

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U071624\
 Data File : VU059976.D
 Acq On : 16 Jul 2024 15:55
 Operator : MD/SY
 Sample : P3217-21
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 17 02:30:55 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	6.248	114	125876	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	131139	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	72081	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	33546	3.833	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.600%
7) Chloroethane-d5	1.907	69	31157	3.700	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.000%
11) 1,1-Dichloroethene-d2	2.557	65	13925	3.835	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.600%
20) 2-Butanone-d5	4.621	46	127646	70.798	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	141.600%#
24) Chloroform-d	5.058	84	67718	3.769	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.400%
26) 1,2-Dichloroethane-d4	5.701	65	39956	4.617	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.400%
32) Benzene-d6	5.724	84	136493	3.782	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.600%
36) 1,2-Dichloropropane-d6	6.688	67	44853	4.056	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.200%
41) Toluene-d8	7.897	98	118622	3.535	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.800%
43) trans-1,3-Dichloroprop...	8.180	79	16752	4.837	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.800%
46) 2-Hexanone-d5	8.630	63	120859	83.994	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	167.980%#
56) 1,1,2,2-Tetrachloroeth...	10.753	84	48209	5.276	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.600%
66) 1,2-Dichlorobenzene-d4	12.190	152	56176	4.379	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	12624	0.996	ug/L	90
8) Chloroethane	1.930	64	463776	60.697	ug/L	100
13) Acetone	2.624	43	20573	17.591	ug/L	95
14) Carbon disulfide	2.788	76	3285	0.110	ug/L	99
17) Methyl tert-butyl Ether	3.370	73	1932	0.100	ug/L #	47
18) trans-1,2-Dichloroethene	3.348	96	5923	0.638	ug/L	85
21) 2-Butanone	4.724	43	8159	4.349	ug/L	87
22) cis-1,2-Dichloroethene	4.660	96	11488	1.123	ug/L	89
27) 1,2-Dichloroethane	5.769	62	18553	1.698	ug/L #	74
30) Cyclohexane	5.383	56	80433	6.016	ug/L	96
33) Benzene	5.769	78	2270071	57.003	ug/L	100
35) Methylcyclohexane	6.759	83	121316	7.905	ug/L	99
42) Toluene	7.971	91	27829	0.660	ug/L	100
45) 1,1,2-Trichloroethane	8.367	97	5498	0.724	ug/L #	22
48) 2-Hexanone	8.627	43	452509	132.773	ug/L #	38
51) Chlorobenzene	9.444	112	2741934	102.539	ug/L	96
52) Ethylbenzene	9.569	91	64546	1.492	ug/L	97
53) m,p-Xylene	9.692	106	24988	1.504	ug/L	98
54) o-Xylene	10.103	106	4465	0.283	ug/L	88

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

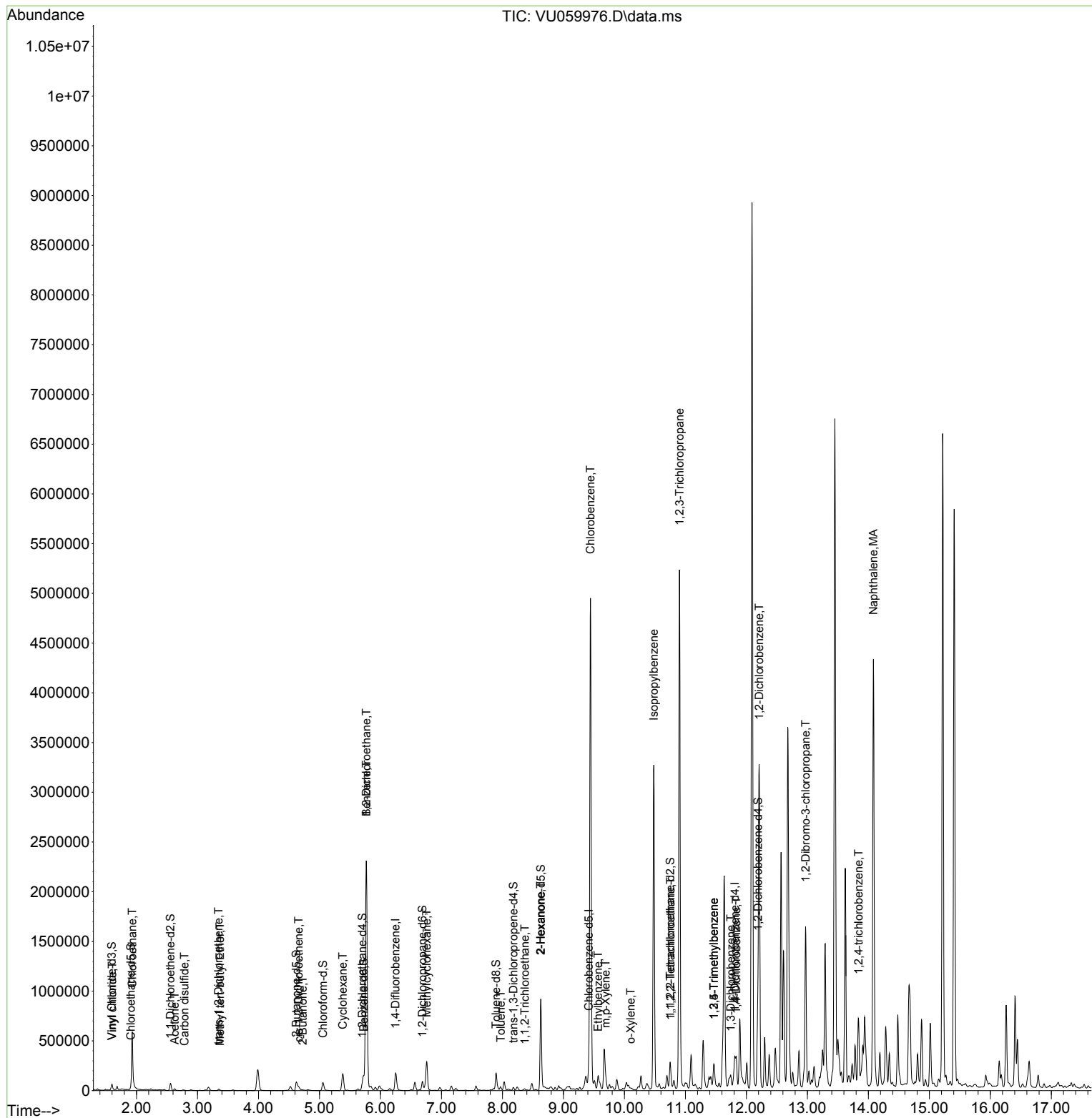
57) 1,1,2,2-Tetrachloroethane	10.756	83	928	0.101	ug/L #	19
60) Isopropylbenzene	10.483	105	2156938	48.441	ug/L	98
61) 1,2,3-Trichloropropane	10.904	75	23291	3.497	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.466	105	111896	3.172	ug/L	97
63) 1,2,4-Trimethylbenzene	11.466	105	111896	3.318	ug/L	98
64) 1,3-Dichlorobenzene	11.746	146	18596	0.821	ug/L	97
65) 1,4-Dichlorobenzene	11.836	146	113109	4.852	ug/L	97
67) 1,2-Dichlorobenzene	12.209	146	1199706	56.292	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.971	75	6875	5.292	ug/L #	7
70) 1,2,4-trichlorobenzene	13.839	180	9538	0.742	ug/L #	1
71) Naphthalene	14.084	128	3448549	187.356	ug/L	99

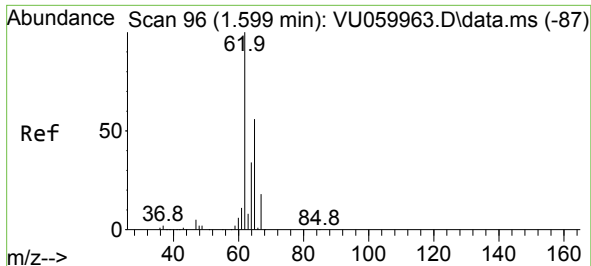
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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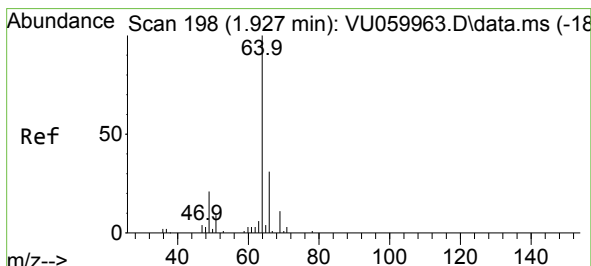
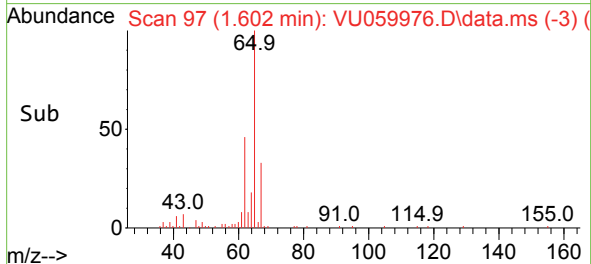
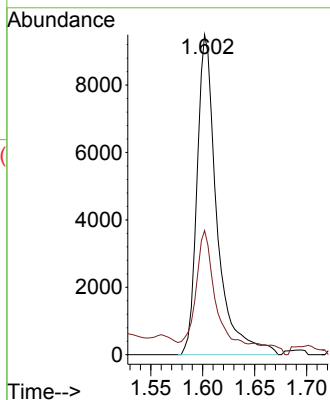
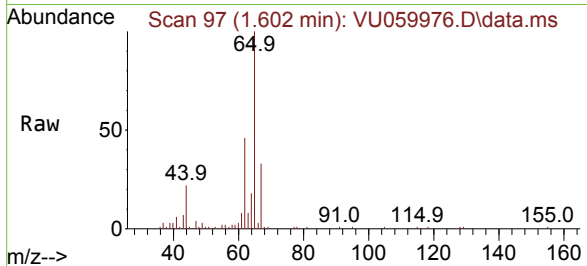




#5
 Vinyl chloride
 Concen: 0.996 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. 0.003 min
 Lab File: VU059976.D
 Acq: 16 Jul 2024 15:55

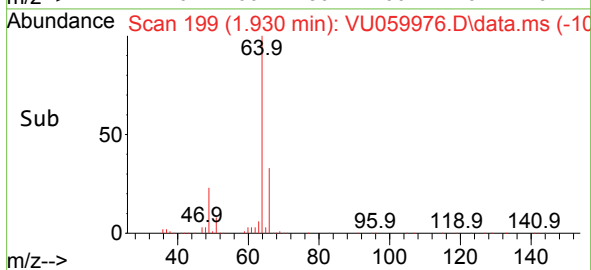
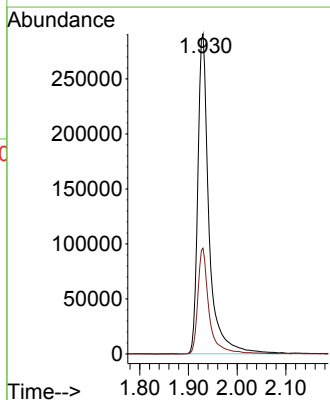
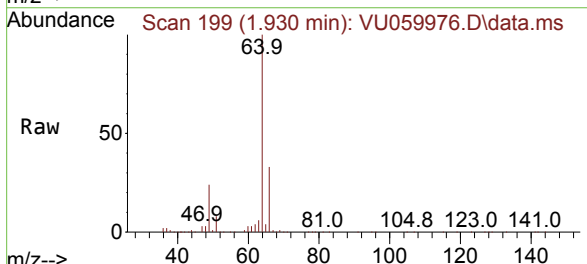
Instrument :
 MSVOA_U
 ClientSampleId :

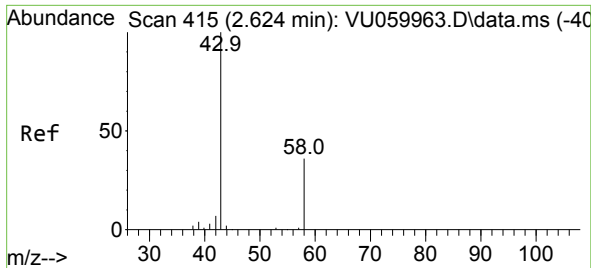
Tgt Ion: 62 Resp: 12624
 Ion Ratio Lower Upper
 62 100
 64 38.8 23.1 42.9



#8
 Chloroethane
 Concen: 60.697 ug/L
 RT: 1.930 min Scan# 199
 Delta R.T. 0.003 min
 Lab File: VU059976.D
 Acq: 16 Jul 2024 15:55

Tgt Ion: 64 Resp: 463776
 Ion Ratio Lower Upper
 64 100
 66 33.1 23.2 43.2





#13

Acetone

Concen: 17.591 ug/L

RT: 2.624 min Scan# 415

Delta R.T. -0.000 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

Instrument :

MSVOA_U

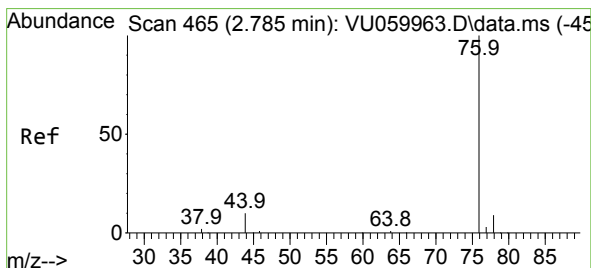
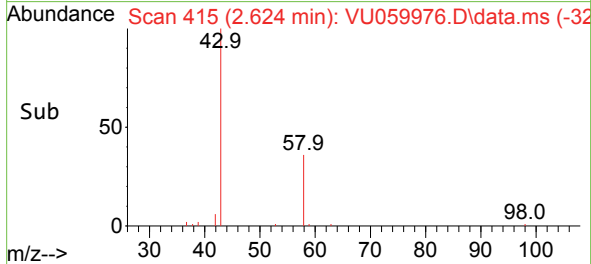
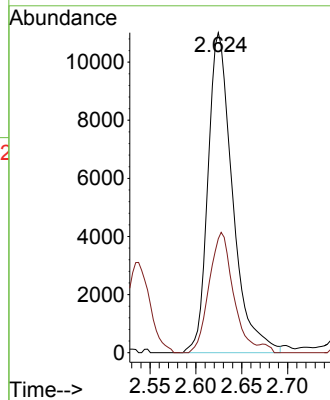
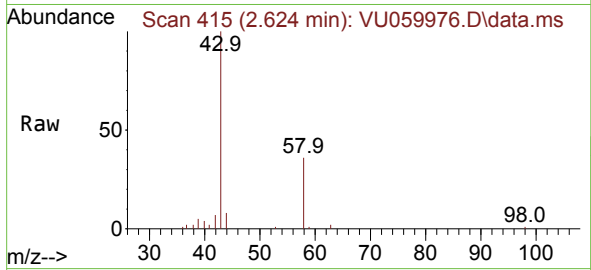
ClientSampleId :

Tgt Ion: 43 Resp: 20573

Ion Ratio Lower Upper

43 100

58 36.8 0.0 68.0



#14

Carbon disulfide

Concen: 0.110 ug/L

RT: 2.788 min Scan# 466

Delta R.T. 0.003 min

Lab File: VU059976.D

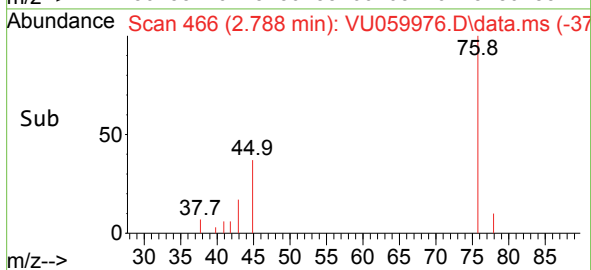
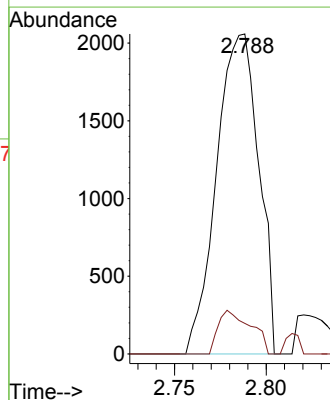
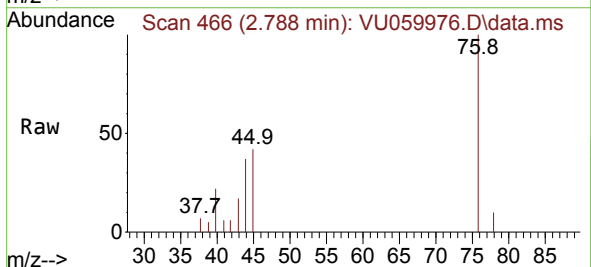
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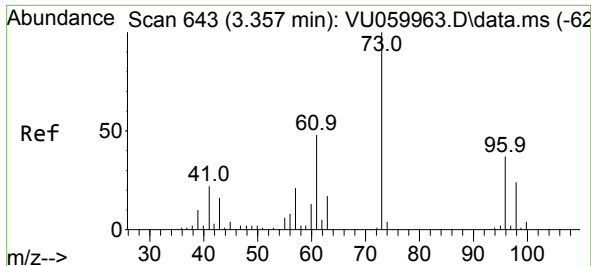
Tgt Ion: 76 Resp: 3285

Ion Ratio Lower Upper

76 100

78 9.5 7.3 10.9





#17

Methyl tert-butyl Ether

Concen: 0.100 ug/L

RT: 3.370 min Scan# 643

Delta R.T. 0.013 min

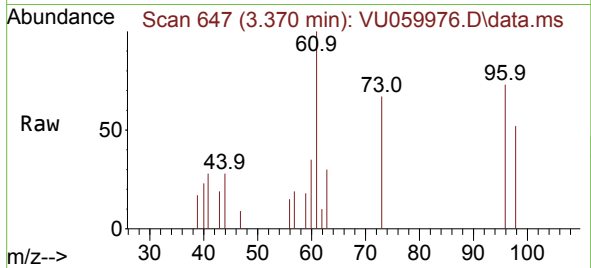
Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

Instrument :

MSVOA_U

ClientSampleId :



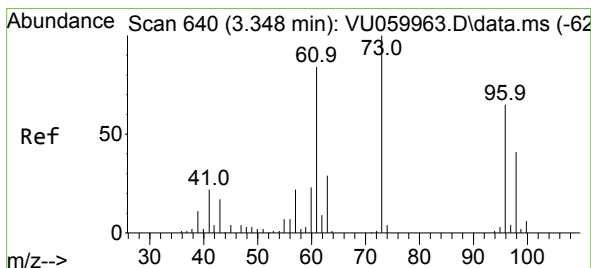
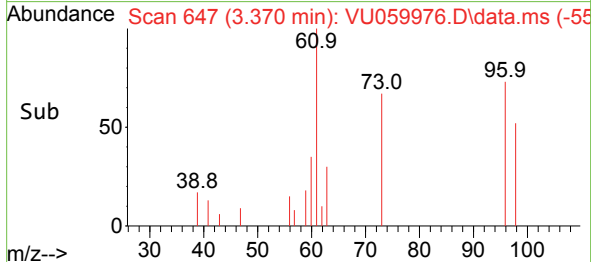
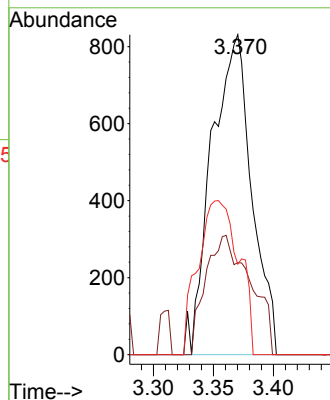
Tgt Ion: 73 Resp: 1932

Ion Ratio Lower Upper

73 100

43 41.7 14.9 22.3#

57 48.9 18.0 27.0#



#18

trans-1,2-Dichloroethene

Concen: 0.638 ug/L

RT: 3.348 min Scan# 640

Delta R.T. -0.000 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

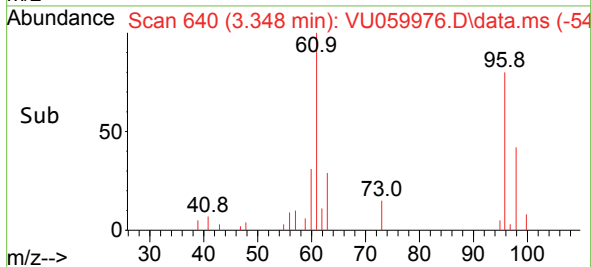
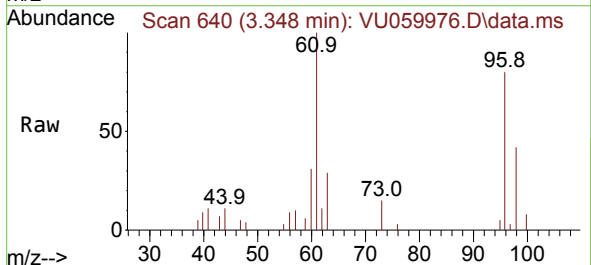
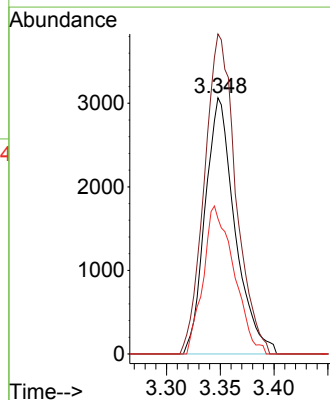
Tgt Ion: 96 Resp: 5923

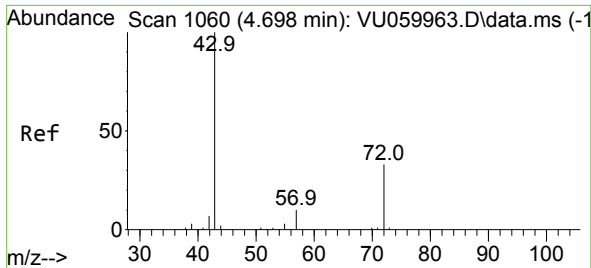
Ion Ratio Lower Upper

96 100

61 124.9 101.8 189.0

98 52.9 43.3 80.5

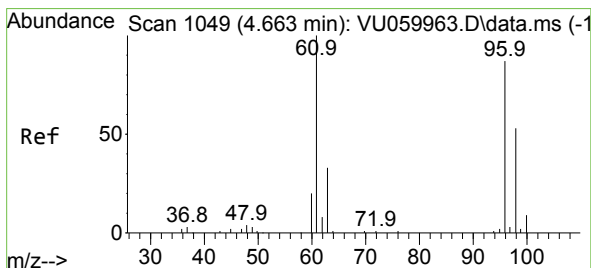
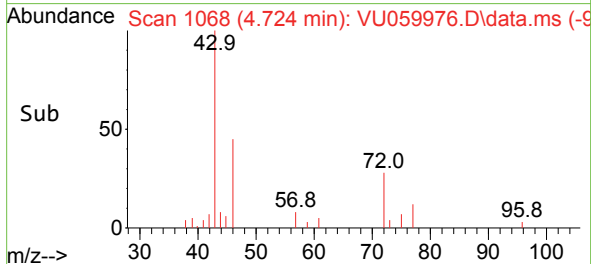
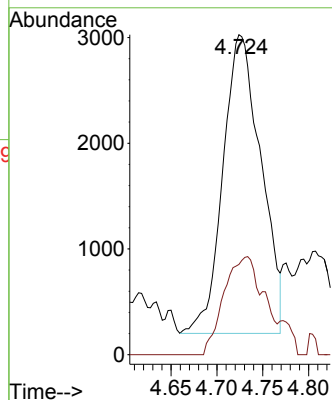
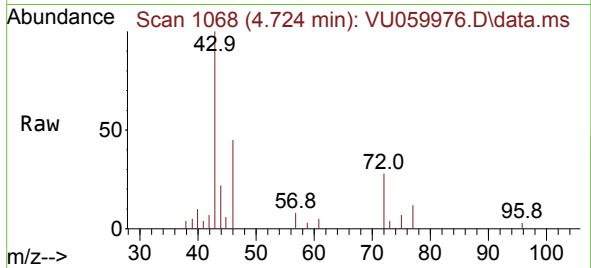




#21
2-Butanone
Concen: 4.349 ug/L
RT: 4.724 min Scan# 1068
Delta R.T. 0.026 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

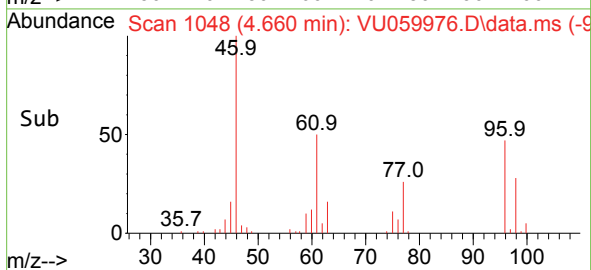
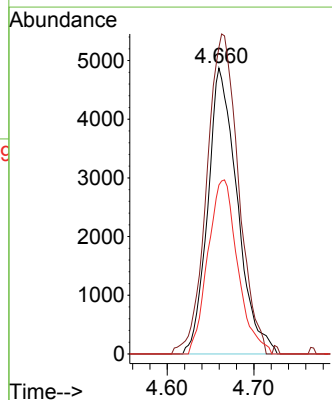
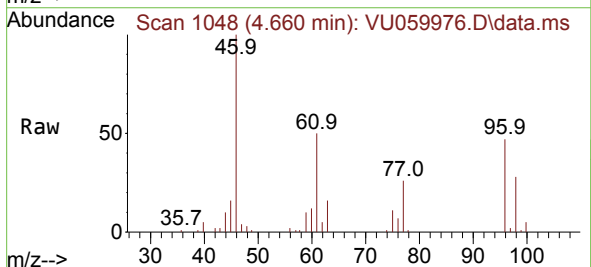
Instrument :
MSVOA_U
ClientSampleId :

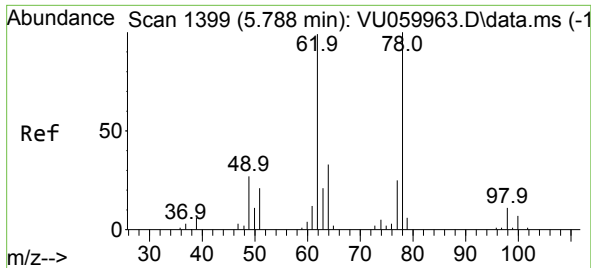
Tgt Ion: 43 Resp: 8159
Ion Ratio Lower Upper
43 100
72 34.1 13.8 41.4



#22
cis-1,2-Dichloroethene
Concen: 1.123 ug/L
RT: 4.660 min Scan# 1048
Delta R.T. -0.003 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

Tgt Ion: 96 Resp: 11488
Ion Ratio Lower Upper
96 100
61 107.2 87.4 162.2
98 59.1 42.3 78.5





#27

1,2-Dichloroethane

Concen: 1.698 ug/L

RT: 5.769 min Scan# 1

Delta R.T. -0.019 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

Instrument :

MSVOA_U

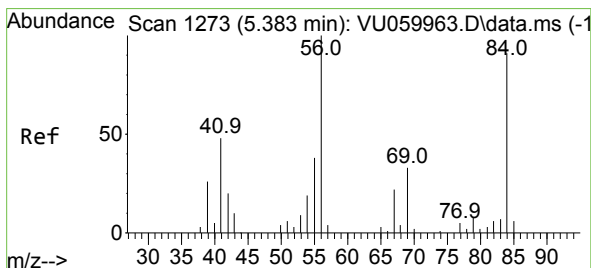
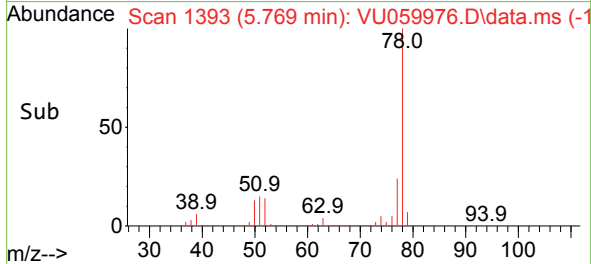
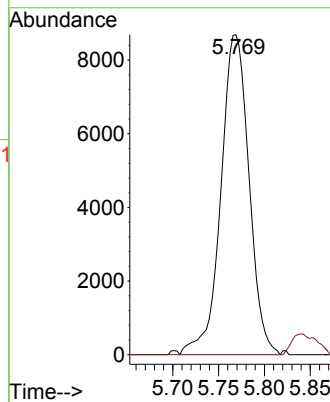
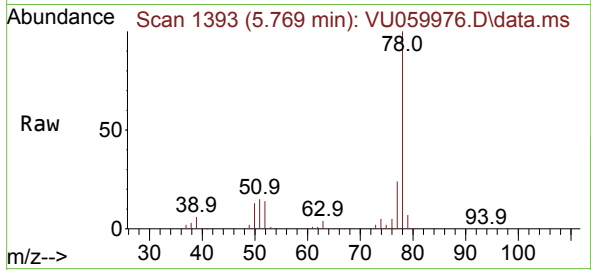
ClientSampleId :

Tgt Ion: 62 Resp: 18553

Ion Ratio Lower Upper

62 100

98 0.0 7.5 11.3#



#30

Cyclohexane

Concen: 6.016 ug/L

RT: 5.383 min Scan# 1273

Delta R.T. -0.000 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

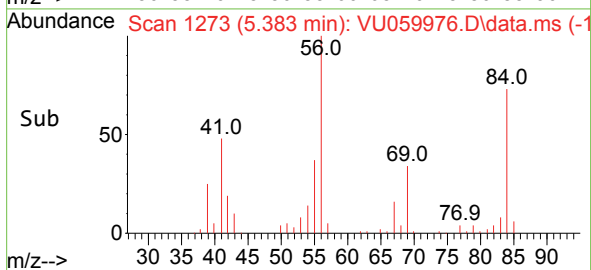
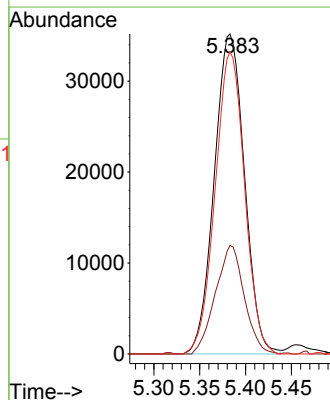
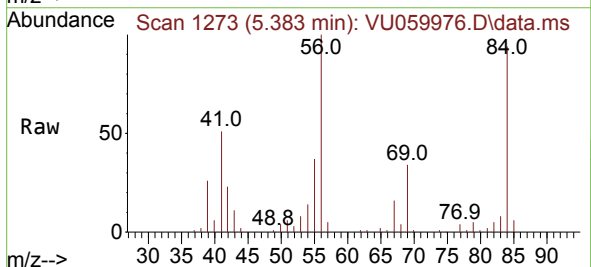
Tgt Ion: 56 Resp: 80433

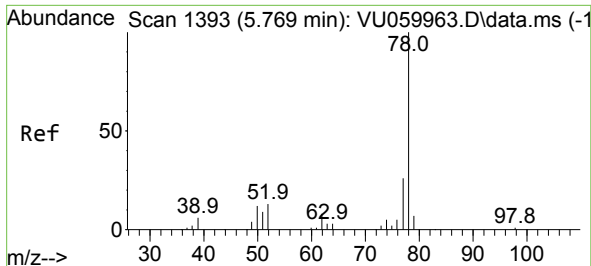
Ion Ratio Lower Upper

56 100

69 32.4 24.8 37.2

84 92.1 69.8 104.8

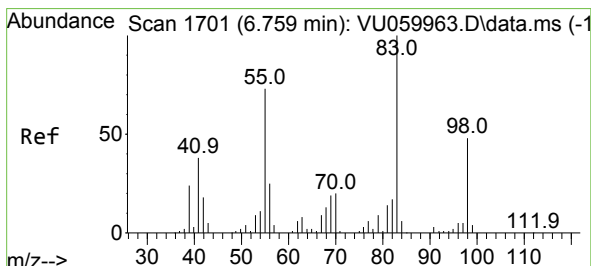
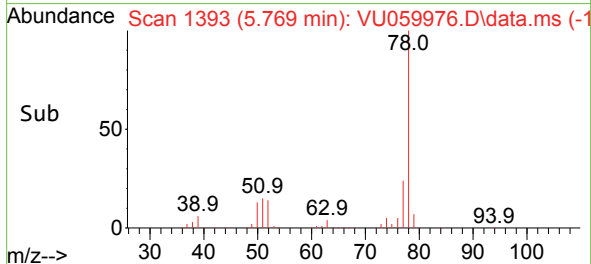
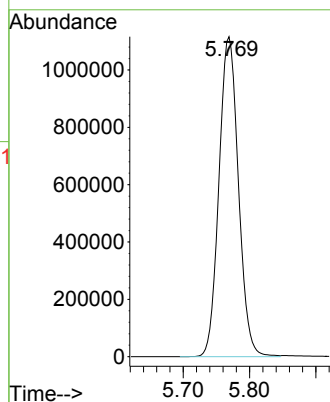
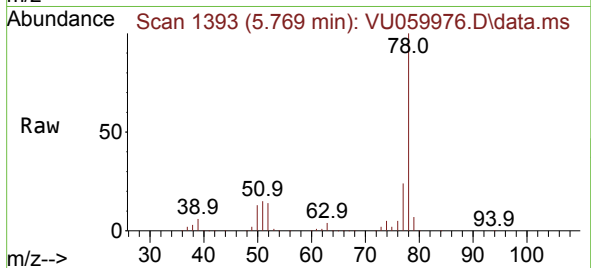




#33
Benzene
Concen: 57.003 ug/L
RT: 5.769 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

Instrument :
MSVOA_U
ClientSampleId :

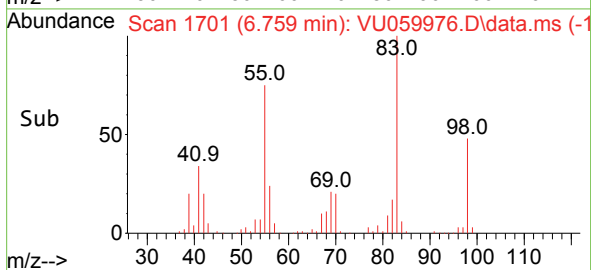
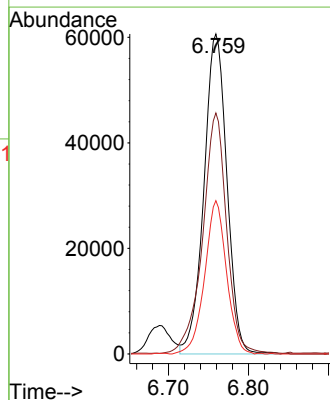
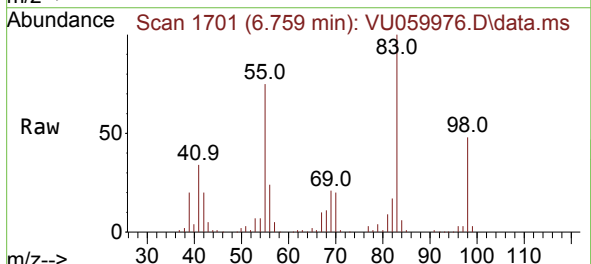
Tgt Ion: 78 Resp: 2270071

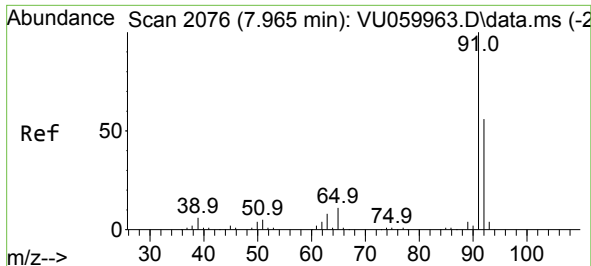


#35
Methylcyclohexane
Concen: 7.905 ug/L
RT: 6.759 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

Tgt Ion: 83 Resp: 121316

Ion	Ratio	Lower	Upper
83	100		
55	78.1	62.7	94.1
98	45.6	35.4	53.0





#42

Toluene

Concen: 0.660 ug/L

RT: 7.971 min Scan# 2076

Delta R.T. 0.006 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

Instrument :

MSVOA_U

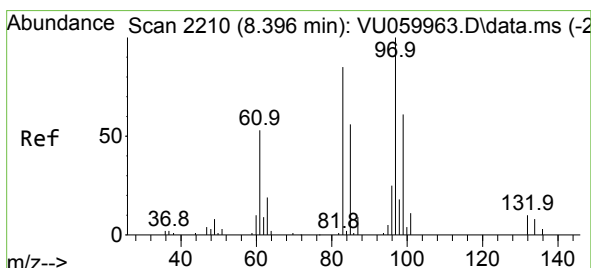
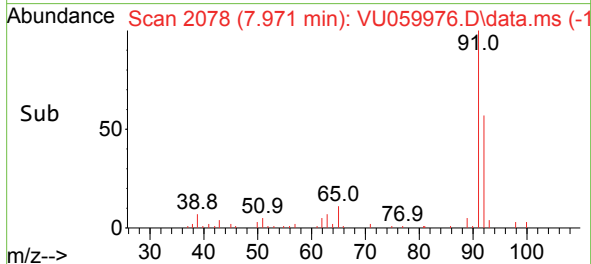
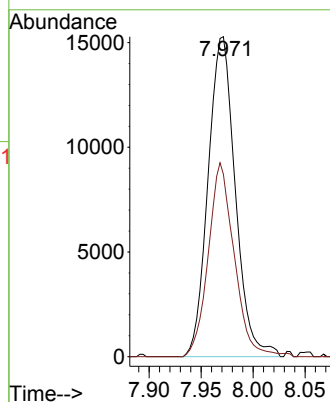
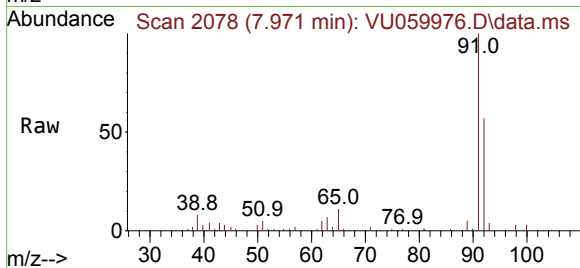
ClientSampleId :

Tgt Ion: 91 Resp: 27829

Ion Ratio Lower Upper

91 100

92 57.0 39.7 73.7



#45

1,1,2-Trichloroethane

Concen: 0.724 ug/L

RT: 8.367 min Scan# 2201

Delta R.T. -0.029 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

Tgt Ion: 97 Resp: 5498

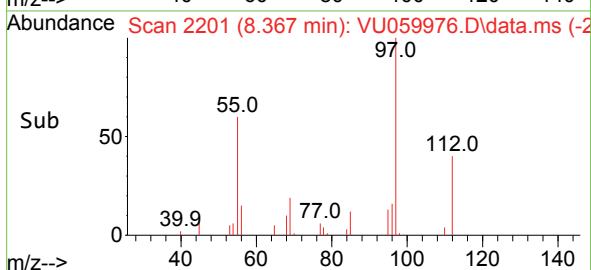
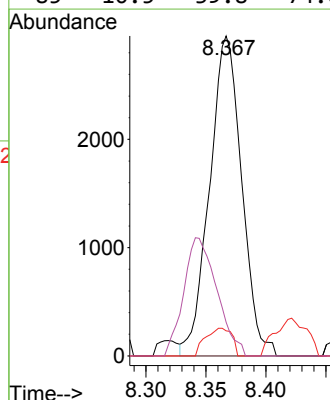
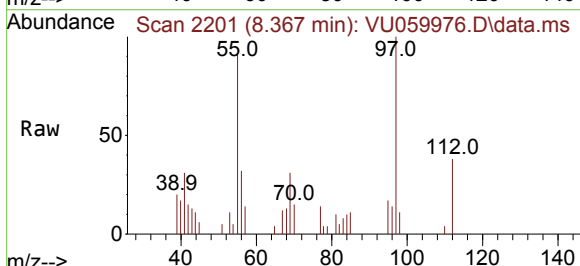
Ion Ratio Lower Upper

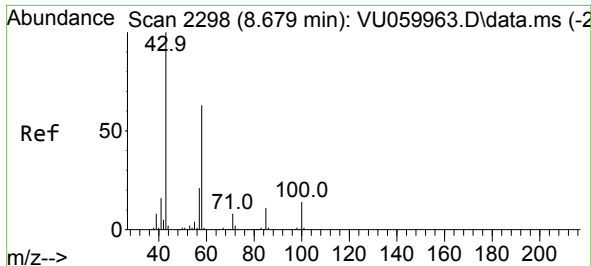
97 100

99 0.0 43.3 80.3#

83 7.9 62.3 115.7#

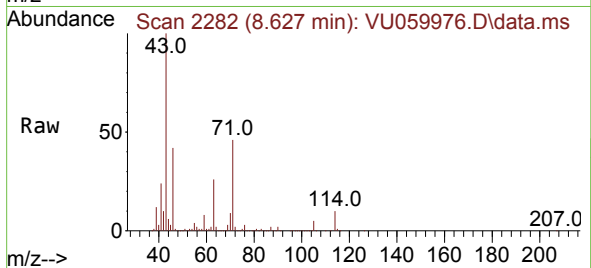
85 10.5 39.8 74.0#



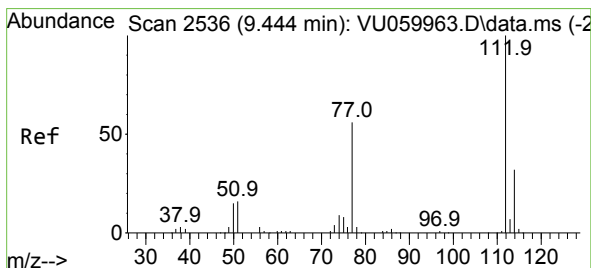
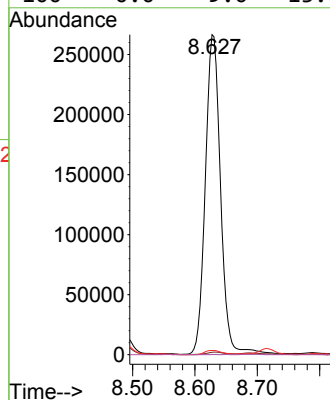
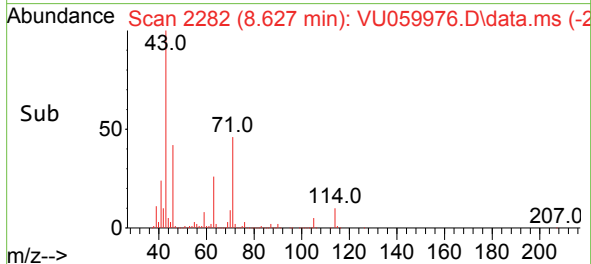


#48
2-Hexanone
Concen: 132.773 ug/L
RT: 8.627 min Scan# 21
Delta R.T. -0.052 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

Instrument :
MSVOA_U
ClientSampleId :

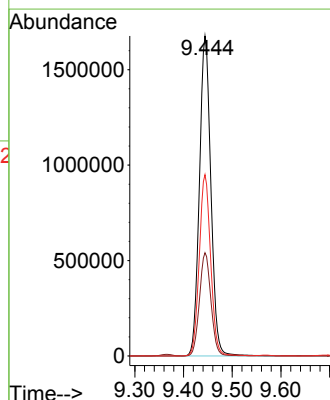
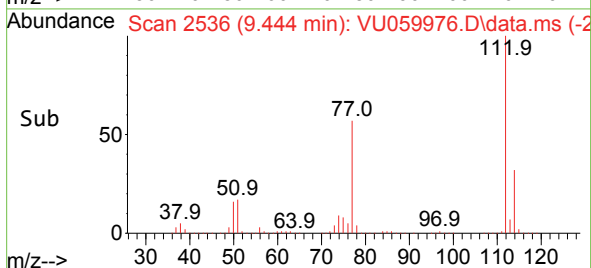
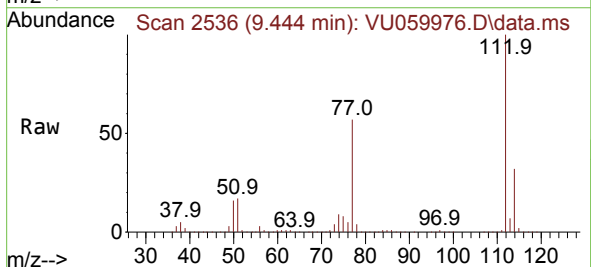


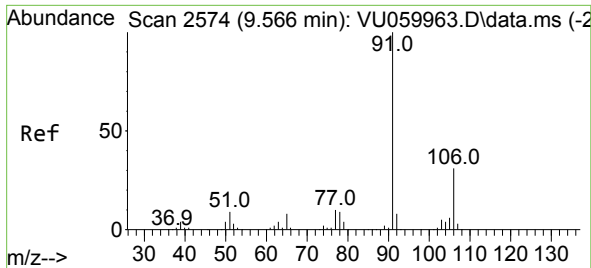
Tgt Ion: 43 Resp: 452509
Ion Ratio Lower Upper
43 100
58 1.0 46.1 69.1#
57 1.6 15.5 23.3#
100 0.0 9.0 13.6#



#51
Chlorobenzene
Concen: 102.539 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. -0.000 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

Tgt Ion: 112 Resp: 2741934
Ion Ratio Lower Upper
112 100
114 32.2 22.4 41.6
77 56.7 49.1 73.7

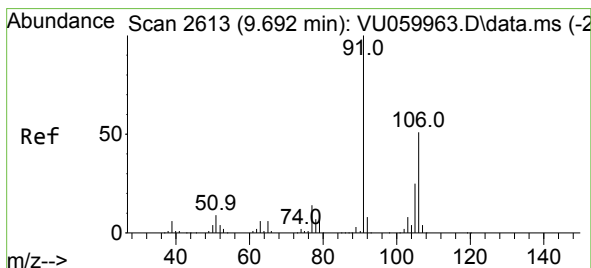
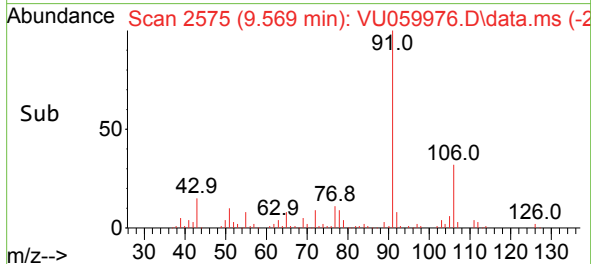
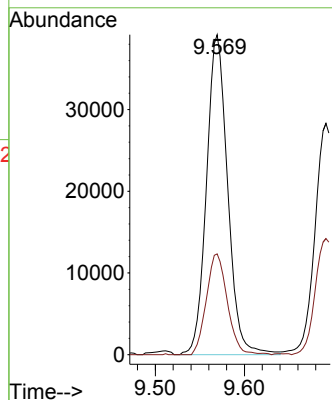
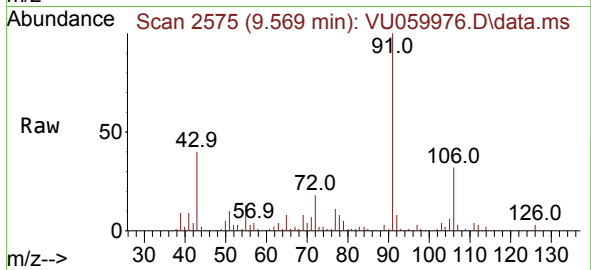




#52
Ethylbenzene
Concen: 1.492 ug/L
RT: 9.569 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

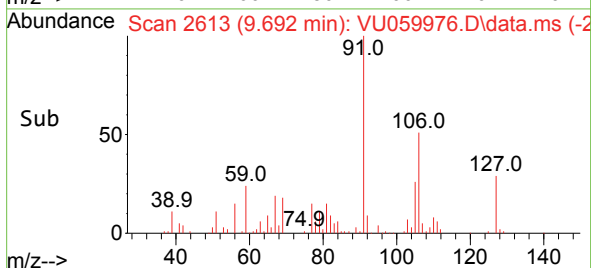
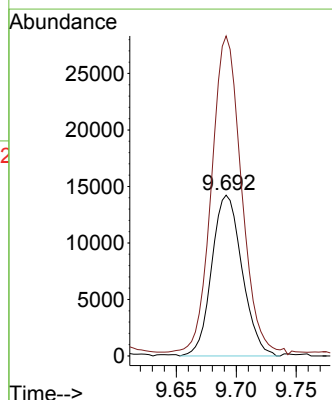
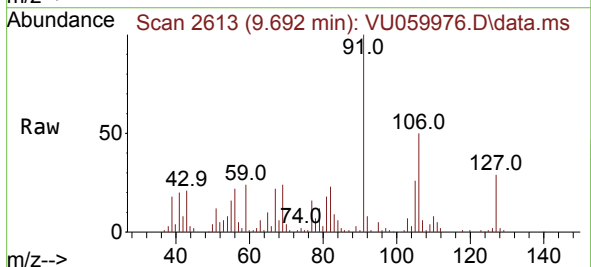
Instrument :
MSVOA_U
ClientSampleId :

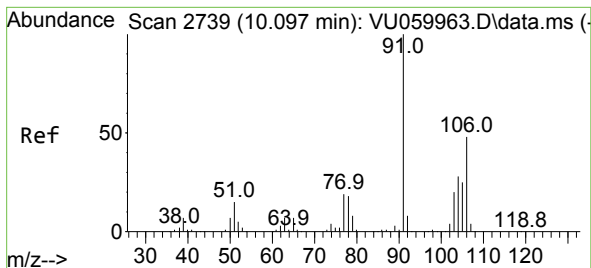
Tgt Ion: 91 Resp: 64546
Ion Ratio Lower Upper
91 100
106 31.5 20.9 38.7



#53
m,p-Xylene
Concen: 1.504 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. -0.000 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

Tgt Ion: 106 Resp: 24988
Ion Ratio Lower Upper
106 100
91 199.1 142.0 263.8





#54

o-Xylene

Concen: 0.283 ug/L

RT: 10.103 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

Instrument :

MSVOA_U

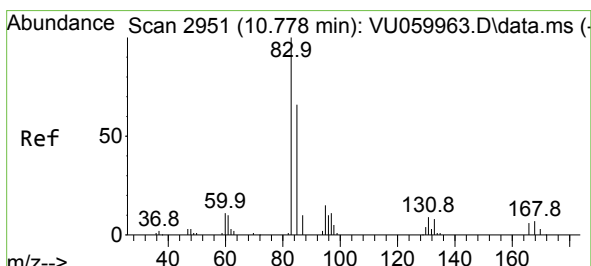
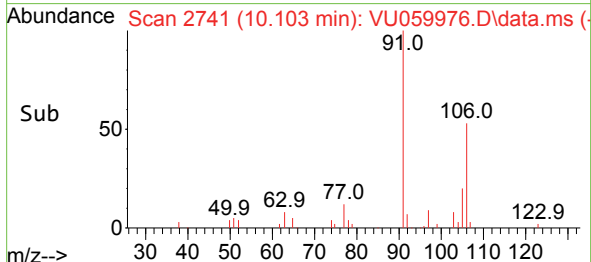
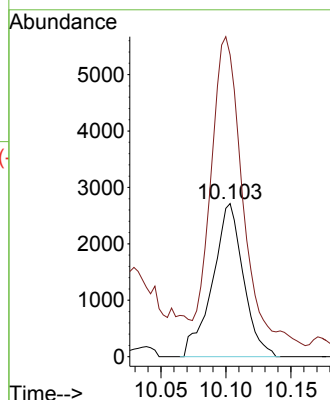
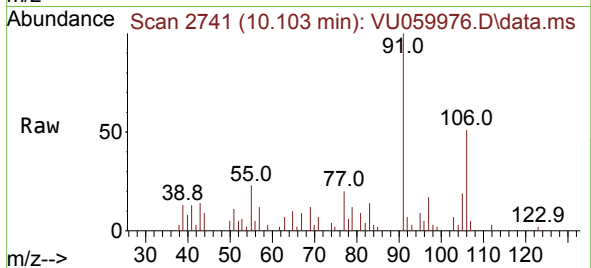
ClientSampleId :

Tgt Ion:106 Resp: 4465

Ion Ratio Lower Upper

106 100

91 197.2 151.6 281.6



#57

1,1,2,2-Tetrachloroethane

Concen: 0.101 ug/L

RT: 10.756 min Scan# 2944

Delta R.T. -0.023 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

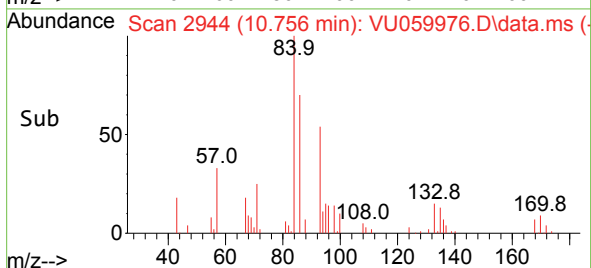
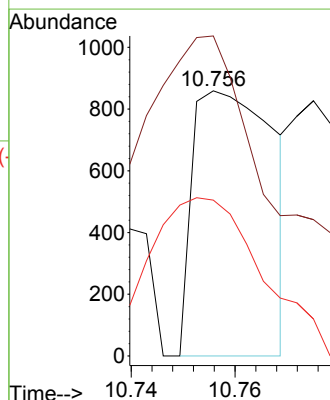
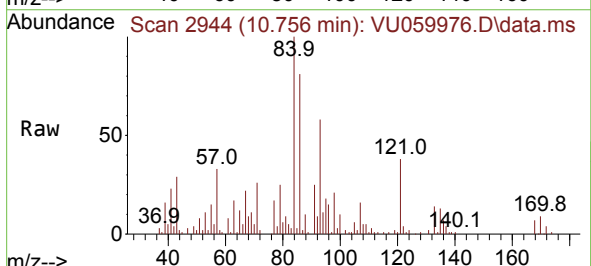
Tgt Ion: 83 Resp: 928

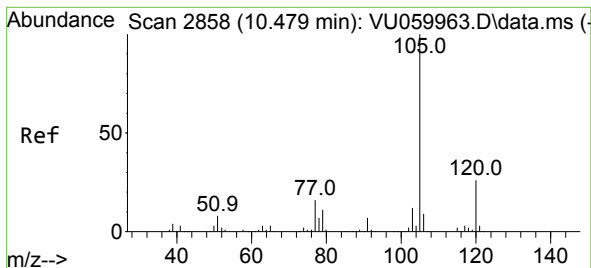
Ion Ratio Lower Upper

83 100

85 120.7 44.7 82.9#

131 58.8 6.9 10.3#





#60

Isopropylbenzene

Concen: 48.441 ug/L

RT: 10.483 min Scan# 2156938

Delta R.T. 0.003 min

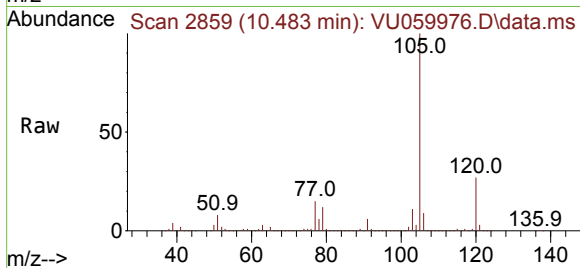
Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

Instrument :

MSVOA_U

ClientSampleId :



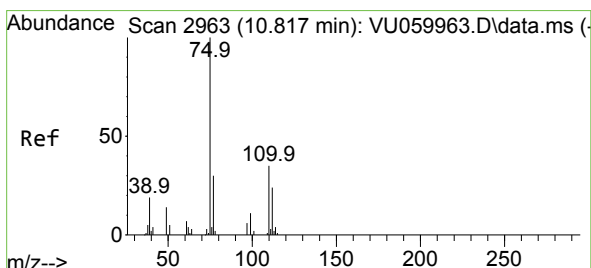
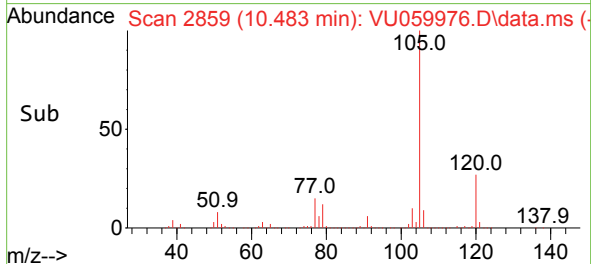
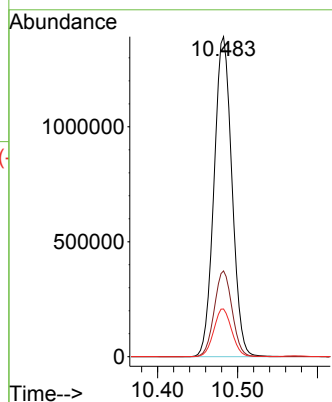
Tgt Ion:105 Resp: 2156938

Ion Ratio Lower Upper

105 100

120 26.8 20.6 31.0

77 15.0 12.8 19.2



#61

1,2,3-Trichloropropane

Concen: 3.497 ug/L

RT: 10.904 min Scan# 2990

Delta R.T. 0.087 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

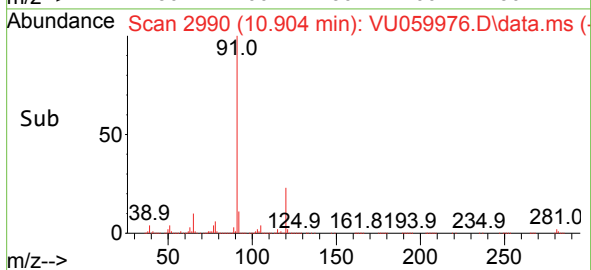
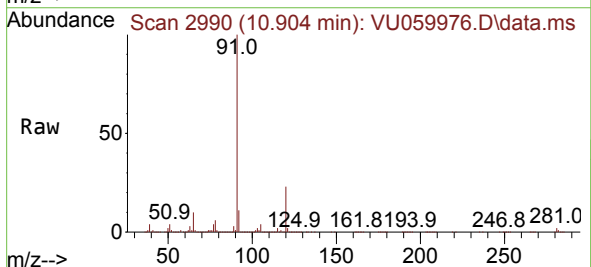
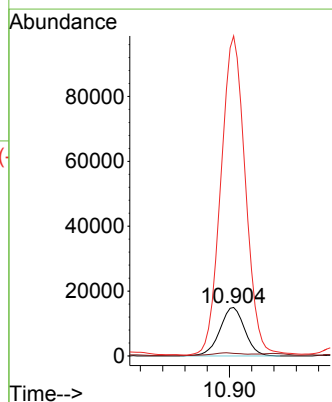
Tgt Ion: 75 Resp: 23291

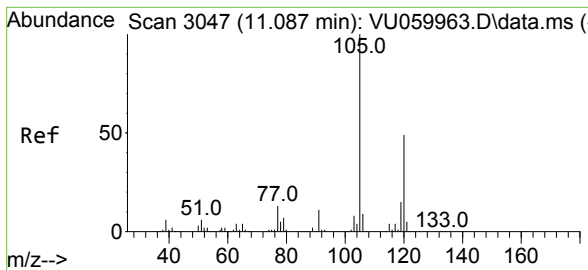
Ion Ratio Lower Upper

75 100

110 6.2 27.1 40.7#

77 645.9 25.4 38.2#

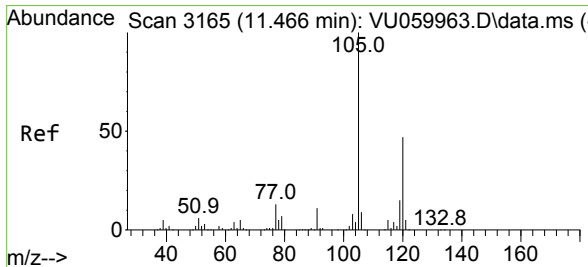
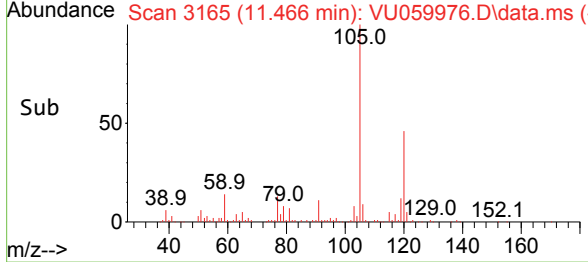
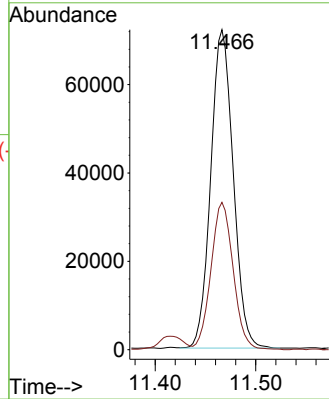
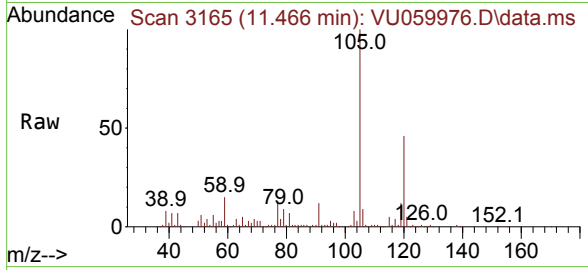




#62
 1,3,5-Trimethylbenzene
 Concen: 3.172 ug/L
 RT: 11.466 min Scan# 3165
 Delta R.T. 0.379 min
 Lab File: VU059976.D
 Acq: 16 Jul 2024 15:55

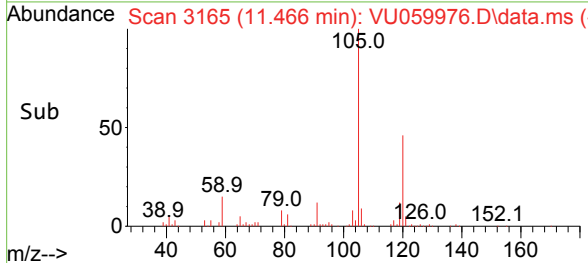
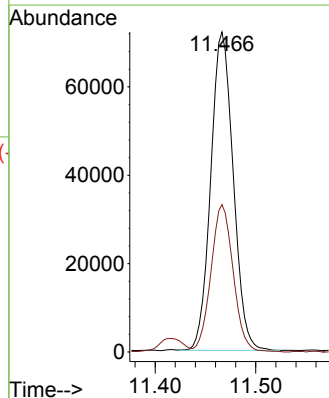
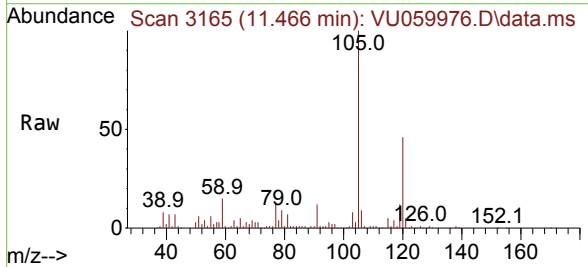
Instrument :
 MSVOA_U
 ClientSampleId :

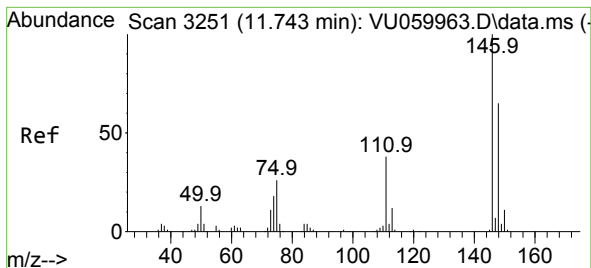
Tgt Ion:105 Resp: 111896
 Ion Ratio Lower Upper
 105 100
 120 45.8 38.2 57.4



#63
 1,2,4-Trimethylbenzene
 Concen: 3.318 ug/L
 RT: 11.466 min Scan# 3165
 Delta R.T. -0.000 min
 Lab File: VU059976.D
 Acq: 16 Jul 2024 15:55

Tgt Ion:105 Resp: 111896
 Ion Ratio Lower Upper
 105 100
 120 45.8 35.4 53.0





#64

1,3-Dichlorobenzene

Concen: 0.821 ug/L

RT: 11.746 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU059976.D

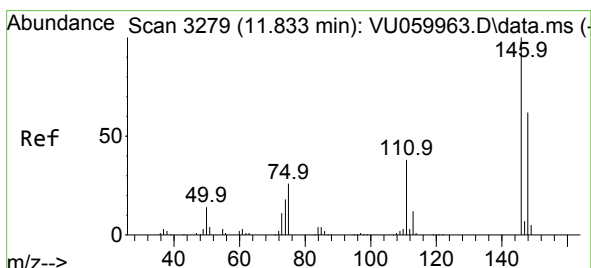
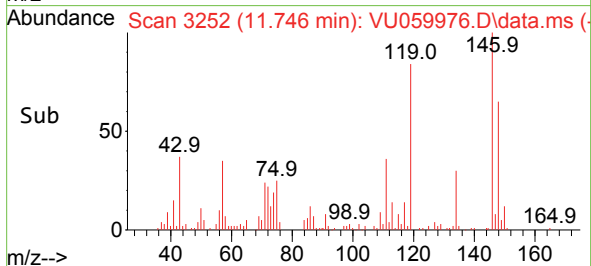
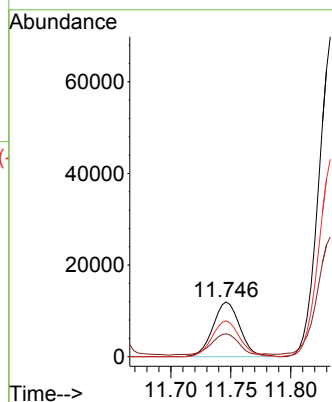
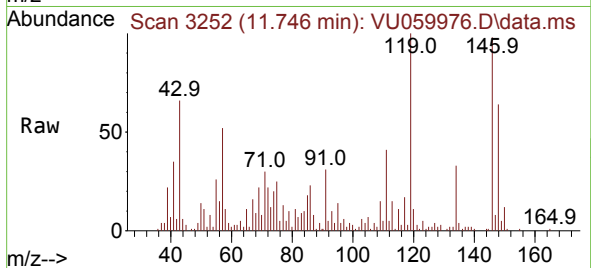
Acq: 16 Jul 2024 15:55

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:146	Resp:	18596
Ion Ratio	Lower	Upper
146	100	
111	41.9	27.4 51.0
148	65.5	45.0 83.6



#65

1,4-Dichlorobenzene

Concen: 4.852 ug/L

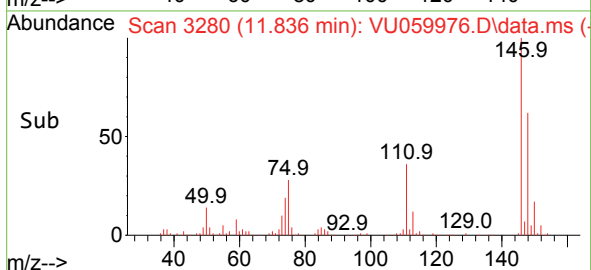
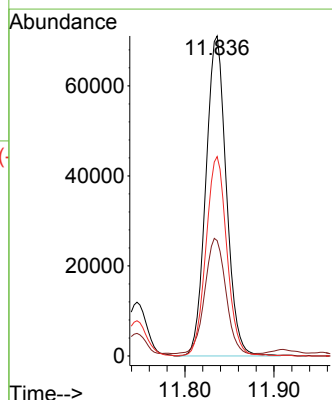
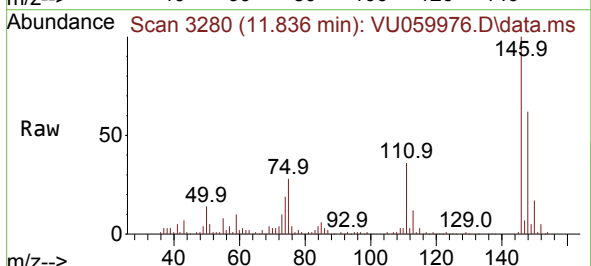
RT: 11.836 min Scan# 3280

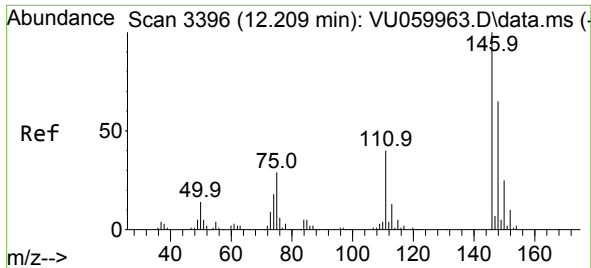
Delta R.T. 0.003 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

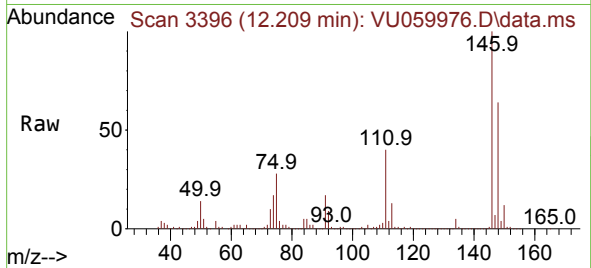
Tgt Ion:146	Resp:	113109
Ion Ratio	Lower	Upper
146	100	
111	36.1	26.9 50.1
148	62.3	45.3 84.1



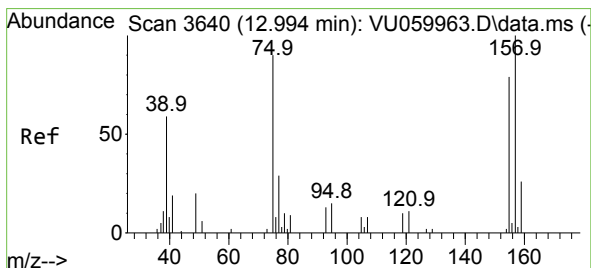
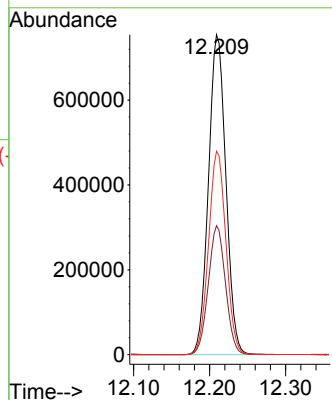
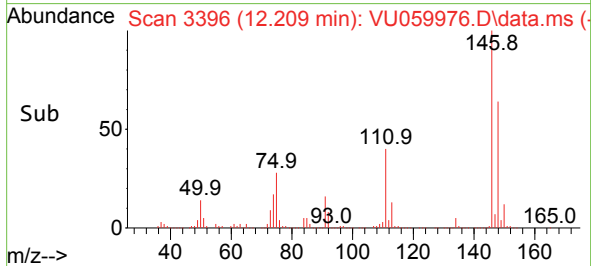


#67
1,2-Dichlorobenzene
Concen: 56.292 ug/L
RT: 12.209 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

Instrument :
MSVOA_U
ClientSampleId :

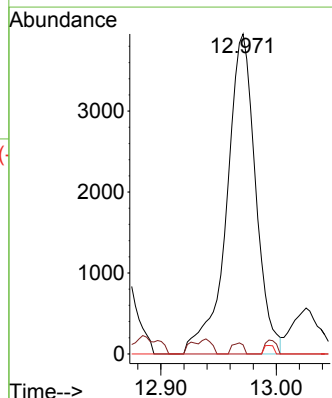
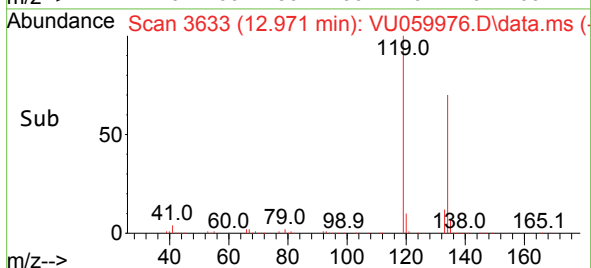
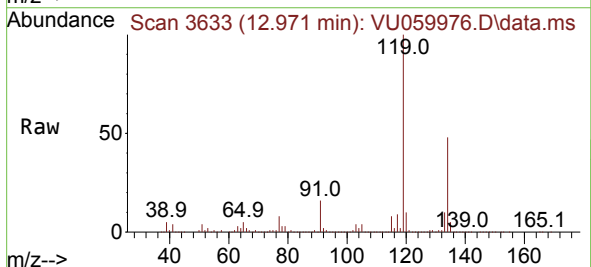


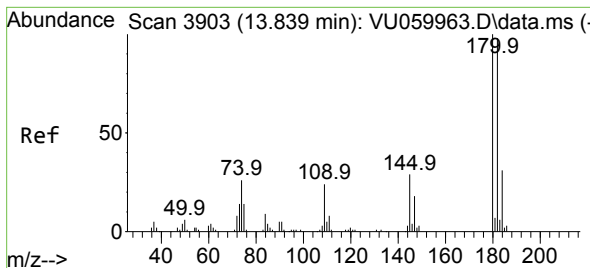
Tgt Ion:146 Resp: 1199706
Ion Ratio Lower Upper
146 100
111 40.3 33.4 50.0
148 63.6 49.7 74.5



#68
1,2-Dibromo-3-chloropropane
Concen: 5.292 ug/L
RT: 12.971 min Scan# 3633
Delta R.T. -0.023 min
Lab File: VU059976.D
Acq: 16 Jul 2024 15:55

Tgt Ion: 75 Resp: 6875
Ion Ratio Lower Upper
75 100
155 2.9 58.2 87.2#
157 0.0 80.0 120.0#





#70

1,2,4-trichlorobenzene

Concen: 0.742 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. -0.000 min

Lab File: VU059976.D

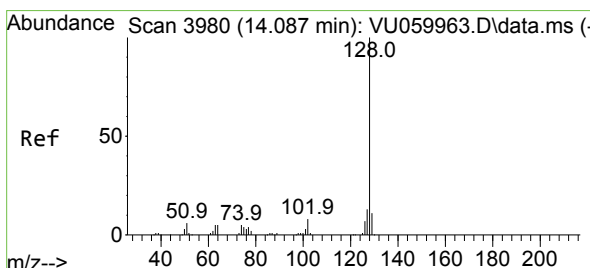
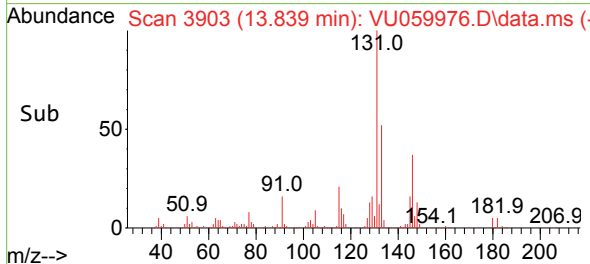
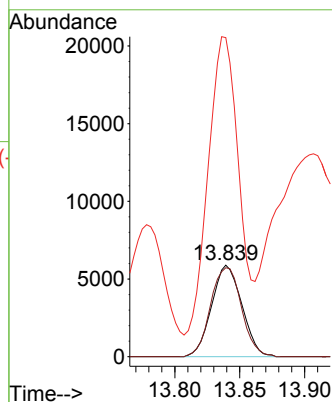
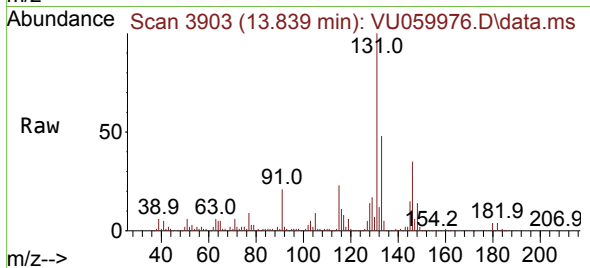
Acq: 16 Jul 2024 15:55

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:180	Resp:	9538
Ion Ratio	Lower	Upper
180	100	
182	99.3	74.9 112.3
145	328.4	23.9 35.9#



#71

Naphthalene

Concen: 187.356 ug/L

RT: 14.084 min Scan# 3979

Delta R.T. -0.003 min

Lab File: VU059976.D

Acq: 16 Jul 2024 15:55

Tgt Ion:128	Resp:	3448549
Ion Ratio	Lower	Upper
128	100	
129	11.2	8.2 12.4
127	13.0	10.2 15.4

