

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071624\
 Data File : VU059977.D
 Acq On : 16 Jul 2024 16:20
 Operator : MD/SY
 Sample : P3217-22
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 17 02:31:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR061724WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jul 17 02:25:31 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	183743	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	184132	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	102530	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.589	65	50640	3.964	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.200%
7) Chloroethane-d5	1.904	69	44357	3.608	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.200%
11) 1,1-Dichloroethene-d2	2.557	65	21958	4.143	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.800%
20) 2-Butanone-d5	4.660	46	123426	46.898	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.800%
24) Chloroform-d	5.055	84	98381	3.751	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.000%
26) 1,2-Dichloroethane-d4	5.702	65	51810	4.101	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.000%
32) Benzene-d6	5.718	84	197991	3.907	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.200%
36) 1,2-Dichloropropane-d6	6.689	67	64285	4.140	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.800%
41) Toluene-d8	7.894	98	173442	3.682	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.600%
43) trans-1,3-Dichloroprop...	8.181	79	22862	4.702	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.000%
46) 2-Hexanone-d5	8.637	63	110101	54.496	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.000%
56) 1,1,2,2-Tetrachloroeth...	10.756	84	55731	4.344	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	75491	4.137	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.596	62	74195	4.008	ug/L	98
8) Chloroethane	1.927	64	5458	0.489	ug/L	100
13) Acetone	2.660	43	41206	24.136	ug/L	92
14) Carbon disulfide	2.779	76	27080	0.623	ug/L	98
15) Methyl Acetate	2.952	43	1264	0.281	ug/L #	51
16) Methylene chloride	3.036	84	3299	0.214	ug/L	82
18) trans-1,2-Dichloroethene	3.335	96	4526	0.334	ug/L	95
19) 1,1-Dichloroethane	3.850	63	5707	0.228	ug/L	96
21) 2-Butanone	4.747	43	20711	7.564	ug/L	92
22) cis-1,2-Dichloroethene	4.657	96	21585	1.445	ug/L	93
30) Cyclohexane	5.370	56	3128	0.167	ug/L #	86
33) Benzene	5.766	78	185727	3.322	ug/L	100
35) Methylcyclohexane	6.753	83	28409	1.318	ug/L	91
42) Toluene	7.965	91	211147	3.567	ug/L	97
51) Chlorobenzene	9.447	112	48045	1.280	ug/L	91
52) Ethylbenzene	9.570	91	16761	0.276	ug/L	97
53) m,p-Xylene	9.692	106	32258	1.383	ug/L	100
54) o-Xylene	10.100	106	51871	2.343	ug/L	96
55) Styrene	10.097	104	3893	0.103	ug/L #	1

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

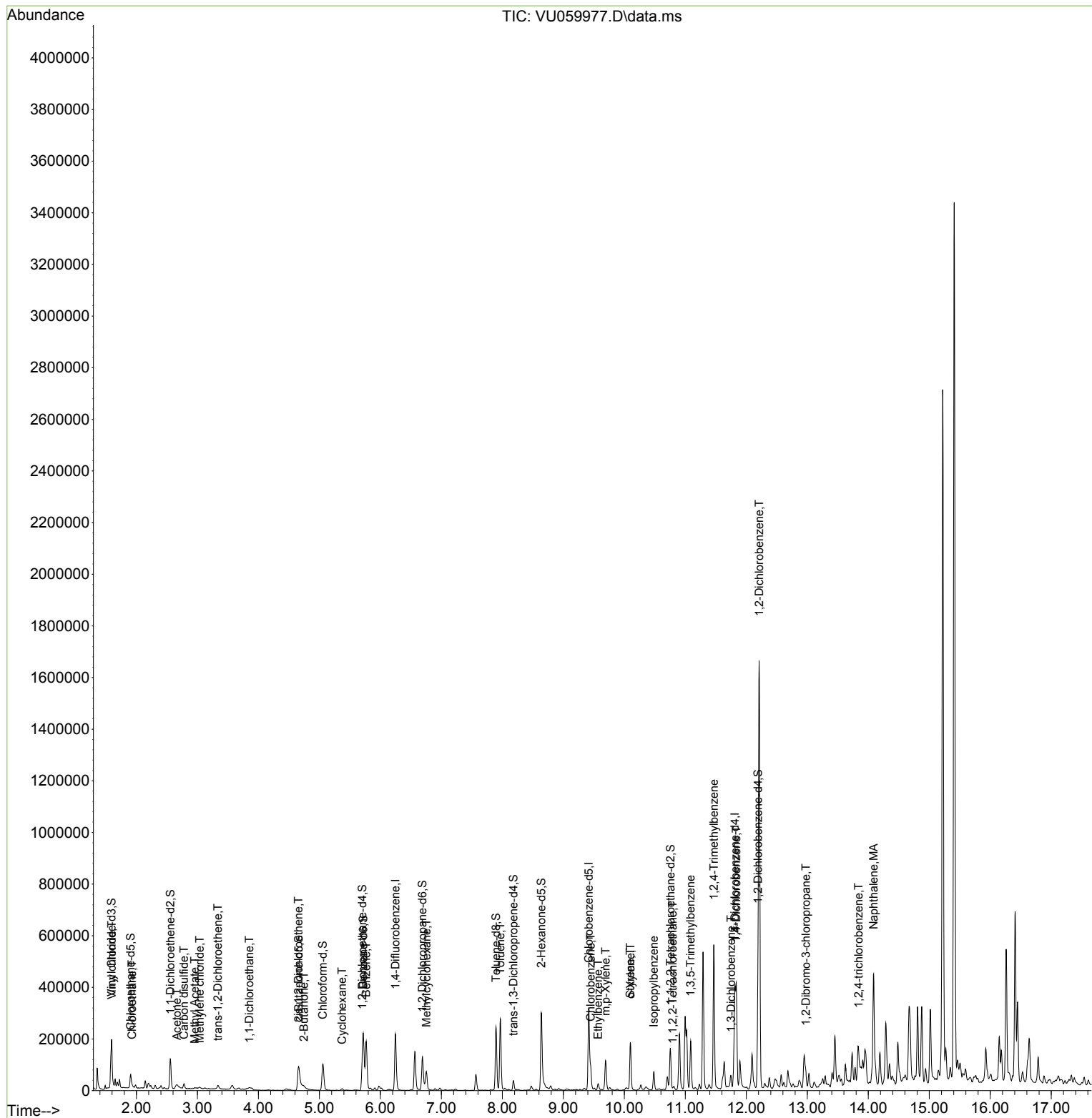
57) 1,1,2,2-Tetrachloroethane	10.791	83	1597	0.123	ug/L #	25
60) Isopropylbenzene	10.483	105	46051	0.727	ug/L	98
62) 1,3,5-Trimethylbenzene	11.087	105	98442	1.962	ug/L	98
63) 1,2,4-Trimethylbenzene	11.467	105	305828	6.375	ug/L	97
64) 1,3-Dichlorobenzene	11.750	146	15688	0.487	ug/L	95
65) 1,4-Dichlorobenzene	11.836	146	162882	4.912	ug/L	98
67) 1,2-Dichlorobenzene	12.209	146	663403	21.884	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.975	75	197	0.107	ug/L #	6
70) 1,2,4-trichlorobenzene	13.843	180	4092	0.224	ug/L #	28
71) Naphthalene	14.087	128	358462	13.691	ug/L	97

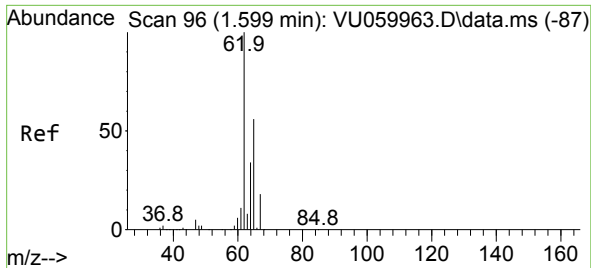
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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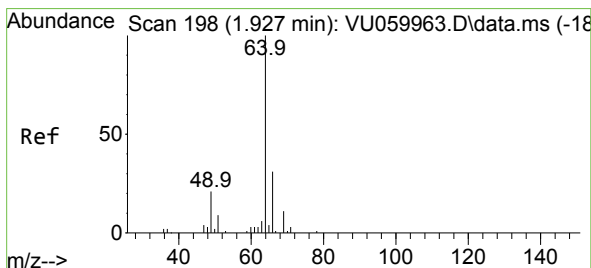
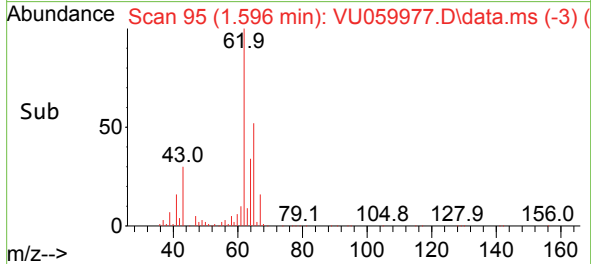
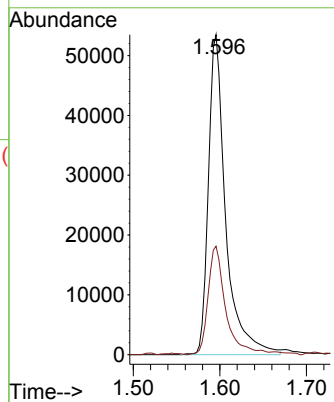
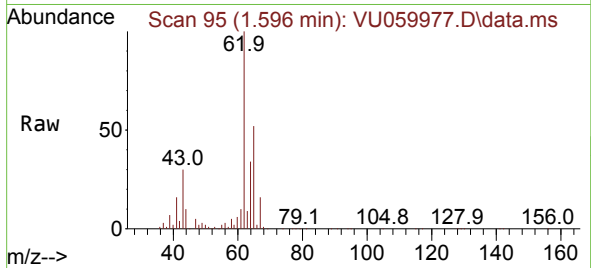




#5
 Vinyl chloride
 Concen: 4.008 ug/L
 RT: 1.596 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU059977.D
 Acq: 16 Jul 2024 16:20

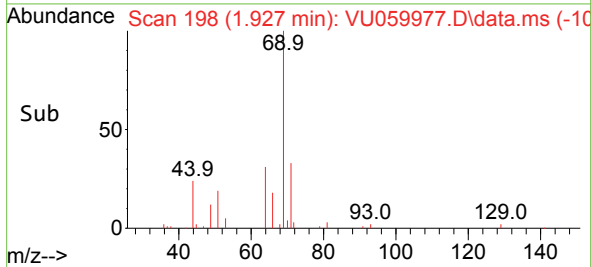
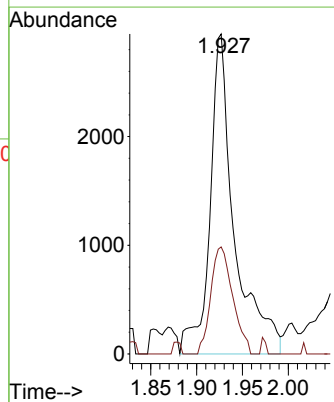
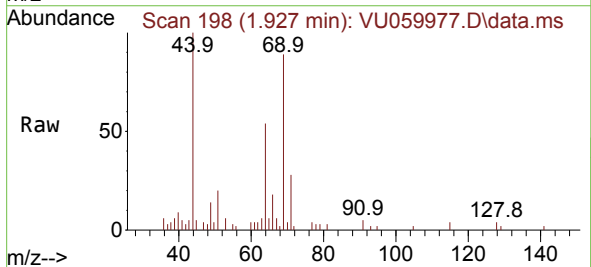
Instrument :
 MSVOA_U
 ClientSampleId :

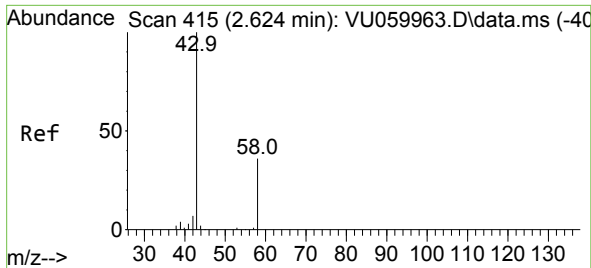
Tgt Ion: 62 Resp: 74195
 Ion Ratio Lower Upper
 62 100
 64 33.9 23.1 42.9



#8
 Chloroethane
 Concen: 0.489 ug/L
 RT: 1.927 min Scan# 198
 Delta R.T. 0.000 min
 Lab File: VU059977.D
 Acq: 16 Jul 2024 16:20

Tgt Ion: 64 Resp: 5458
 Ion Ratio Lower Upper
 64 100
 66 33.5 23.2 43.2





#13

Acetone

Concen: 24.136 ug/L

RT: 2.660 min Scan# 41

Delta R.T. 0.036 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

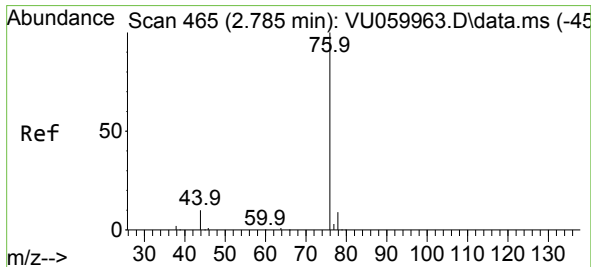
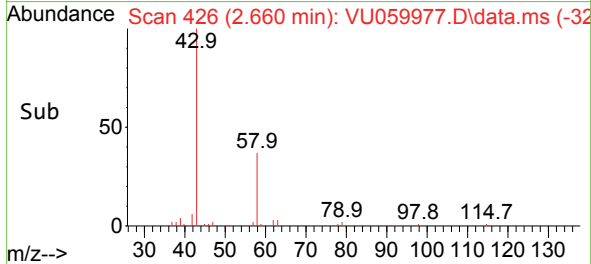
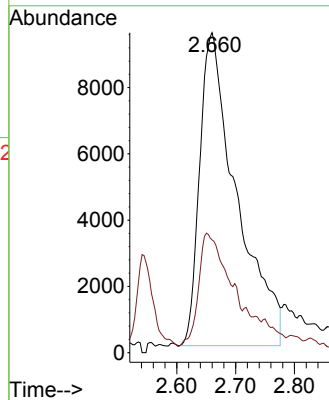
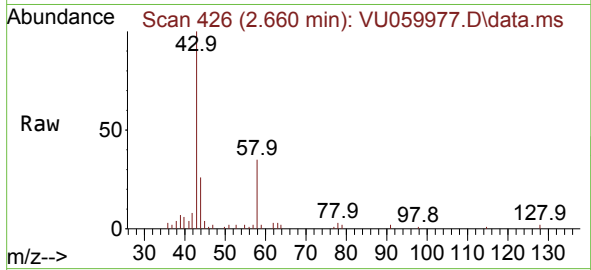
ClientSampleId :

Tgt Ion: 43 Resp: 41206

Ion Ratio Lower Upper

43 100

58 29.1 0.0 68.0



#14

Carbon disulfide

Concen: 0.623 ug/L

RT: 2.779 min Scan# 463

Delta R.T. -0.006 min

Lab File: VU059977.D

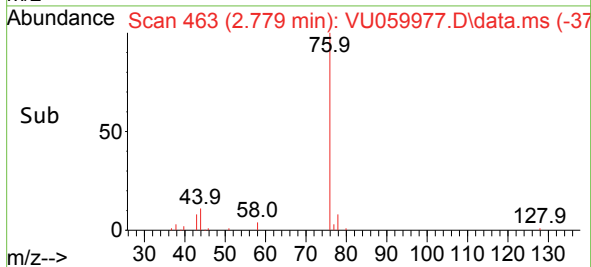
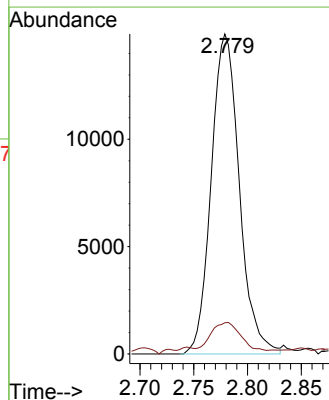
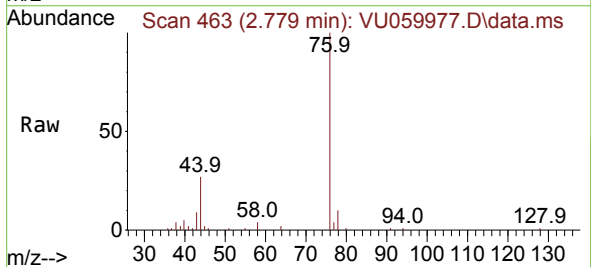
Acq: 16 Jul 2024 16:20

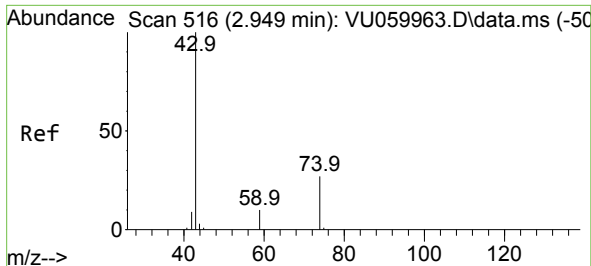
Tgt Ion: 76 Resp: 27080

Ion Ratio Lower Upper

76 100

78 9.8 7.3 10.9

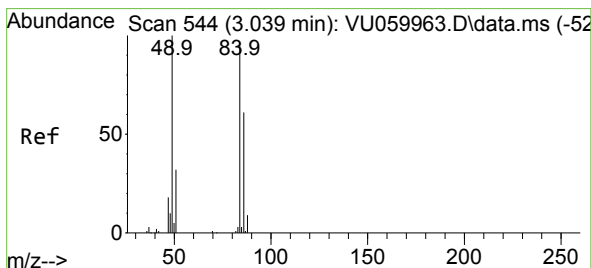
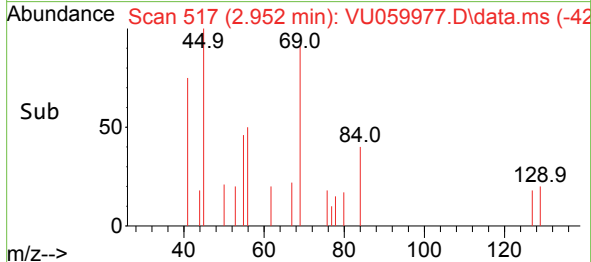
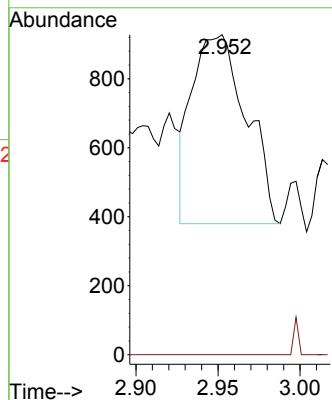
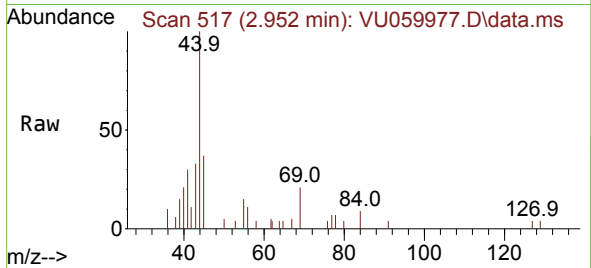




#15
Methyl Acetate
Concen: 0.281 ug/L
RT: 2.952 min Scan# 516
Delta R.T. 0.003 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

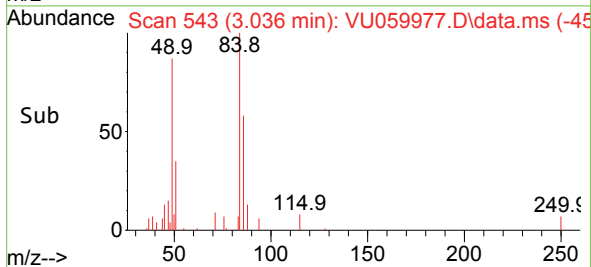
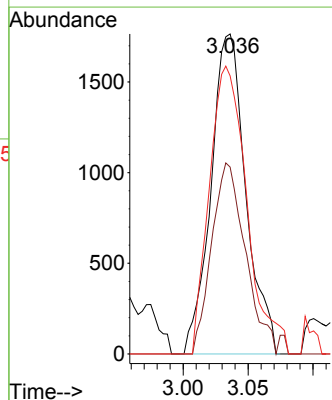
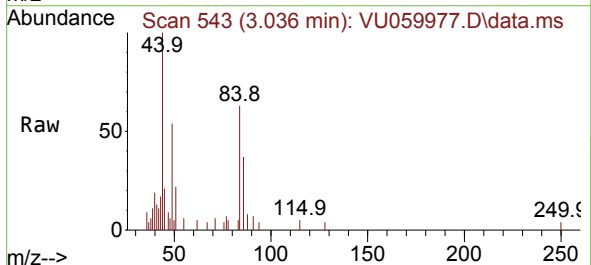
Instrument :
MSVOA_U
ClientSampleId :

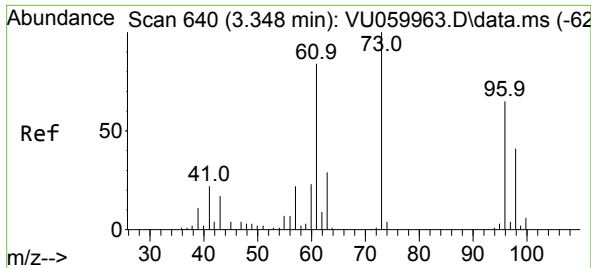
Tgt Ion: 43 Resp: 1264
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#16
Methylene chloride
Concen: 0.214 ug/L
RT: 3.036 min Scan# 543
Delta R.T. -0.003 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

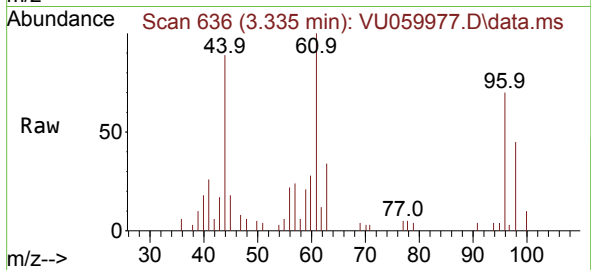
Tgt Ion: 84 Resp: 3299
Ion Ratio Lower Upper
84 100
86 58.4 42.1 78.1
49 86.9 80.6 149.8



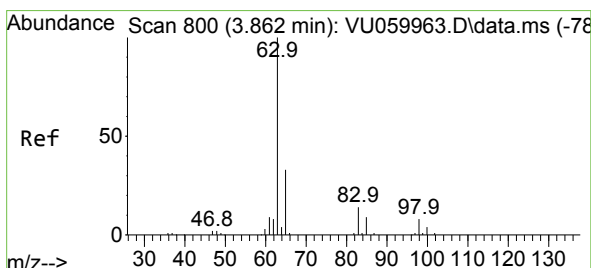
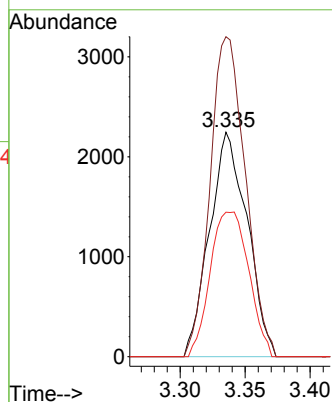
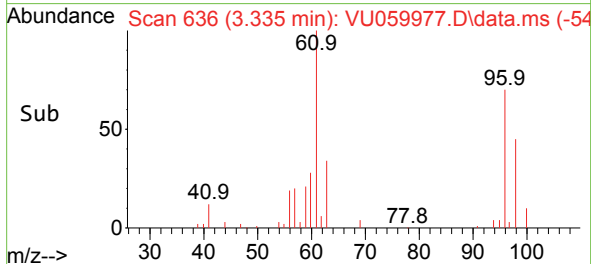


#18
trans-1,2-Dichloroethene
Concen: 0.334 ug/L
RT: 3.335 min Scan# 61
Delta R.T. -0.013 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

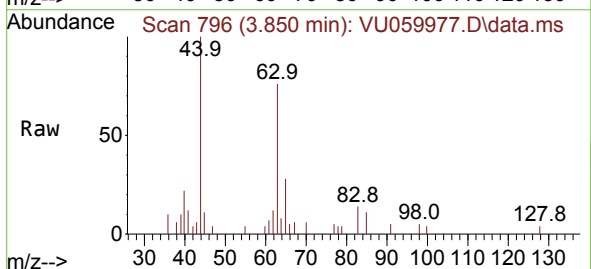
Instrument :
MSVOA_U
ClientSampleId :



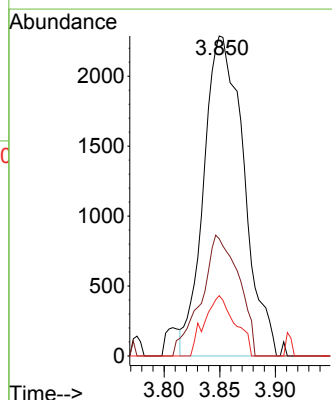
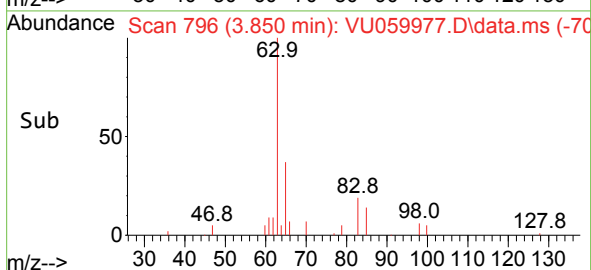
Tgt Ion: 96 Resp: 4526
Ion Ratio Lower Upper
96 100
61 136.5 101.8 189.0
98 61.6 43.3 80.5

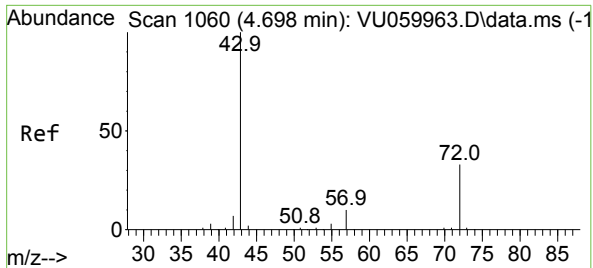


#19
1,1-Dichloroethane
Concen: 0.228 ug/L
RT: 3.850 min Scan# 796
Delta R.T. -0.013 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20



Tgt Ion: 63 Resp: 5707
Ion Ratio Lower Upper
63 100
65 33.0 21.8 40.6
83 17.0 9.9 18.5

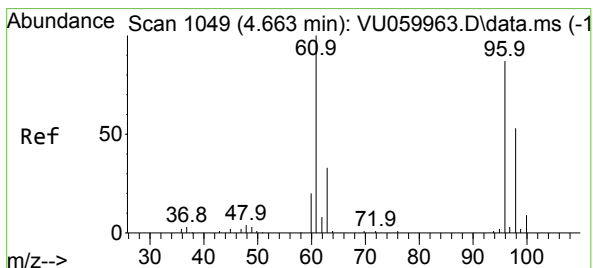
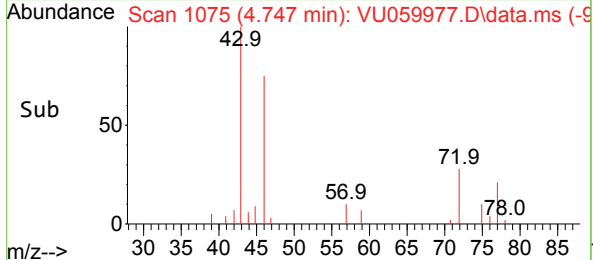
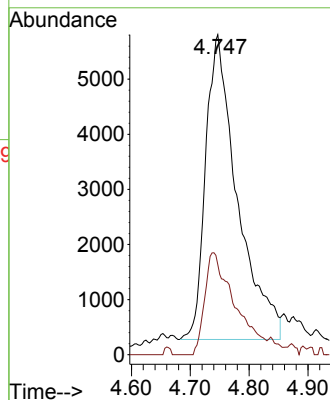
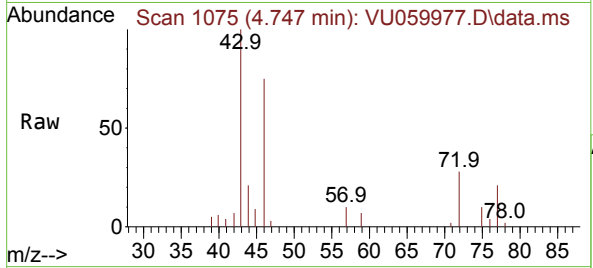




#21
2-Butanone
Concen: 7.564 ug/L
RT: 4.747 min Scan# 1075
Delta R.T. 0.048 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

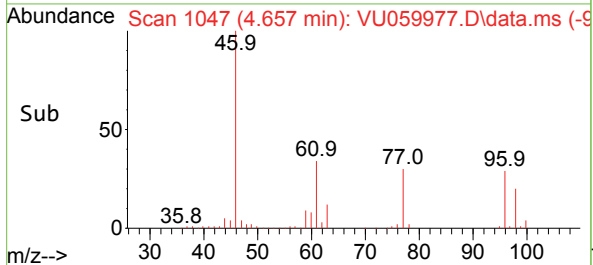
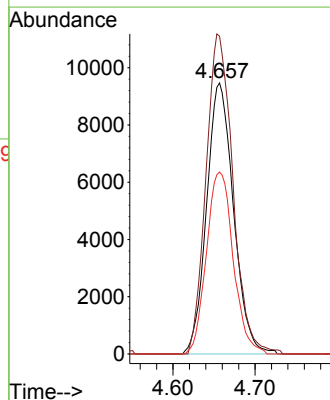
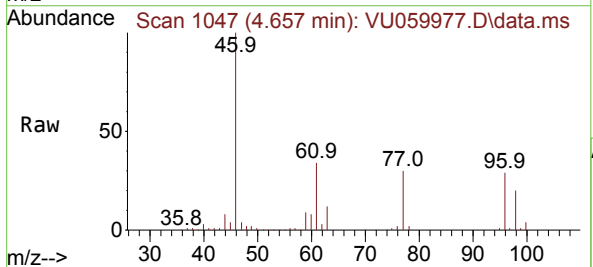
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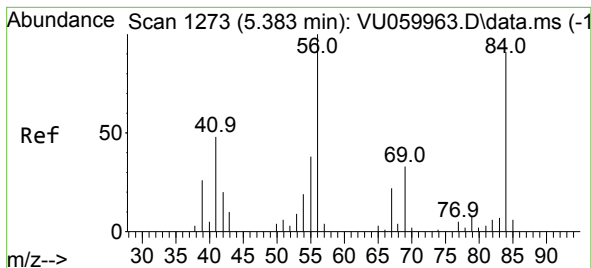
Tgt Ion: 43 Resp: 20711
Ion Ratio Lower Upper
43 100
72 32.0 13.8 41.4



#22
cis-1,2-Dichloroethene
Concen: 1.445 ug/L
RT: 4.657 min Scan# 1047
Delta R.T. -0.006 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

Tgt Ion: 96 Resp: 21585
Ion Ratio Lower Upper
96 100
61 117.2 87.4 162.2
98 67.1 42.3 78.5





#30

Cyclohexane

Concen: 0.167 ug/L

RT: 5.370 min Scan# 1269

Delta R.T. -0.013 min

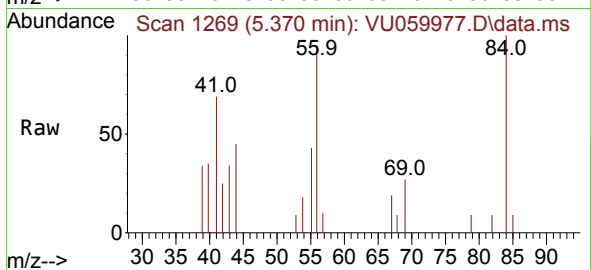
Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

ClientSampleId :



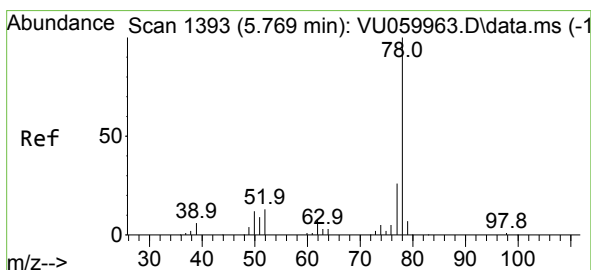
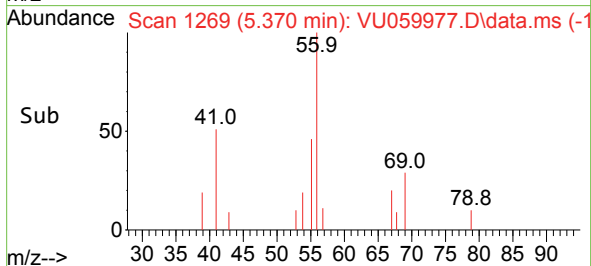
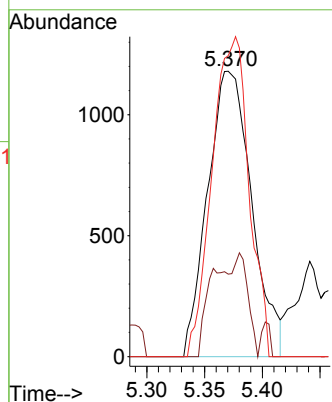
Tgt Ion: 56 Resp: 3128

Ion Ratio Lower Upper

56 100

69 13.2 24.8 37.2#

84 93.8 69.8 104.8



#33

Benzene

Concen: 3.322 ug/L

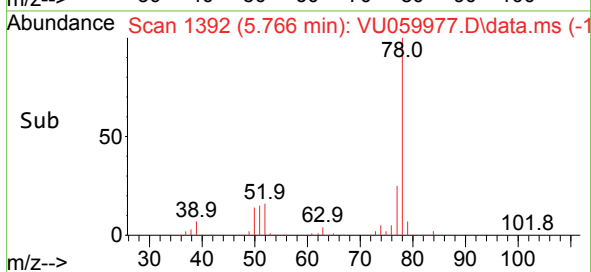
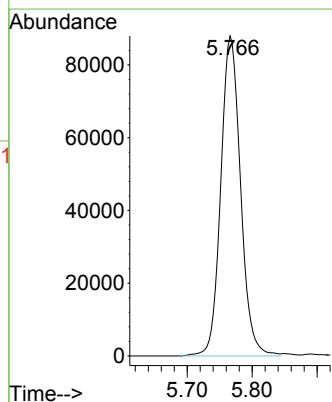
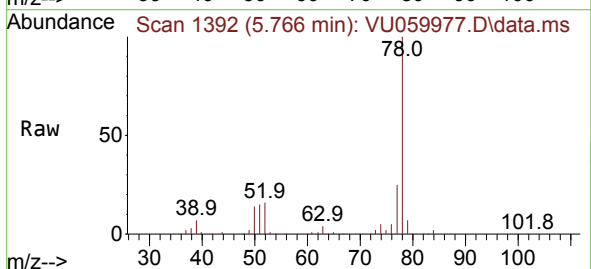
RT: 5.766 min Scan# 1392

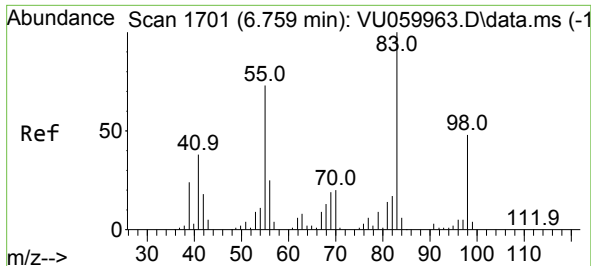
Delta R.T. -0.003 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Tgt Ion: 78 Resp: 185727

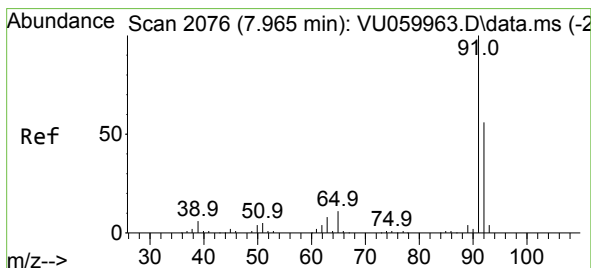
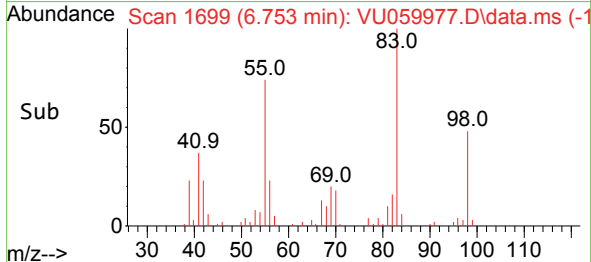
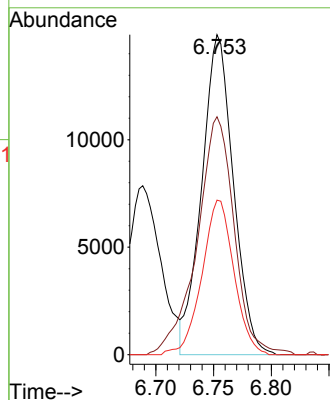
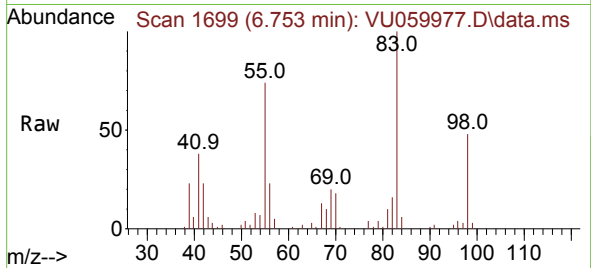




#35
Methylcyclohexane
Concen: 1.318 ug/L
RT: 6.753 min Scan# 1
Delta R.T. -0.006 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

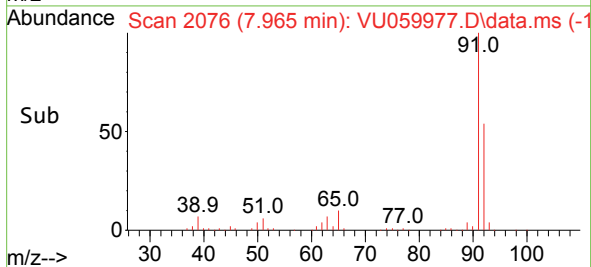
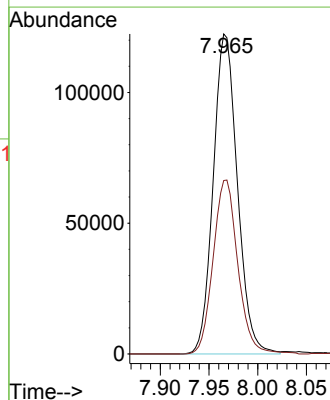
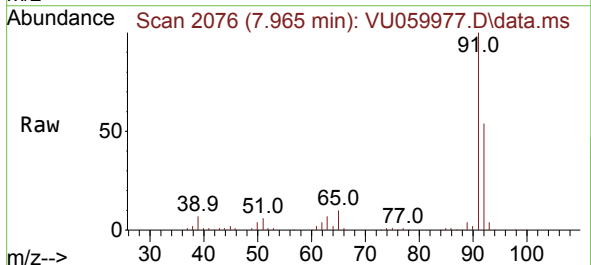
Instrument :
MSVOA_U
ClientSampleId :

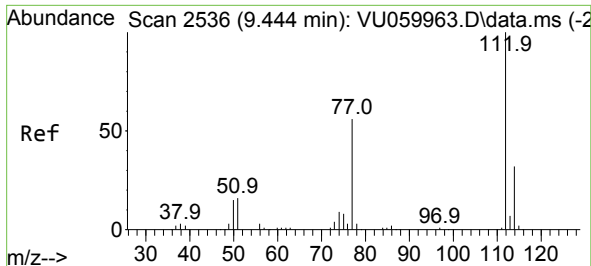
Tgt Ion: 83 Resp: 28409
Ion Ratio Lower Upper
83 100
55 86.8 62.7 94.1
98 48.8 35.4 53.0



#42
Toluene
Concen: 3.567 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.000 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

Tgt Ion: 91 Resp: 211147
Ion Ratio Lower Upper
91 100
92 54.2 39.7 73.7

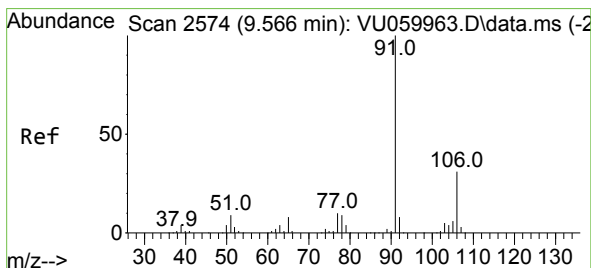
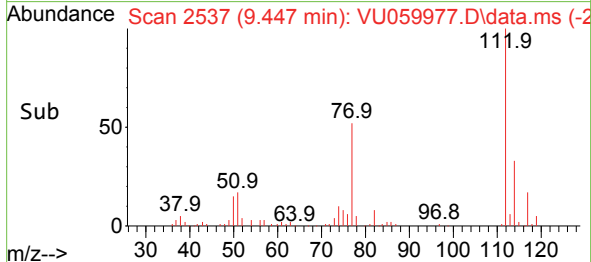
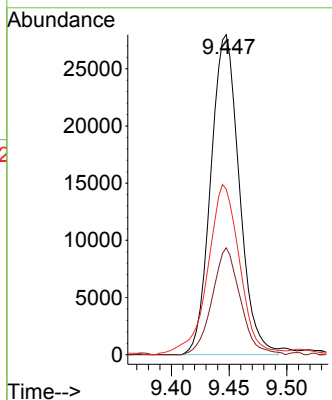
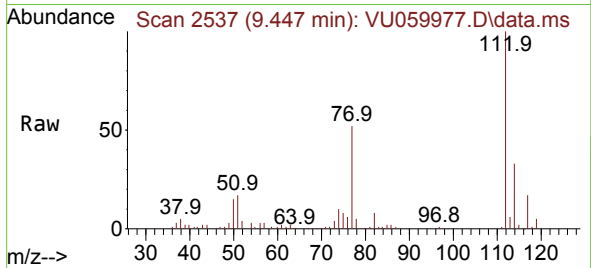




#51
Chlorobenzene
Concen: 1.280 ug/L
RT: 9.447 min Scan# 2536
Delta R.T. 0.003 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

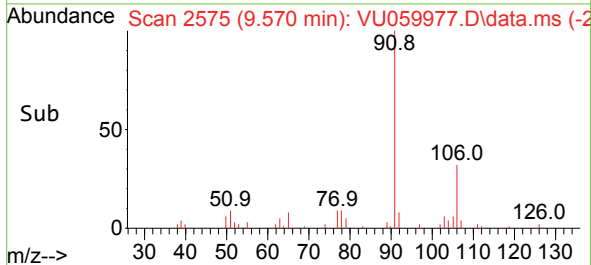
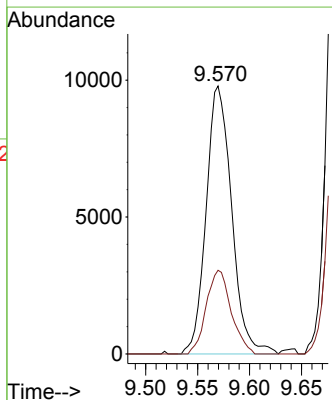
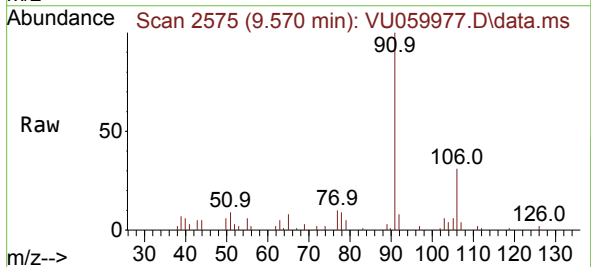
Instrument :
MSVOA_U
ClientSampleId :

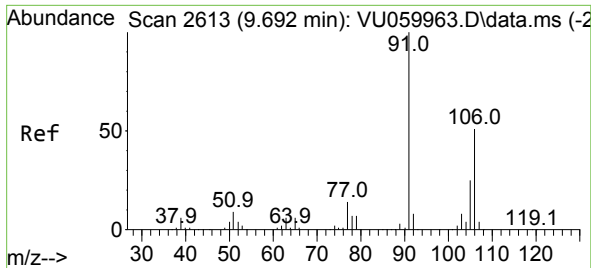
Tgt Ion:	112	Resp:	48045
Ion Ratio	Lower	Upper	
112	100		
114	33.4	22.4	41.6
77	51.7	49.1	73.7



#52
Ethylbenzene
Concen: 0.276 ug/L
RT: 9.570 min Scan# 2575
Delta R.T. 0.003 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

Tgt Ion:	91	Resp:	16761
Ion Ratio	Lower	Upper	
91	100		
106	31.2	20.9	38.7

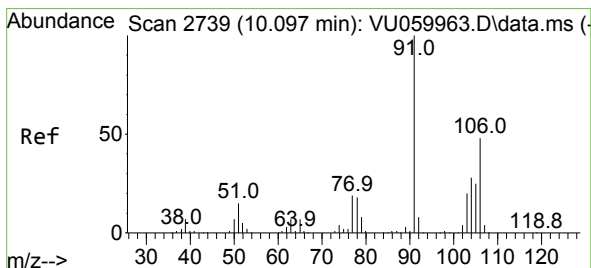
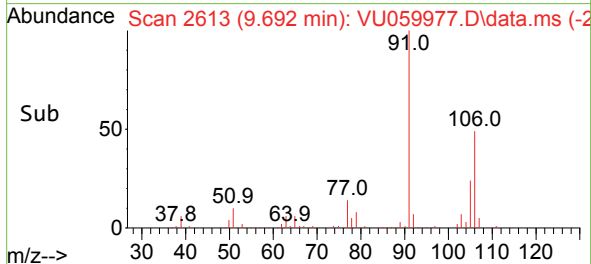
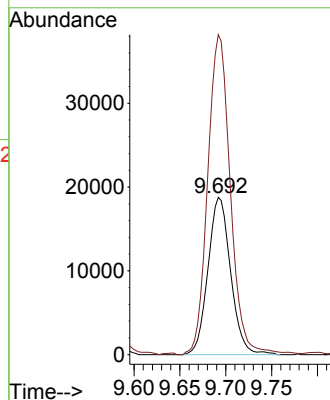
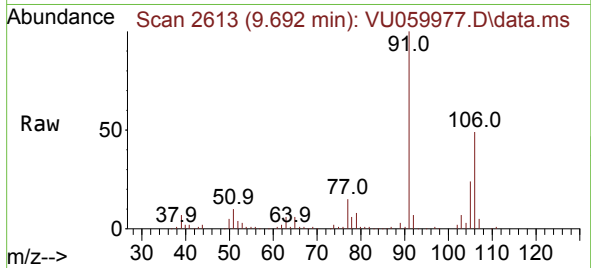




#53
m,p-Xylene
Concen: 1.383 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.000 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

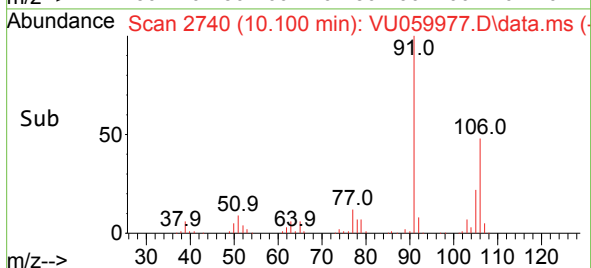
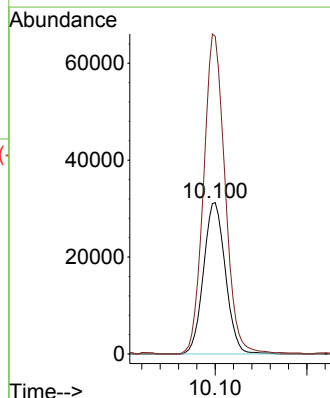
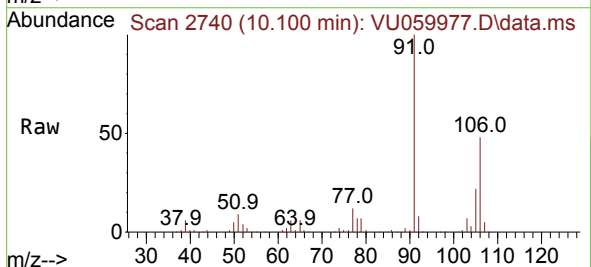
Instrument :
MSVOA_U
ClientSampleId :

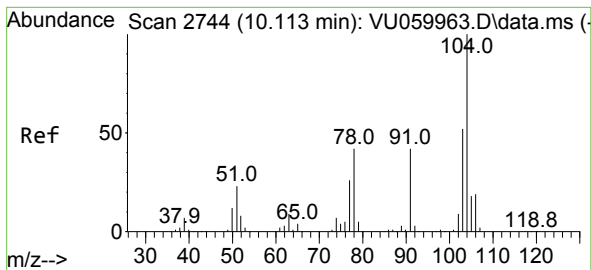
Tgt Ion:106 Resp: 32258
Ion Ratio Lower Upper
106 100
91 203.5 142.0 263.8



#54
o-Xylene
Concen: 2.343 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. 0.003 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

Tgt Ion:106 Resp: 51871
Ion Ratio Lower Upper
106 100
91 209.9 151.6 281.6





#55

Styrene

Concen: 0.103 ug/L

RT: 10.097 min Scan# 21

Delta R.T. -0.016 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

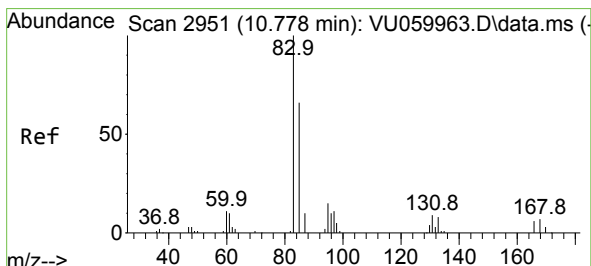
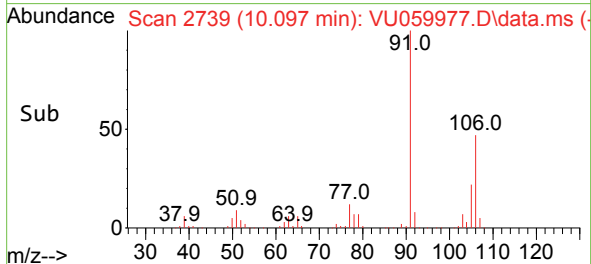
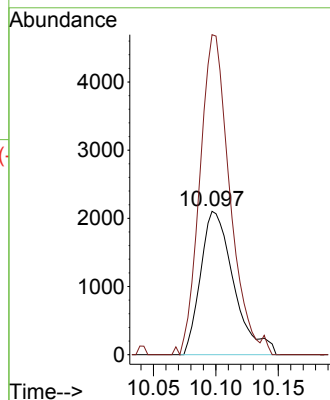
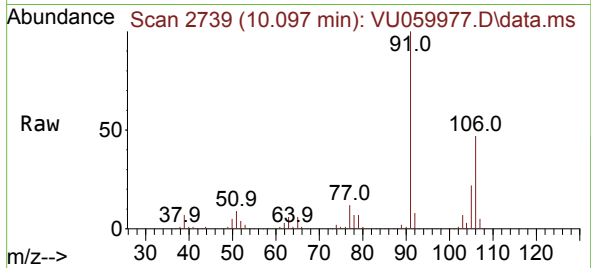
ClientSampleId :

Tgt Ion:104 Resp: 3893

Ion Ratio Lower Upper

104 100

78 223.2 32.3 60.1#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.123 ug/L

RT: 10.791 min Scan# 2955

Delta R.T. 0.013 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

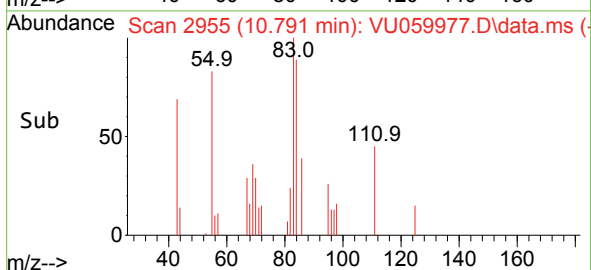
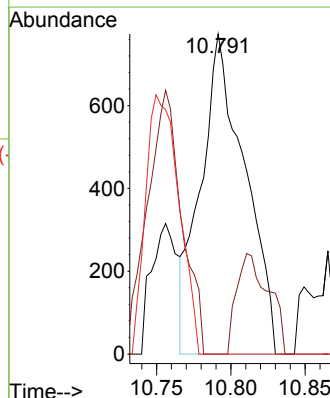
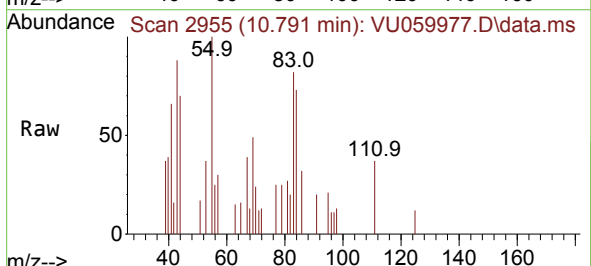
Tgt Ion: 83 Resp: 1597

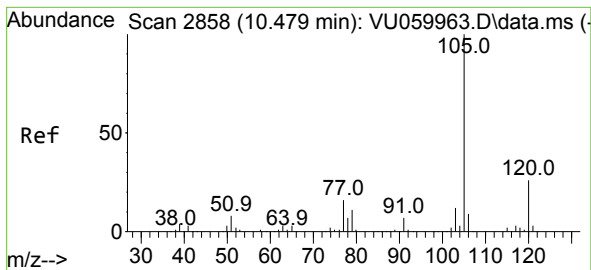
Ion Ratio Lower Upper

83 100

85 0.0 44.7 82.9#

131 0.0 6.9 10.3#





#60

Isopropylbenzene

Concen: 0.727 ug/L

RT: 10.483 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU059977.D

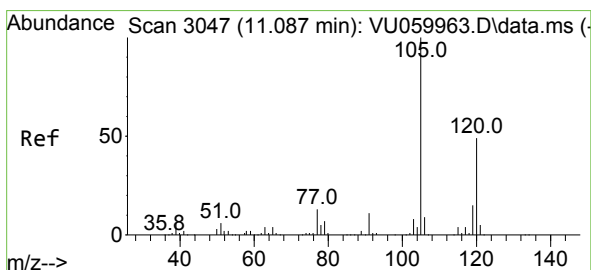
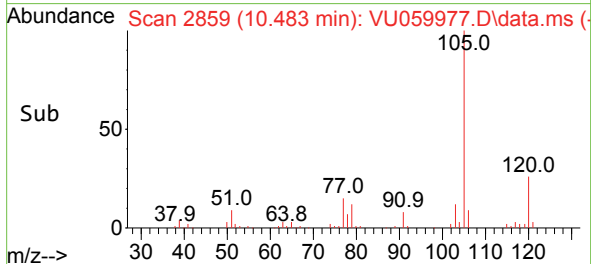
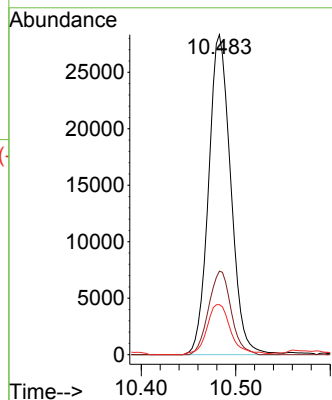
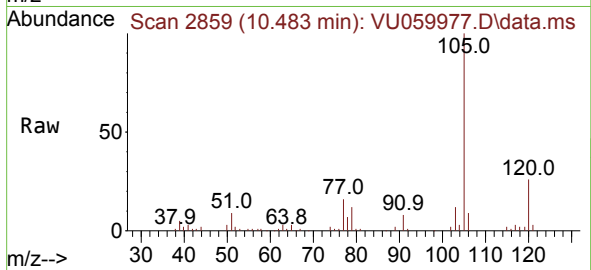
Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:105	Resp:	46051
Ion Ratio	Lower	Upper
105	100	
120	26.6	20.6 31.0
77	16.9	12.8 19.2



#62

1,3,5-Trimethylbenzene

Concen: 1.962 ug/L

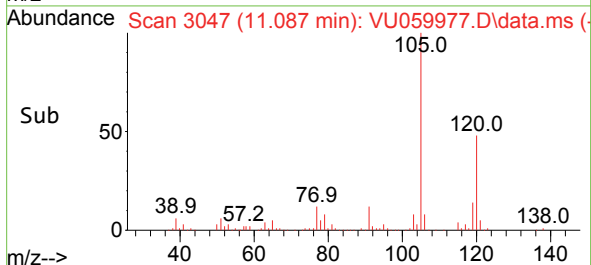
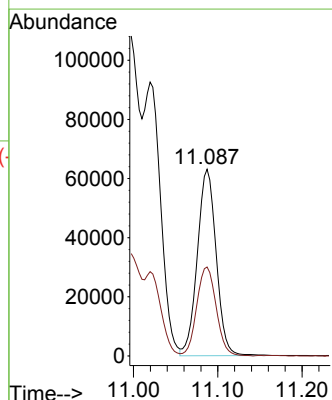
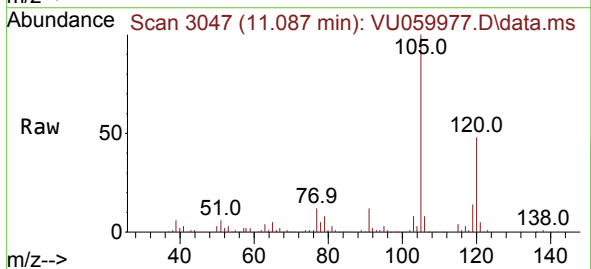
RT: 11.087 min Scan# 3047

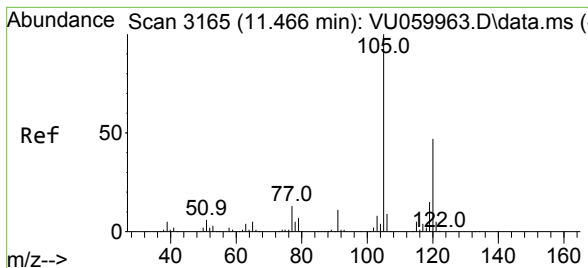
Delta R.T. 0.000 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Tgt Ion:105	Resp:	98442
Ion Ratio	Lower	Upper
105	100	
120	49.1	38.2 57.4





#63

1,2,4-Trimethylbenzene

Concen: 6.375 ug/L

RT: 11.467 min Scan# 3165

Delta R.T. 0.000 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

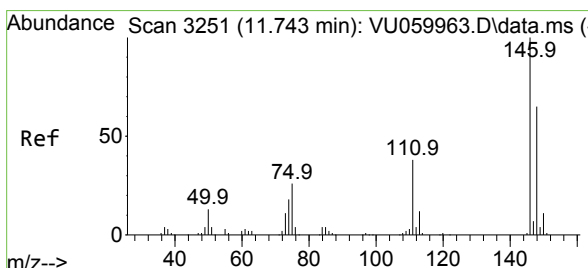
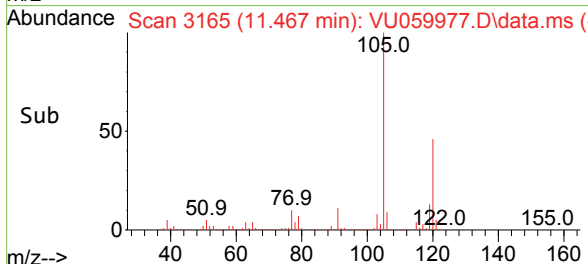
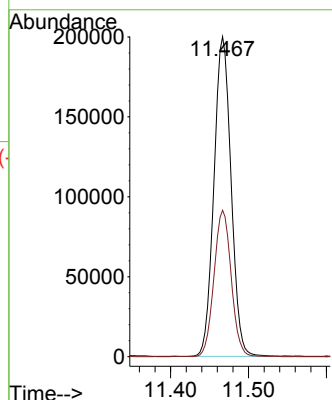
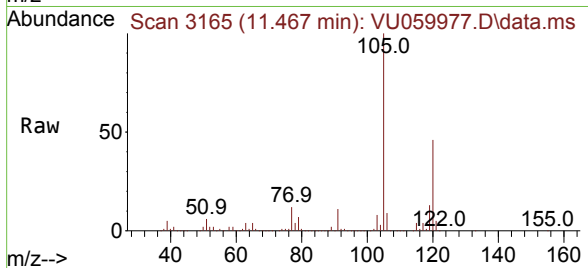
ClientSampleId :

Tgt Ion:105 Resp: 305828

Ion Ratio Lower Upper

105 100

120 46.0 35.4 53.0



#64

1,3-Dichlorobenzene

Concen: 0.487 ug/L

RT: 11.750 min Scan# 3253

Delta R.T. 0.007 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

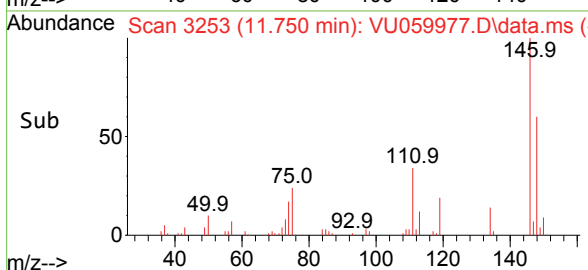
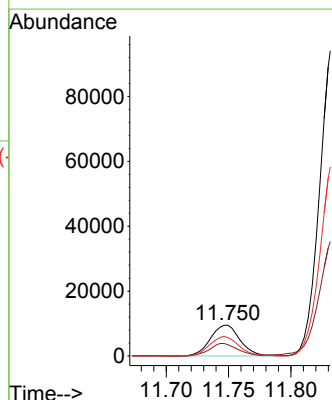
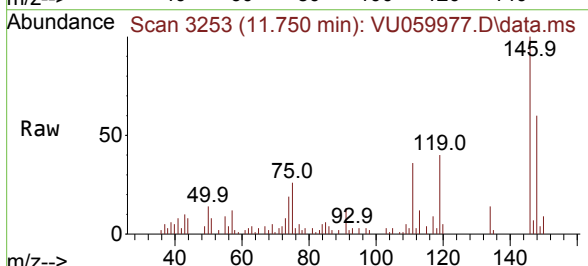
Tgt Ion:146 Resp: 15688

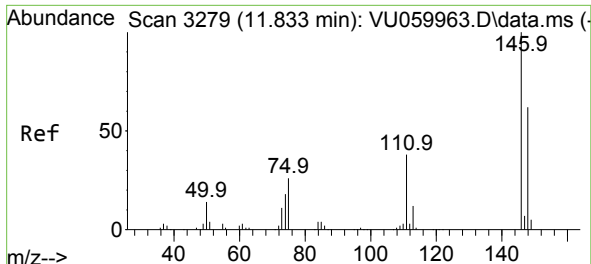
Ion Ratio Lower Upper

146 100

111 36.2 27.4 51.0

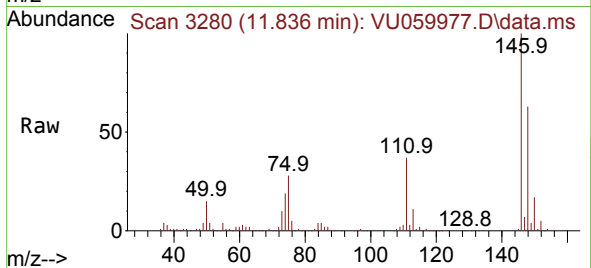
148 60.0 45.0 83.6



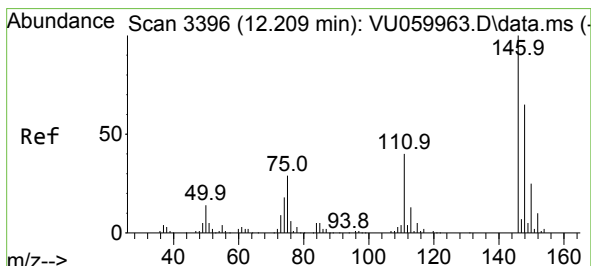
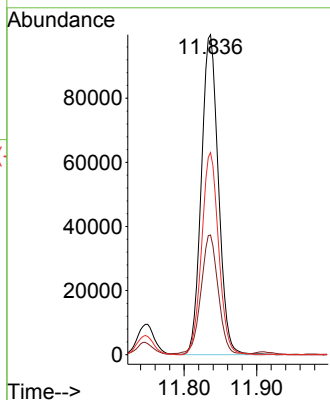
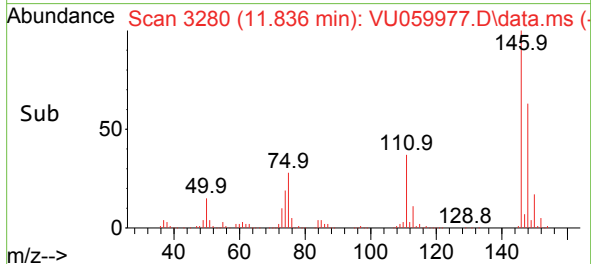


#65
1,4-Dichlorobenzene
Concen: 4.912 ug/L
RT: 11.836 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

Instrument :
MSVOA_U
ClientSampleId :

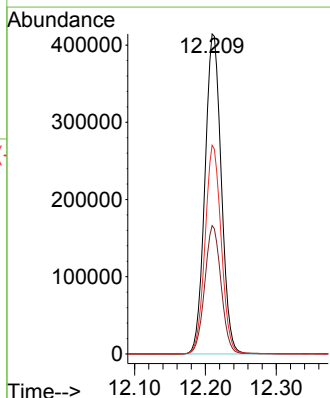
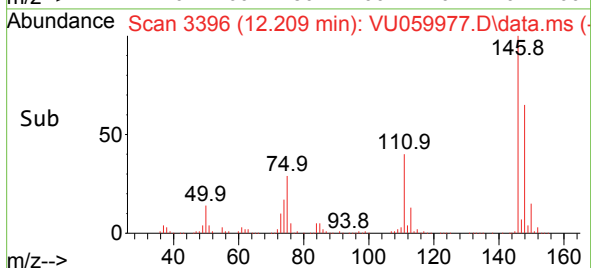
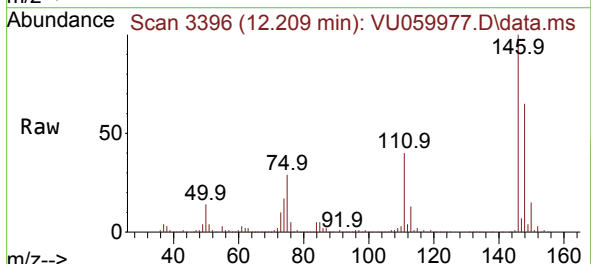


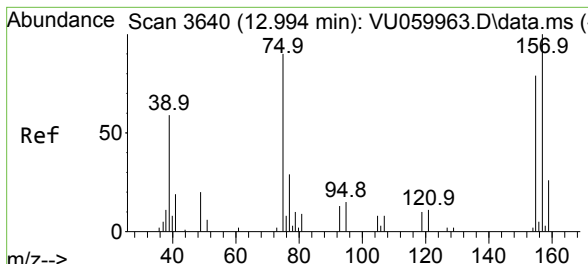
Tgt Ion:146 Resp: 162882
Ion Ratio Lower Upper
146 100
111 37.4 26.9 50.1
148 63.2 45.3 84.1



#67
1,2-Dichlorobenzene
Concen: 21.884 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. 0.000 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

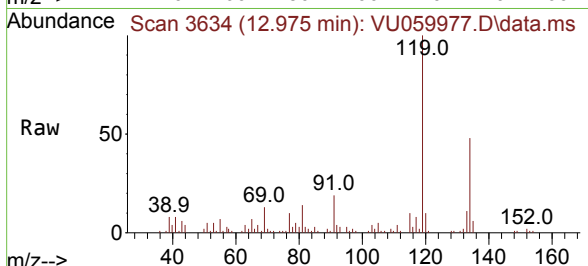
Tgt Ion:146 Resp: 663403
Ion Ratio Lower Upper
146 100
111 40.1 33.4 50.0
148 65.2 49.7 74.5



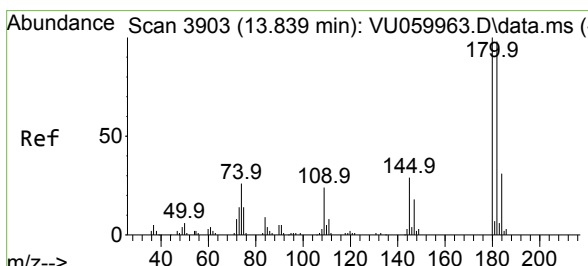
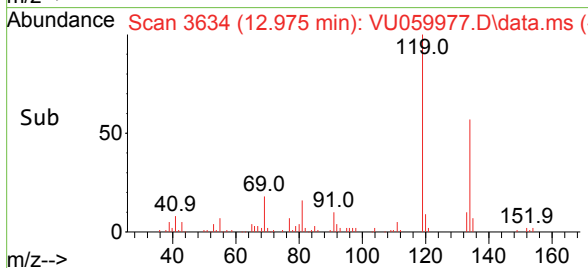
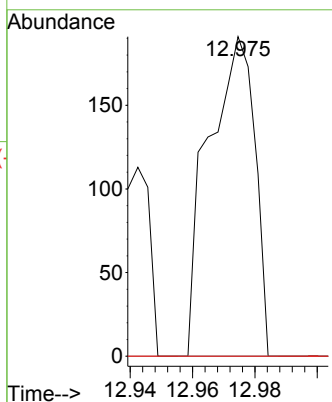


#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.107 ug/L
 RT: 12.975 min Scan# 3634
 Delta R.T. -0.019 min
 Lab File: VU059977.D
 Acq: 16 Jul 2024 16:20

Instrument :
 MSVOA_U
 ClientSampleId :

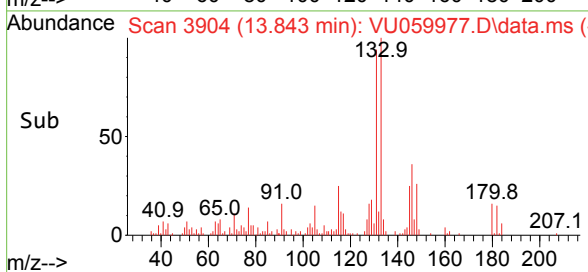
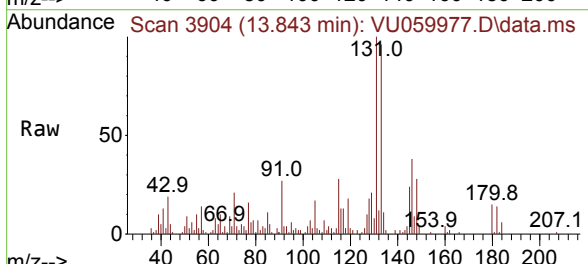
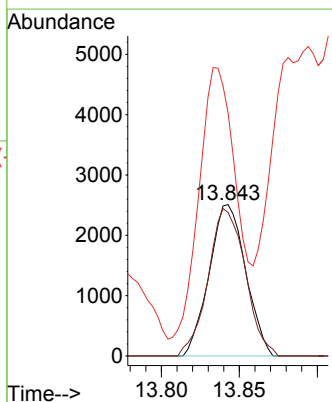


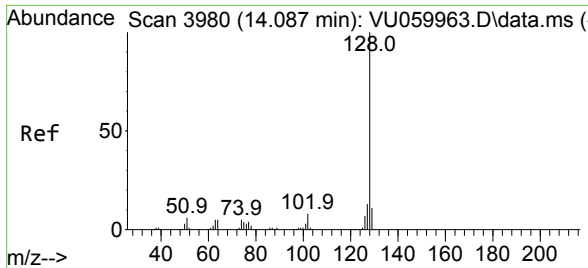
Tgt Ion: 75 Resp: 197
 Ion Ratio Lower Upper
 75 100
 155 0.0 58.2 87.2#
 157 0.0 80.0 120.0#



#70
 1,2,4-trichlorobenzene
 Concen: 0.224 ug/L
 RT: 13.843 min Scan# 3904
 Delta R.T. 0.003 min
 Lab File: VU059977.D
 Acq: 16 Jul 2024 16:20

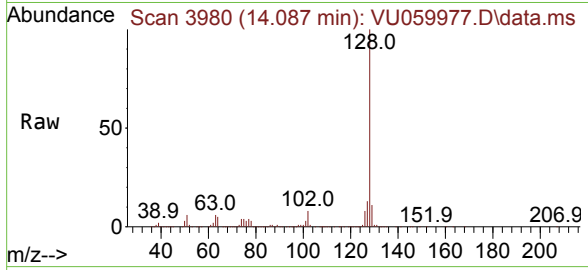
Tgt Ion: 180 Resp: 4092
 Ion Ratio Lower Upper
 180 100
 182 98.8 74.9 112.3
 145 182.6 23.9 35.9#





#71
 Naphthalene
 Concen: 13.691 ug/L
 RT: 14.087 min Scan# 3980
 Delta R.T. 0.000 min
 Lab File: VU059977.D
 Acq: 16 Jul 2024 16:20

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:128 Resp: 358462

Ion	Ratio	Lower	Upper
128	100		
129	12.1	8.2	12.4
127	13.1	10.2	15.4

