

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU070324\
 Data File : VU059821.D
 Acq On : 04 Jul 2024 00:53
 Operator : MD/SY
 Sample : P3136-17
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 04 02:15:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR061724WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jul 04 02:08:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	220198	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	211799	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	112894	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	98164	6.411	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	128.200%
7) Chloroethane-d5	1.907	69	49057	3.330	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	66.600%
11) 1,1-Dichloroethene-d2	2.560	65	23255	3.661	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.200%
20) 2-Butanone-d5	4.621	46	129590	41.088	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	82.180%
24) Chloroform-d	5.055	84	105296	3.350	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	67.000%#
26) 1,2-Dichloroethane-d4	5.695	65	50187	3.315	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	66.400%#
32) Benzene-d6	5.721	84	226005	3.877	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.600%
36) 1,2-Dichloropropane-d6	6.682	67	68962	3.861	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.200%
41) Toluene-d8	7.891	98	229354	4.232	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.600%
43) trans-1,3-Dichloroprop...	8.174	79	25305	4.524	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.400%
46) 2-Hexanone-d5	8.627	63	117566	50.589	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.180%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	56240	3.811	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	76.200%
66) 1,2-Dichlorobenzene-d4	12.187	152	87175	4.339	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.800%

Target Compounds				Qvalue		
5) Vinyl chloride	1.599	62	5834405	263.012	ug/L	99
12) 1,1-Dichloroethene	2.576	96	4028	0.258	ug/L #	1
13) Acetone	2.631	43	127713	62.423	ug/L	84
15) Methyl Acetate	2.955	43	185527	34.363	ug/L #	52
16) Methylene chloride	2.968	84	83687	4.522	ug/L #	4
18) trans-1,2-Dichloroethene	3.348	96	25643	1.579	ug/L	96
21) 2-Butanone	4.701	43	162143	49.410	ug/L	88
22) cis-1,2-Dichloroethene	4.656	96	1120945	62.615	ug/L	95
25) Chloroform	5.119	83	174246	5.524	ug/L #	37
30) Cyclohexane	5.383	56	4153832	192.366	ug/L	95
33) Benzene	5.772	78	12216	0.190	ug/L	100
34) Trichloroethene	6.537	95	49608	2.848	ug/L	95
35) Methylcyclohexane	6.756	83	1271268	51.292	ug/L	97
37) 1,2-Dichloropropane	6.756	63	12032	0.723	ug/L #	92
38) Bromodichloromethane	7.151	83	41722	2.008	ug/L #	29
40) 4-Methyl-2-pentanone	7.785	43	29329	3.803	ug/L #	88
42) Toluene	7.962	91	4724534	69.382	ug/L	100
45) 1,1,2-Trichloroethane	8.364	97	58030	4.731	ug/L #	18
47) Tetrachloroethene	8.547	164	24207	1.791	ug/L	93

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Jul 04 02:08:13 2024
Response via : Initial Calibration

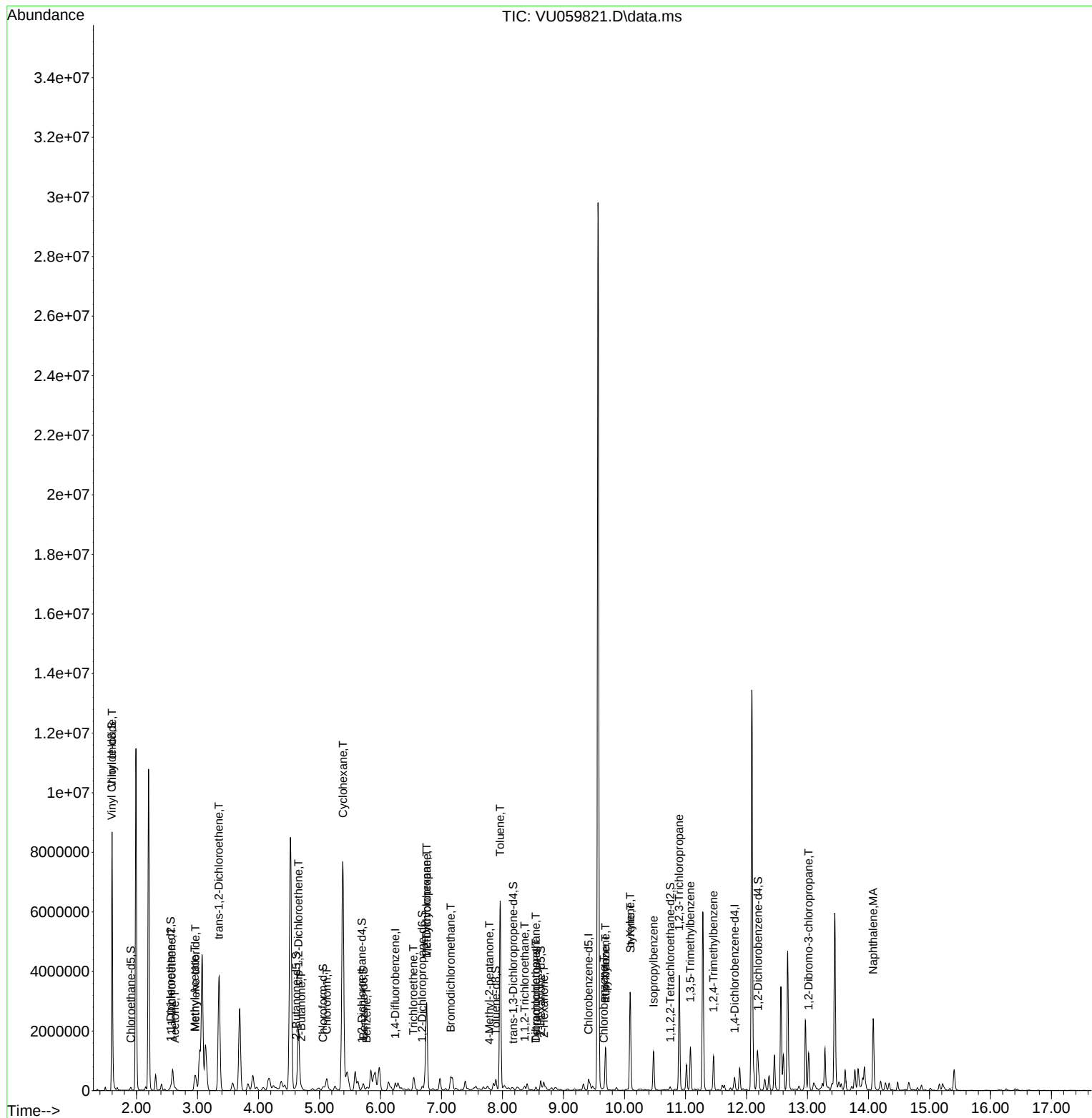
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.679	43	55106	10.011	ug/L #	68
49) Dibromochloromethane	8.547	129	21209	1.561	ug/L #	12
51) Chlorobenzene	9.659	112	13112	0.304	ug/L #	53
52) Ethylbenzene	9.688	91	781281	11.185	ug/L #	63
53) m,p-Xylene	9.688	106	391395	14.589	ug/L	98
54) o-Xylene	10.093	106	905370	35.560	ug/L	97
55) Styrene	10.097	104	61777	1.425	ug/L #	1
60) Isopropylbenzene	10.476	105	832954	11.944	ug/L	98
61) 1,2,3-Trichloropropane	10.897	75	17295	1.658	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.081	105	790754	14.313	ug/L	99
63) 1,2,4-Trimethylbenzene	11.460	105	633216	11.988	ug/L	98
68) 1,2-Dibromo-3-chloropr...	13.016	75	4927	2.421	ug/L #	6
71) Naphthalene	14.077	128	1978814	68.642	ug/L	99

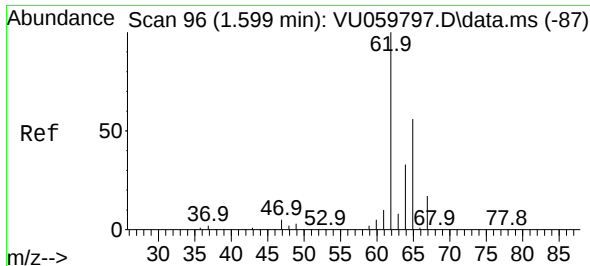
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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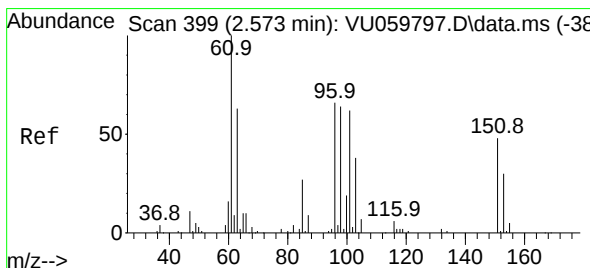
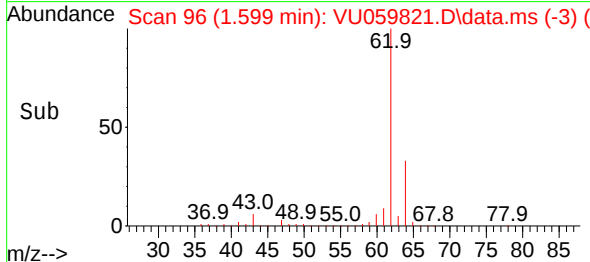
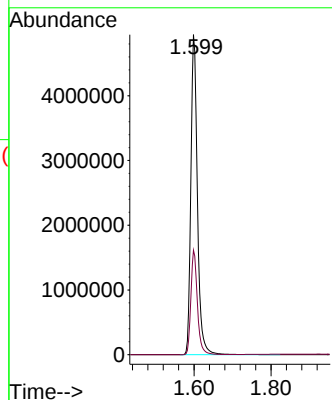
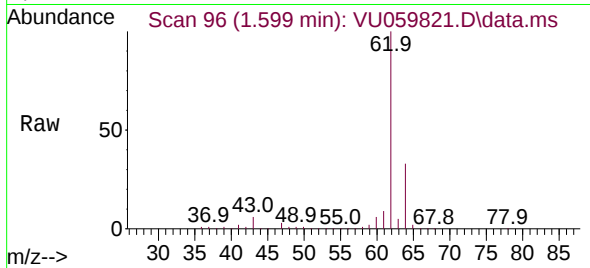




#5
 Vinyl chloride
 Concen: 263.012 ug/L
 RT: 1.599 min Scan# 90
 Delta R.T. -0.000 min
 Lab File: VU059821.D
 Acq: 04 Jul 2024 00:53

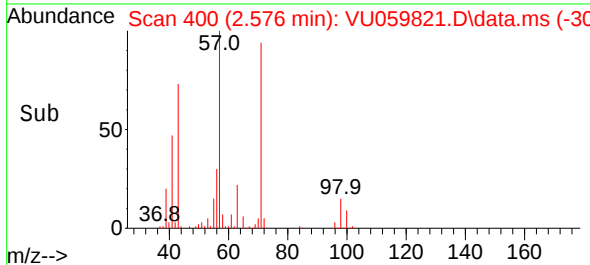
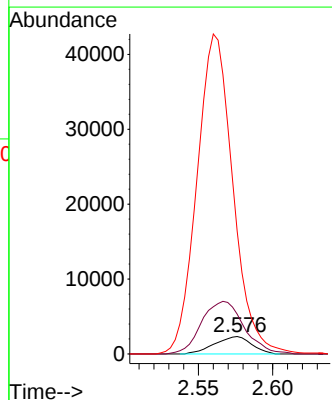
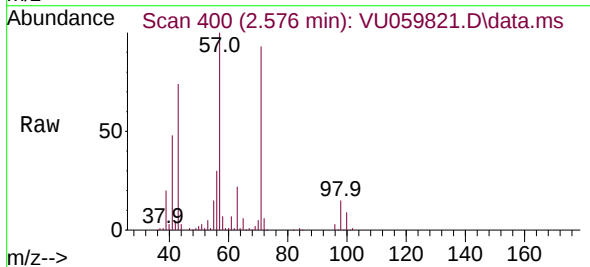
Instrument :
 MSVOA_U
 ClientSampleId :

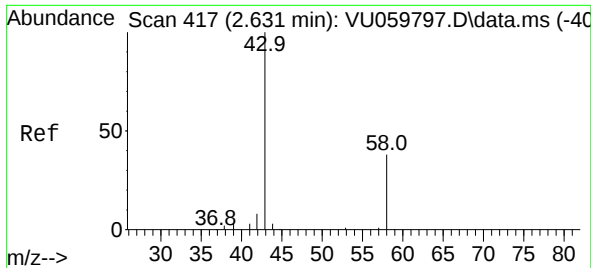
Tgt Ion: 62 Resp: 5834405
 Ion Ratio Lower Upper
 62 100
 64 32.7 23.1 42.9



#12
 1,1-Dichloroethene
 Concen: 0.258 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. 0.003 min
 Lab File: VU059821.D
 Acq: 04 Jul 2024 00:53

Tgt Ion: 96 Resp: 4028
 Ion Ratio Lower Upper
 96 100
 61 228.4 122.9 228.3#
 63 703.3 80.4 149.4#





#13

Acetone

Concen: 62.423 ug/L

RT: 2.631 min Scan# 417

Delta R.T. -0.000 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Instrument :

MSVOA_U

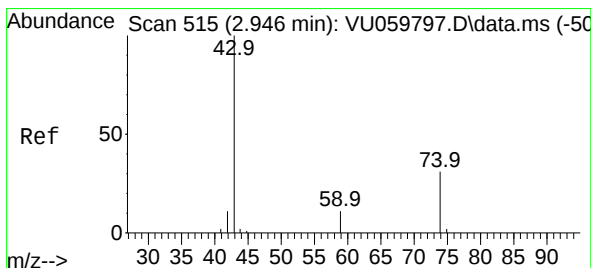
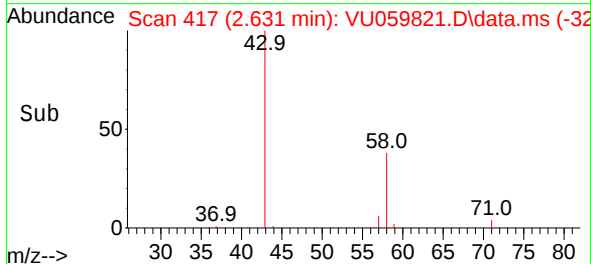
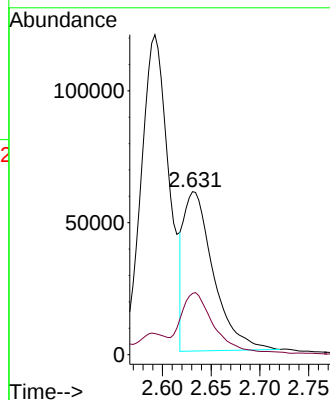
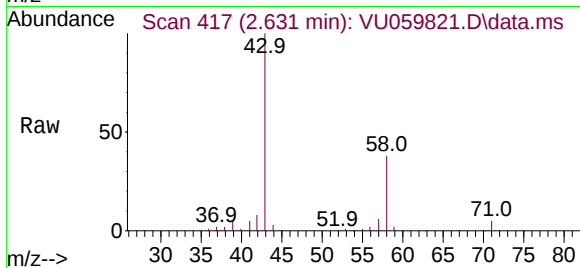
ClientSampleId :

Tgt Ion: 43 Resp: 127713

Ion Ratio Lower Upper

43 100

58 43.0 0.0 68.0



#15

Methyl Acetate

Concen: 34.363 ug/L

RT: 2.955 min Scan# 518

Delta R.T. 0.009 min

Lab File: VU059821.D

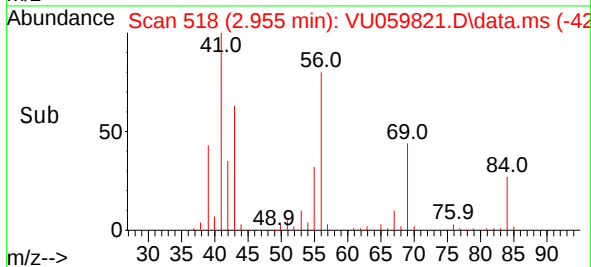
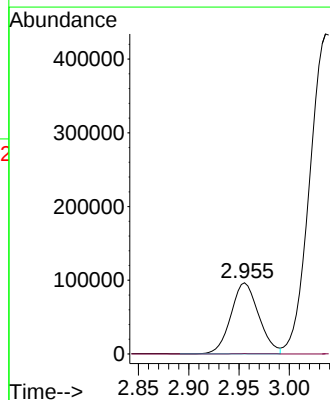
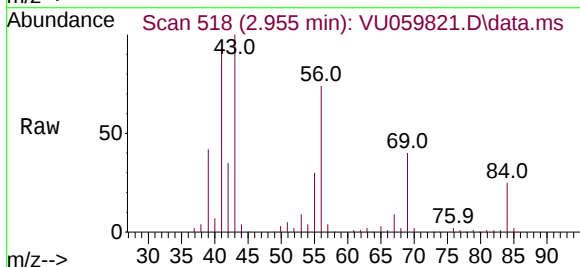
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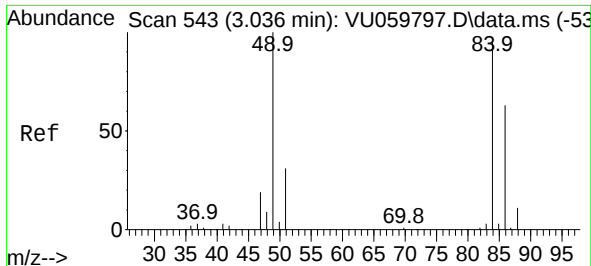
Tgt Ion: 43 Resp: 185527

Ion Ratio Lower Upper

43 100

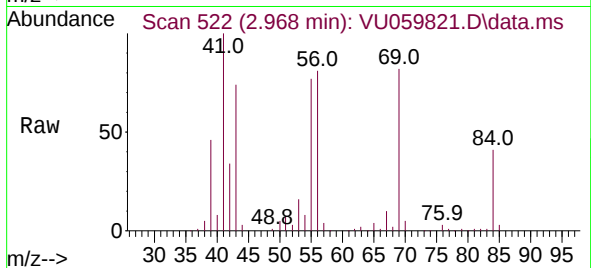
74 0.4 19.2 28.8#



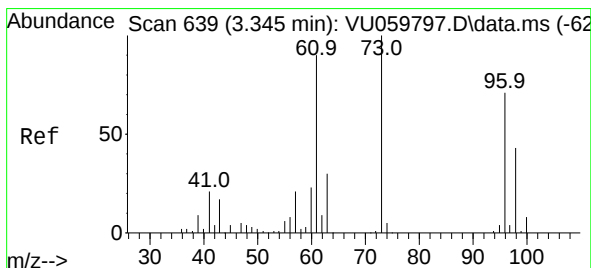
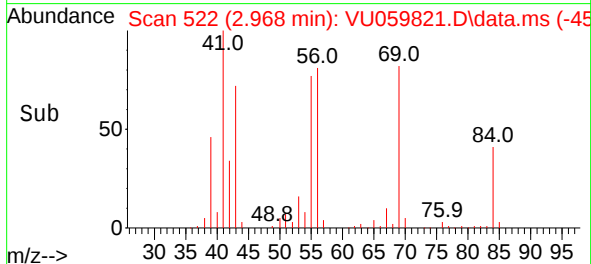
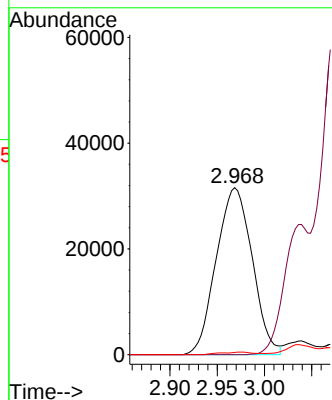


#16
Methylene chloride
Concen: 4.522 ug/L
RT: 2.968 min Scan# 51
Delta R.T. -0.068 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

Instrument :
MSVOA_U
ClientSampleId :

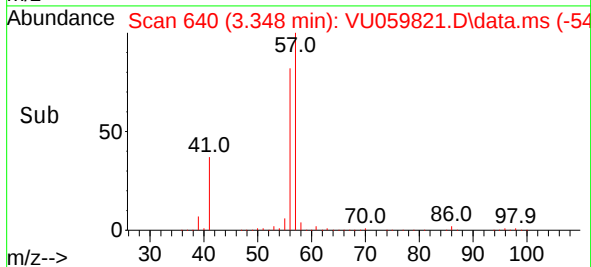
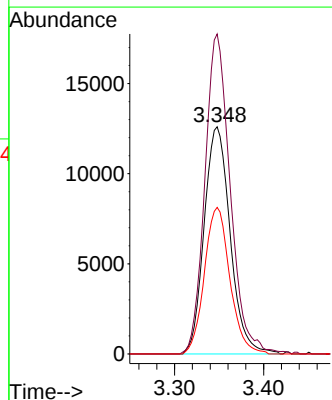
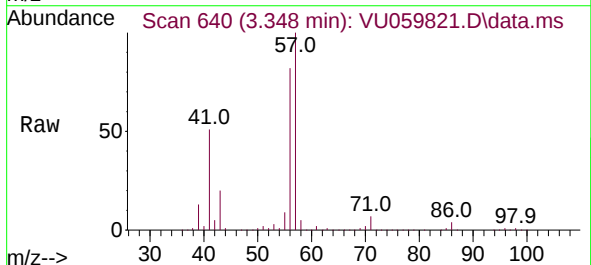


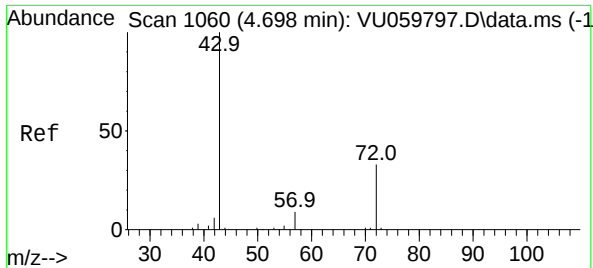
Tgt Ion: 84 Resp: 83687
Ion Ratio Lower Upper
84 100
86 0.0 42.1 78.1#
49 1.3 80.6 149.8#



#18
trans-1,2-Dichloroethene
Concen: 1.579 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.003 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

Tgt Ion: 96 Resp: 25643
Ion Ratio Lower Upper
96 100
61 140.8 101.8 189.0
98 64.5 43.3 80.5

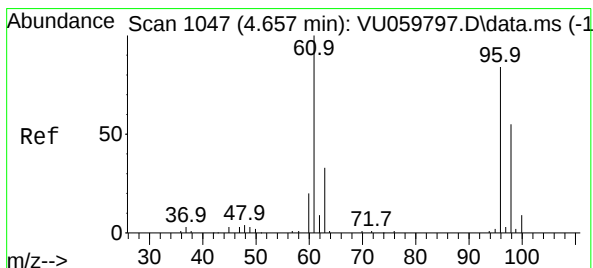
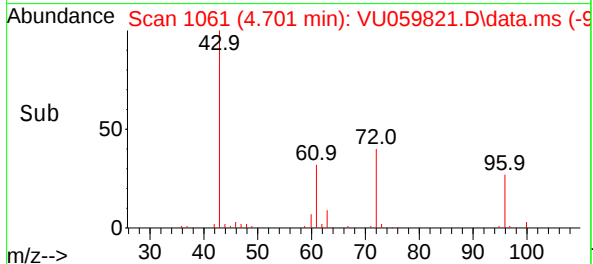
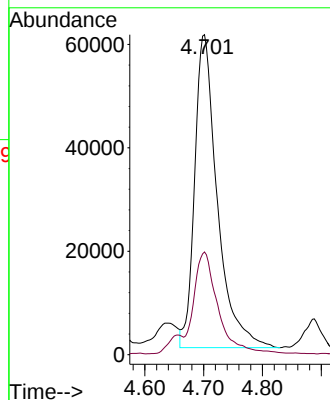
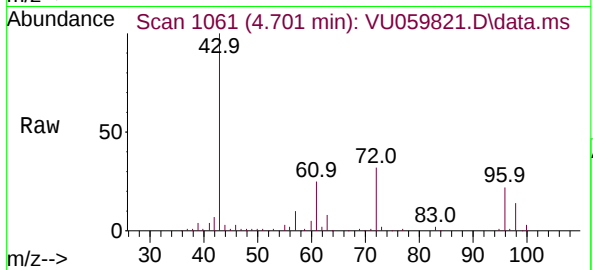




#21
2-Butanone
Concen: 49.410 ug/L
RT: 4.701 min Scan# 1061
Delta R.T. 0.003 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

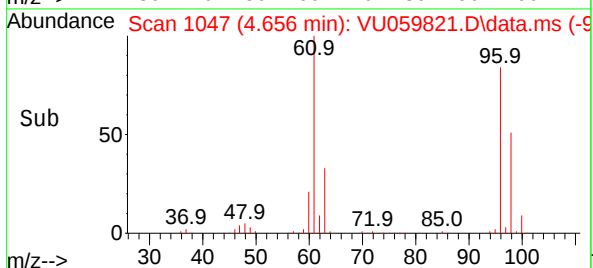
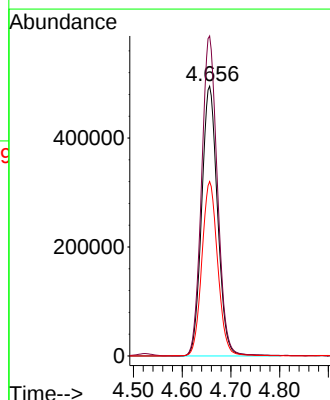
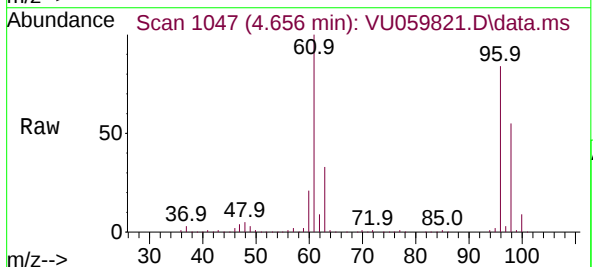
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MSVOA_U
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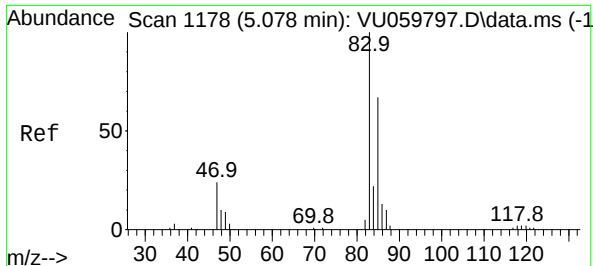
Tgt Ion: 43 Resp: 162143
Ion Ratio Lower Upper
43 100
72 34.0 13.8 41.4



#22
cis-1,2-Dichloroethene
Concen: 62.615 ug/L
RT: 4.656 min Scan# 1047
Delta R.T. -0.000 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

Tgt Ion: 96 Resp: 1120945
Ion Ratio Lower Upper
96 100
61 118.6 87.4 162.2
98 64.7 42.3 78.5





#25

Chloroform

Concen: 5.524 ug/L

RT: 5.119 min Scan# 1178

Delta R.T. 0.042 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Instrument :

MSVOA_U

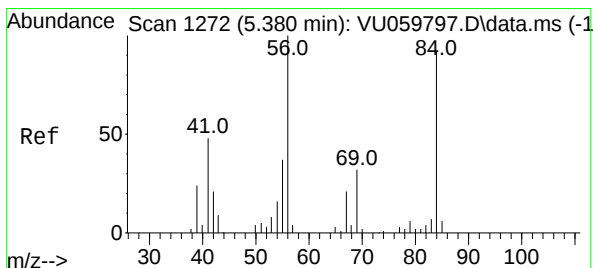
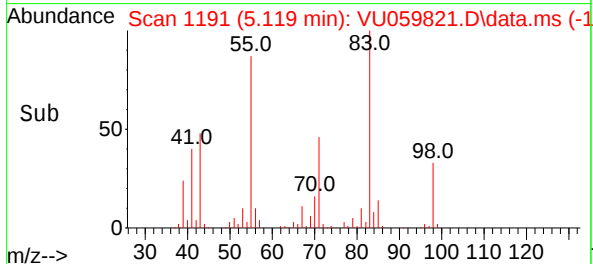
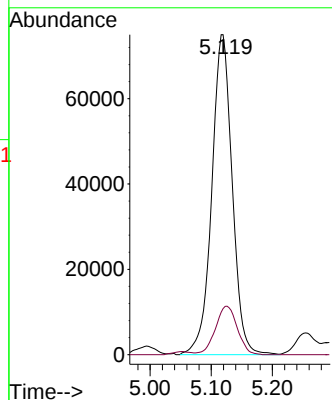
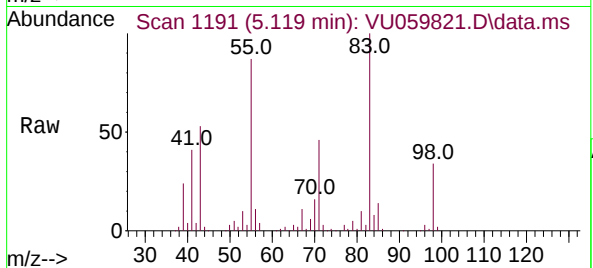
ClientSampleId :

Tgt Ion: 83 Resp: 174246

Ion Ratio Lower Upper

83 100

85 14.4 44.7 83.1#



#30

Cyclohexane

Concen: 192.366 ug/L

RT: 5.383 min Scan# 1273

Delta R.T. 0.003 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

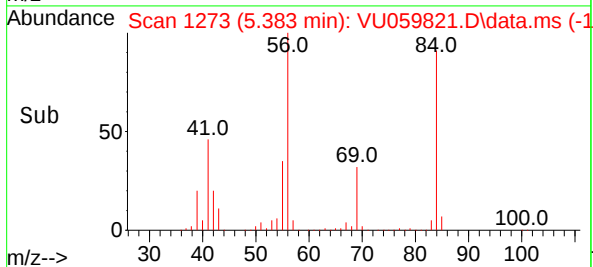
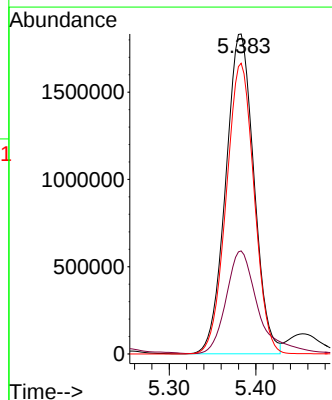
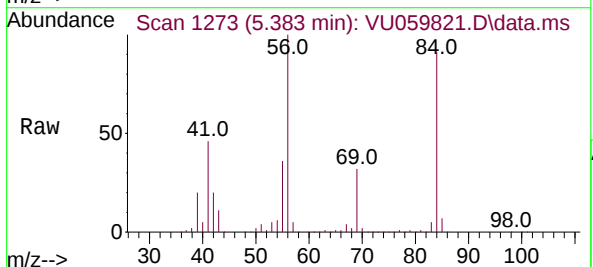
Tgt Ion: 56 Resp: 4153832

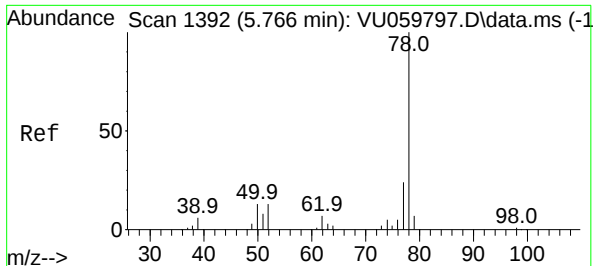
Ion Ratio Lower Upper

56 100

69 36.8 24.8 37.2

84 89.8 69.8 104.8





#33

Benzene

Concen: 0.190 ug/L

RT: 5.772 min Scan# 1392

Delta R.T. 0.006 min

Lab File: VU059821.D

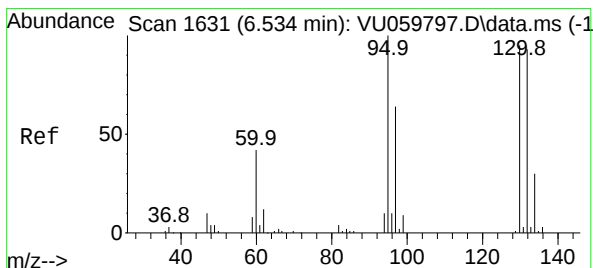
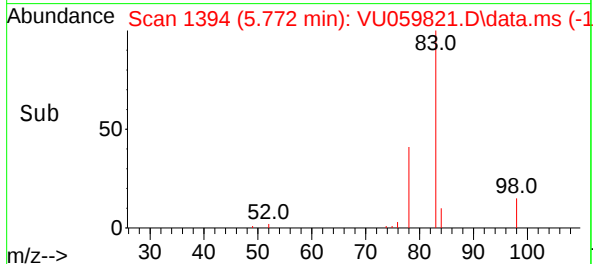
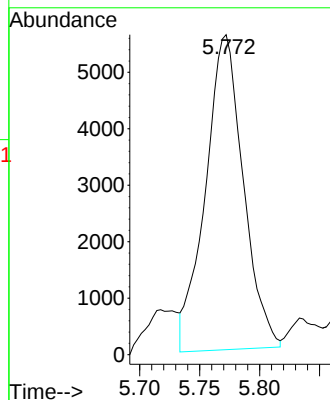
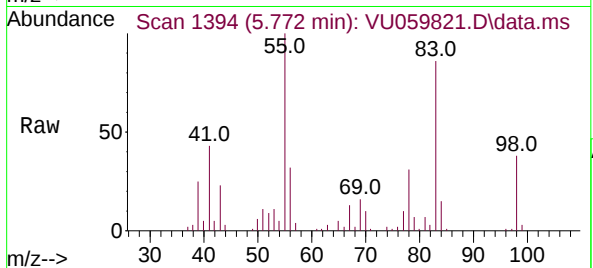
Acq: 04 Jul 2024 00:53

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 12216



#34

Trichloroethene

Concen: 2.848 ug/L

RT: 6.537 min Scan# 1632

Delta R.T. 0.003 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Tgt Ion: 95 Resp: 49608

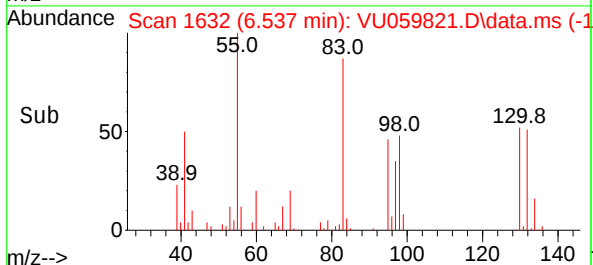
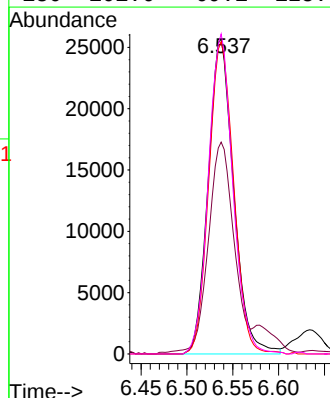
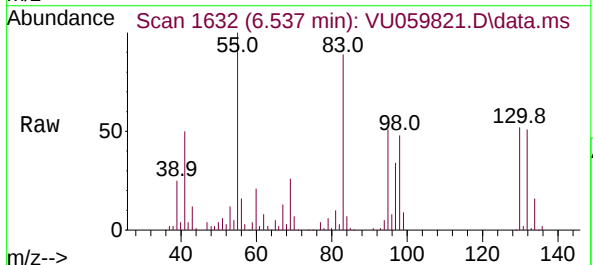
Ion Ratio Lower Upper

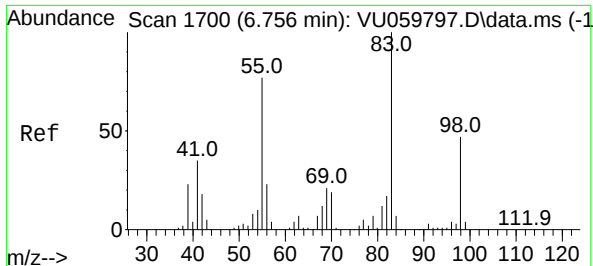
95 100

97 67.3 45.3 84.1

132 99.1 64.0 119.0

130 101.6 69.1 128.3

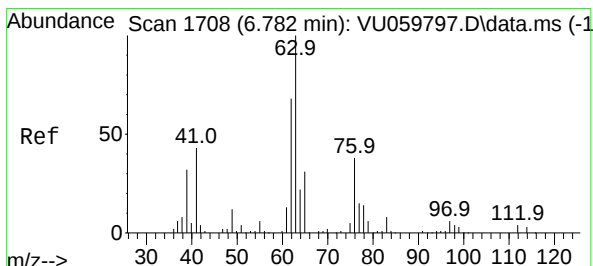
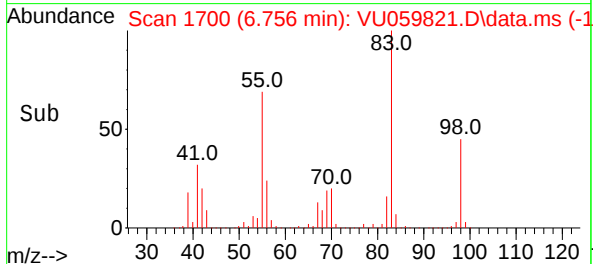
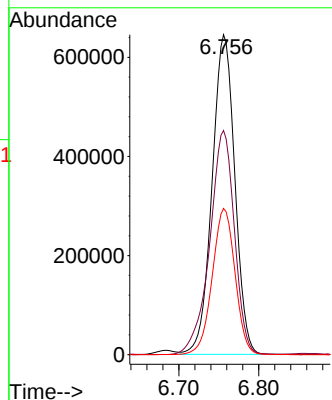
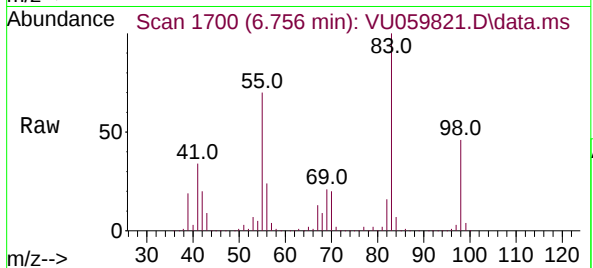




#35
Methylcyclohexane
Concen: 51.292 ug/L
RT: 6.756 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

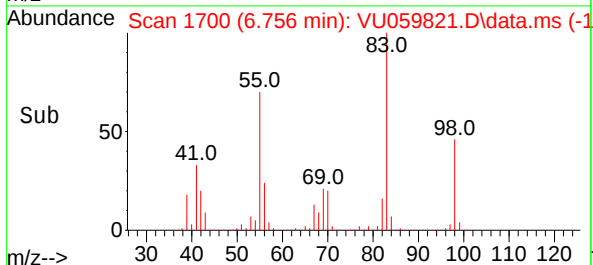
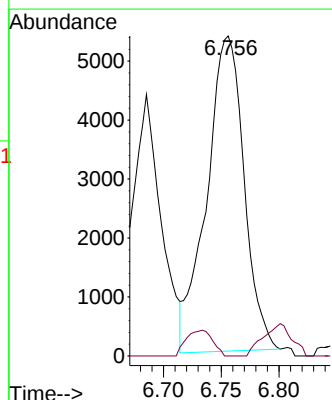
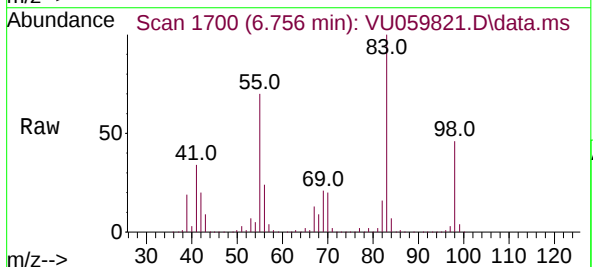
Instrument :
MSVOA_U
ClientSampleId :

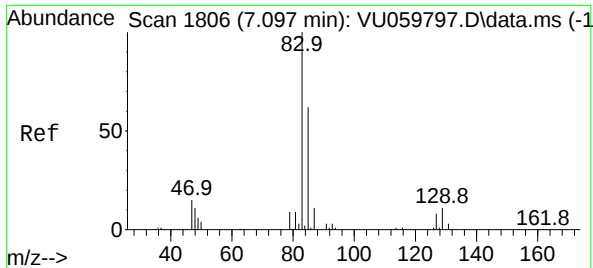
Tgt Ion: 83 Resp: 1271268
Ion Ratio Lower Upper
83 100
55 76.2 62.7 94.1
98 45.9 35.4 53.0



#37
1,2-Dichloropropane
Concen: 0.723 ug/L
RT: 6.756 min Scan# 1700
Delta R.T. -0.026 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

Tgt Ion: 63 Resp: 12032
Ion Ratio Lower Upper
63 100
112 5.7 2.6 3.8#

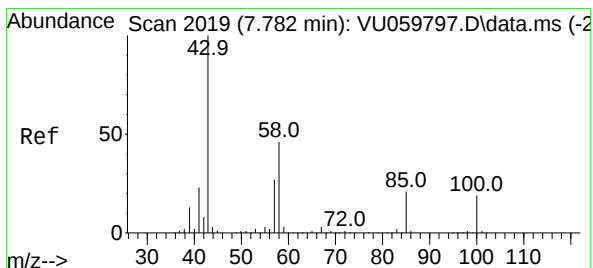
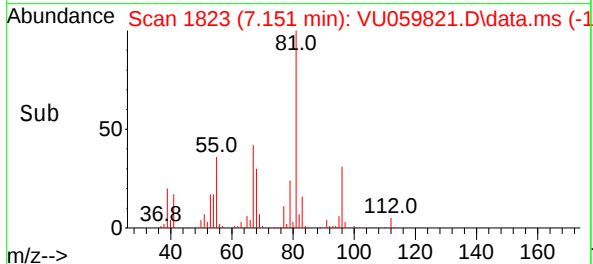
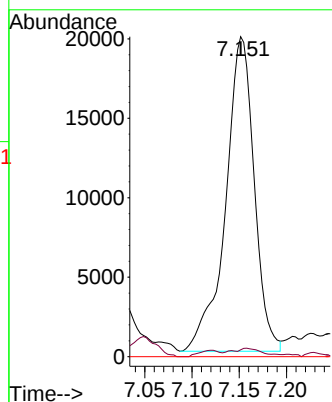
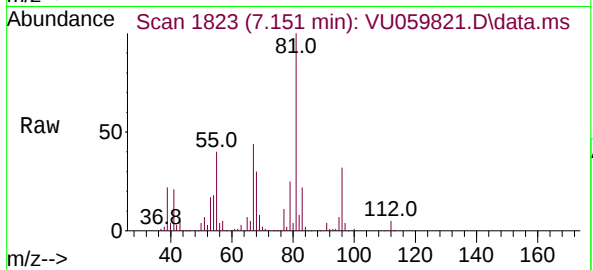




#38
Bromodichloromethane
Concen: 2.008 ug/L
RT: 7.151 min Scan# 1823
Delta R.T. 0.054 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

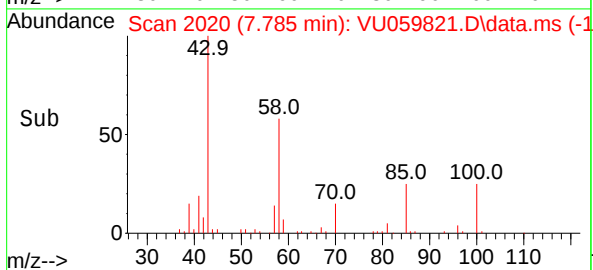
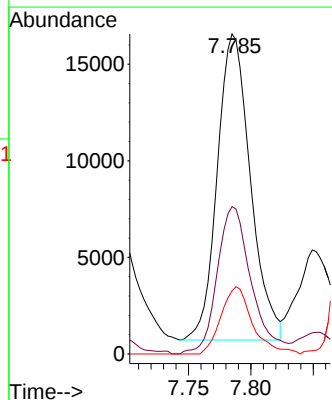
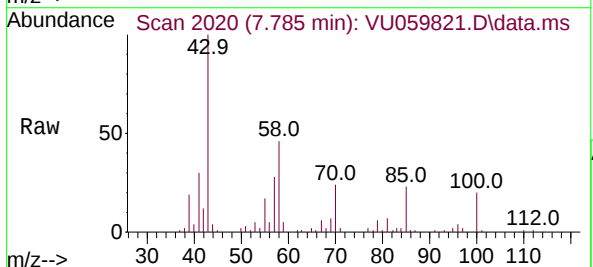
Instrument :
MSVOA_U
ClientSampleId :

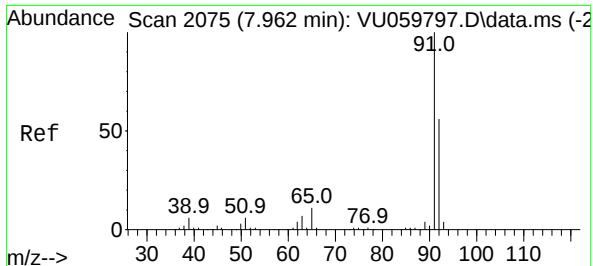
Tgt Ion: 83 Resp: 41722
Ion Ratio Lower Upper
83 100
85 2.1 42.7 79.3#
127 0.0 6.1 9.1#



#40
4-Methyl-2-pentanone
Concen: 3.803 ug/L
RT: 7.785 min Scan# 2020
Delta R.T. 0.003 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

Tgt Ion: 43 Resp: 29329
Ion Ratio Lower Upper
43 100
58 49.4 34.0 51.0
100 20.8 12.1 18.1#





#42

Toluene

Concen: 69.382 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.000 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Instrument :

MSVOA_U

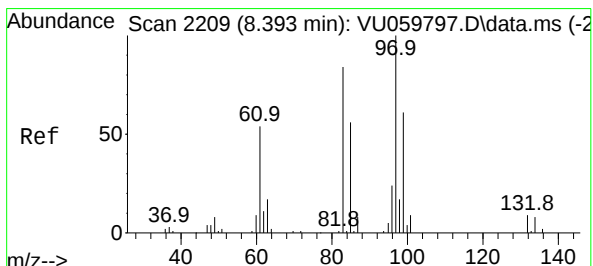
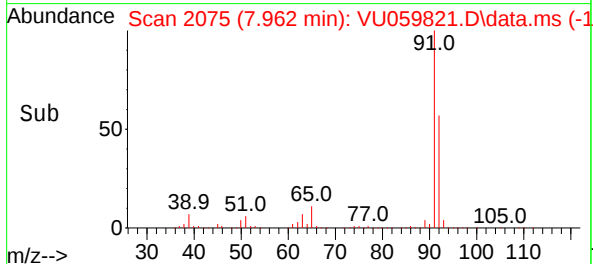
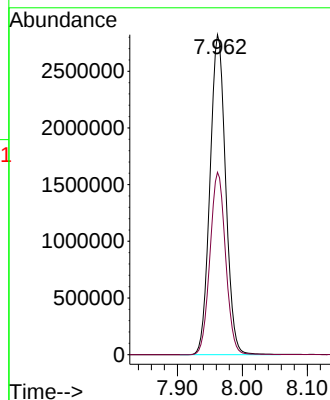
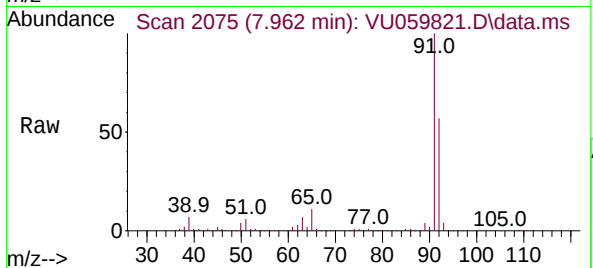
ClientSampleId :

Tgt Ion: 91 Resp: 4724534

Ion Ratio Lower Upper

91 100

92 57.0 39.7 73.7



#45

1,1,2-Trichloroethane

Concen: 4.731 ug/L

RT: 8.364 min Scan# 2200

Delta R.T. -0.029 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Tgt Ion: 97 Resp: 58030

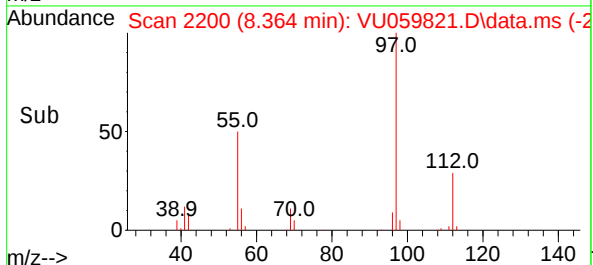
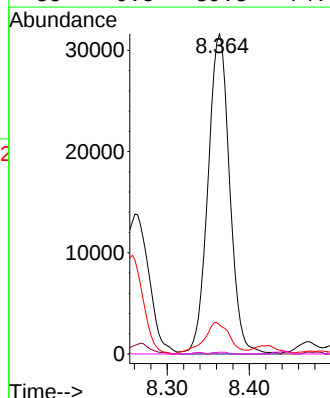
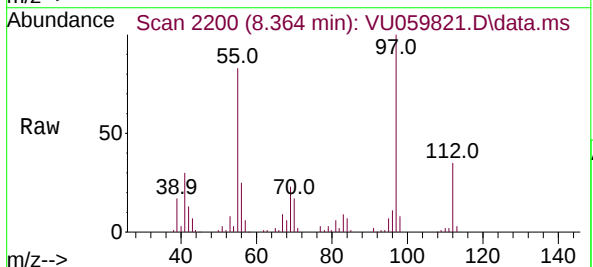
Ion Ratio Lower Upper

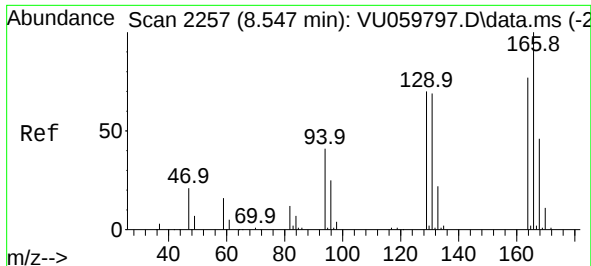
97 100

99 0.0 43.3 80.3#

83 9.1 62.3 115.7#

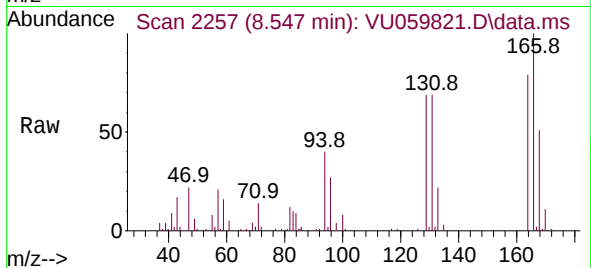
85 0.5 39.8 74.0#



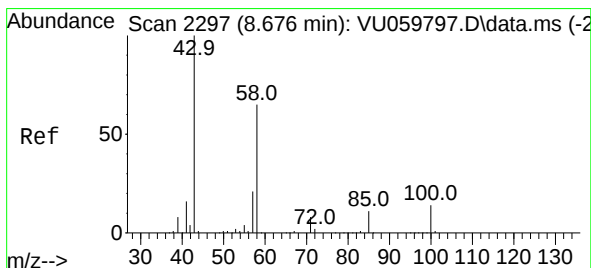
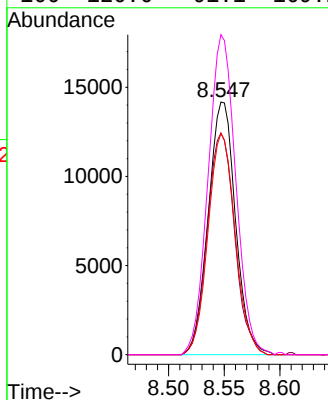
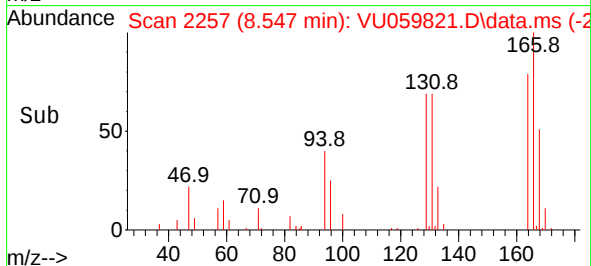


#47
Tetrachloroethene
Concen: 1.791 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.000 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

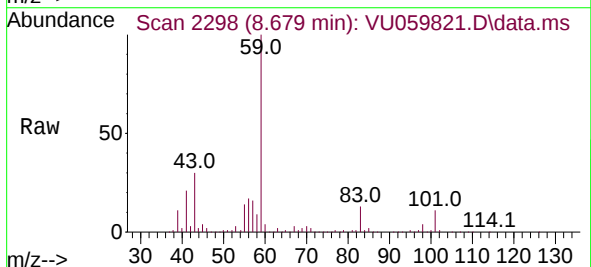
Instrument :
MSVOA_U
ClientSampleId :



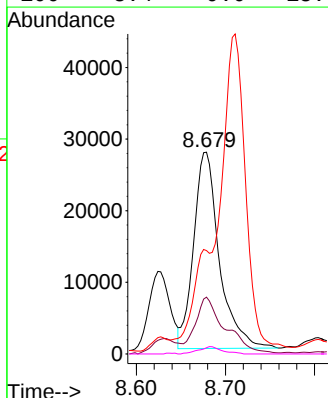
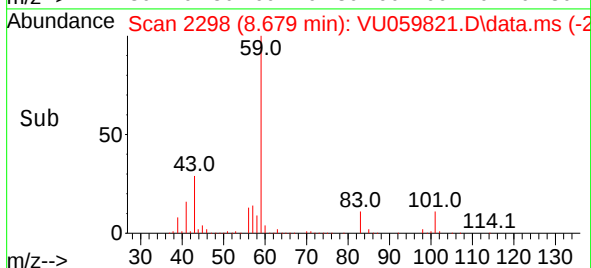
Tgt Ion:164 Resp: 24207
Ion Ratio Lower Upper
164 100
129 87.7 70.8 131.4
131 87.5 64.8 120.3
166 126.6 91.1 169.1

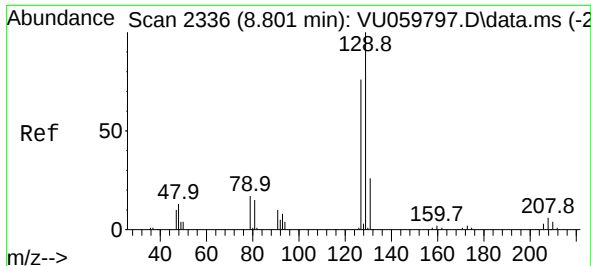


#48
2-Hexanone
Concen: 10.011 ug/L
RT: 8.679 min Scan# 2298
Delta R.T. 0.003 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53



Tgt Ion: 43 Resp: 55106
Ion Ratio Lower Upper
43 100
58 32.4 46.1 69.1#
57 35.0 15.5 23.3#
100 3.4 9.0 13.6#





#49

Dibromochloromethane

Concen: 1.561 ug/L

RT: 8.547 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Instrument :

MSVOA_U

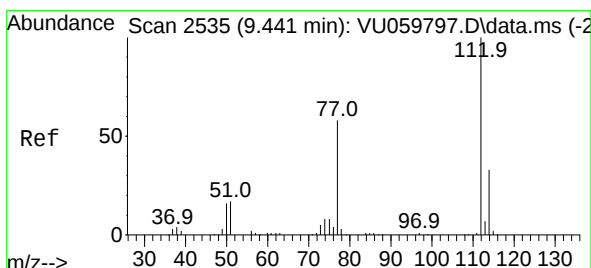
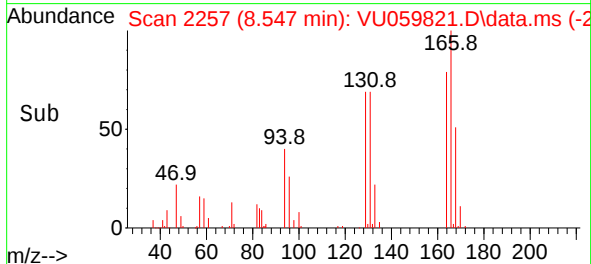
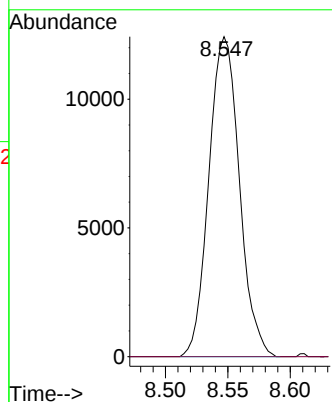
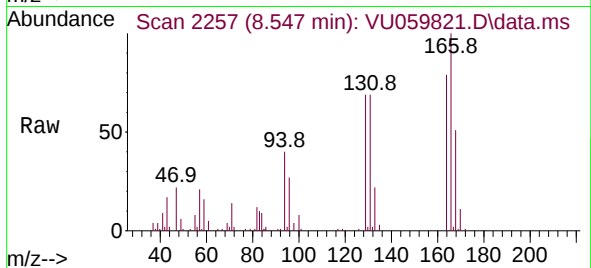
ClientSampleId :

Tgt Ion:129 Resp: 21209

Ion Ratio Lower Upper

129 100

127 0.0 52.5 97.5#



#51

Chlorobenzene

Concen: 0.304 ug/L

RT: 9.659 min Scan# 2603

Delta R.T. 0.218 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

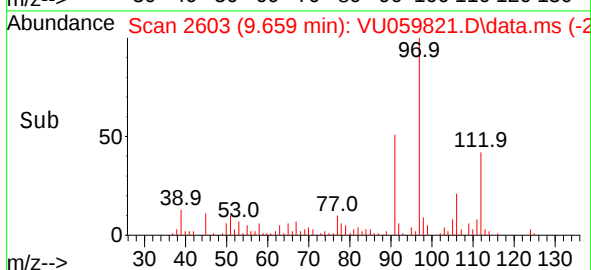
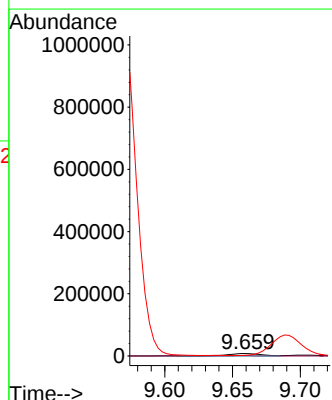
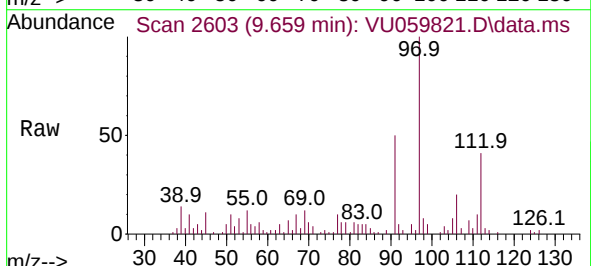
Tgt Ion:112 Resp: 13112

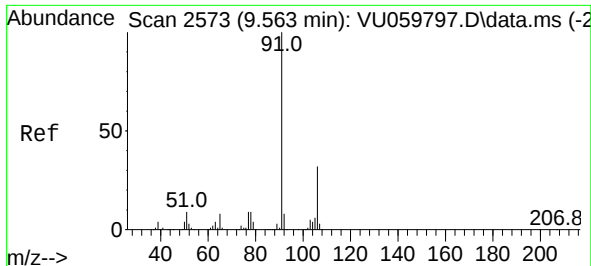
Ion Ratio Lower Upper

112 100

114 5.1 22.4 41.6#

77 25.6 49.1 73.7#





#52

Ethylbenzene

Concen: 11.185 ug/L

RT: 9.688 min Scan# 2

Delta R.T. 0.125 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Instrument :

MSVOA_U

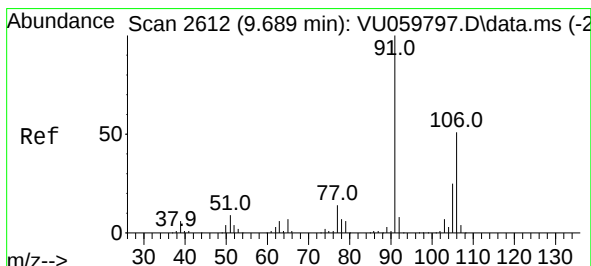
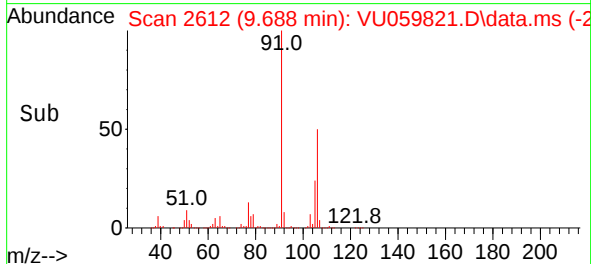
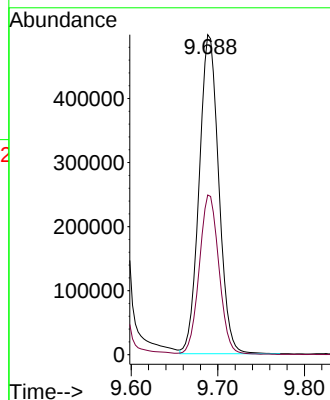
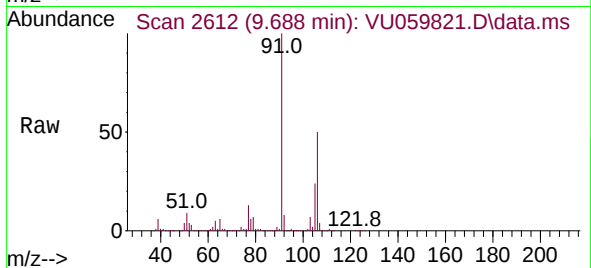
ClientSampleId :

Tgt Ion: 91 Resp: 781281

Ion Ratio Lower Upper

91 100

106 49.9 20.9 38.7#



#53

m,p-Xylene

Concen: 14.589 ug/L

RT: 9.688 min Scan# 2612

Delta R.T. -0.000 min

Lab File: VU059821.D

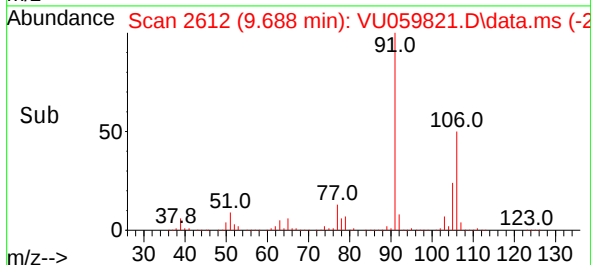
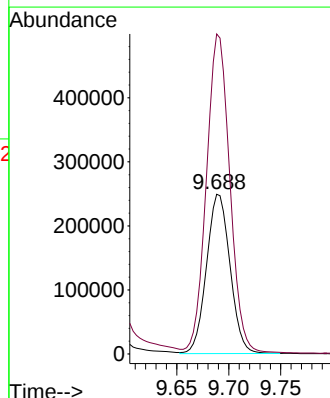
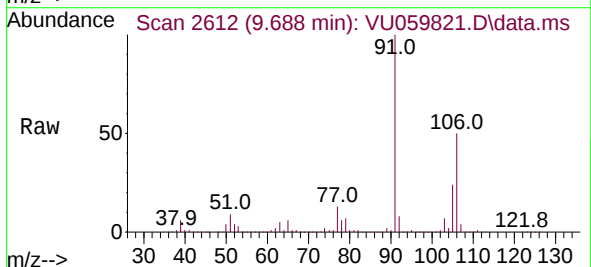
Acq: 04 Jul 2024 00:53

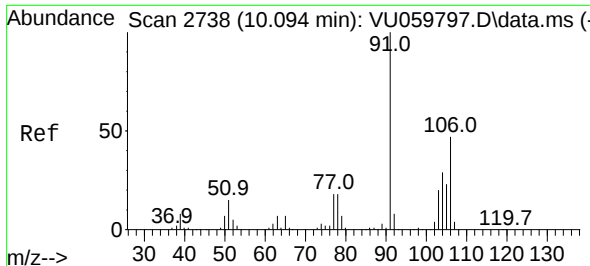
Tgt Ion:106 Resp: 391395

Ion Ratio Lower Upper

106 100

91 200.3 142.0 263.8

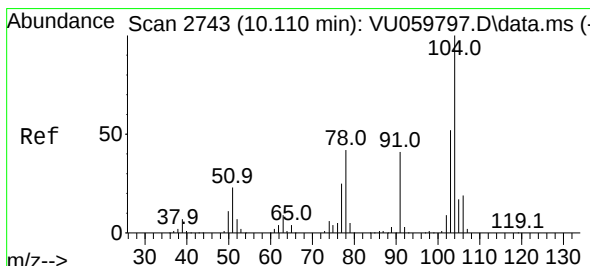
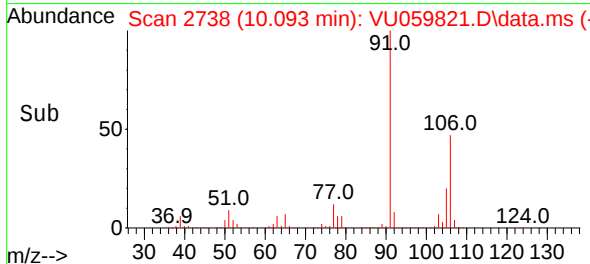
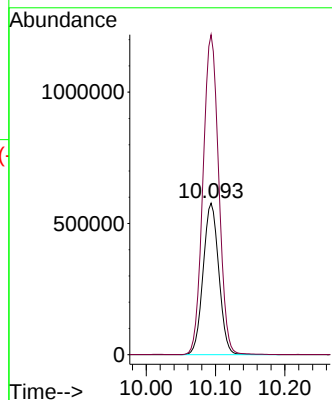
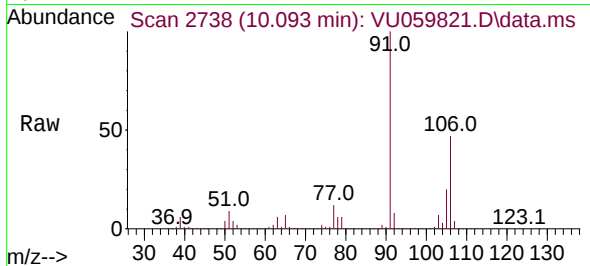




#54
o-Xylene
Concen: 35.560 ug/L
RT: 10.093 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

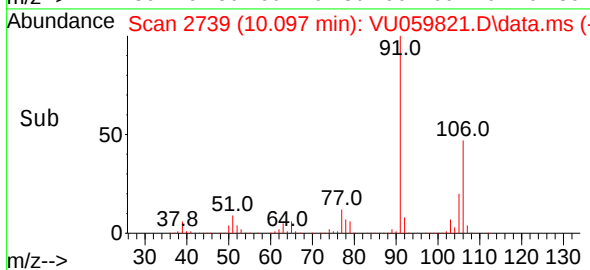
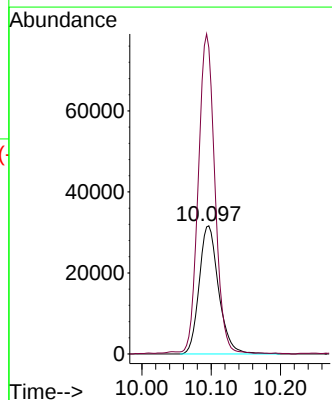
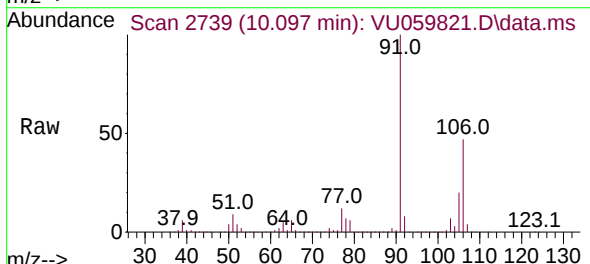
Instrument :
MSVOA_U
ClientSampleId :

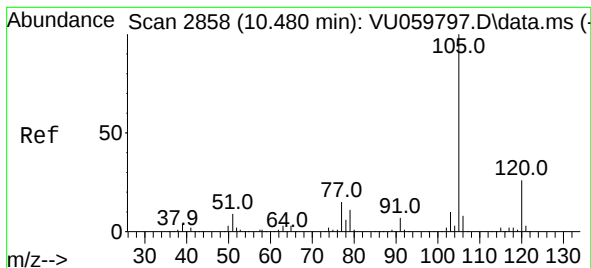
Tgt Ion:106 Resp: 905370
Ion Ratio Lower Upper
106 100
91 211.2 151.6 281.6



#55
Styrene
Concen: 1.425 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. -0.013 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

Tgt Ion:104 Resp: 61777
Ion Ratio Lower Upper
104 100
78 239.1 32.3 60.1#





#60

Isopropylbenzene

Concen: 11.944 ug/L

RT: 10.476 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Instrument :

MSVOA_U

ClientSampleId :

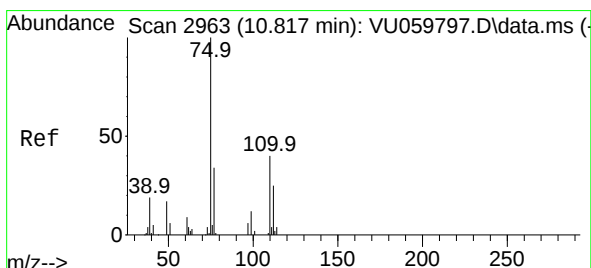
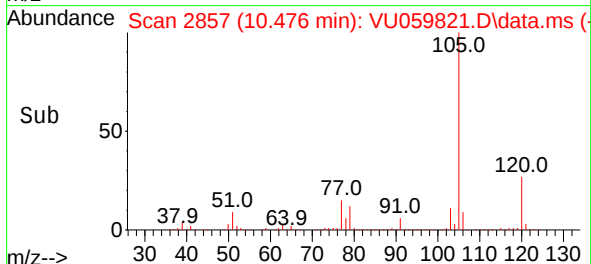
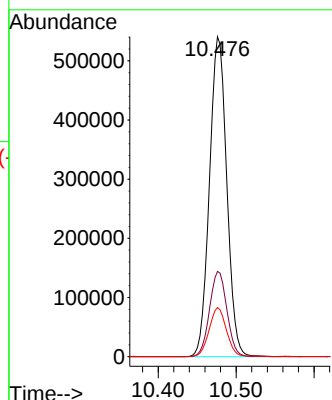
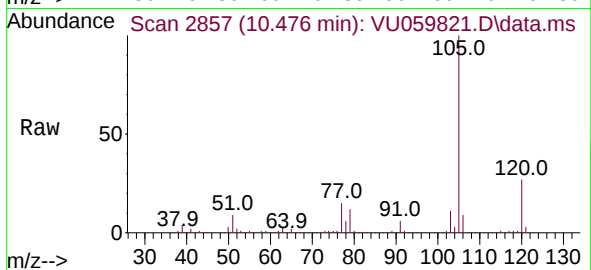
Tgt Ion:105 Resp: 832954

Ion Ratio Lower Upper

105 100

120 26.8 20.6 31.0

77 15.3 12.8 19.2



#61

1,2,3-Trichloropropane

Concen: 1.658 ug/L

RT: 10.897 min Scan# 2988

Delta R.T. 0.080 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

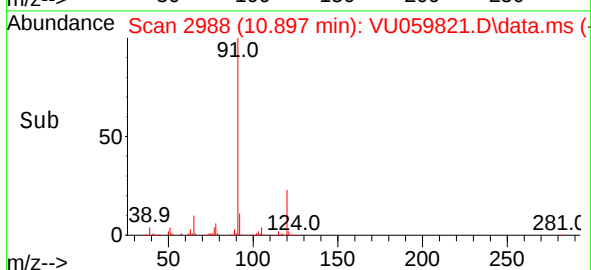
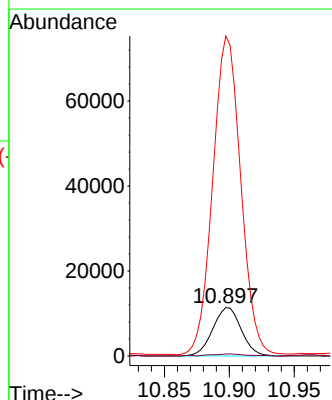
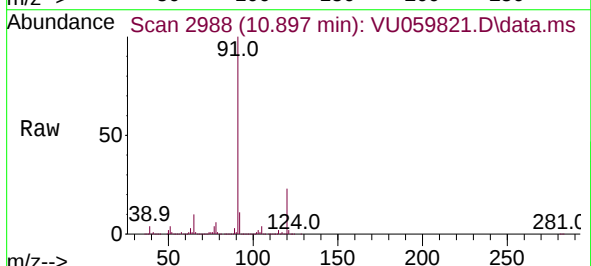
Tgt Ion: 75 Resp: 17295

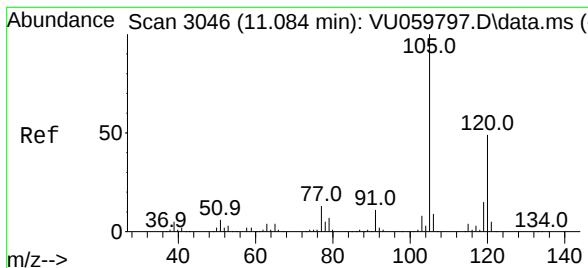
Ion Ratio Lower Upper

75 100

110 4.9 27.1 40.7#

77 648.9 25.4 38.2#

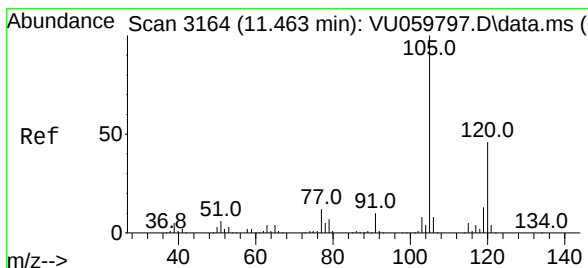
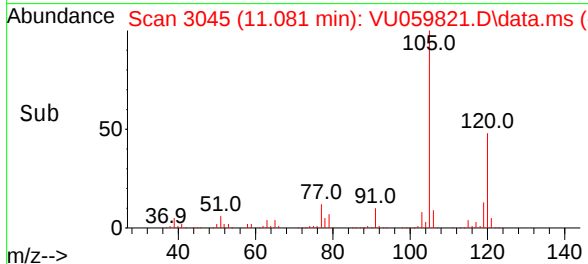
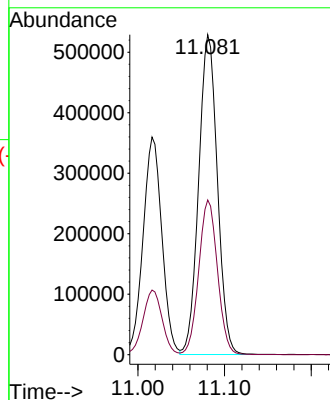
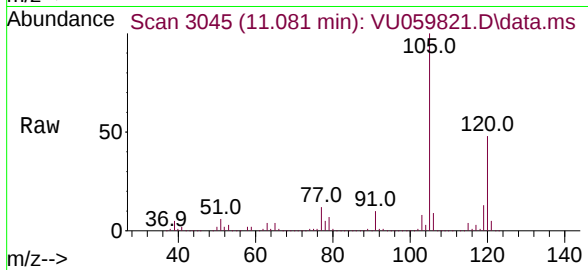




#62
1,3,5-Trimethylbenzene
Concen: 14.313 ug/L
RT: 11.081 min Scan# 3046
Delta R.T. -0.003 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

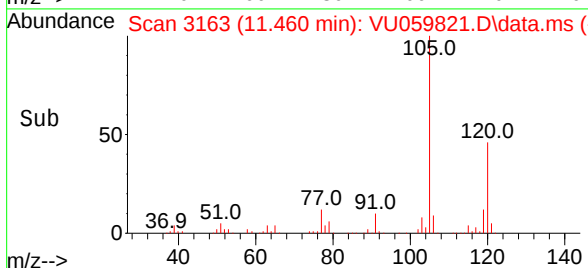
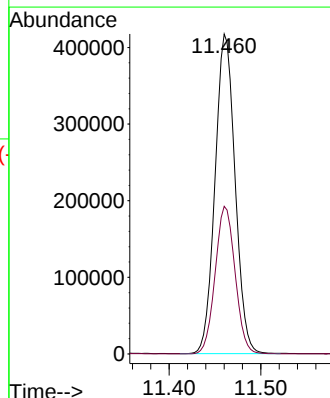
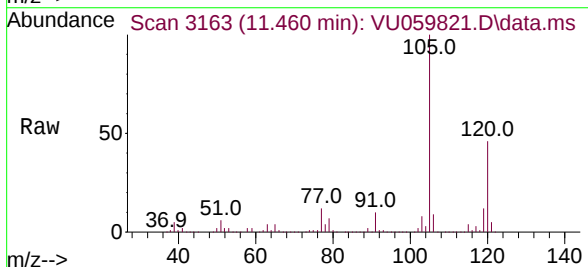
Instrument :
MSVOA_U
ClientSampleId :

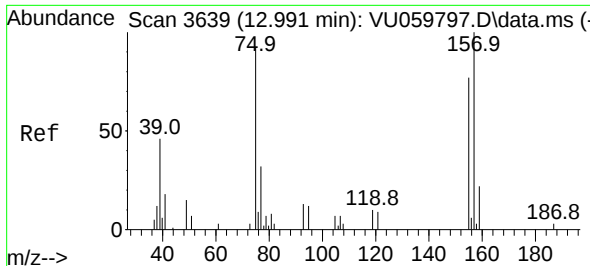
Tgt Ion:105 Resp: 790754
Ion Ratio Lower Upper
105 100
120 48.4 38.2 57.4



#63
1,2,4-Trimethylbenzene
Concen: 11.988 ug/L
RT: 11.460 min Scan# 3163
Delta R.T. -0.003 min
Lab File: VU059821.D
Acq: 04 Jul 2024 00:53

Tgt Ion:105 Resp: 633216
Ion Ratio Lower Upper
105 100
120 45.8 35.4 53.0





#68

1,2-Dibromo-3-chloropropane

Concen: 2.421 ug/L

RT: 13.016 min Scan# 3647

Delta R.T. 0.026 min

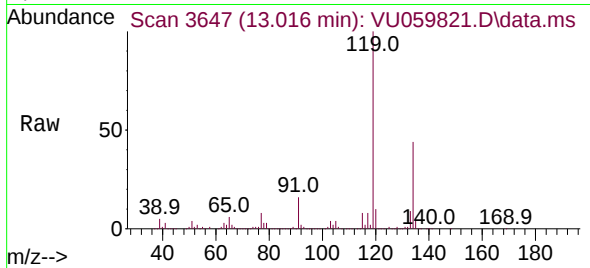
Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Instrument :

MSVOA_U

ClientSampleId :



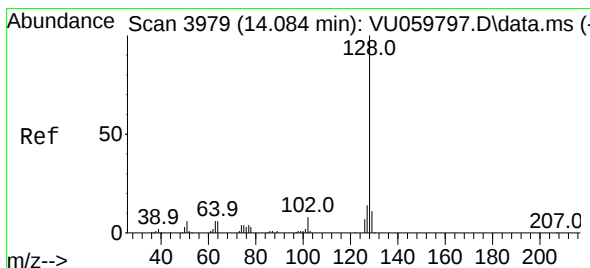
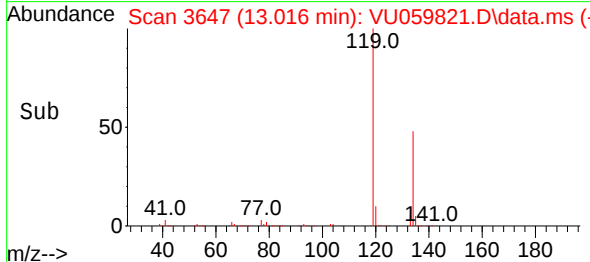
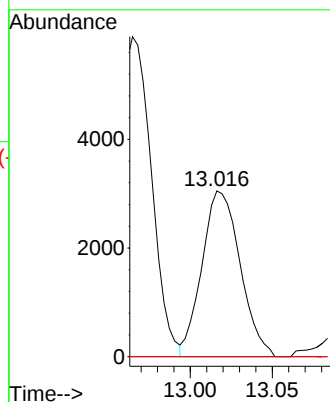
Tgt Ion: 75 Resp: 4927

Ion Ratio Lower Upper

75 100

155 0.0 58.2 87.2#

157 0.0 80.0 120.0#



#71

Naphthalene

Concen: 68.642 ug/L

RT: 14.077 min Scan# 3977

Delta R.T. -0.007 min

Lab File: VU059821.D

Acq: 04 Jul 2024 00:53

Tgt Ion:128 Resp: 1978814

Ion Ratio Lower Upper

128 100

129 11.1 8.2 12.4

127 12.8 10.2 15.4

