

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U071224\
 Data File : VU059928.D
 Acq On : 12 Jul 2024 17:46
 Operator : MD/SY
 Sample : P3217-14
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 13 03:59:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR061724WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Jul 13 03:52:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	198961	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	199728	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	110595	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	61349	4.434	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.600%
7) Chloroethane-d5	1.907	69	51264	3.851	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.000%
11) 1,1-Dichloroethene-d2	2.557	65	24754	4.313	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.200%
20) 2-Butanone-d5	4.644	46	108996	38.247	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	76.500%
24) Chloroform-d	5.055	84	109740	3.865	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.200%
26) 1,2-Dichloroethane-d4	5.695	65	56392	4.123	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.400%
32) Benzene-d6	5.721	84	232687	4.233	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.600%
36) 1,2-Dichloropropane-d6	6.682	67	72071	4.279	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.600%
41) Toluene-d8	7.891	98	213756	4.183	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.600%
43) trans-1,3-Dichloroprop...	8.174	79	24927	4.726	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.600%
46) 2-Hexanone-d5	8.627	63	121995	55.668	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.340%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	59666	4.287	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	91617	4.654	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	20711	1.033	ug/L	95
8) Chloroethane	1.927	64	4206	0.348	ug/L	97
13) Acetone	2.663	43	15108	8.173	ug/L	64
14) Carbon disulfide	2.785	76	7036	0.149	ug/L	99
15) Methyl Acetate	2.949	43	1368	0.280	ug/L #	51
16) Methylene chloride	3.042	84	2539	0.152	ug/L	96
18) trans-1,2-Dichloroethene	3.348	96	4800	0.327	ug/L	80
19) 1,1-Dichloroethane	3.859	63	4326	0.160	ug/L	95
21) 2-Butanone	4.724	43	8391	2.830	ug/L #	13
22) cis-1,2-Dichloroethene	4.660	96	9420	0.582	ug/L	90
30) Cyclohexane	5.377	56	3737	0.184	ug/L	93
33) Benzene	5.766	78	210695	3.474	ug/L	100
35) Methylcyclohexane	6.756	83	40791	1.745	ug/L	98
42) Toluene	7.965	91	221401	3.448	ug/L	99
51) Chlorobenzene	9.441	112	57488	1.412	ug/L	95
52) Ethylbenzene	9.566	91	24705	0.375	ug/L	97
53) m,p-Xylene	9.689	106	47470	1.876	ug/L	99
54) o-Xylene	10.094	106	74930	3.121	ug/L	96
55) Styrene	10.094	104	4907	0.120	ug/L #	1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071224\
 Data File : VU059928.D
 Acq On : 12 Jul 2024 17:46
 Operator : MD/SY
 Sample : P3217-14
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 13 03:59:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR061724WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Jul 13 03:52:33 2024
 Response via : Initial Calibration

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

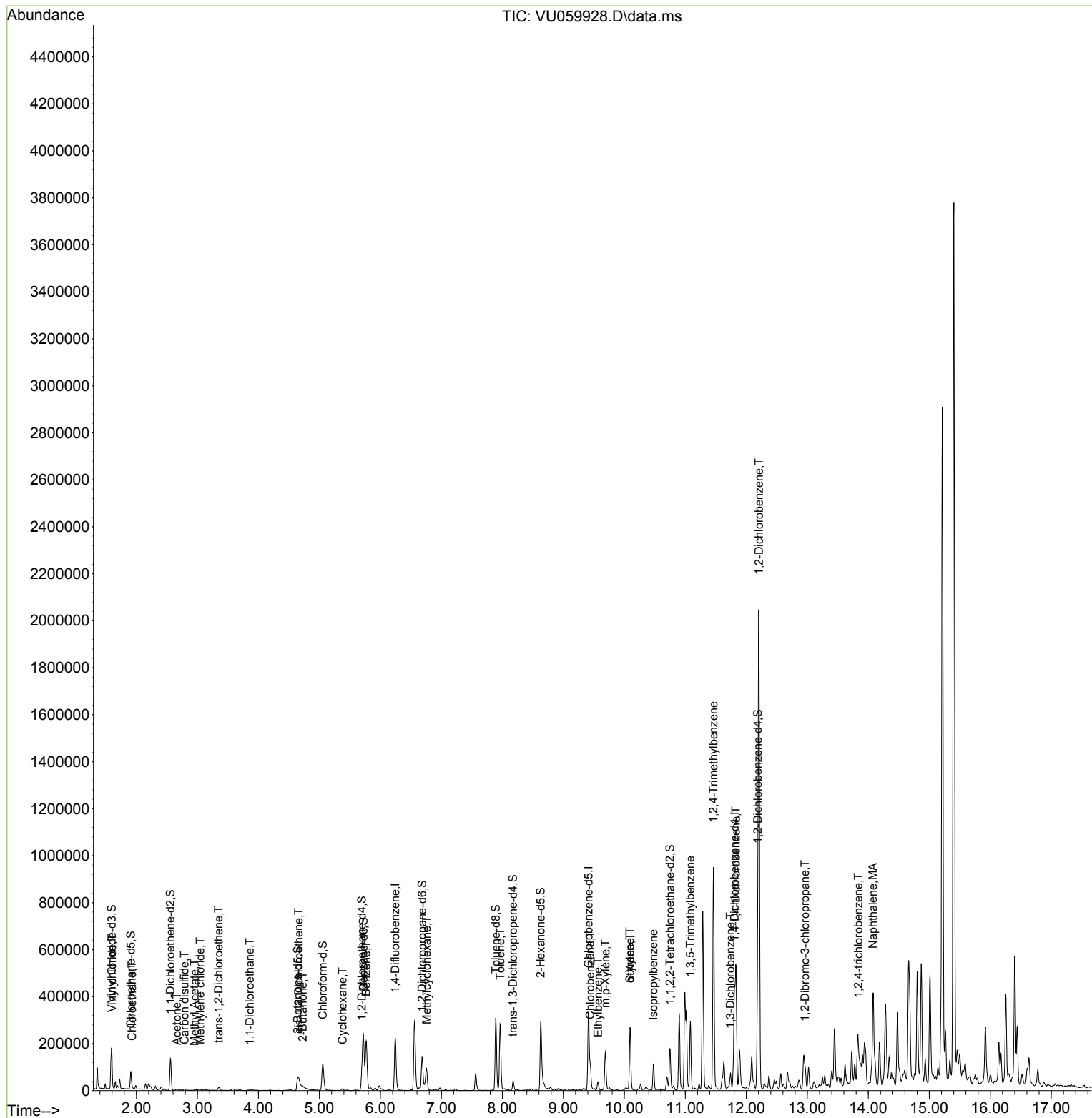
60) Isopropylbenzene	10.476	105	71491	1.046	ug/L	98
62) 1,3,5-Trimethylbenzene	11.081	105	157329	2.907	ug/L	97
63) 1,2,4-Trimethylbenzene	11.460	105	523527	10.117	ug/L	97
64) 1,3-Dichlorobenzene	11.740	146	19292	0.555	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	208216	5.821	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	842001	25.750	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.962	75	349	0.175	ug/L #	6
70) 1,2,4-trichlorobenzene	13.836	180	4571	0.232	ug/L #	1
71) Naphthalene	14.077	128	335532	11.881	ug/L #	96

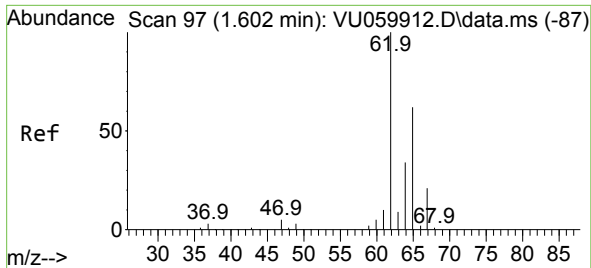
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071224\
Data File : VU059928.D
Acq On : 12 Jul 2024 17:46
Operator : MD/SY
Sample : P3217-14
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jul 13 03:59:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR061724WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Sat Jul 13 03:52:33 2024
Response via : Initial Calibration

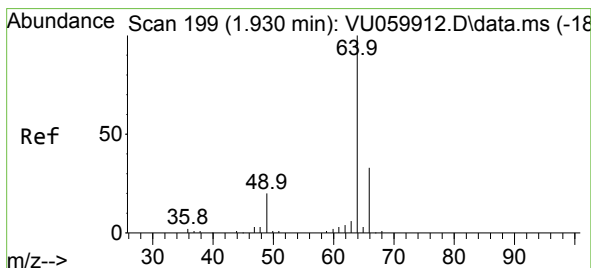
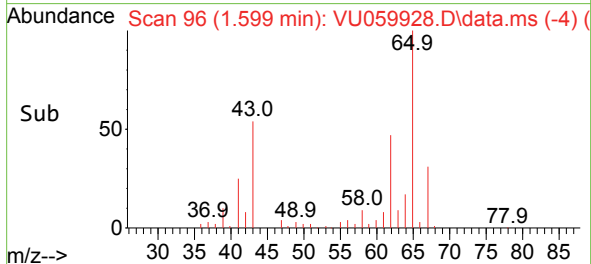
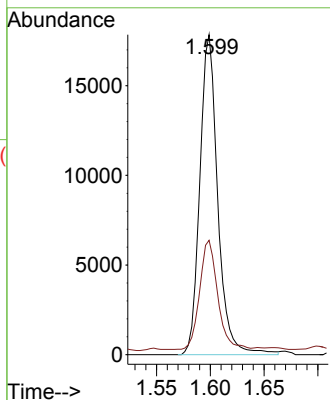
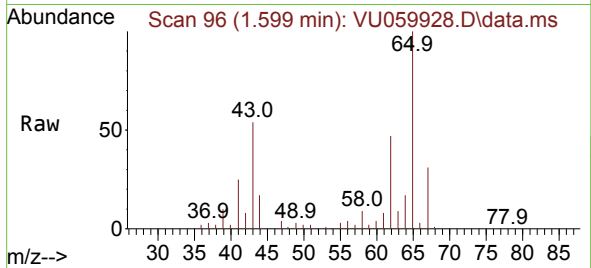




#5
 Vinyl chloride
 Concen: 1.033 ug/L
 RT: 1.599 min Scan# 90
 Delta R.T. -0.003 min
 Lab File: VU059928.D
 Acq: 12 Jul 2024 17:46

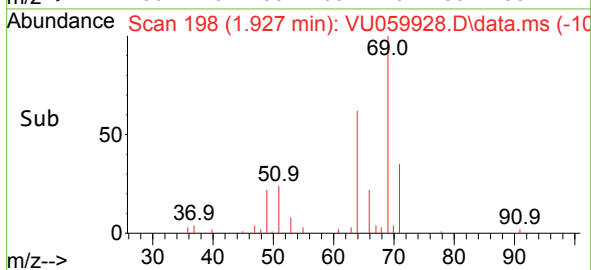
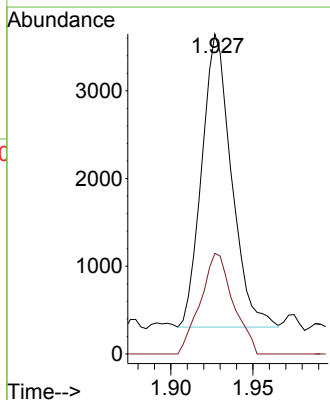
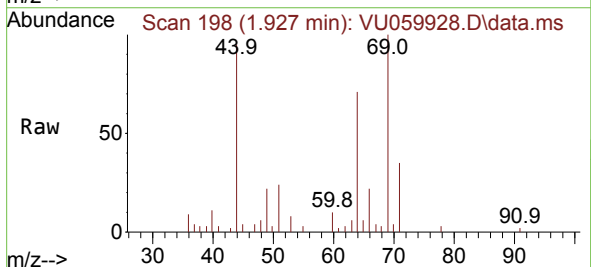
Instrument :
 MSVOA_U
 ClientSampleId :

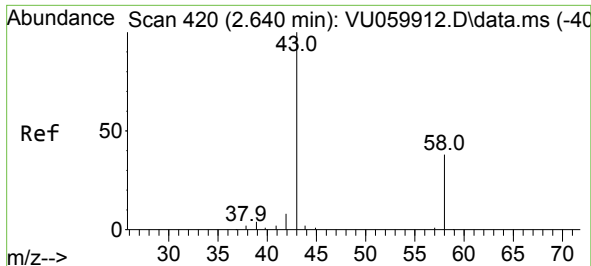
Tgt Ion: 62 Resp: 20711
 Ion Ratio Lower Upper
 62 100
 64 35.8 23.1 42.9



#8
 Chloroethane
 Concen: 0.348 ug/L
 RT: 1.927 min Scan# 198
 Delta R.T. -0.003 min
 Lab File: VU059928.D
 Acq: 12 Jul 2024 17:46

Tgt Ion: 64 Resp: 4206
 Ion Ratio Lower Upper
 64 100
 66 31.5 23.2 43.2





#13

Acetone

Concen: 8.173 ug/L

RT: 2.663 min Scan# 41

Delta R.T. 0.023 min

Lab File: VU059928.D

Acq: 12 Jul 2024 17:46

Instrument :

MSVOA_U

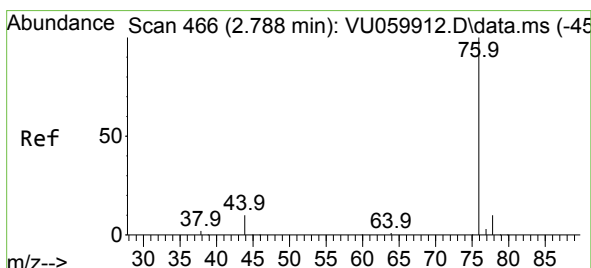
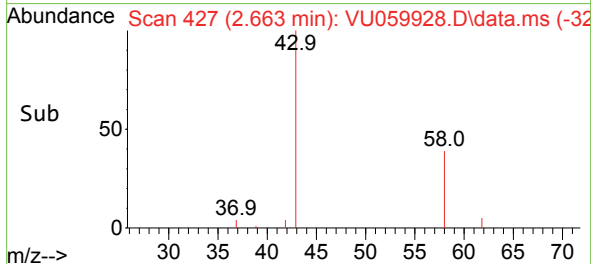
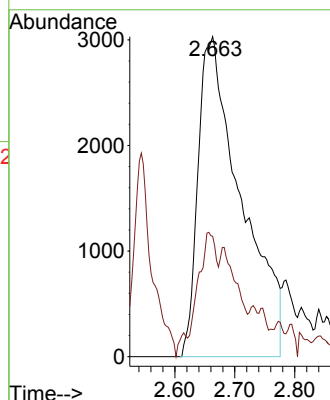
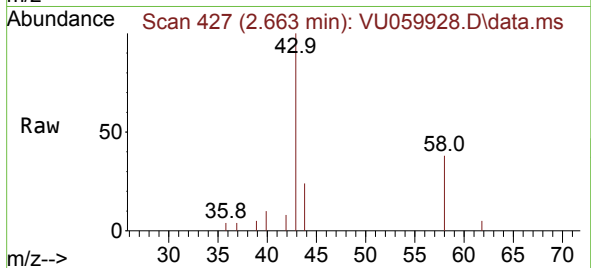
ClientSampleId :

Tgt Ion: 43 Resp: 15108

Ion Ratio Lower Upper

43 100

58 13.2 0.0 68.0



#14

Carbon disulfide

Concen: 0.149 ug/L

RT: 2.785 min Scan# 465

Delta R.T. -0.003 min

Lab File: VU059928.D

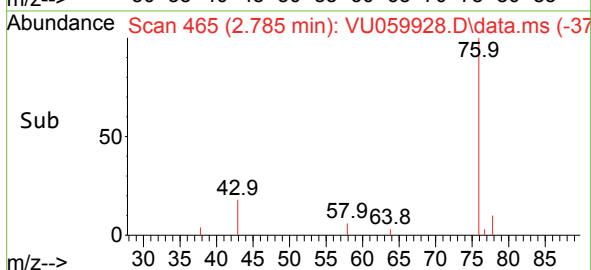
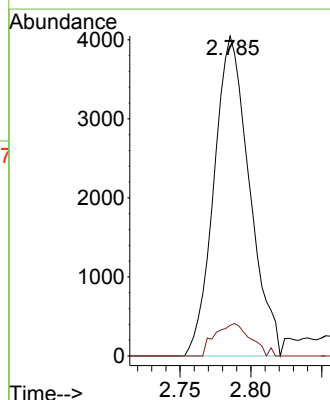
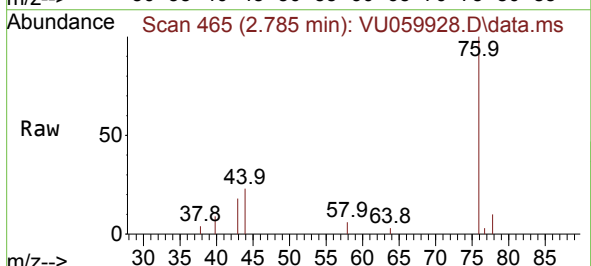
Acq: 12 Jul 2024 17:46

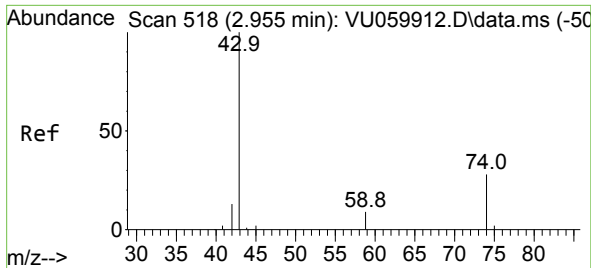
Tgt Ion: 76 Resp: 7036

Ion Ratio Lower Upper

76 100

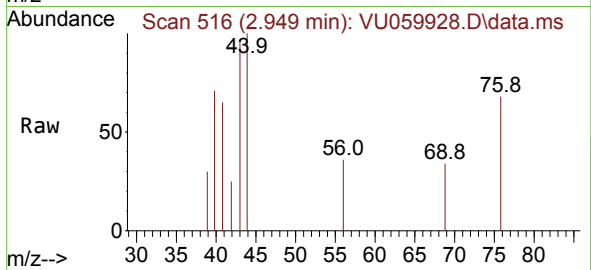
78 9.6 7.3 10.9



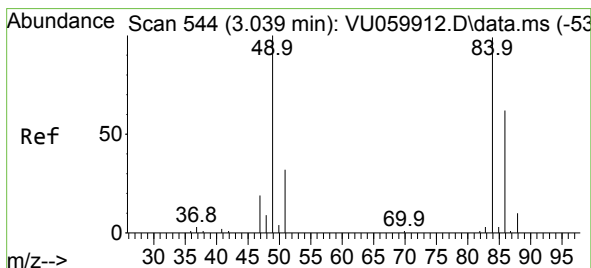
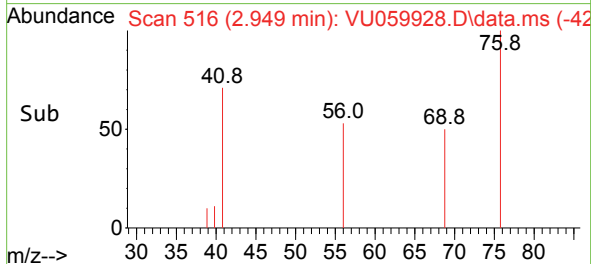
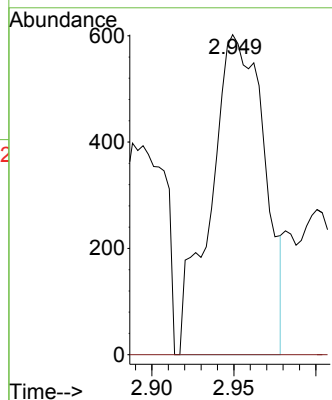


#15
Methyl Acetate
Concen: 0.280 ug/L
RT: 2.949 min Scan# 518
Delta R.T. -0.006 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

Instrument :
MSVOA_U
ClientSampleId :

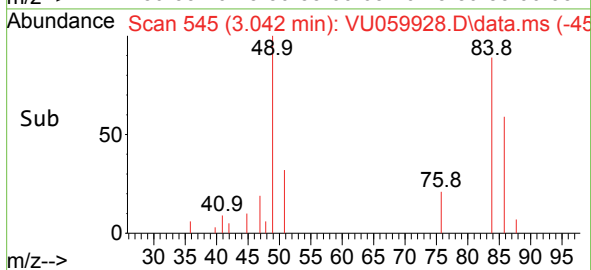
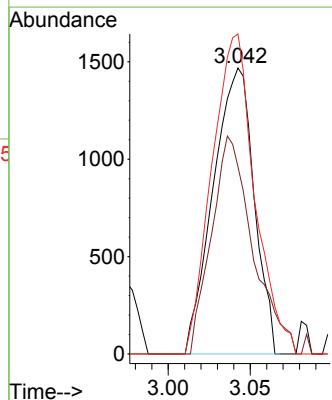
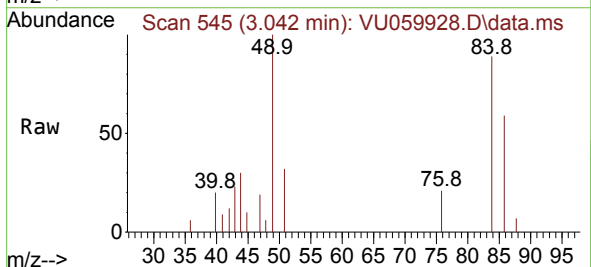


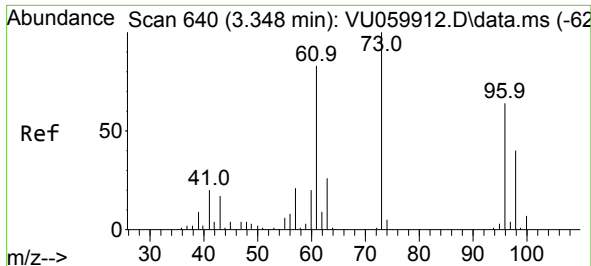
Tgt Ion: 43 Resp: 1368
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#16
Methylene chloride
Concen: 0.152 ug/L
RT: 3.042 min Scan# 545
Delta R.T. 0.003 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

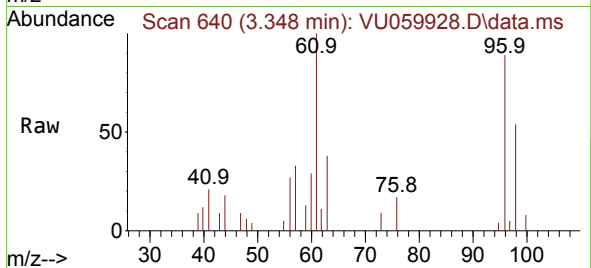
Tgt Ion: 84 Resp: 2539
Ion Ratio Lower Upper
84 100
86 65.5 42.1 78.1
49 111.9 80.6 149.8



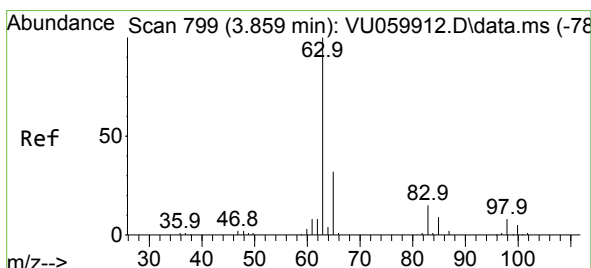
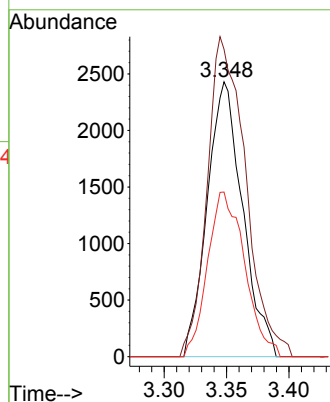
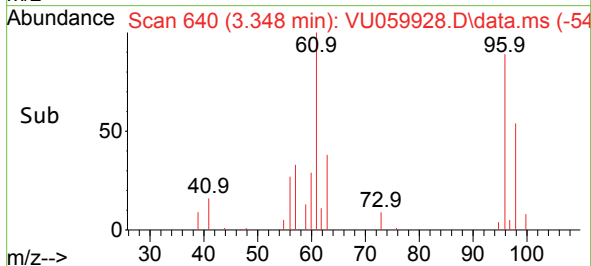


#18
trans-1,2-Dichloroethene
Concen: 0.327 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

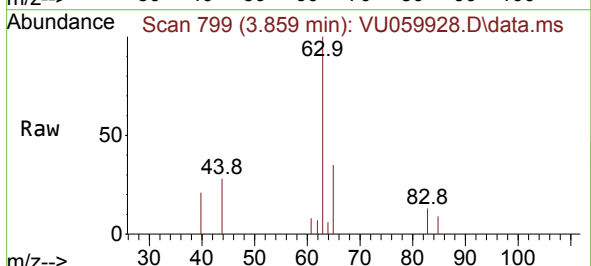
Instrument :
MSVOA_U
ClientSampleId :



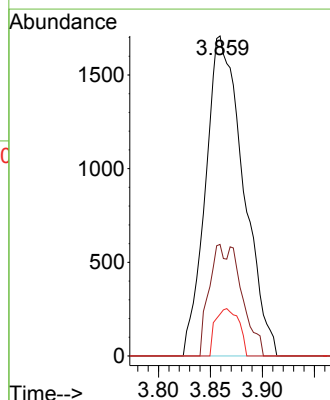
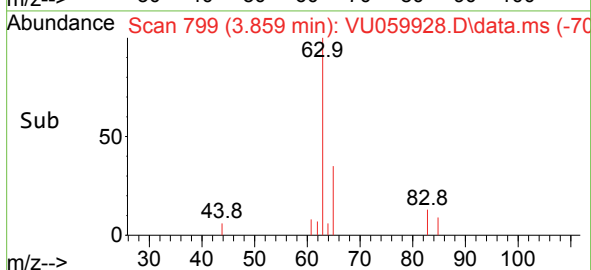
Tgt Ion: 96 Resp: 4800
Ion Ratio Lower Upper
96 100
61 111.8 101.8 189.0
98 59.9 43.3 80.5

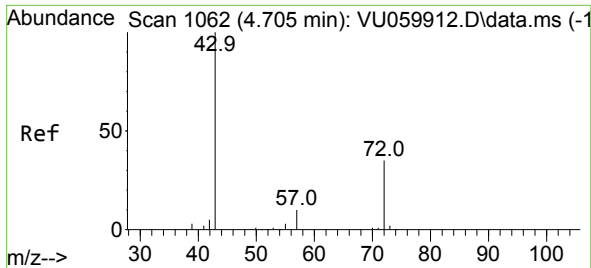


#19
1,1-Dichloroethane
Concen: 0.160 ug/L
RT: 3.859 min Scan# 799
Delta R.T. 0.000 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46



Tgt Ion: 63 Resp: 4326
Ion Ratio Lower Upper
63 100
65 34.8 21.8 40.6
83 13.1 9.9 18.5

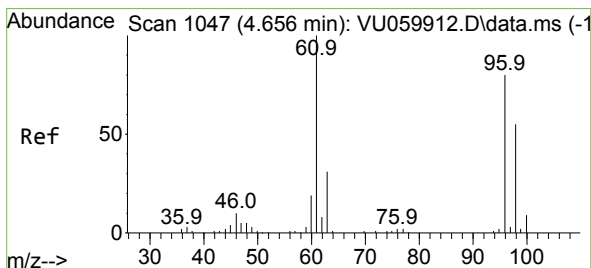
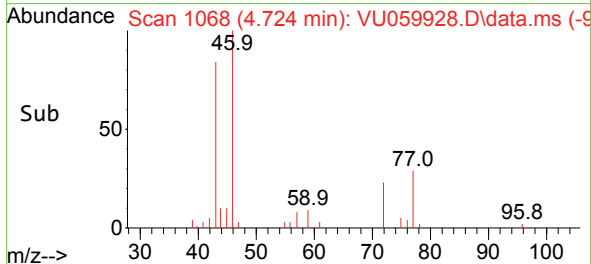
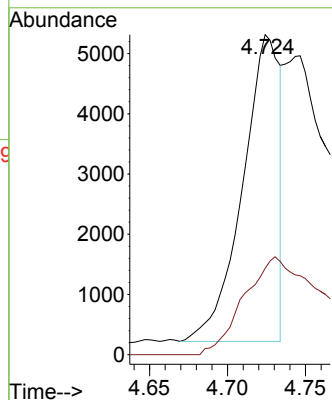
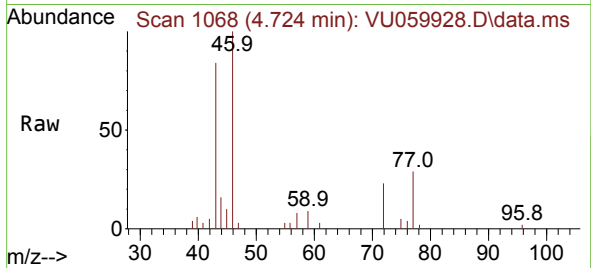




#21
2-Butanone
Concen: 2.830 ug/L
RT: 4.724 min Scan# 1068
Delta R.T. 0.019 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

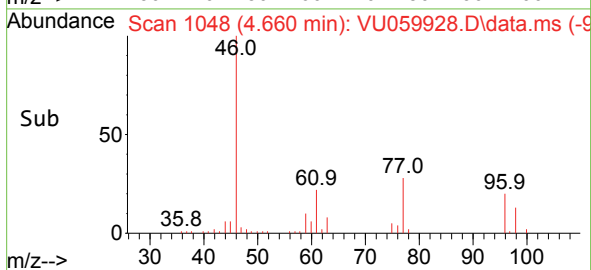
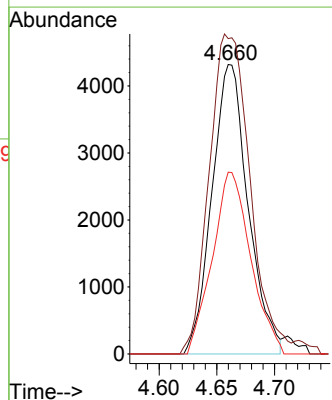
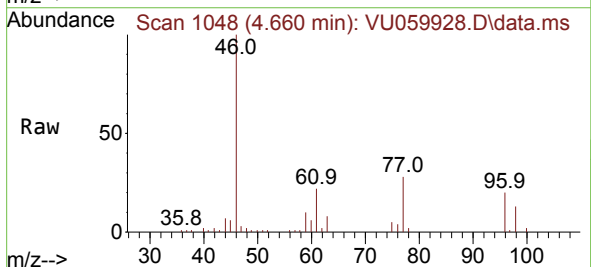
Instrument :
MSVOA_U
ClientSampleId :

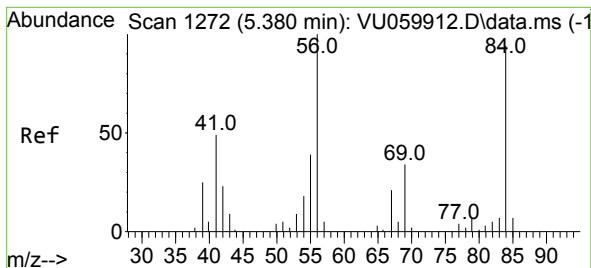
Tgt Ion: 43 Resp: 8391
Ion Ratio Lower Upper
43 100
72 73.3 13.8 41.4#



#22
cis-1,2-Dichloroethene
Concen: 0.582 ug/L
RT: 4.660 min Scan# 1048
Delta R.T. 0.003 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

Tgt Ion: 96 Resp: 9420
Ion Ratio Lower Upper
96 100
61 109.0 87.4 162.2
98 62.8 42.3 78.5





#30

Cyclohexane

Concen: 0.184 ug/L

RT: 5.377 min Scan# 1271

Delta R.T. -0.003 min

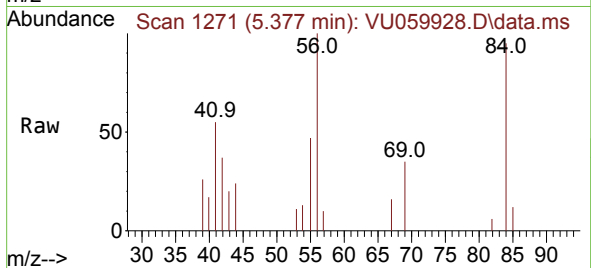
Lab File: VU059928.D

Acq: 12 Jul 2024 17:46

Instrument :

MSVOA_U

ClientSampleId :



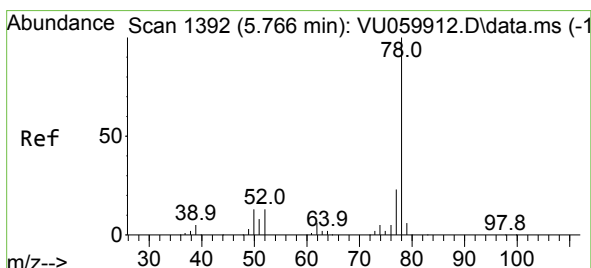
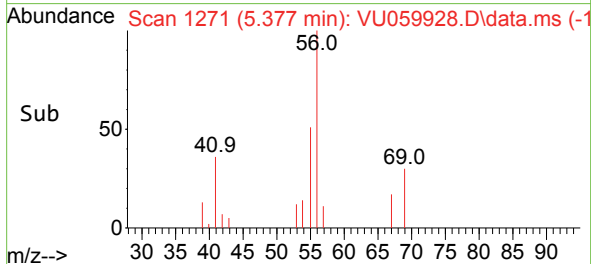
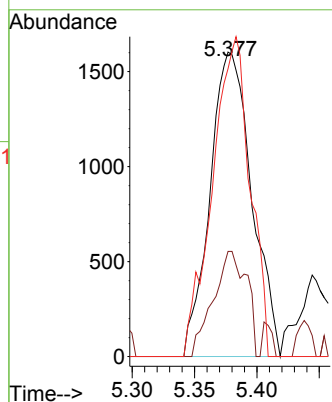
Tgt Ion: 56 Resp: 3737

Ion Ratio Lower Upper

56 100

69 27.6 24.8 37.2

84 94.5 69.8 104.8



#33

Benzene

Concen: 3.474 ug/L

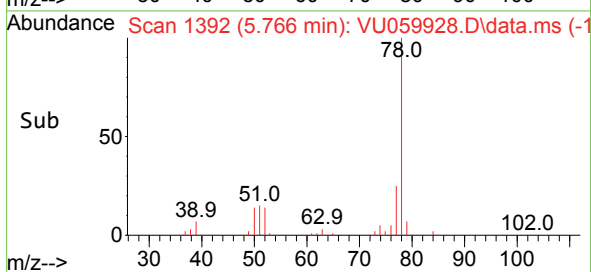
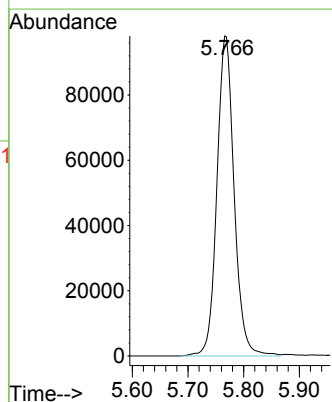
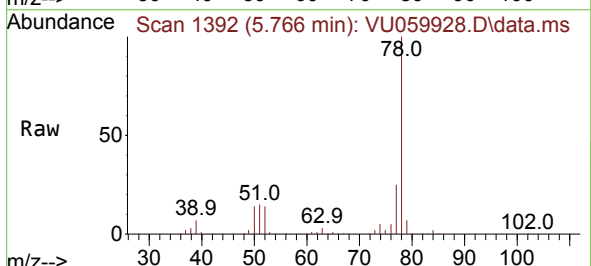
RT: 5.766 min Scan# 1392

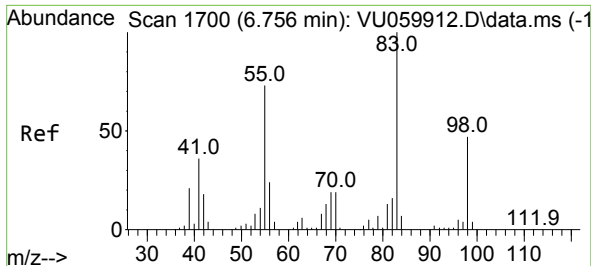
Delta R.T. 0.000 min

Lab File: VU059928.D

Acq: 12 Jul 2024 17:46

Tgt Ion: 78 Resp: 210695





#35

Methylcyclohexane

Concen: 1.745 ug/L

RT: 6.756 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU059928.D

Acq: 12 Jul 2024 17:46

Instrument :

MSVOA_U

ClientSampleId :

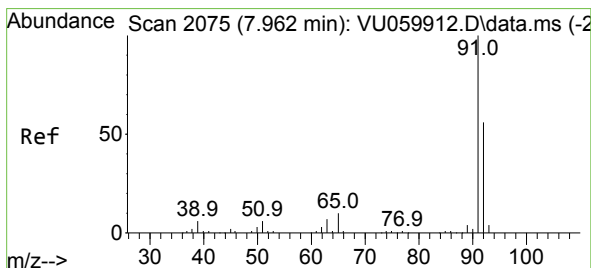
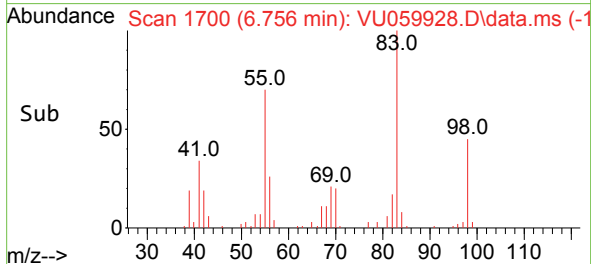
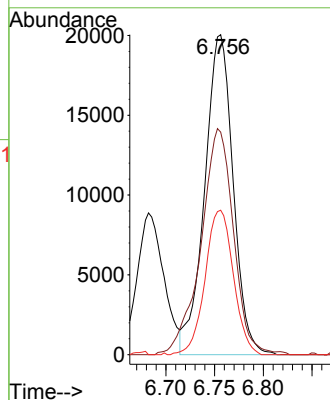
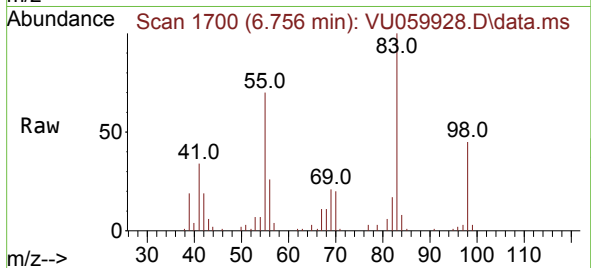
Tgt Ion: 83 Resp: 40791

Ion Ratio Lower Upper

83 100

55 80.9 62.7 94.1

98 44.8 35.4 53.0



#42

Toluene

Concen: 3.448 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU059928.D

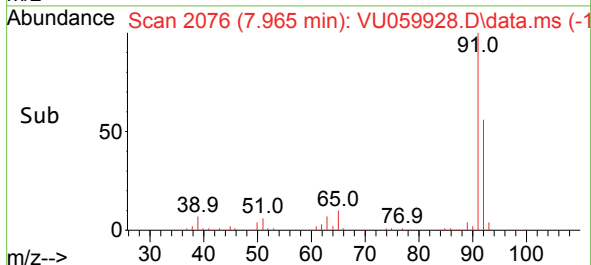
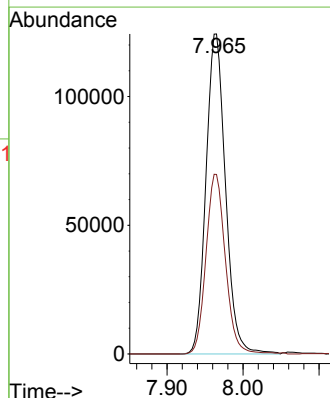
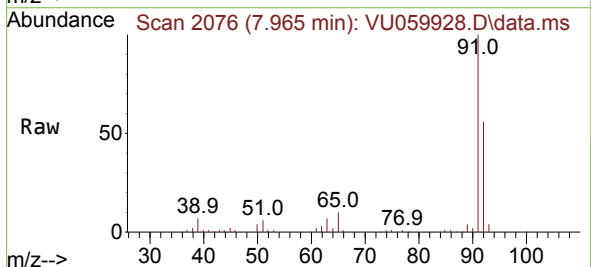
Acq: 12 Jul 2024 17:46

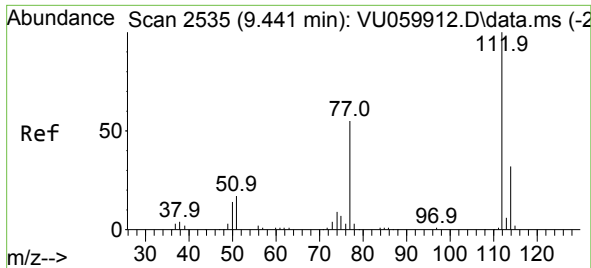
Tgt Ion: 91 Resp: 221401

Ion Ratio Lower Upper

91 100

92 56.1 39.7 73.7

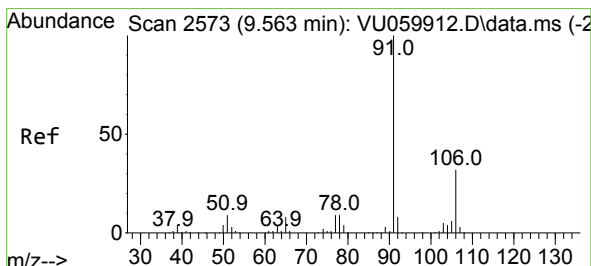
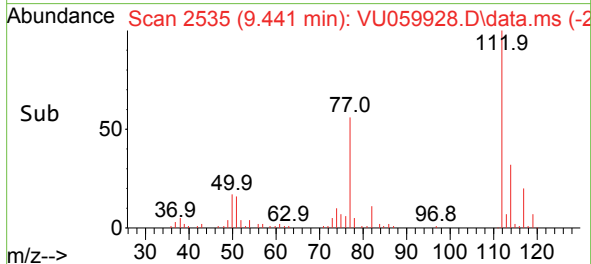
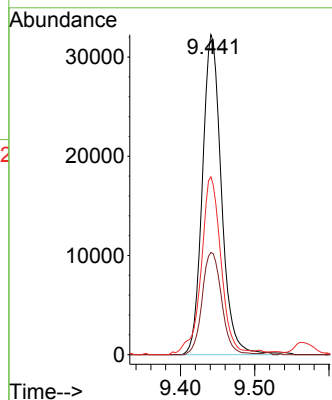
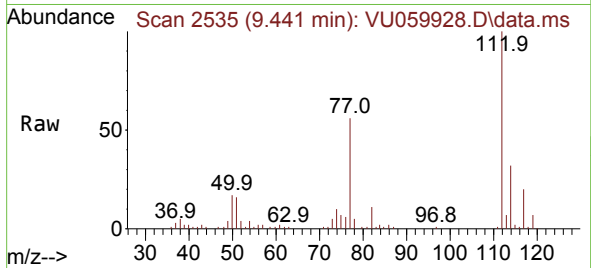




#51
Chlorobenzene
Concen: 1.412 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. 0.000 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

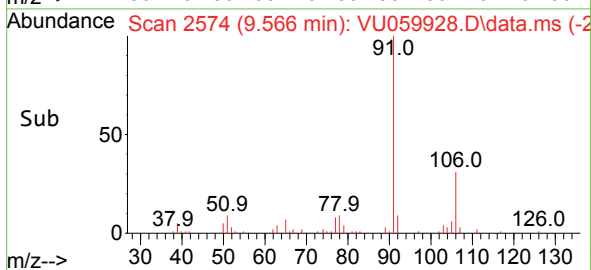
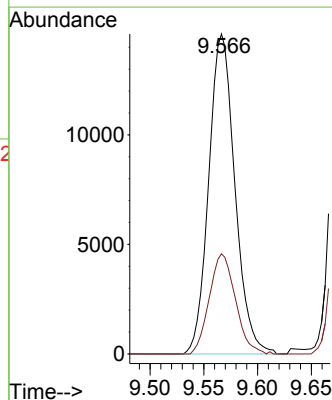
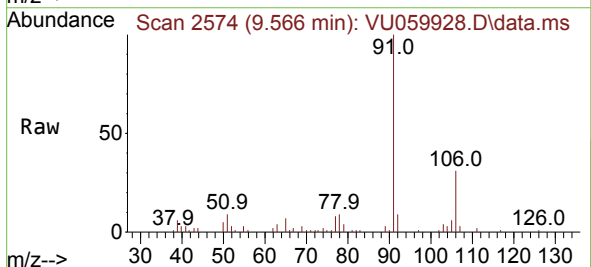
Instrument :
MSVOA_U
ClientSampleId :

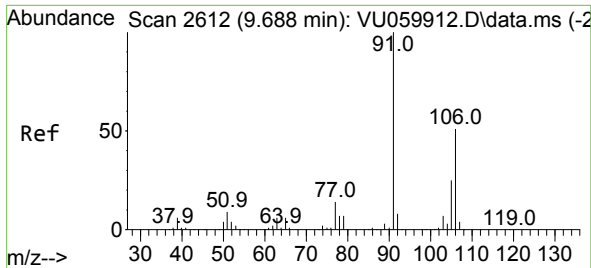
Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.4	41.6
77	55.6	49.1	73.7



#52
Ethylbenzene
Concen: 0.375 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.003 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.3	20.9	38.7

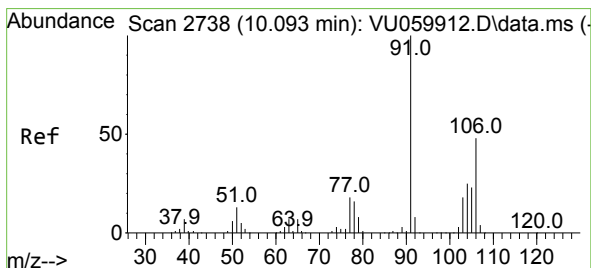
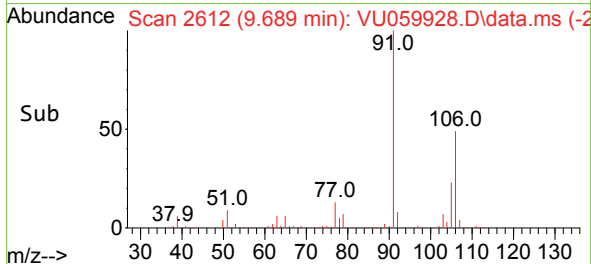
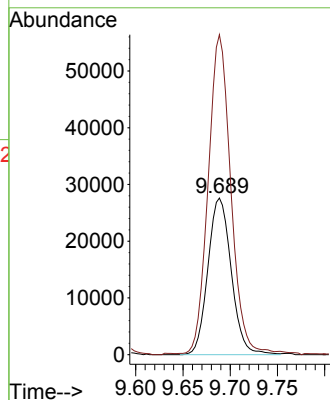
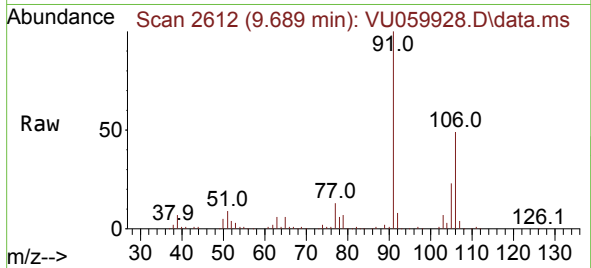




#53
m,p-Xylene
Concen: 1.876 ug/L
RT: 9.689 min Scan# 2612
Delta R.T. 0.000 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

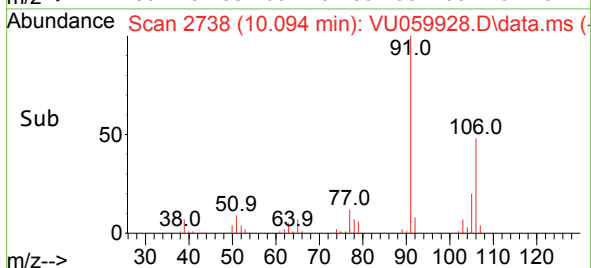
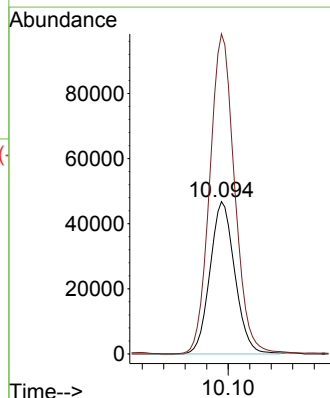
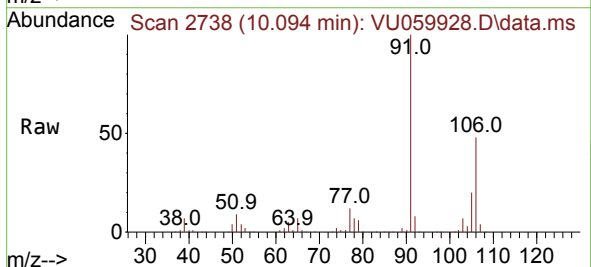
Instrument :
MSVOA_U
ClientSampleId :

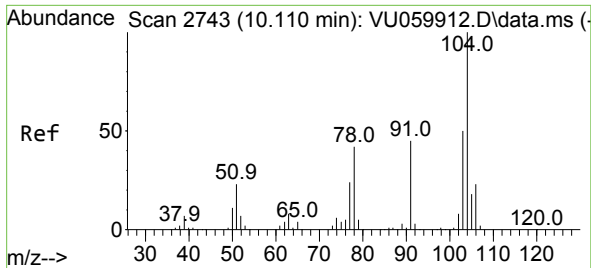
Tgt Ion:106 Resp: 47470
Ion Ratio Lower Upper
106 100
91 204.3 142.0 263.8



#54
o-Xylene
Concen: 3.121 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

Tgt Ion:106 Resp: 74930
Ion Ratio Lower Upper
106 100
91 210.1 151.6 281.6

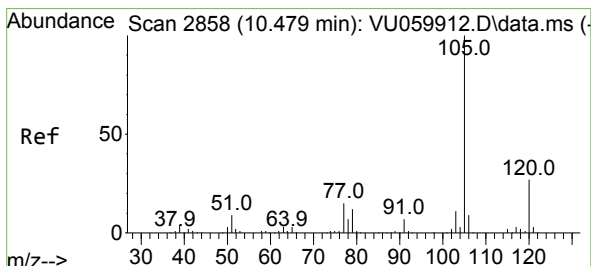
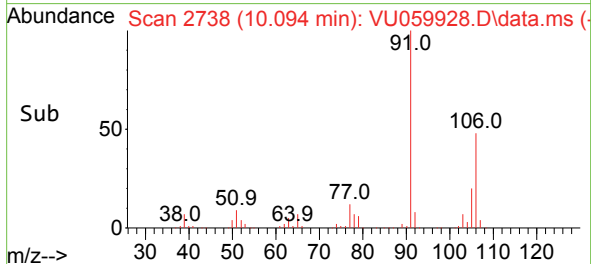
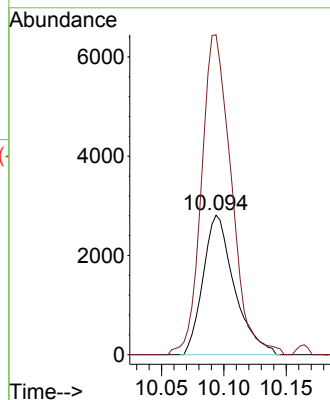
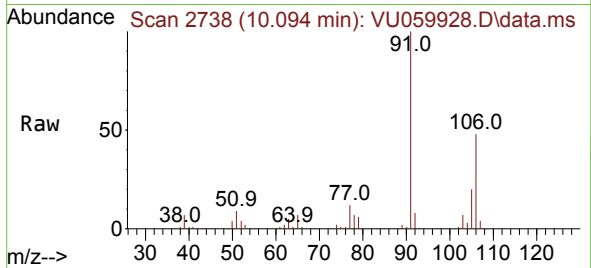




#55
Styrene
Concen: 0.120 ug/L
RT: 10.094 min Scan# 21
Delta R.T. -0.016 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

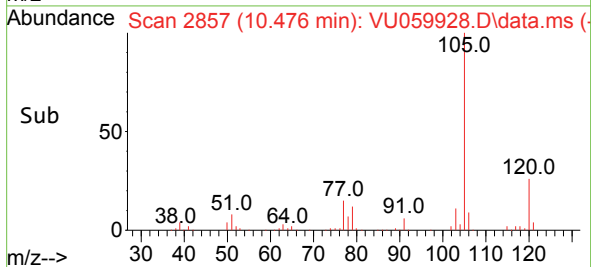
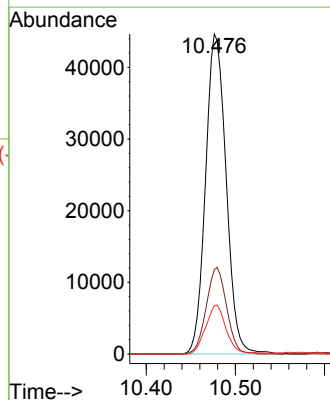
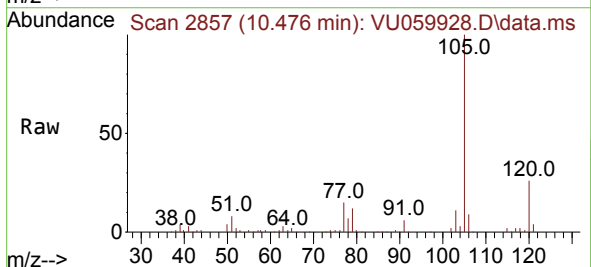
Instrument :
MSVOA_U
ClientSampleId :

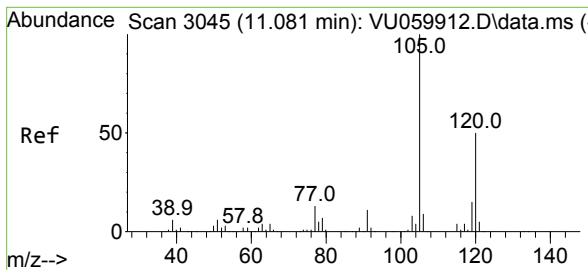
Tgt Ion:104 Resp: 4907
Ion Ratio Lower Upper
104 100
78 229.3 32.3 60.1#



#60
Isopropylbenzene
Concen: 1.046 ug/L
RT: 10.476 min Scan# 2857
Delta R.T. -0.003 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

Tgt Ion:105 Resp: 71491
Ion Ratio Lower Upper
105 100
120 26.7 20.6 31.0
77 15.4 12.8 19.2

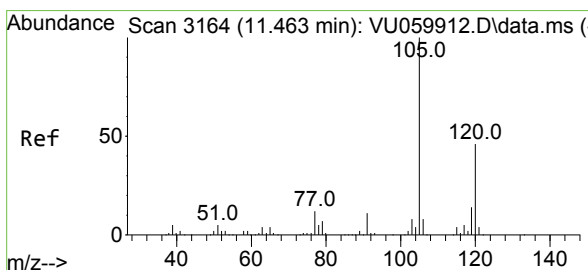
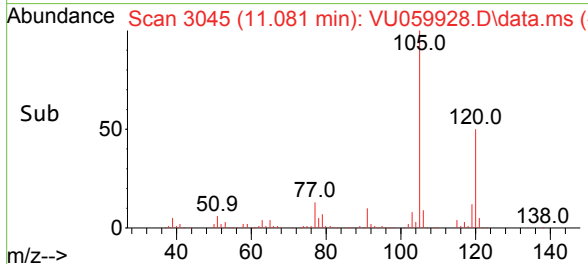
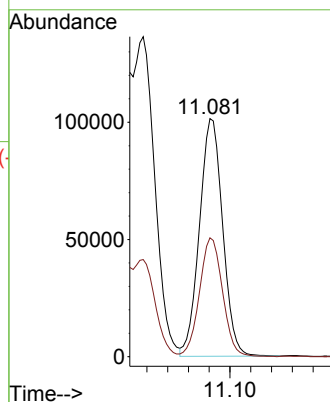
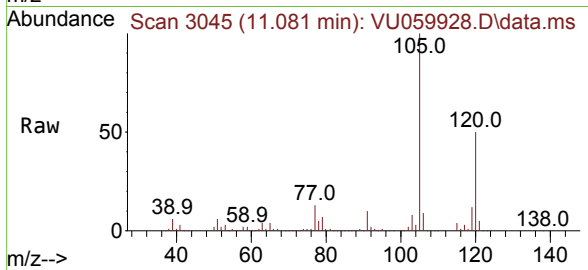




#62
 1,3,5-Trimethylbenzene
 Concen: 2.907 ug/L
 RT: 11.081 min Scan# 3045
 Delta R.T. 0.000 min
 Lab File: VU059928.D
 Acq: 12 Jul 2024 17:46

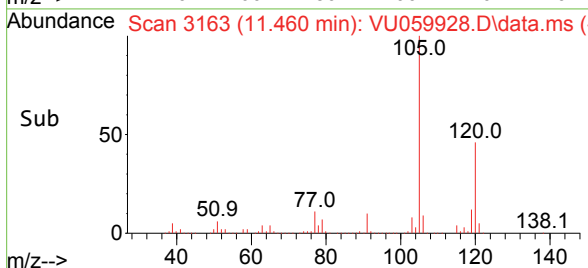
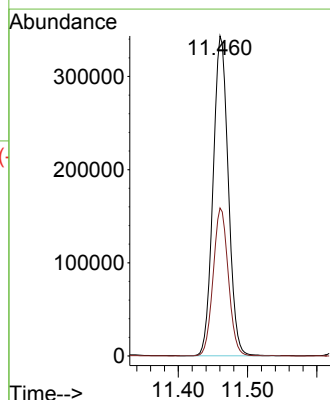
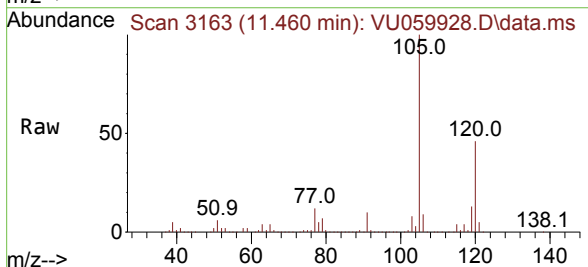
Instrument :
 MSVOA_U
 ClientSampleId :

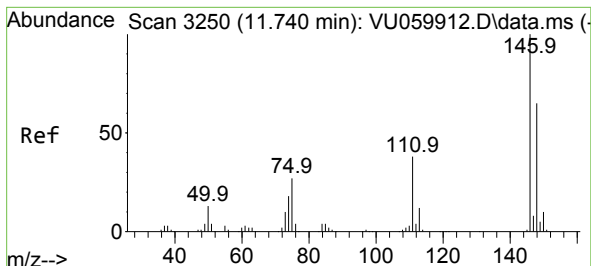
Tgt Ion:105 Resp: 157329
 Ion Ratio Lower Upper
 105 100
 120 49.9 38.2 57.4



#63
 1,2,4-Trimethylbenzene
 Concen: 10.117 ug/L
 RT: 11.460 min Scan# 3163
 Delta R.T. -0.003 min
 Lab File: VU059928.D
 Acq: 12 Jul 2024 17:46

Tgt Ion:105 Resp: 523527
 Ion Ratio Lower Upper
 105 100
 120 45.9 35.4 53.0





#64

1,3-Dichlorobenzene

Concen: 0.555 ug/L

RT: 11.740 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU059928.D

Acq: 12 Jul 2024 17:46

Instrument :

MSVOA_U

ClientSampleId :

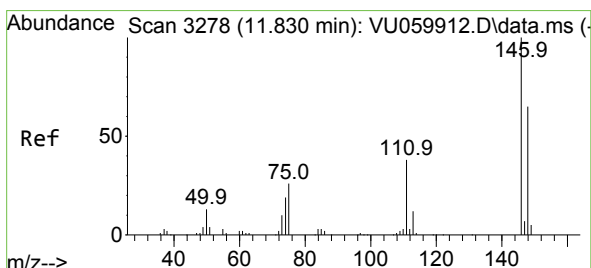
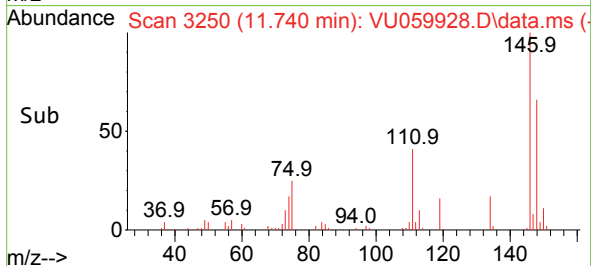
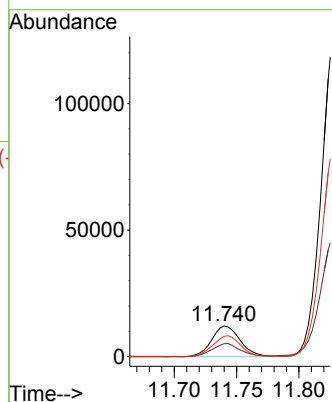
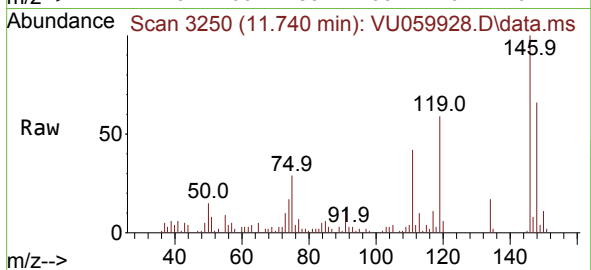
Tgt Ion:146 Resp: 19292

Ion Ratio Lower Upper

146 100

111 42.1 27.4 51.0

148 66.0 45.0 83.6



#65

1,4-Dichlorobenzene

Concen: 5.821 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VU059928.D

Acq: 12 Jul 2024 17:46

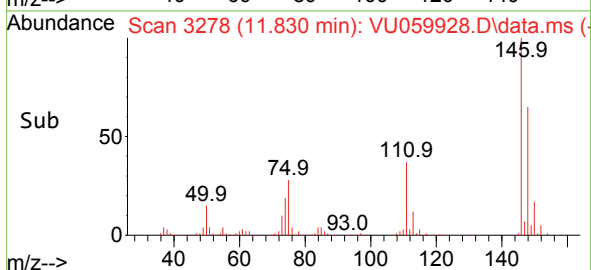
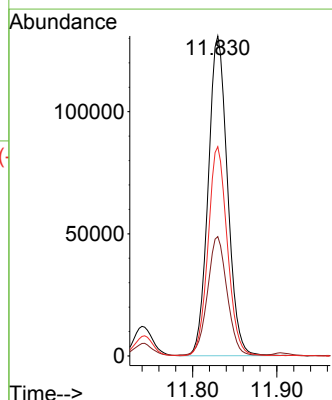
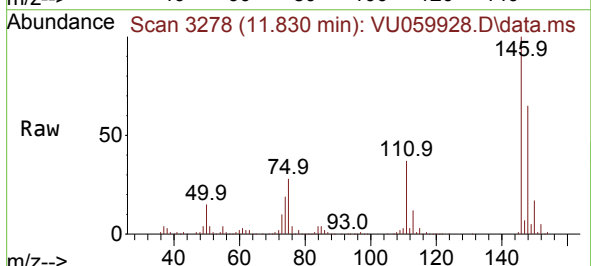
Tgt Ion:146 Resp: 208216

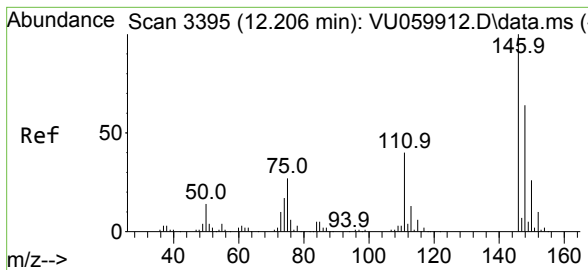
Ion Ratio Lower Upper

146 100

111 37.3 26.9 50.1

148 65.4 45.3 84.1

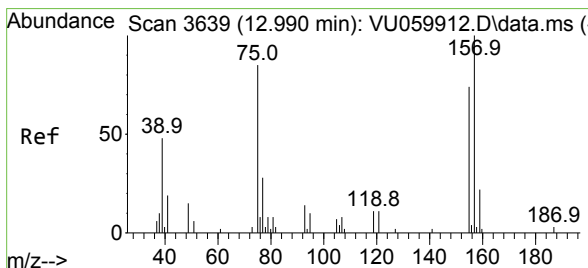
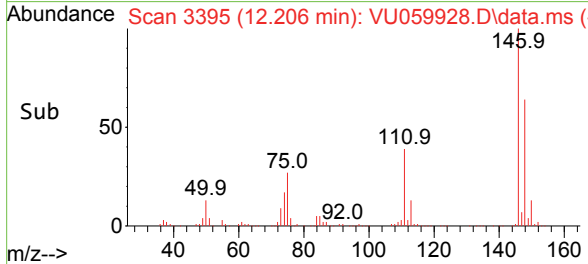
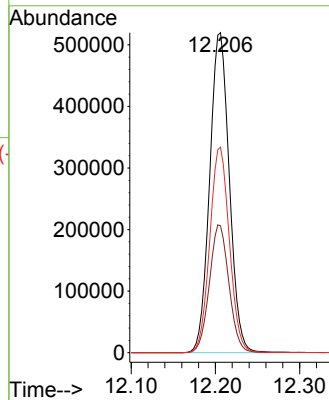
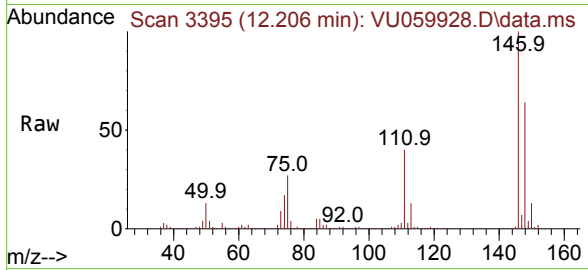




#67
1,2-Dichlorobenzene
Concen: 25.750 ug/L
RT: 12.206 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

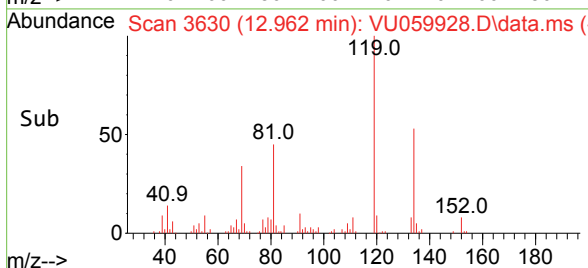
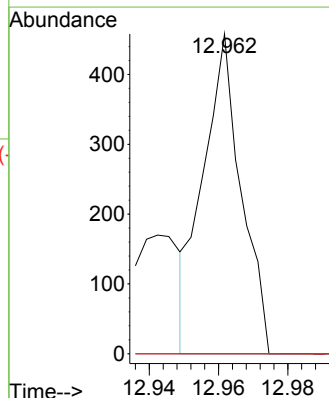
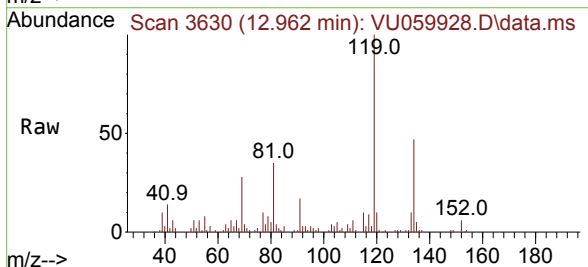
Instrument :
MSVOA_U
ClientSampleId :

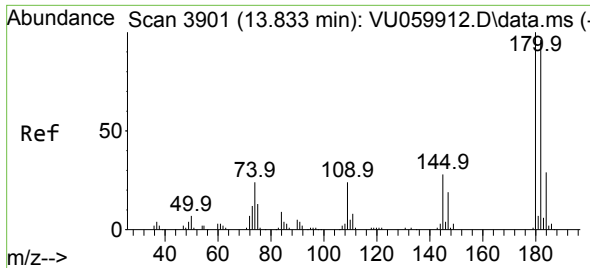
Tgt Ion:146 Resp: 842001
Ion Ratio Lower Upper
146 100
111 39.6 33.4 50.0
148 64.2 49.7 74.5



#68
1,2-Dibromo-3-chloropropane
Concen: 0.175 ug/L
RT: 12.962 min Scan# 3630
Delta R.T. -0.029 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

Tgt Ion: 75 Resp: 349
Ion Ratio Lower Upper
75 100
155 0.0 58.2 87.2#
157 0.0 80.0 120.0#

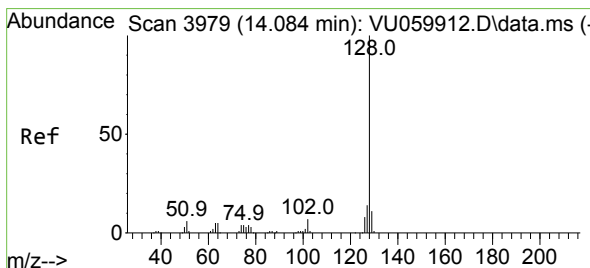
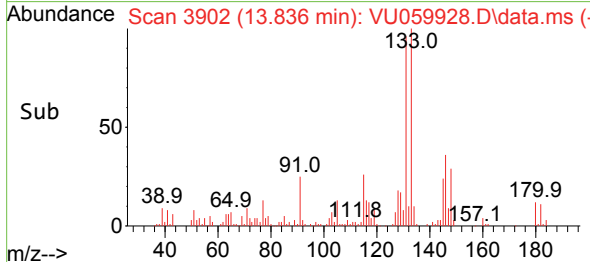
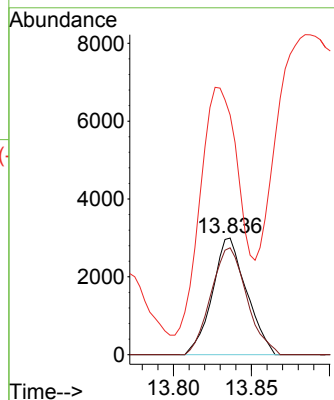
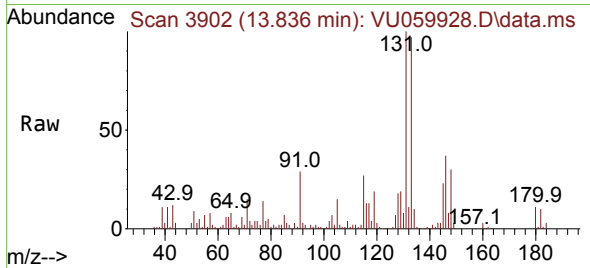




#70
1,2,4-trichlorobenzene
Concen: 0.232 ug/L
RT: 13.836 min Scan# 3901
Delta R.T. 0.003 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:180 Resp: 4571
Ion Ratio Lower Upper
180 100
182 96.0 74.9 112.3
145 246.2 23.9 35.9#



#71
Naphthalene
Concen: 11.881 ug/L
RT: 14.077 min Scan# 3977
Delta R.T. -0.006 min
Lab File: VU059928.D
Acq: 12 Jul 2024 17:46

Tgt Ion:128 Resp: 335532
Ion Ratio Lower Upper
128 100
129 12.6 8.2 12.4#
127 13.3 10.2 15.4

