

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122023\
 Data File : VU057081.D
 Acq On : 20 Dec 2023 10:51
 Operator : MD/SY
 Sample : 05771-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 20 23:42:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 20 23:41:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	160395	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	152785	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	70083	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	39588	2.879	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	57.600%
7) Chloroethane-d5	1.907	69	41205	4.005	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.200%
11) 1,1-Dichloroethene-d2	2.563	65	16674	2.835	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.600%#
20) 2-Butanone-d5	4.618	46	197372	72.693	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	145.380%#
24) Chloroform-d	5.055	84	107026	4.111	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.200%
26) 1,2-Dichloroethane-d4	5.695	65	51788	4.204	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.000%
32) Benzene-d6	5.721	84	179867	3.795	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.000%
36) 1,2-Dichloropropane-d6	6.685	67	59194	3.991	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	79.800%
41) Toluene-d8	7.894	98	146860	3.467	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.400%#
43) trans-1,3-Dichloroprop...	8.177	79	16226	2.821	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	56.400%
46) 2-Hexanone-d5	8.627	63	83945	38.693	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.380%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	45730	4.261	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.200%
66) 1,2-Dichlorobenzene-d4	12.187	152	60970	4.426	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	4263	0.258	ug/L	95
5) Vinyl chloride	1.731	62	2582	0.157	ug/L	98
8) Chloroethane	1.930	64	1596	0.166	ug/L #	72
13) Acetone	2.624	43	21514	13.002	ug/L	85
14) Carbon disulfide	2.788	76	28037	0.621	ug/L	100
15) Methyl Acetate	3.177	43	363461	80.695	ug/L #	64
17) Methyl tert-butyl Ether	3.354	73	25023	0.867	ug/L #	77
21) 2-Butanone	4.615	43	196928	70.574	ug/L #	73
22) cis-1,2-Dichloroethene	4.660	96	51398	3.578	ug/L	93
27) 1,2-Dichloroethane	5.766	62	2895	0.184	ug/L #	74
31) Carbon tetrachloride	5.759	117	17977	0.937	ug/L #	32
33) Benzene	5.769	78	306243	5.703	ug/L	100
37) 1,2-Dichloropropane	6.685	63	6945	0.506	ug/L #	91
40) 4-Methyl-2-pentanone	7.788	43	19810	3.037	ug/L	99
42) Toluene	7.965	91	65694	1.182	ug/L	100
51) Chlorobenzene	9.441	112	2130291	60.160	ug/L	99
52) Ethylbenzene	9.566	91	28899	0.472	ug/L	96
53) m,p-Xylene	9.688	106	30815	1.350	ug/L	91
54) o-Xylene	10.100	106	11642	0.535	ug/L	99

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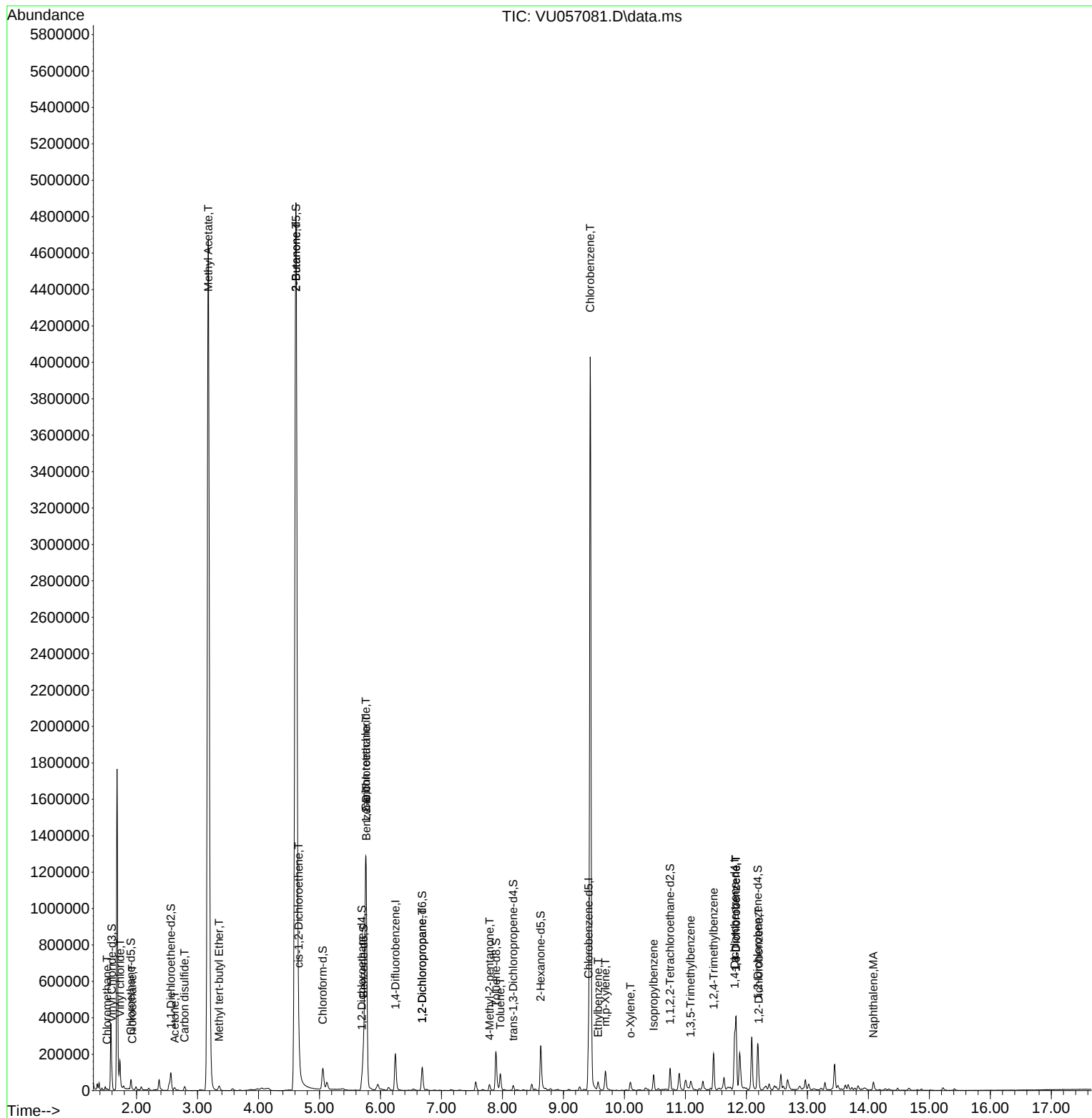
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) Isopropylbenzene	10.479	105	53471	0.966	ug/L #	84
62) 1,3,5-Trimethylbenzene	11.084	105	15862	0.351	ug/L	98
63) 1,2,4-Trimethylbenzene	11.463	105	111985	2.492	ug/L	97
64) 1,3-Dichlorobenzene	11.830	146	147457	5.630	ug/L	98
65) 1,4-Dichlorobenzene	11.830	146	147457	5.717	ug/L	97
67) 1,2-Dichlorobenzene	12.203	146	3658	0.153	ug/L #	87
71) Naphthalene	14.084	128	37527	1.636	ug/L	98

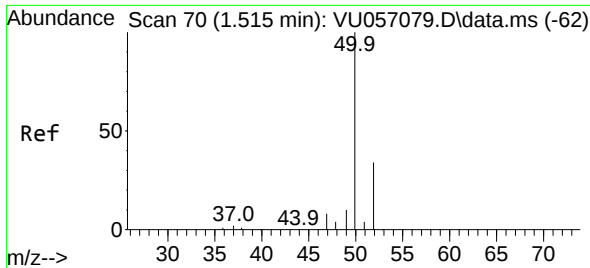
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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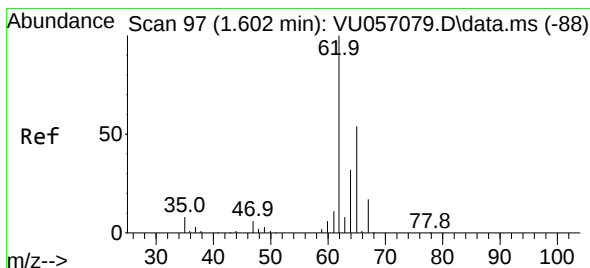
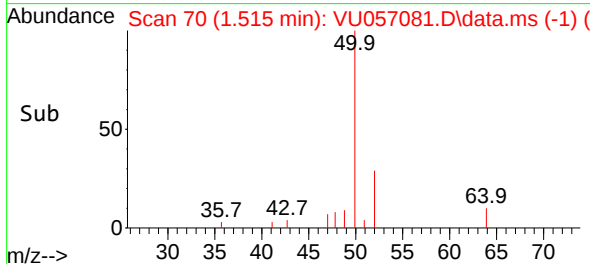
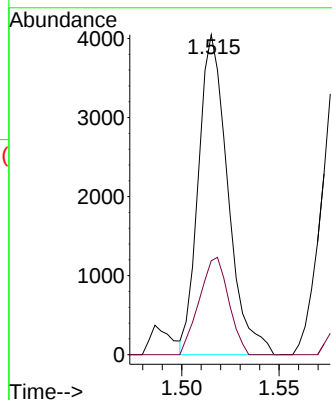
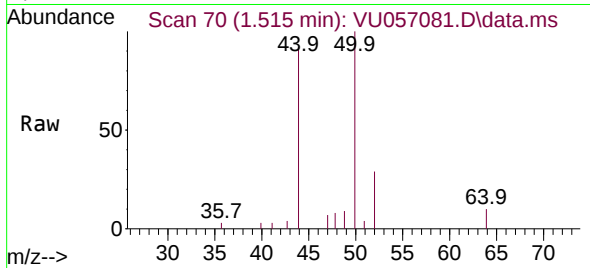




#3
Chloromethane
Concen: 0.258 ug/L
RT: 1.515 min Scan# 70
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

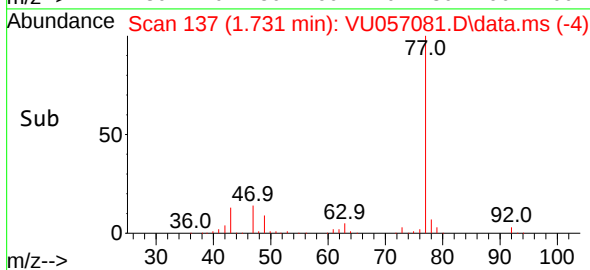
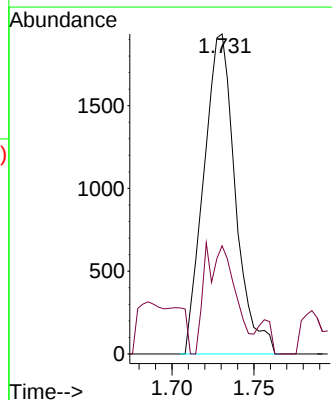
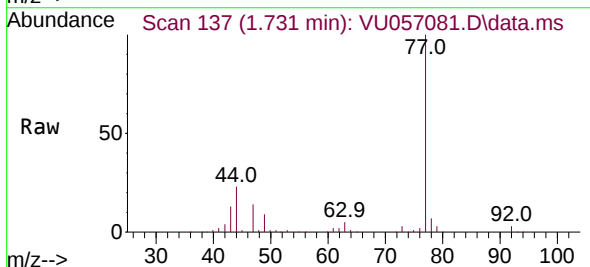
Instrument :
MSVOA_U
ClientSampleId :

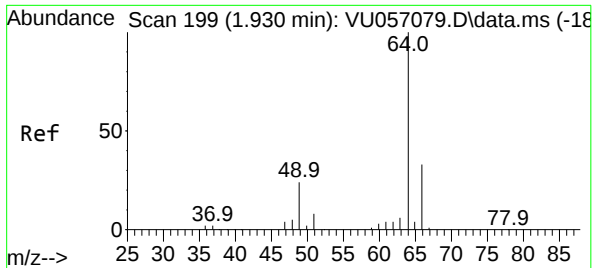
Tgt Ion: 50 Resp: 4263
Ion Ratio Lower Upper
50 100
52 29.4 22.5 41.7



#5
Vinyl chloride
Concen: 0.157 ug/L
RT: 1.731 min Scan# 137
Delta R.T. 0.129 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

Tgt Ion: 62 Resp: 2582
Ion Ratio Lower Upper
62 100
64 33.8 22.8 42.4

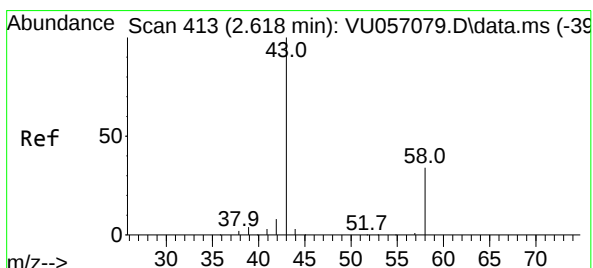
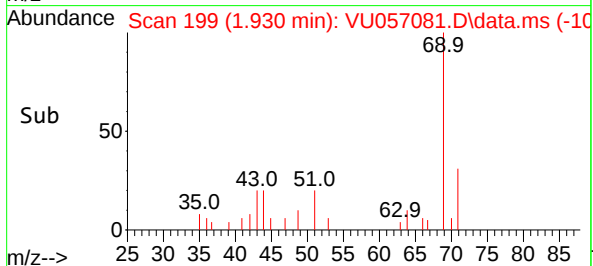
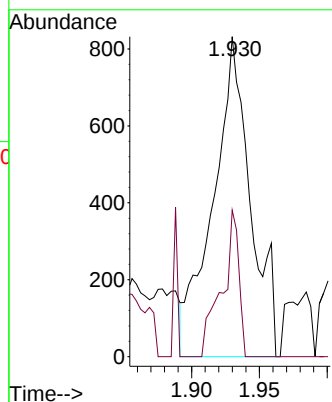
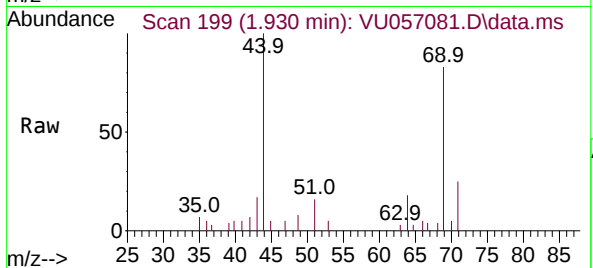




#8
Chloroethane
Concen: 0.166 ug/L
RT: 1.930 min Scan# 199
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

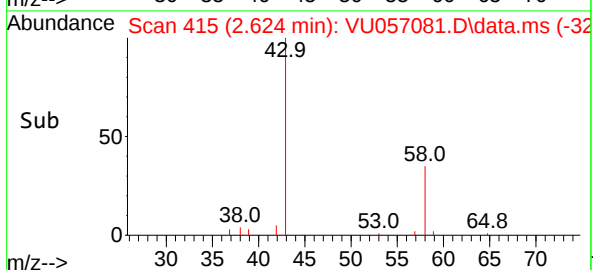
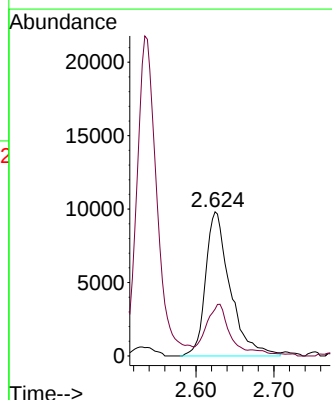
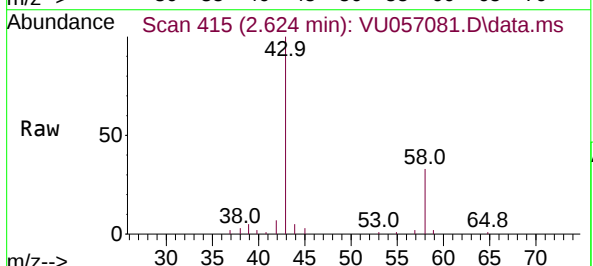
Instrument :
MSVOA_U
ClientSampleId :

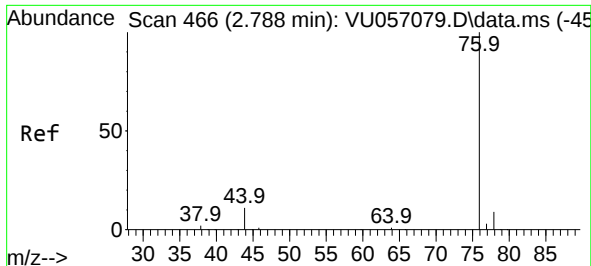
Tgt Ion: 64 Resp: 1596
Ion Ratio Lower Upper
64 100
66 45.8 21.4 39.8#



#13
Acetone
Concen: 13.002 ug/L
RT: 2.624 min Scan# 415
Delta R.T. 0.007 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

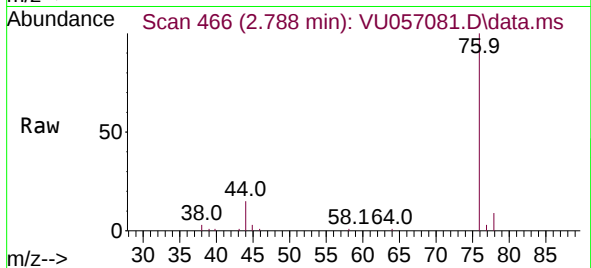
Tgt Ion: 43 Resp: 21514
Ion Ratio Lower Upper
43 100
58 27.3 0.0 72.6



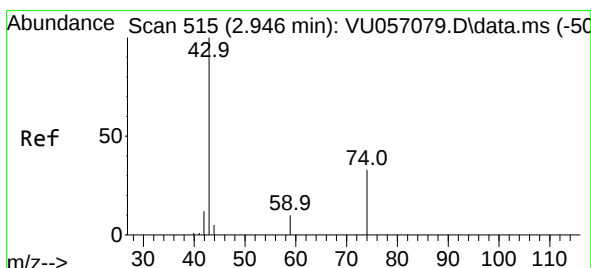
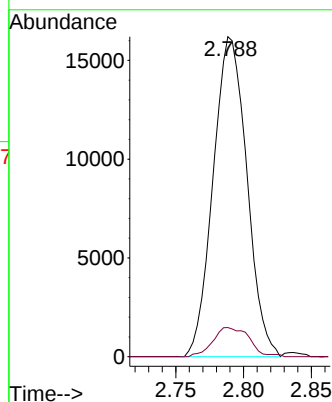
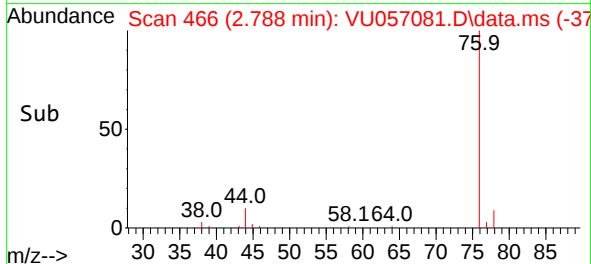


#14
Carbon disulfide
Concen: 0.621 ug/L
RT: 2.788 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

Instrument :
MSVOA_U
ClientSampleId :

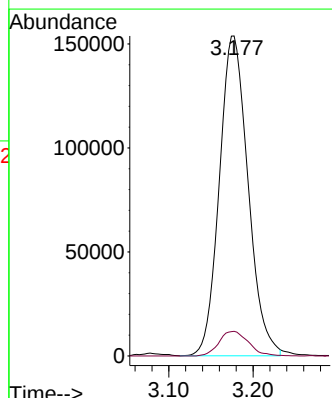
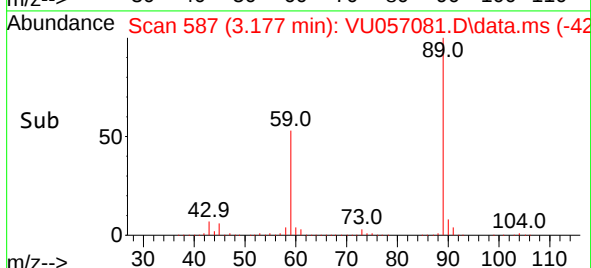
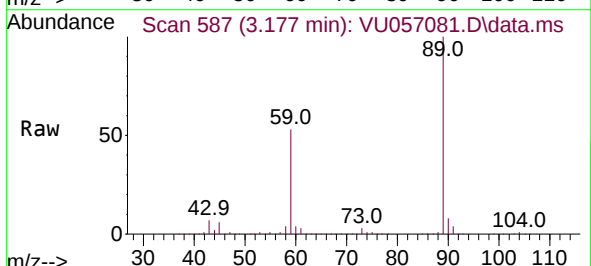


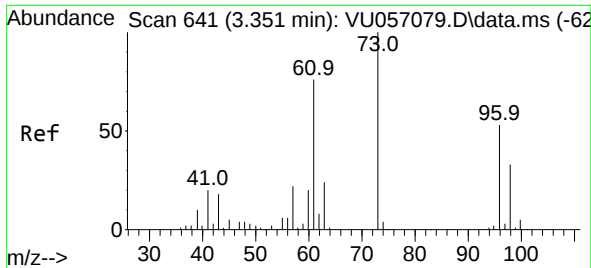
Tgt Ion: 76 Resp: 28037
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9



#15
Methyl Acetate
Concen: 80.695 ug/L
RT: 3.177 min Scan# 587
Delta R.T. 0.232 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

Tgt Ion: 43 Resp: 363461
Ion Ratio Lower Upper
43 100
74 7.9 21.0 31.6#

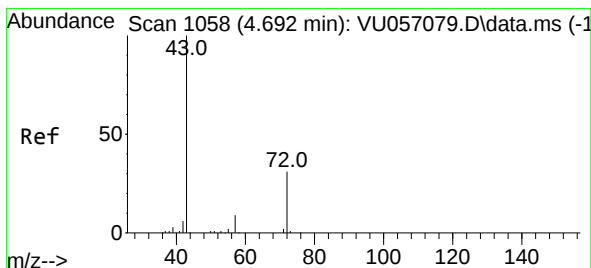
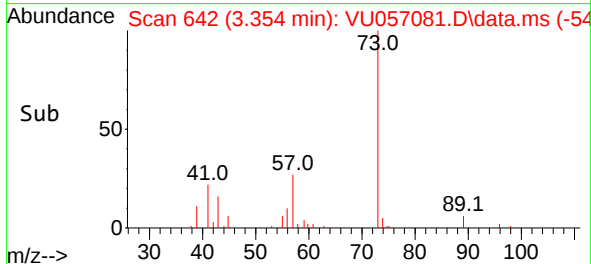
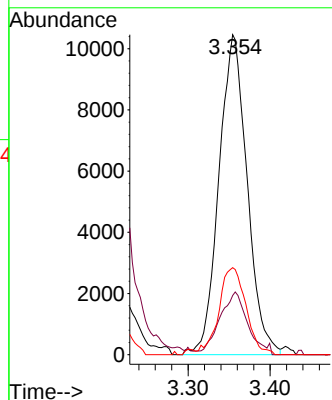
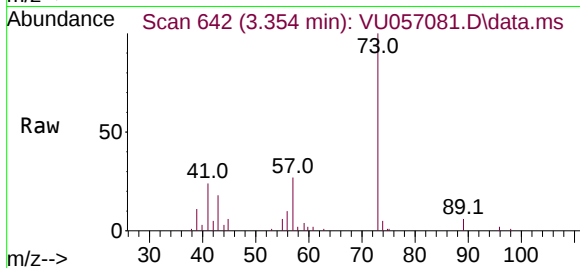




#17
Methyl tert-butyl Ether
Concen: 0.867 ug/L
RT: 3.354 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

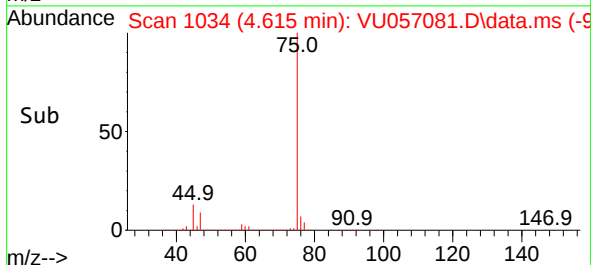
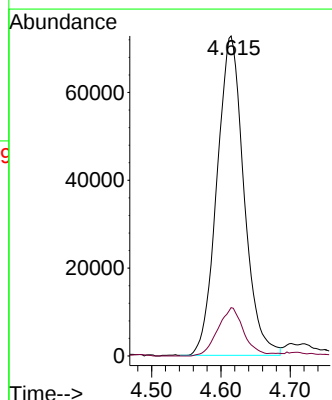
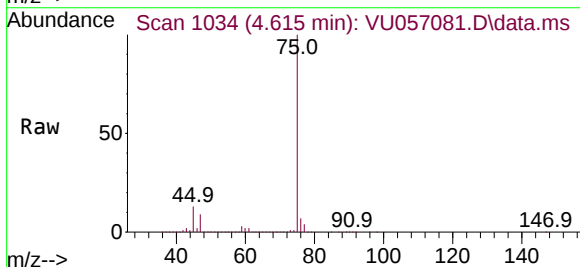
Instrument :
MSVOA_U
ClientSampleId :

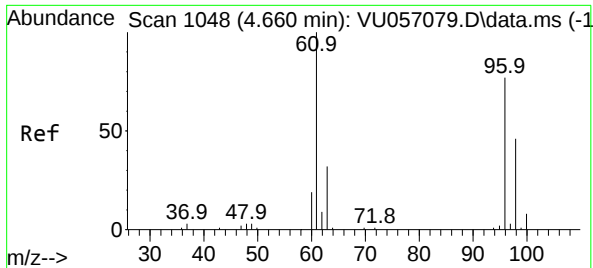
Tgt Ion: 73 Resp: 25023
Ion Ratio Lower Upper
73 100
43 0.0 14.4 21.6#
57 26.1 17.8 26.8



#21
2-Butanone
Concen: 70.574 ug/L
RT: 4.615 min Scan# 1034
Delta R.T. -0.077 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

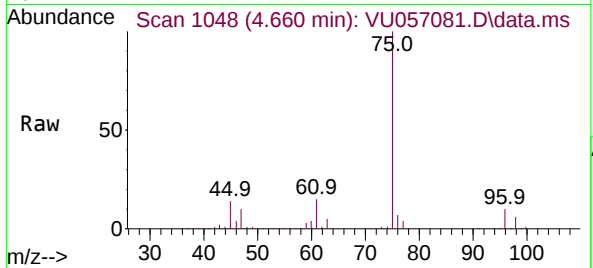
Tgt Ion: 43 Resp: 196928
Ion Ratio Lower Upper
43 100
72 14.5 14.6 43.8#





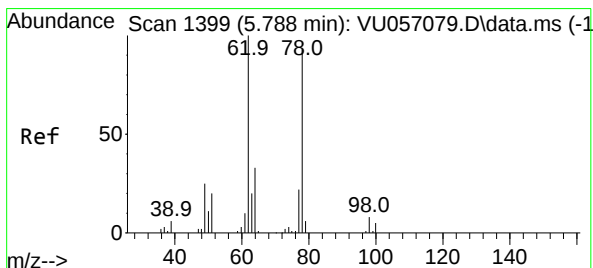
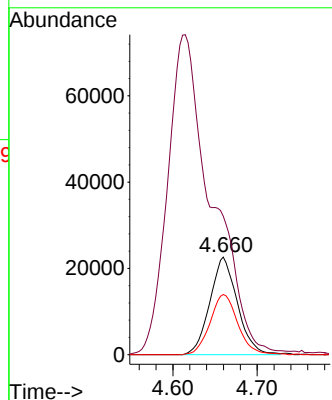
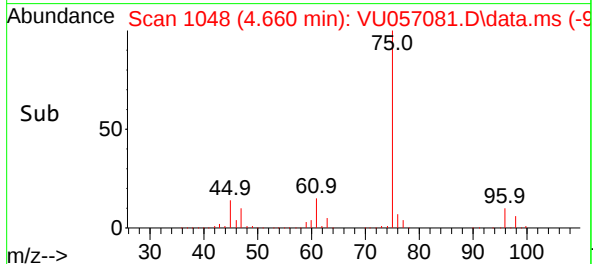
#22
 cis-1,2-Dichloroethene
 Concen: 3.578 ug/L
 RT: 4.660 min Scan# 1048
 Delta R.T. 0.000 min
 Lab File: VU057081.D
 Acq: 20 Dec 2023 10:51

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 96 Resp: 51398

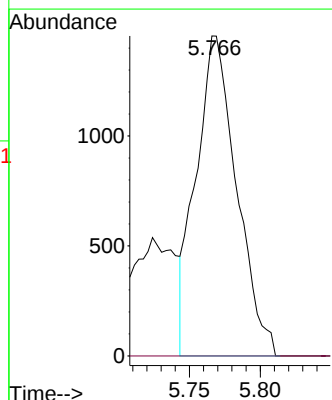
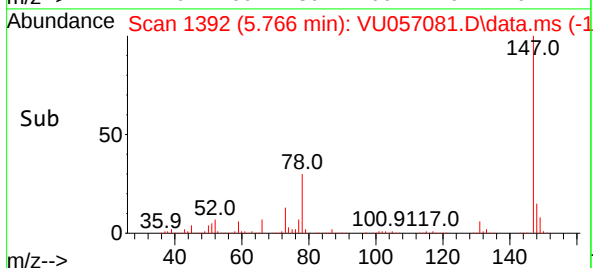
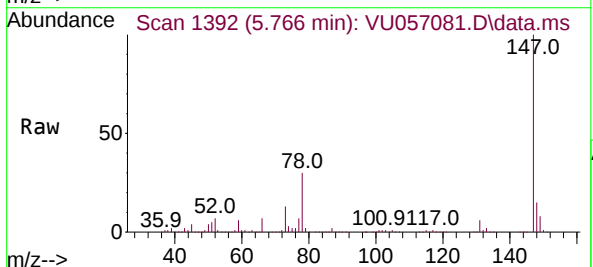
Ion	Ratio	Lower	Upper
96	100		
61	142.0	91.3	169.6
98	61.7	44.2	82.0

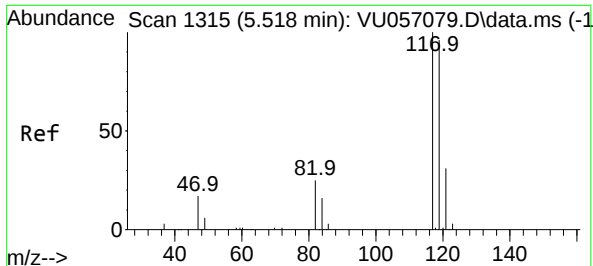


#27
 1,2-Dichloroethane
 Concen: 0.184 ug/L
 RT: 5.766 min Scan# 1392
 Delta R.T. -0.022 min
 Lab File: VU057081.D
 Acq: 20 Dec 2023 10:51

Tgt Ion: 62 Resp: 2895

Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.8	11.6

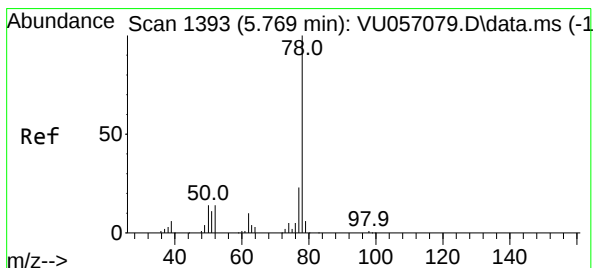
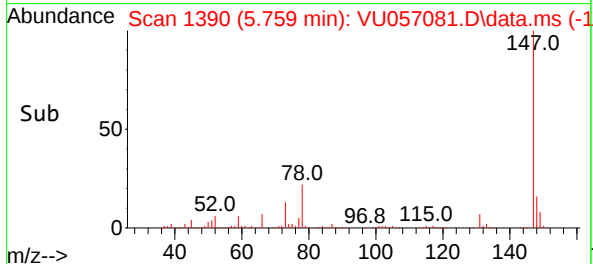
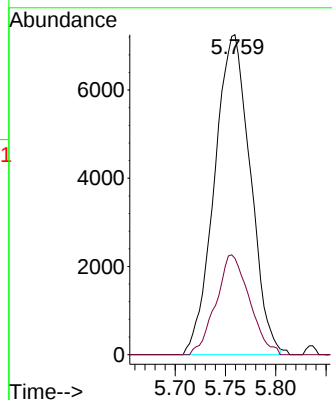
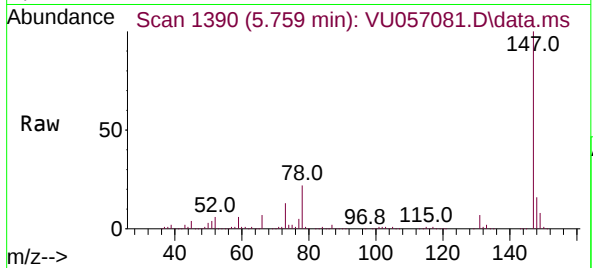




#31
Carbon tetrachloride
Concen: 0.937 ug/L
RT: 5.759 min Scan# 1117
Delta R.T. 0.241 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

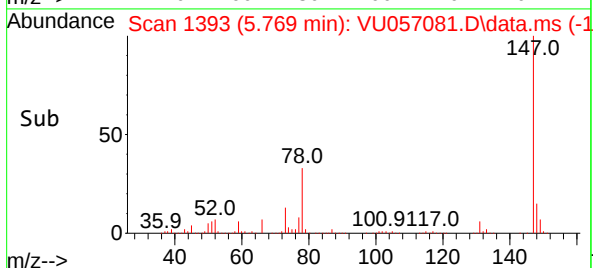
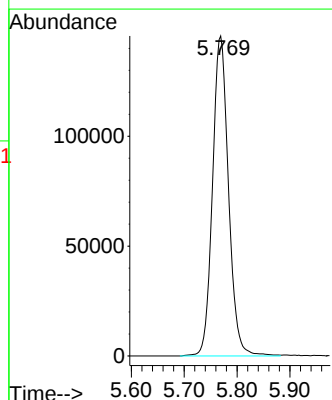
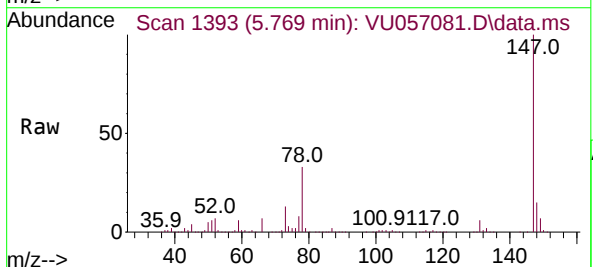
Instrument :
MSVOA_U
ClientSampleId :

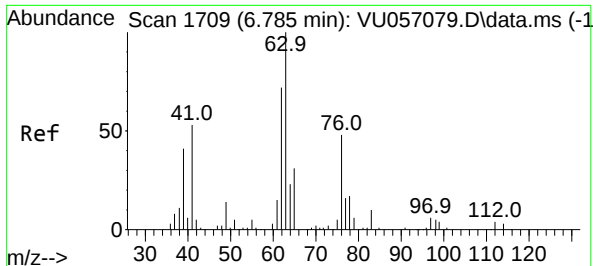
Tgt Ion:117 Resp: 17977
Ion Ratio Lower Upper
117 100
119 29.1 76.2 114.4#



#33
Benzene
Concen: 5.703 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

Tgt Ion: 78 Resp: 306243

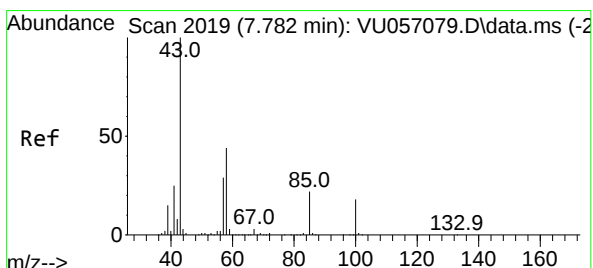
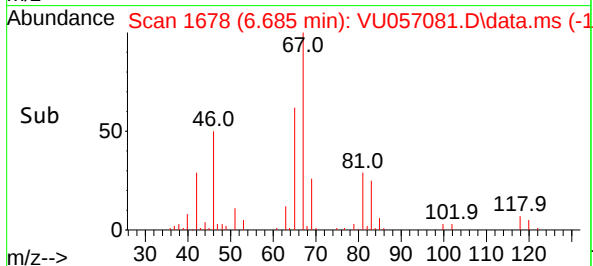
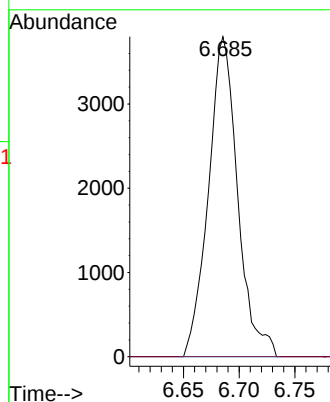
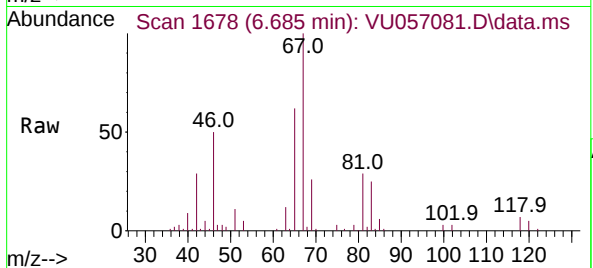




#37
1,2-Dichloropropane
Concen: 0.506 ug/L
RT: 6.685 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

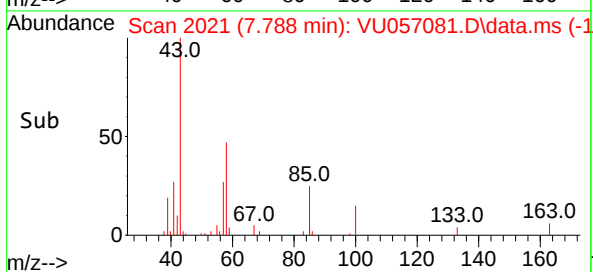
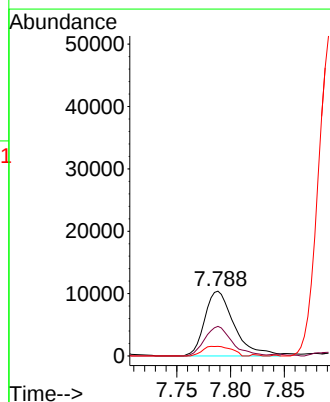
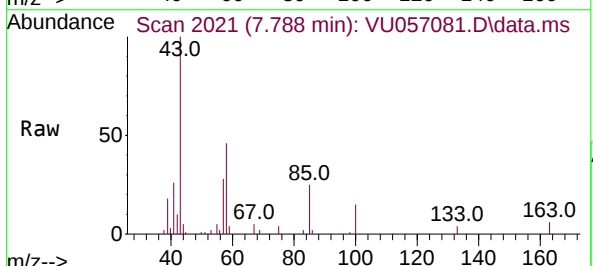
Instrument :
MSVOA_U
ClientSampleId :

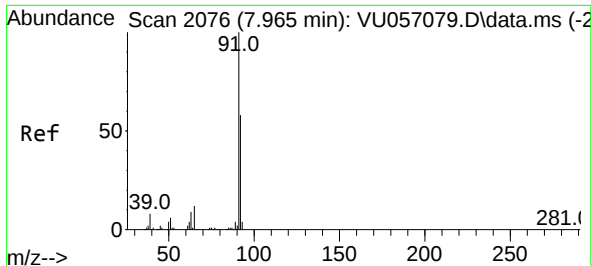
Tgt Ion: 63 Resp: 6945
Ion Ratio Lower Upper
63 100
112 1.3 3.3 4.9#



#40
4-Methyl-2-pentanone
Concen: 3.037 ug/L
RT: 7.788 min Scan# 2021
Delta R.T. 0.007 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

Tgt Ion: 43 Resp: 19810
Ion Ratio Lower Upper
43 100
58 42.2 33.7 50.5
100 14.5 13.0 19.4

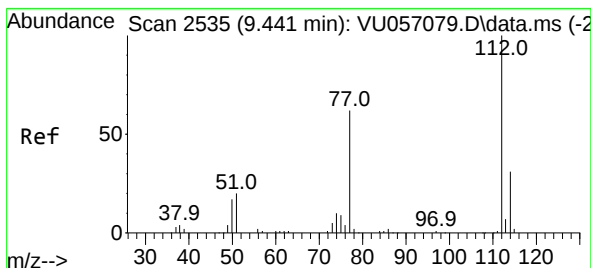
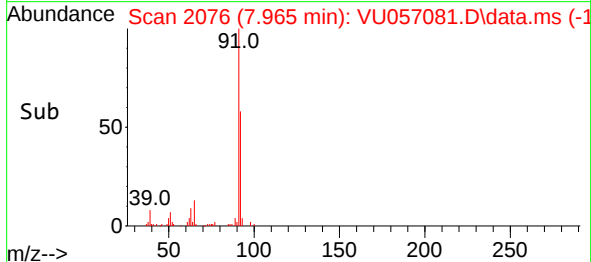
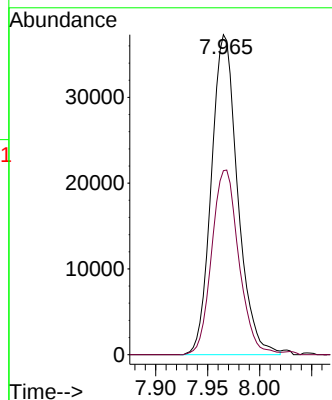
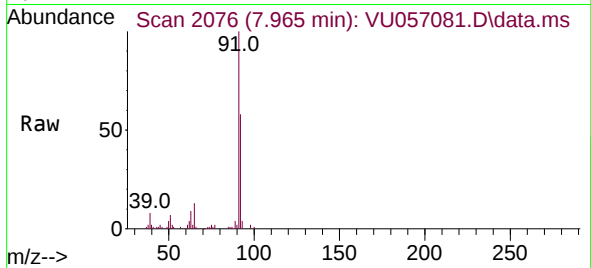




#42
Toluene
Concen: 1.182 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

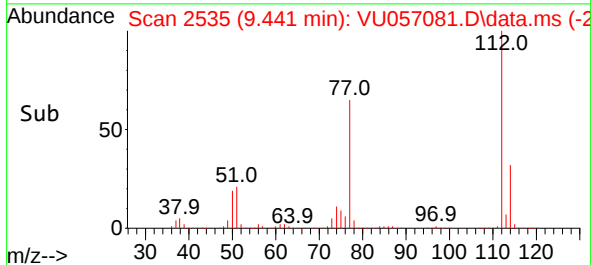
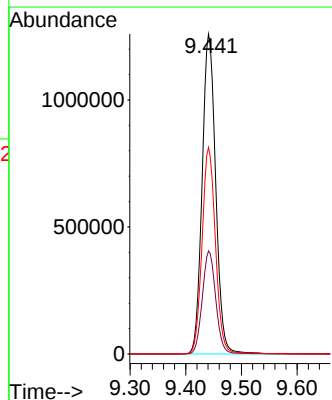
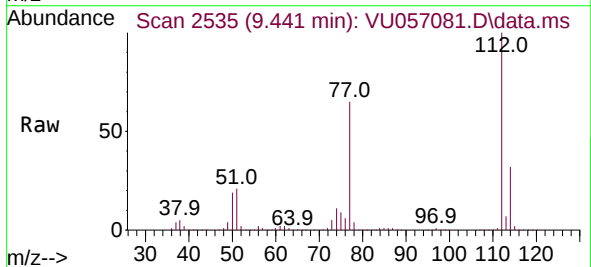
Instrument :
MSVOA_U
ClientSampleId :

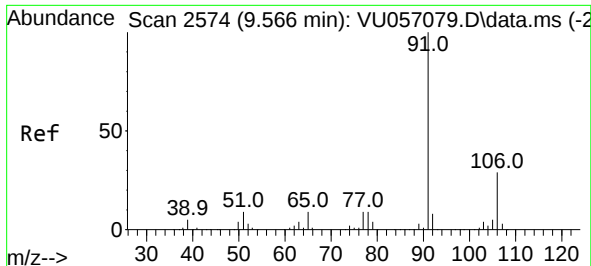
Tgt Ion: 91 Resp: 65694
Ion Ratio Lower Upper
91 100
92 57.5 40.4 75.0



#51
Chlorobenzene
Concen: 60.160 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

Tgt Ion: 112 Resp: 2130291
Ion Ratio Lower Upper
112 100
114 32.2 21.9 40.7
77 64.6 51.6 77.4

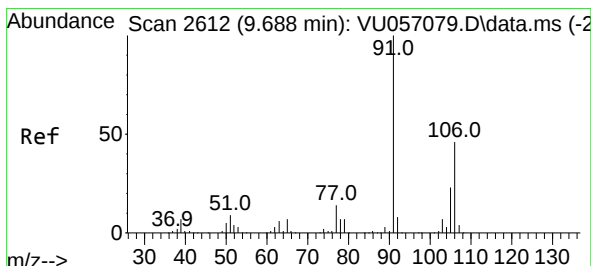
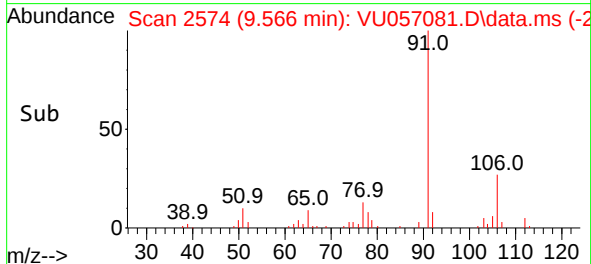
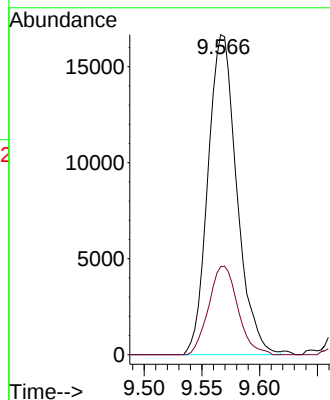
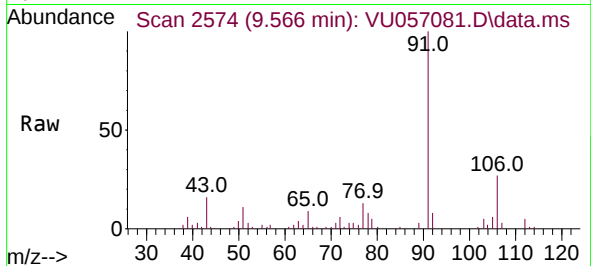




#52
Ethylbenzene
Concen: 0.472 ug/L
RT: 9.566 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

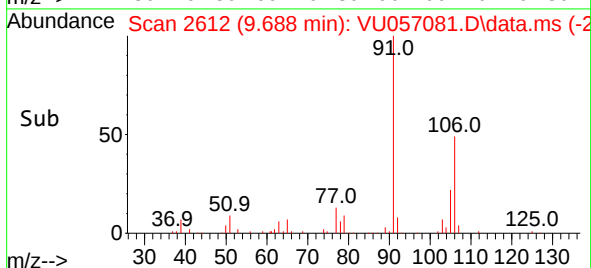
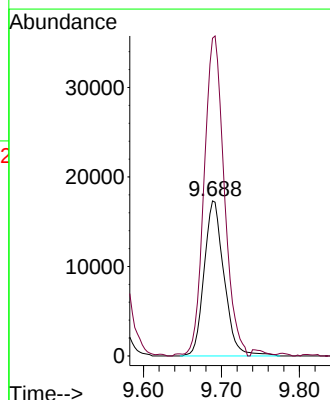
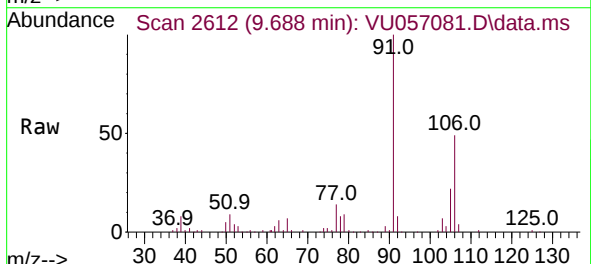
Instrument :
MSVOA_U
ClientSampleId :

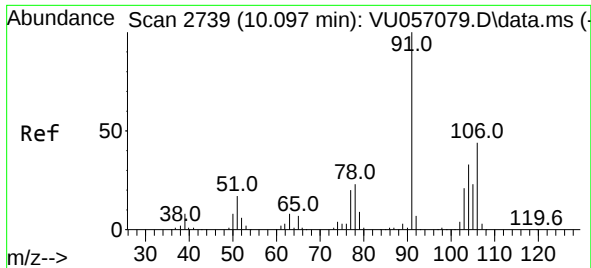
Tgt Ion: 91 Resp: 28899
Ion Ratio Lower Upper
91 100
106 27.5 20.6 38.4



#53
m,p-Xylene
Concen: 1.350 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

Tgt Ion: 106 Resp: 30815
Ion Ratio Lower Upper
106 100
91 205.0 154.0 286.0

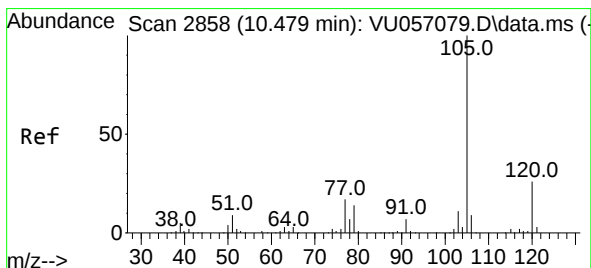
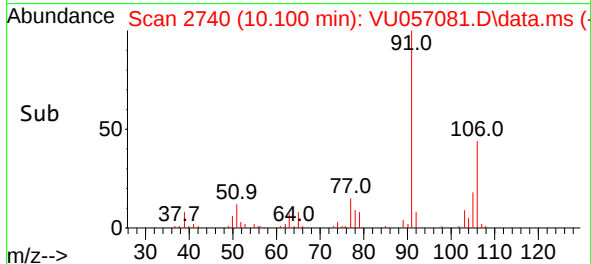
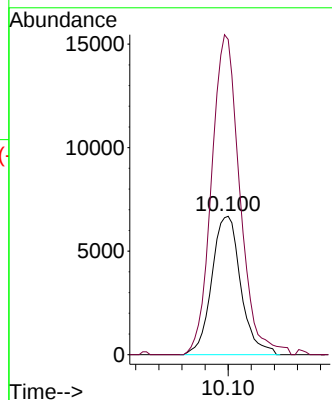
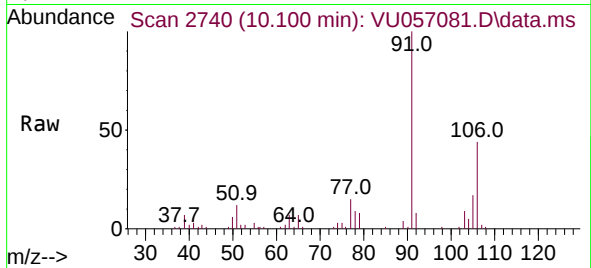




#54
o-Xylene
Concen: 0.535 ug/L
RT: 10.100 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

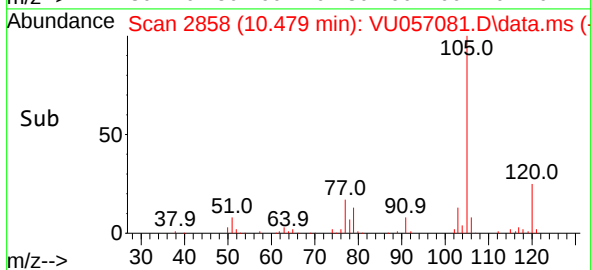
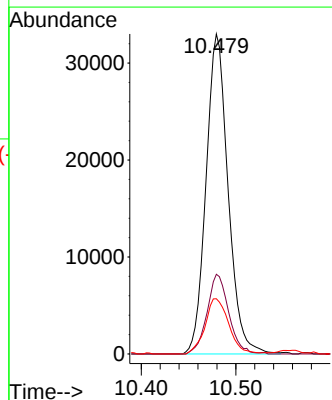
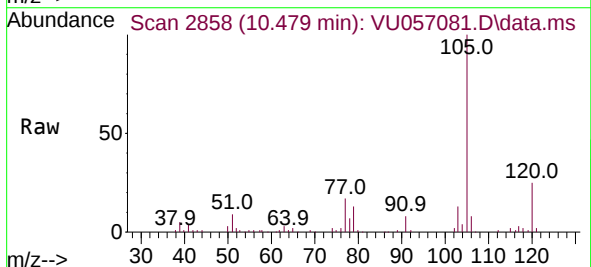
Instrument :
MSVOA_U
ClientSampleId :

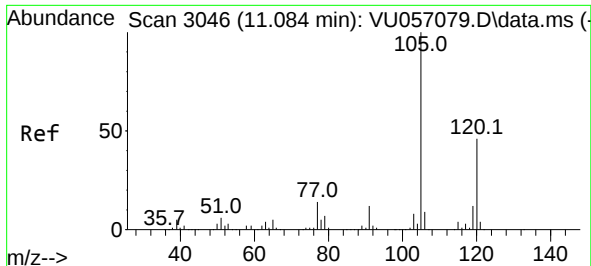
Tgt Ion:106 Resp: 11642
Ion Ratio Lower Upper
106 100
91 227.8 160.2 297.6



#60
Isopropylbenzene
Concen: 0.966 ug/L
RT: 10.479 min Scan# 2858
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

Tgt Ion:105 Resp: 53471
Ion Ratio Lower Upper
105 100
120 24.5 20.1 30.1
77 0.0 13.2 19.8#





#62

1,3,5-Trimethylbenzene

Concen: 0.351 ug/L

RT: 11.084 min Scan# 3046

Delta R.T. 0.000 min

Lab File: VU057081.D

Acq: 20 Dec 2023 10:51

Instrument :

MSVOA_U

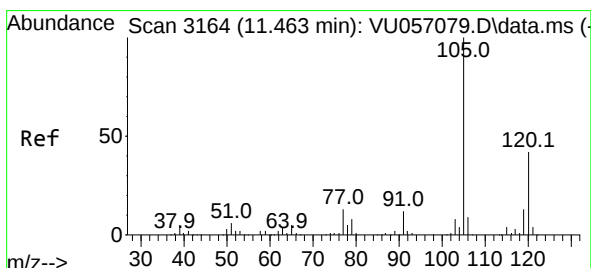
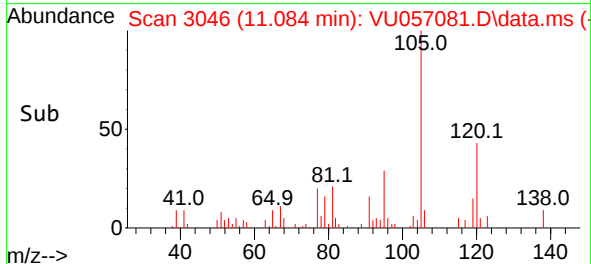
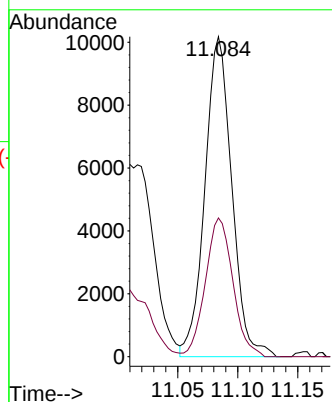
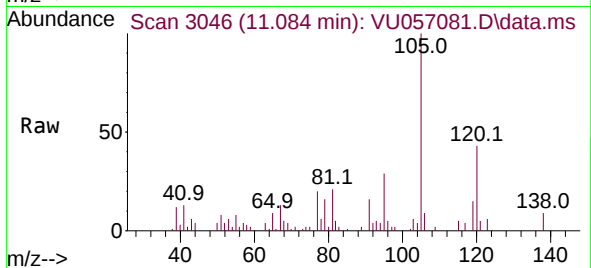
ClientSampleId :

Tgt Ion:105 Resp: 15862

Ion Ratio Lower Upper

105 100

120 44.4 36.8 55.2



#63

1,2,4-Trimethylbenzene

Concen: 2.492 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. 0.000 min

Lab File: VU057081.D

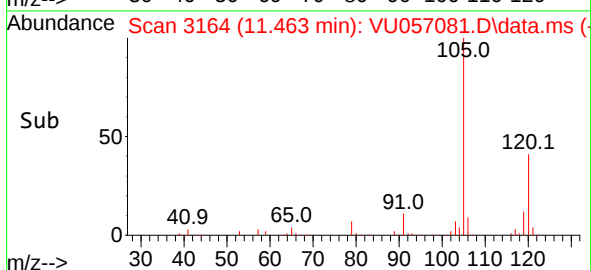
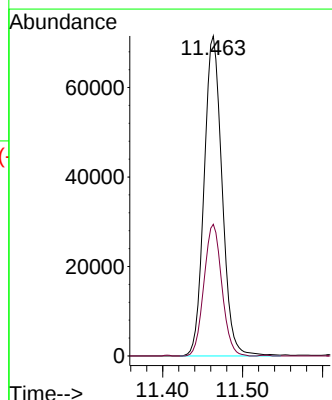
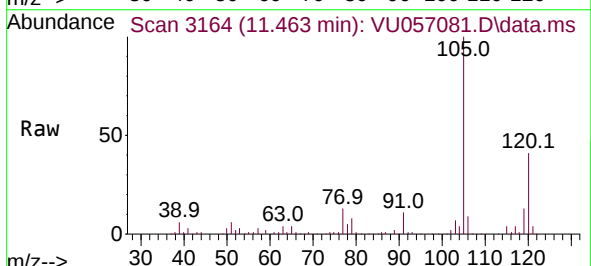
Acq: 20 Dec 2023 10:51

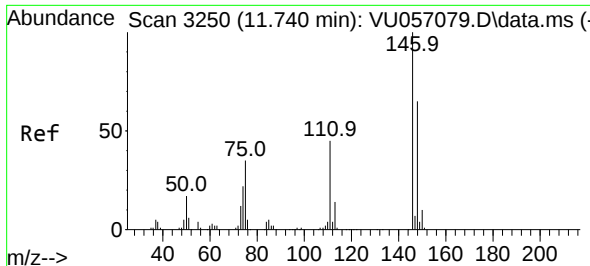
Tgt Ion:105 Resp: 111985

Ion Ratio Lower Upper

105 100

120 40.9 34.2 51.4

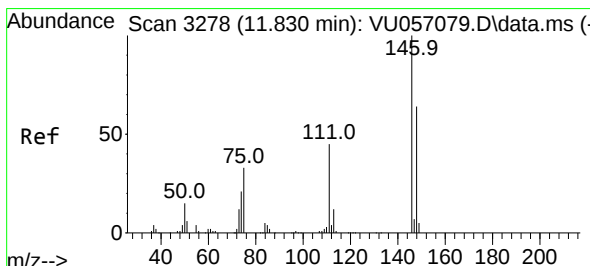
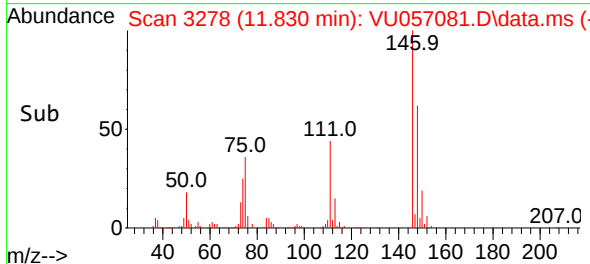
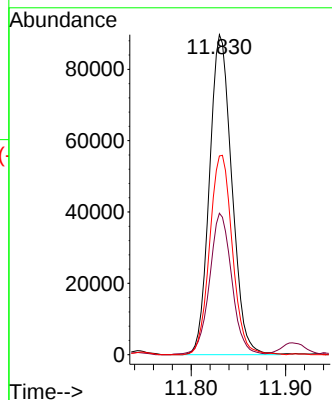
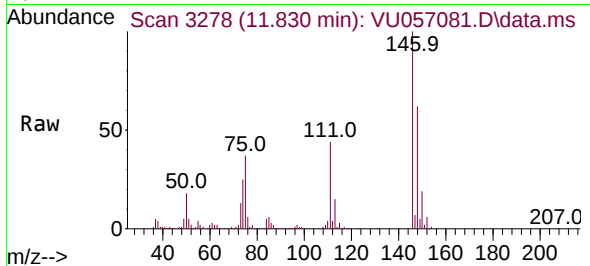




#64
1,3-Dichlorobenzene
Concen: 5.630 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. 0.090 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

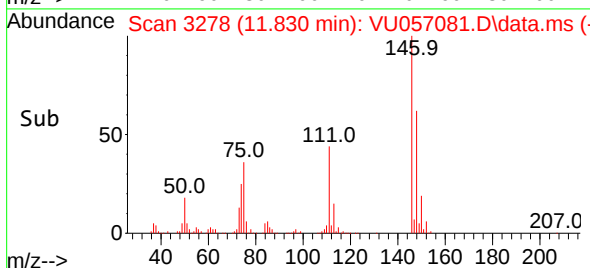
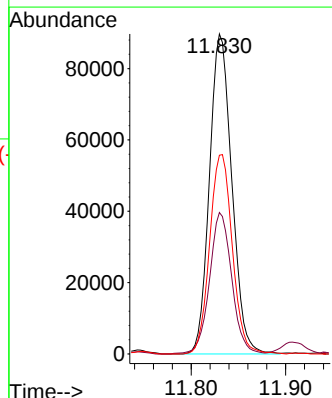
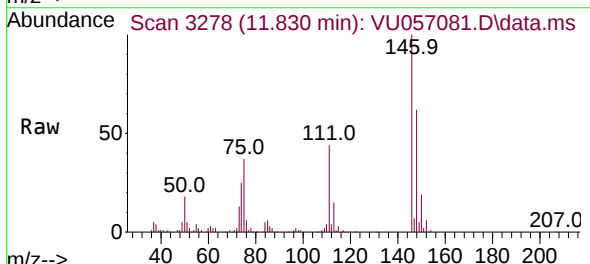
Instrument :
MSVOA_U
ClientSampleId :

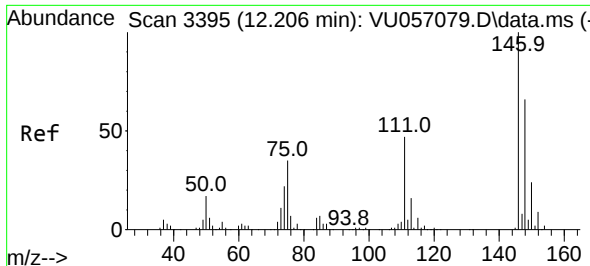
Tgt Ion:146 Resp: 147457
Ion Ratio Lower Upper
146 100
111 44.2 31.7 58.9
148 62.1 44.3 82.3



#65
1,4-Dichlorobenzene
Concen: 5.717 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. 0.000 min
Lab File: VU057081.D
Acq: 20 Dec 2023 10:51

Tgt Ion:146 Resp: 147457
Ion Ratio Lower Upper
146 100
111 44.2 31.2 58.0
148 62.1 45.6 84.8





#67

1,2-Dichlorobenzene

Concen: 0.153 ug/L

RT: 12.203 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU057081.D

Acq: 20 Dec 2023 10:51

Instrument :

MSVOA_U

ClientSampleId :

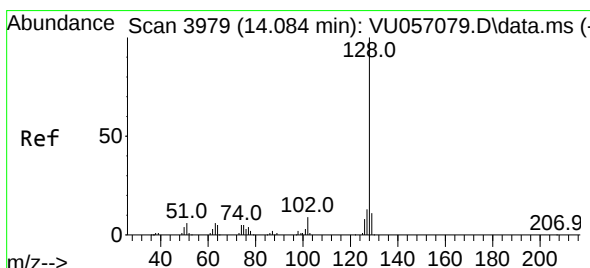
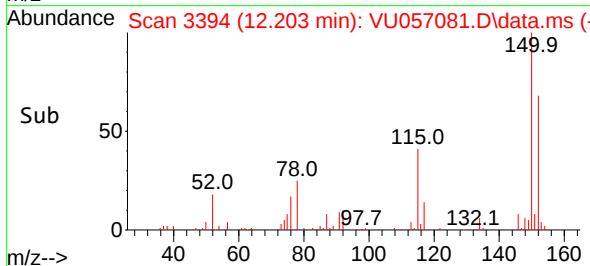
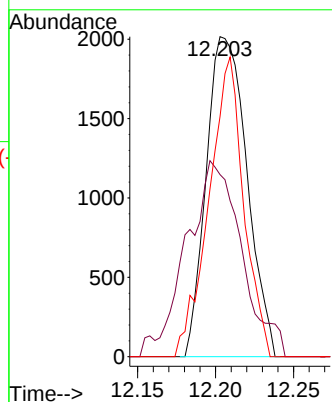
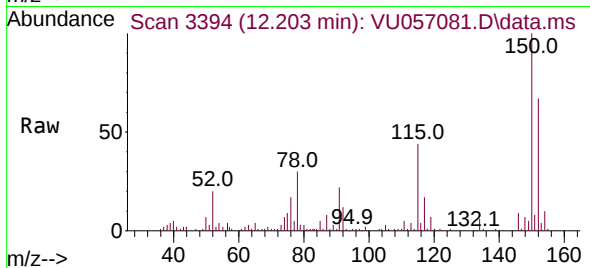
Tgt Ion:146 Resp: 3658

Ion Ratio Lower Upper

146 100

111 56.9 36.9 55.3#

148 75.0 53.0 79.4



#71

Naphthalene

Concen: 1.636 ug/L

RT: 14.084 min Scan# 3979

Delta R.T. 0.000 min

Lab File: VU057081.D

Acq: 20 Dec 2023 10:51

Tgt Ion:128 Resp: 37527

Ion Ratio Lower Upper

128 100

129 11.5 8.6 12.8

127 12.2 10.2 15.2

