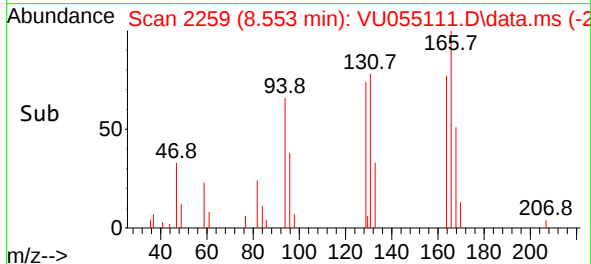
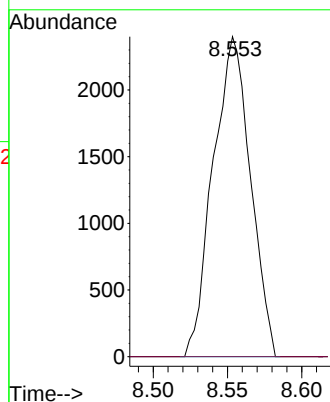
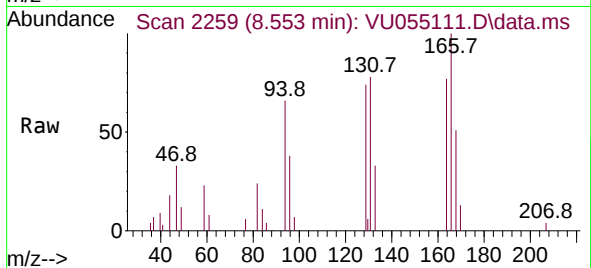




#49
Dibromochloromethane
Concen: 0.520 ug/L
RT: 8.553 min Scan# 21
Delta R.T. -0.254 min
Lab File: VU055111.D
Acq: 05 Sep 2023 22:36

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:129 Resp: 4206
Ion Ratio Lower Upper
129 100
127 0.0 55.9 103.7#



#61
1,2,3-Trichloropropane
Concen: 2.150 ug/L
RT: 11.810 min Scan# 3272
Delta R.T. 0.990 min
Lab File: VU055111.D
Acq: 05 Sep 2023 22:36

Tgt Ion: 75 Resp: 14019
Ion Ratio Lower Upper
75 100
110 3.1 28.2 42.2#
77 31.9 26.2 39.4

