

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

Instrument :
 MSVOA_U
 ClientSampleId :
 YDZJ8

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

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	183743	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	184132	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	102530	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.589	65	50640	3.964	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.200%
7) Chloroethane-d5	1.904	69	44357	3.608	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.200%
11) 1,1-Dichloroethene-d2	2.557	65	21958	4.143	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.800%
20) 2-Butanone-d5	4.660	46	123426	46.898	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.800%
24) Chloroform-d	5.055	84	98381	3.751	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.000%
26) 1,2-Dichloroethane-d4	5.702	65	51810	4.101	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.000%
32) Benzene-d6	5.718	84	197991	3.907	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.200%
36) 1,2-Dichloropropane-d6	6.689	67	64285	4.140	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.800%
41) Toluene-d8	7.894	98	173442	3.682	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.600%
43) trans-1,3-Dichloroprop...	8.181	79	22862	4.702	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.000%
46) 2-Hexanone-d5	8.637	63	110101	54.496	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.000%
56) 1,1,2,2-Tetrachloroeth...	10.756	84	55731	4.344	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	75491	4.137	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.596	62	74195	4.008	ug/L	98
8) Chloroethane	1.927	64	5458	0.489	ug/L	100
13) Acetone	2.660	43	41206	24.136	ug/L	92
14) Carbon disulfide	2.779	76	27080	0.623	ug/L	98
16) Methylene chloride	3.036	84	3299	0.214	ug/L	82
18) trans-1,2-Dichloroethene	3.335	96	4526	0.334	ug/L	95
19) 1,1-Dichloroethane	3.850	63	5707	0.228	ug/L	96
21) 2-Butanone	4.747	43	20711	7.564	ug/L	92
22) cis-1,2-Dichloroethene	4.657	96	21585	1.445	ug/L	93
30) Cyclohexane	5.370	56	3128	0.167	ug/L #	86
33) Benzene	5.766	78	185727	3.322	ug/L	100
35) Methylcyclohexane	6.753	83	28409	1.318	ug/L	91
42) Toluene	7.965	91	211147	3.567	ug/L	97
51) Chlorobenzene	9.447	112	48045	1.280	ug/L	91
52) Ethylbenzene	9.570	91	16761	0.276	ug/L	97
53) m,p-Xylene	9.692	106	32258	1.383	ug/L	100
54) o-Xylene	10.100	106	51871	2.343	ug/L	96
60) Isopropylbenzene	10.483	105	46051	0.727	ug/L	98
62) 1,3,5-Trimethylbenzene	11.087	105	98442	1.962	ug/L	98

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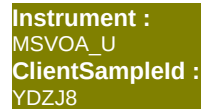
Quant Time: Jul 17 02:31:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR061724WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Jul 17 02:25:31 2024
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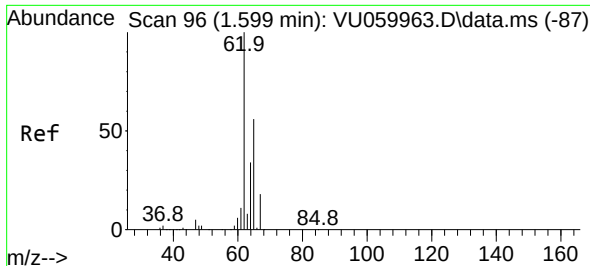
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	11.467	105	305828	6.375	ug/L	97
64) 1,3-Dichlorobenzene	11.750	146	15688	0.487	ug/L	95
65) 1,4-Dichlorobenzene	11.836	146	162882	4.912	ug/L	98
67) 1,2-Dichlorobenzene	12.209	146	663403	21.884	ug/L	97

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

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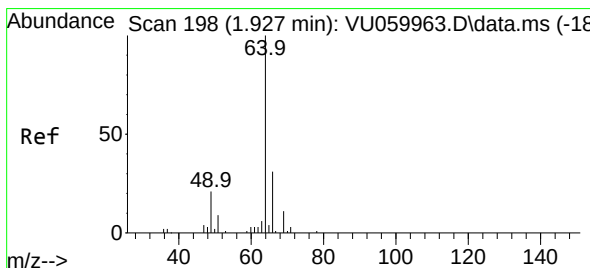
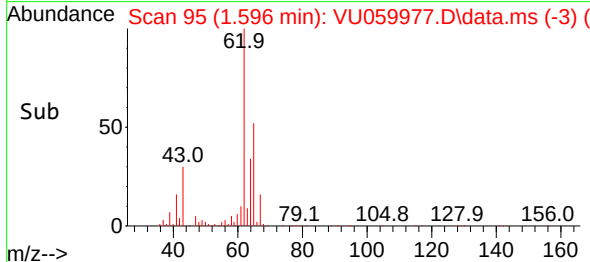
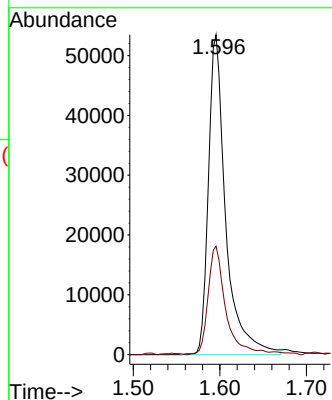
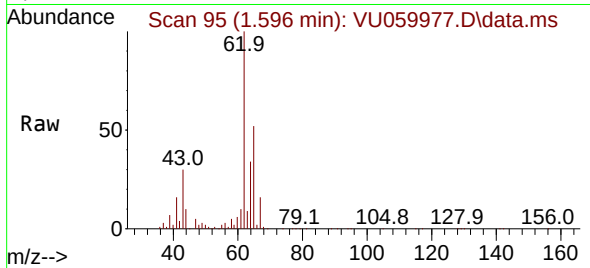




#5
 Vinyl chloride
 Concen: 4.008 ug/L
 RT: 1.596 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU059977.D
 Acq: 16 Jul 2024 16:20

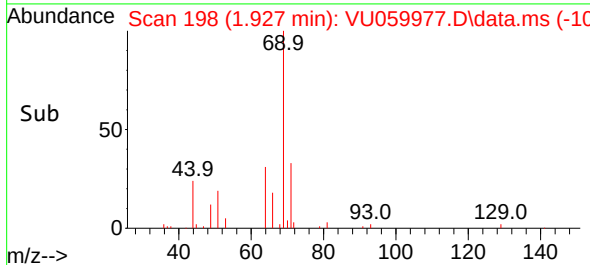
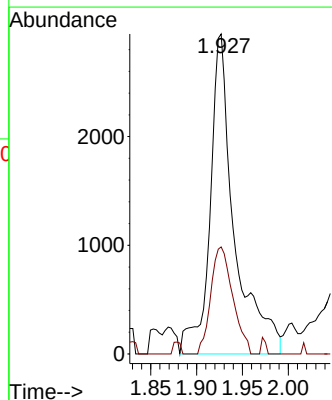
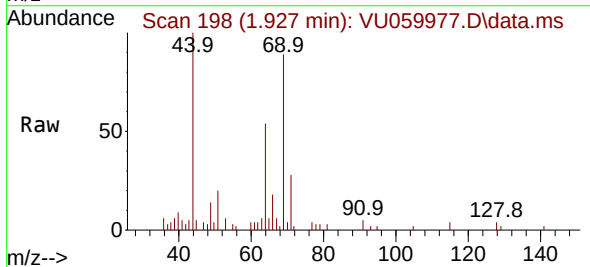
Instrument :
 MSVOA_U
 ClientSampleId :
 YDZJ8

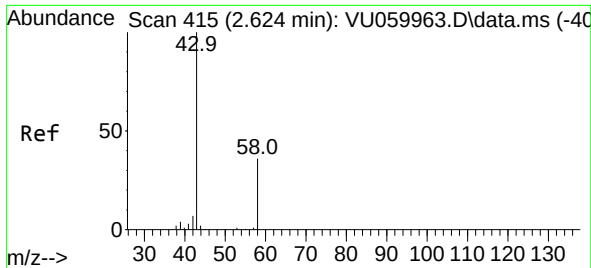
Tgt Ion: 62 Resp: 74195
 Ion Ratio Lower Upper
 62 100
 64 33.9 23.1 42.9



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

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





#13

Acetone

Concen: 24.136 ug/L

RT: 2.660 min Scan# 415

Delta R.T. 0.036 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

ClientSampleId :

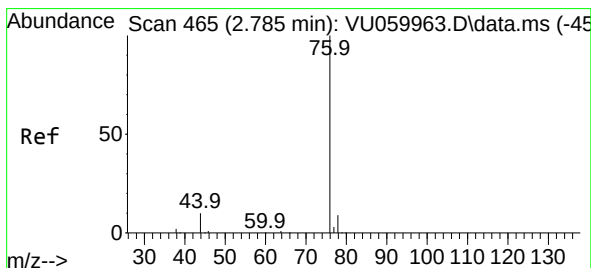
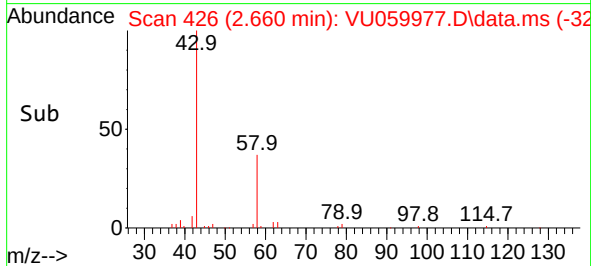
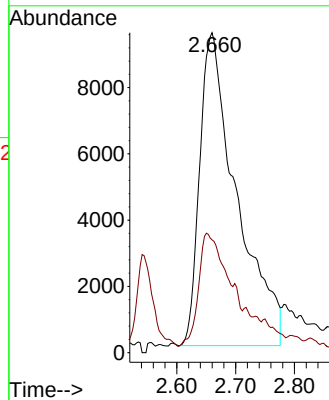
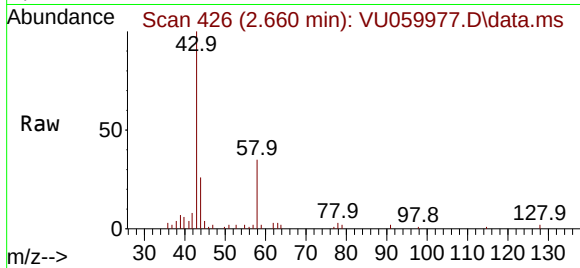
YDZJ8

Tgt Ion: 43 Resp: 41206

Ion Ratio Lower Upper

43 100

58 29.1 0.0 68.0



#14

Carbon disulfide

Concen: 0.623 ug/L

RT: 2.779 min Scan# 463

Delta R.T. -0.006 min

Lab File: VU059977.D

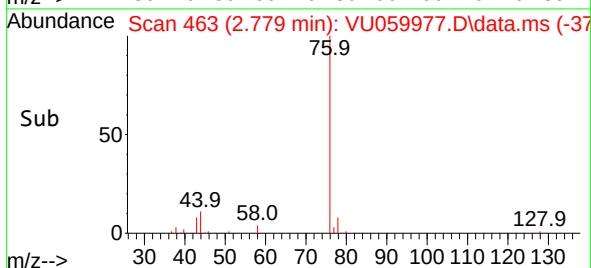
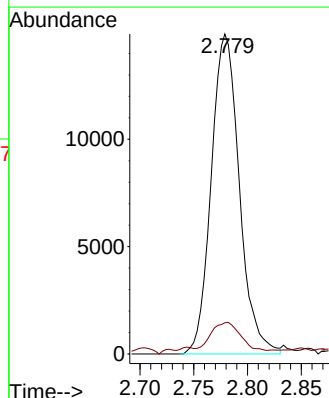
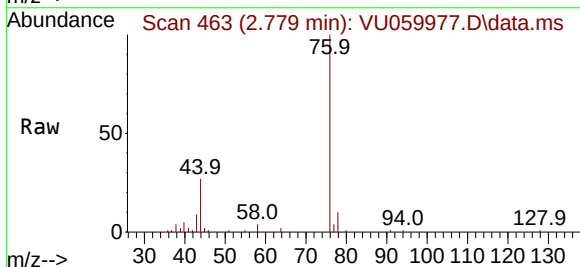
Acq: 16 Jul 2024 16:20

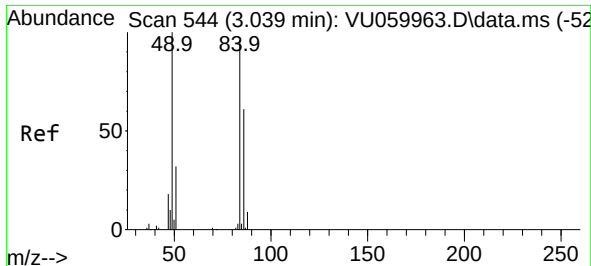
Tgt Ion: 76 Resp: 27080

Ion Ratio Lower Upper

76 100

78 9.8 7.3 10.9

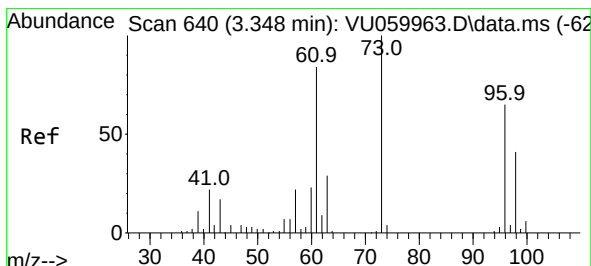
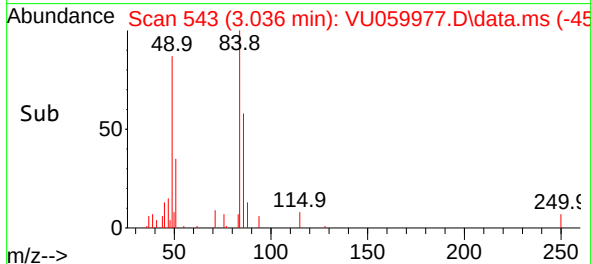
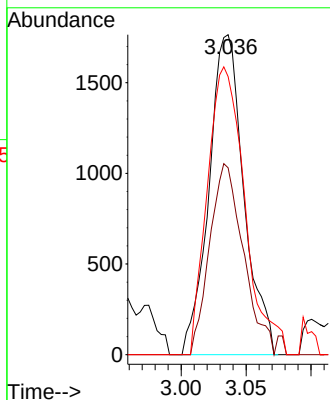
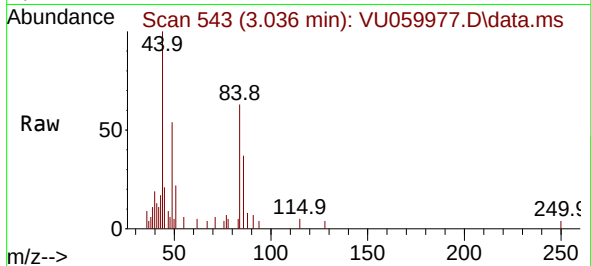




#16
Methylene chloride
Concen: 0.214 ug/L
RT: 3.036 min Scan# 54
Delta R.T. -0.003 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

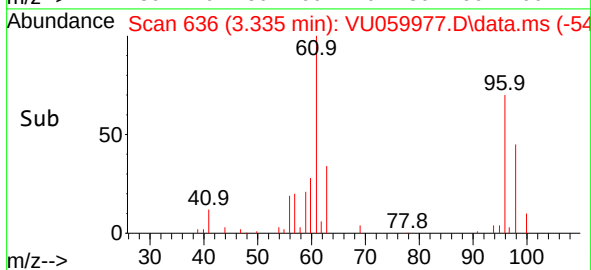
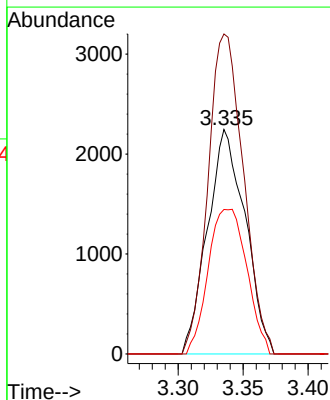
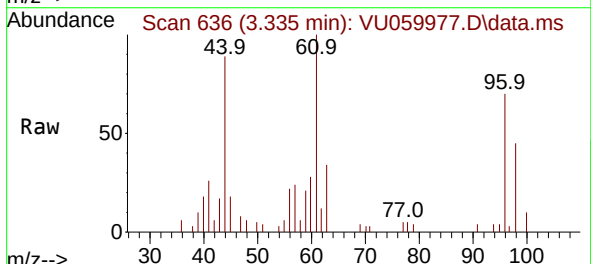
Instrument :
MSVOA_U
ClientSampleId :
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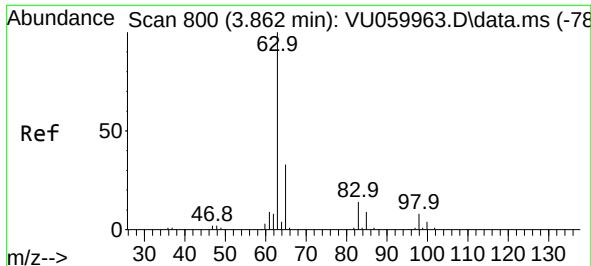
Tgt Ion: 84 Resp: 3299
Ion Ratio Lower Upper
84 100
86 58.4 42.1 78.1
49 86.9 80.6 149.8



#18
trans-1,2-Dichloroethene
Concen: 0.334 ug/L
RT: 3.335 min Scan# 636
Delta R.T. -0.013 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

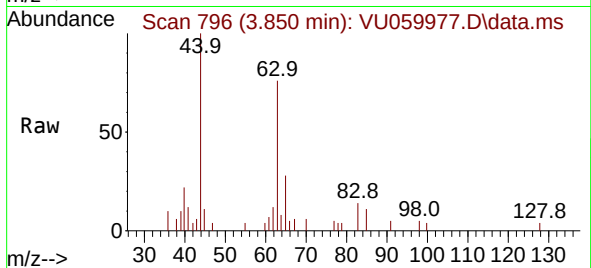
Tgt Ion: 96 Resp: 4526
Ion Ratio Lower Upper
96 100
61 136.5 101.8 189.0
98 61.6 43.3 80.5



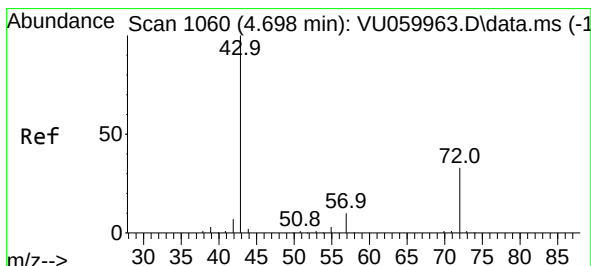
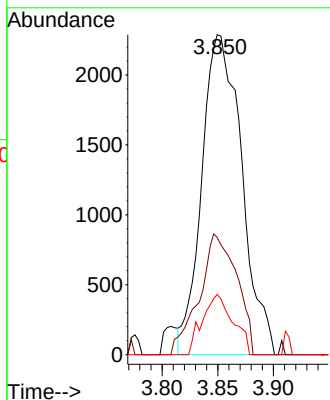
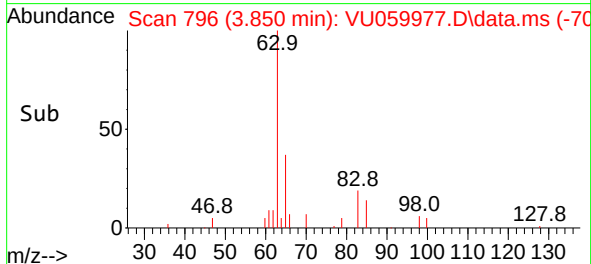


#19
1,1-Dichloroethane
Concen: 0.228 ug/L
RT: 3.850 min Scan# 796
Delta R.T. -0.013 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

Instrument :
MSVOA_U
ClientSampleId :
YDZJ8

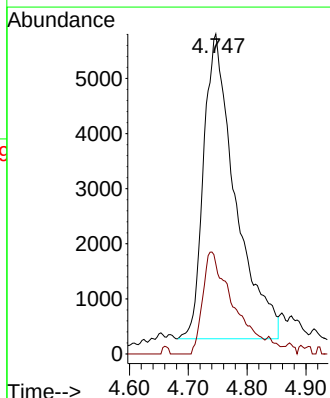
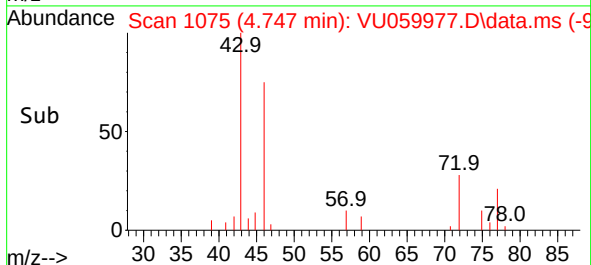
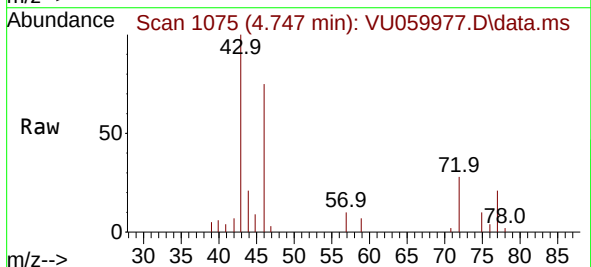


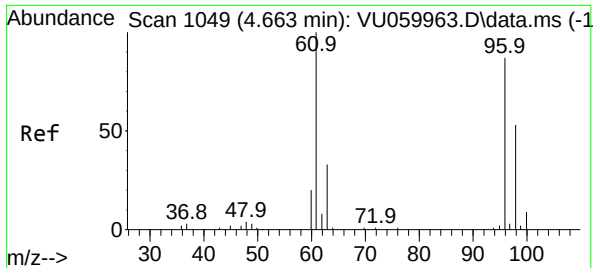
Tgt Ion	63	Resp:	5707
Ion	Ratio	Lower	Upper
63	100		
65	33.0	21.8	40.6
83	17.0	9.9	18.5



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

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





#22

cis-1,2-Dichloroethene

Concen: 1.445 ug/L

RT: 4.657 min Scan# 1047

Delta R.T. -0.006 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

ClientSampleId :

YDZJ8

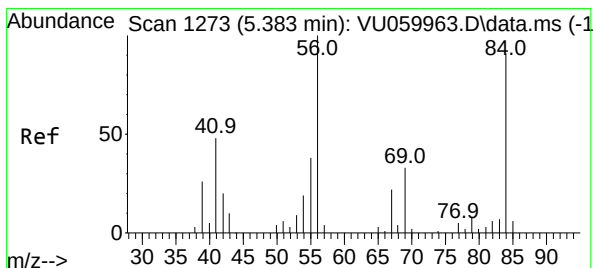
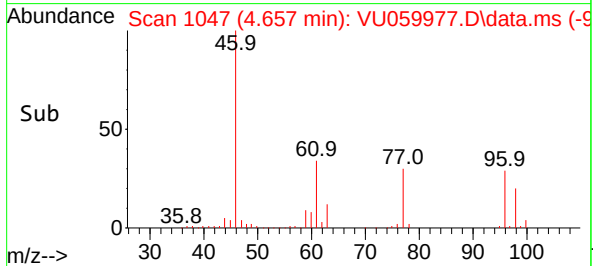
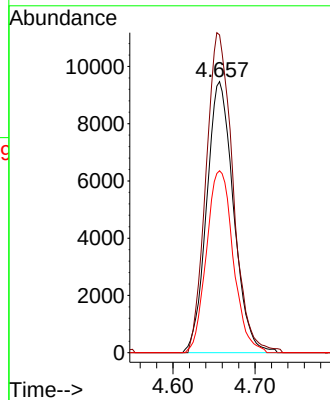
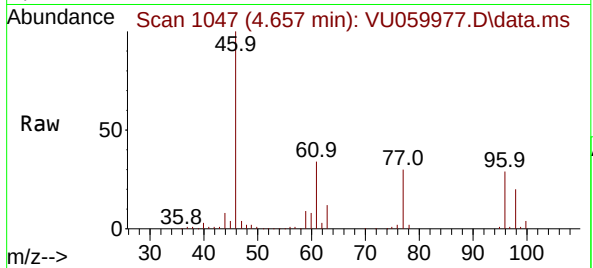
Tgt Ion: 96 Resp: 21585

Ion Ratio Lower Upper

96 100

61 117.2 87.4 162.2

98 67.1 42.3 78.5



#30

Cyclohexane

Concen: 0.167 ug/L

RT: 5.370 min Scan# 1269

Delta R.T. -0.013 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

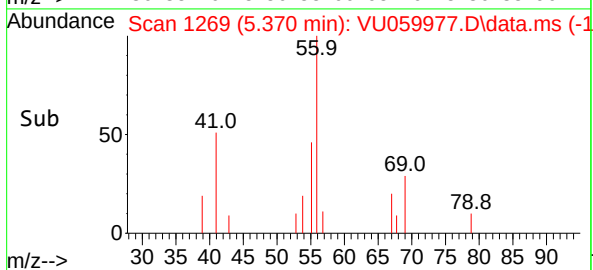
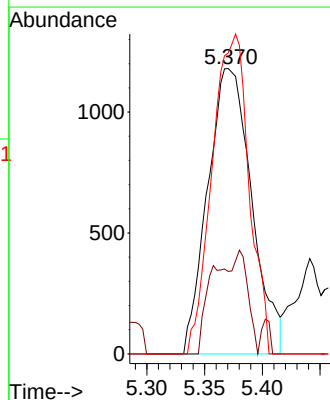
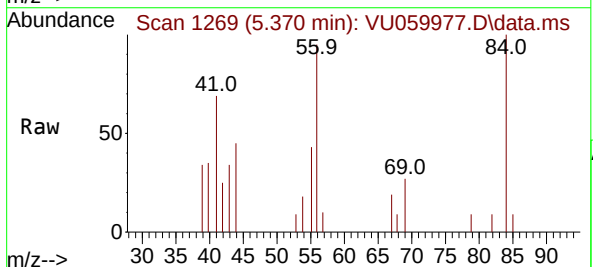
Tgt Ion: 56 Resp: 3128

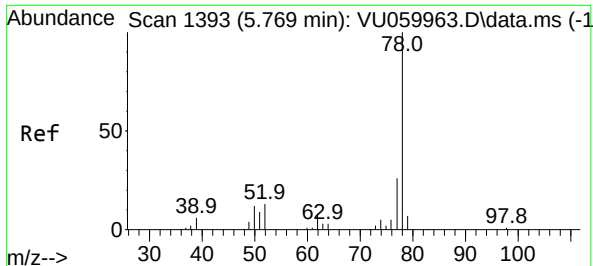
Ion Ratio Lower Upper

56 100

69 13.2 24.8 37.2#

84 93.8 69.8 104.8





#33

Benzene

Concen: 3.322 ug/L

RT: 5.766 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

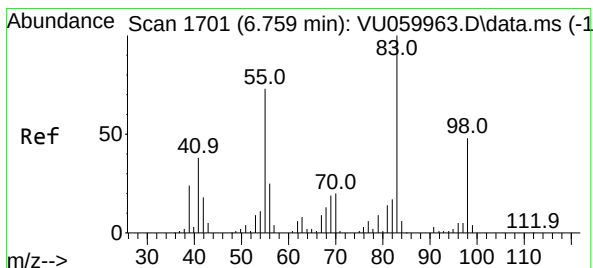
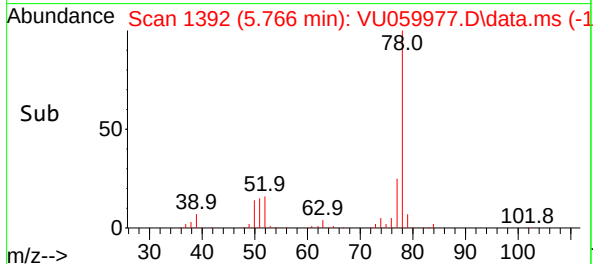
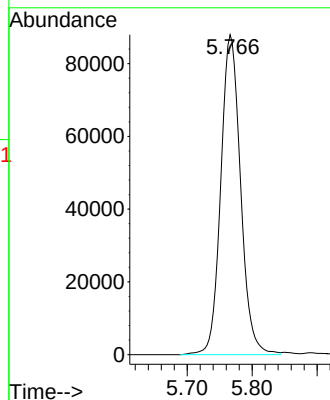
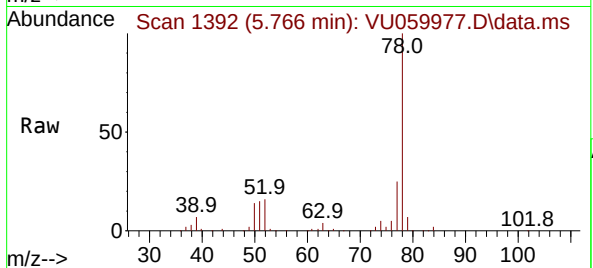
Instrument :

MSVOA_U

ClientSampleId :

YDZJ8

Tgt Ion: 78 Resp: 185727



#35

Methylcyclohexane

Concen: 1.318 ug/L

RT: 6.753 min Scan# 1699

Delta R.T. -0.006 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

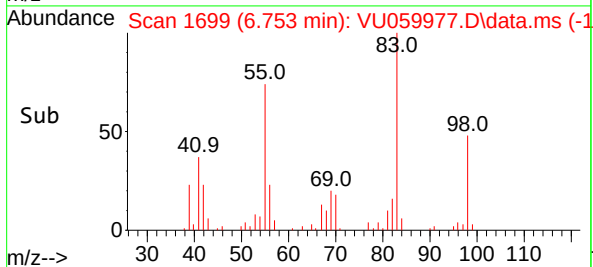
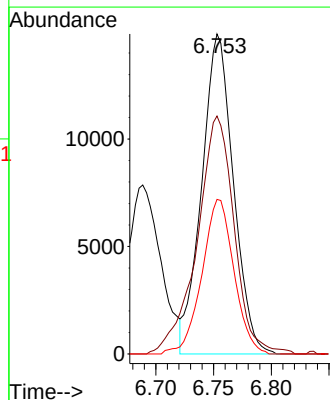
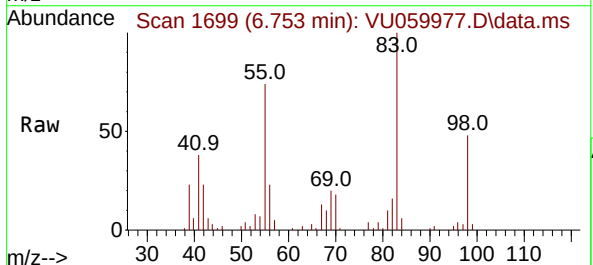
Tgt Ion: 83 Resp: 28409

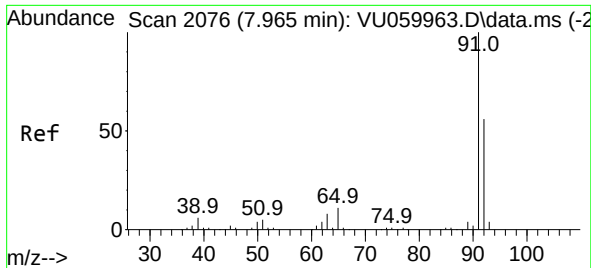
Ion Ratio Lower Upper

83 100

55 86.8 62.7 94.1

98 48.8 35.4 53.0





#42

Toluene

Concen: 3.567 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

ClientSampleId :

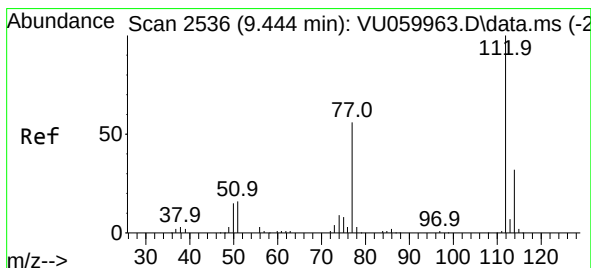
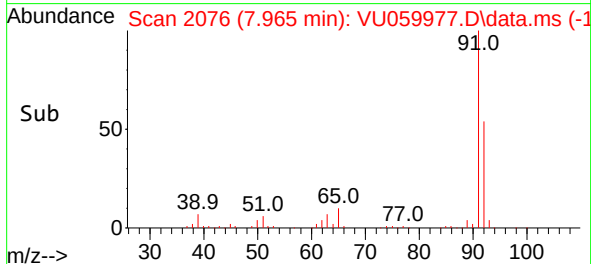
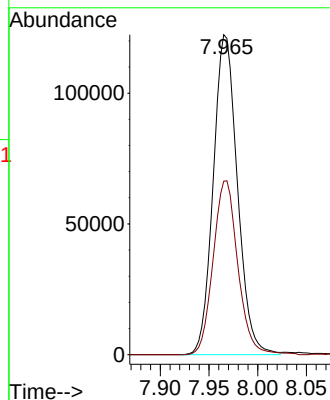
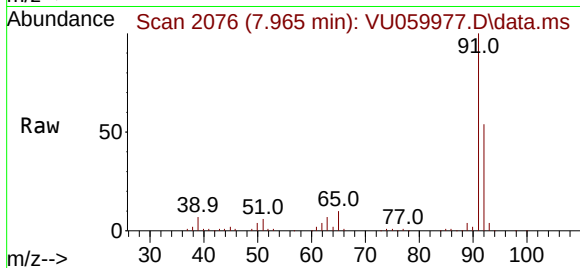
YDZJ8

Tgt Ion: 91 Resp: 211147

Ion Ratio Lower Upper

91 100

92 54.2 39.7 73.7



#51

Chlorobenzene

Concen: 1.280 ug/L

RT: 9.447 min Scan# 2537

Delta R.T. 0.003 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

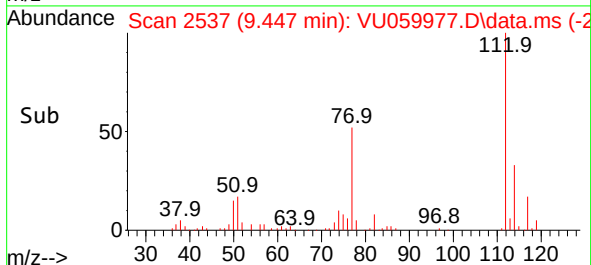
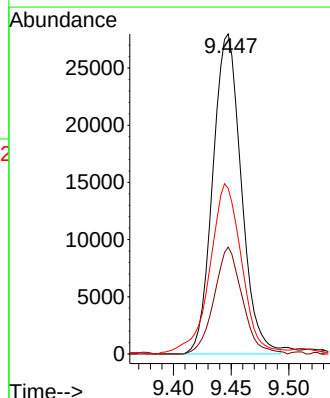
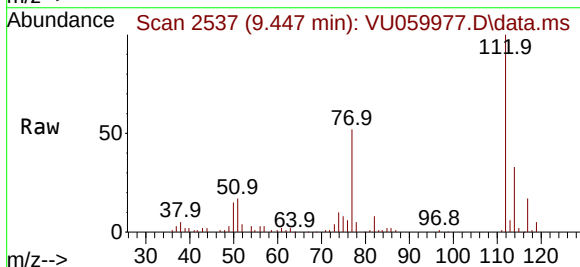
Tgt Ion: 112 Resp: 48045

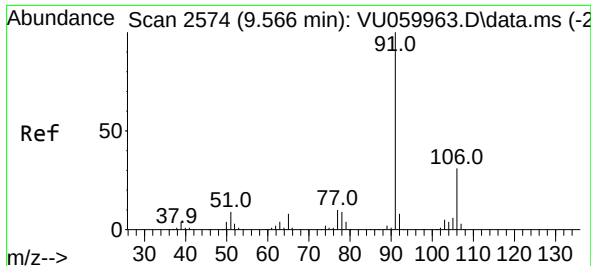
Ion Ratio Lower Upper

112 100

114 33.4 22.4 41.6

77 51.7 49.1 73.7





#52

Ethylbenzene

Concen: 0.276 ug/L

RT: 9.570 min Scan# 2574

Delta R.T. 0.003 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

ClientSampleId :

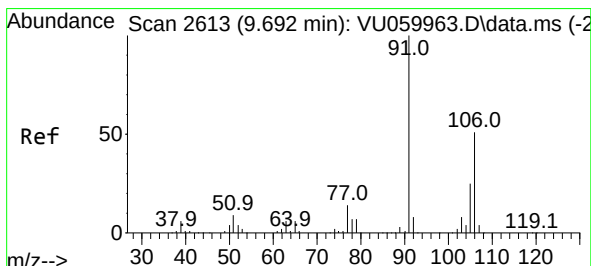
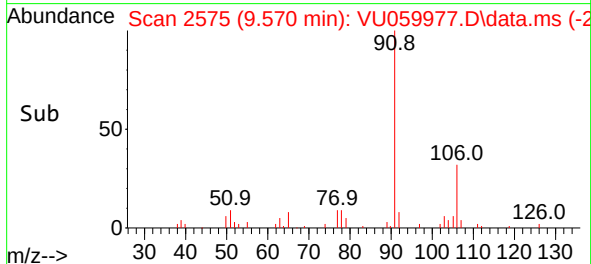
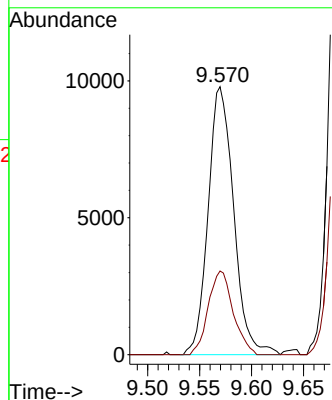
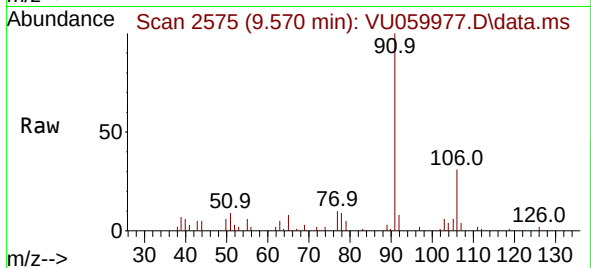
YDZJ8

Tgt Ion: 91 Resp: 16761

Ion Ratio Lower Upper

91 100

106 31.2 20.9 38.7



#53

m,p-Xylene

Concen: 1.383 ug/L

RT: 9.692 min Scan# 2613

Delta R.T. 0.000 min

Lab File: VU059977.D

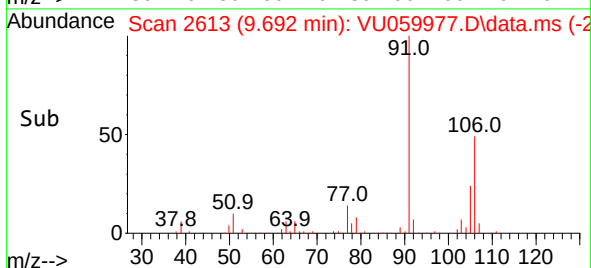
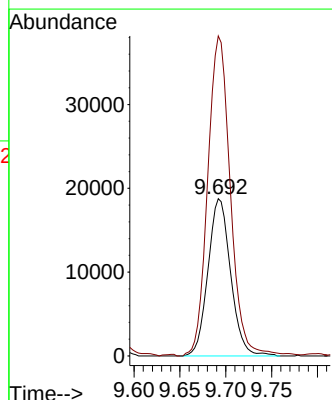
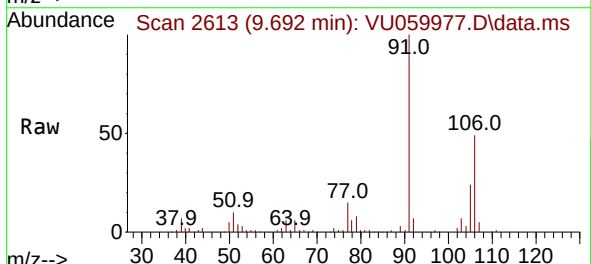
Acq: 16 Jul 2024 16:20

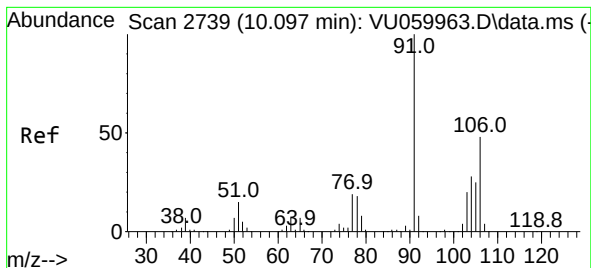
Tgt Ion:106 Resp: 32258

Ion Ratio Lower Upper

106 100

91 203.5 142.0 263.8





#54

o-Xylene

Concen: 2.343 ug/L

RT: 10.100 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

ClientSampleId :

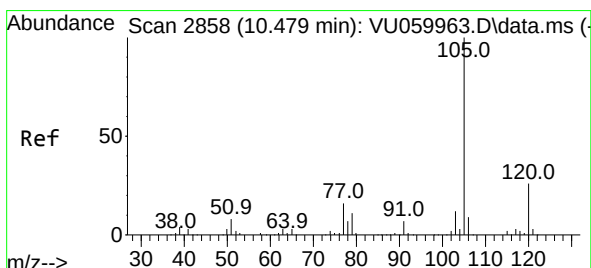
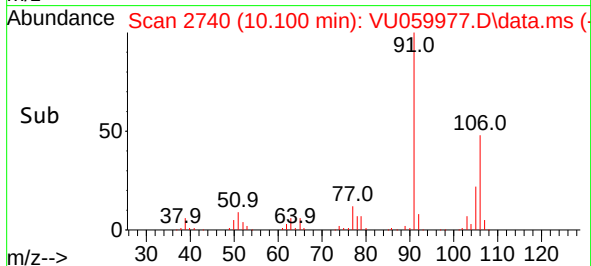
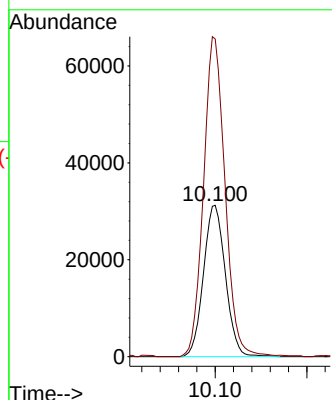
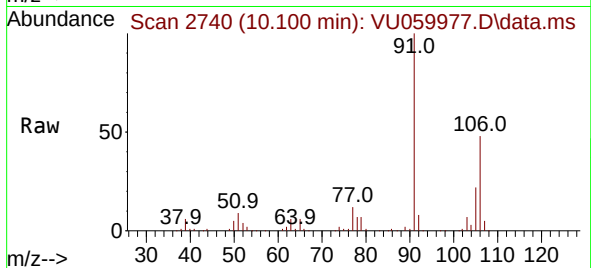
YDZJ8

Tgt Ion:106 Resp: 51871

Ion Ratio Lower Upper

106 100

91 209.9 151.6 281.6



#60

Isopropylbenzene

Concen: 0.727 ug/L

RT: 10.483 min Scan# 2859

Delta R.T. 0.003 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

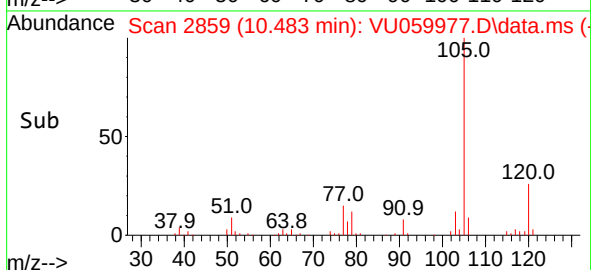
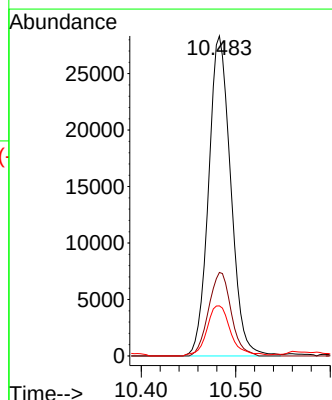
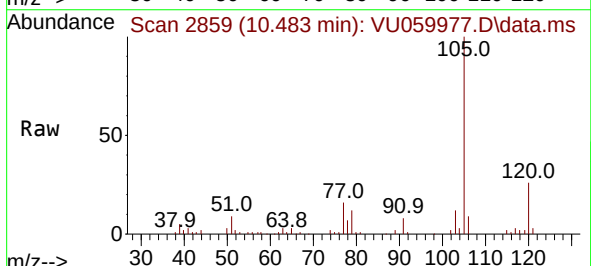
Tgt Ion:105 Resp: 46051

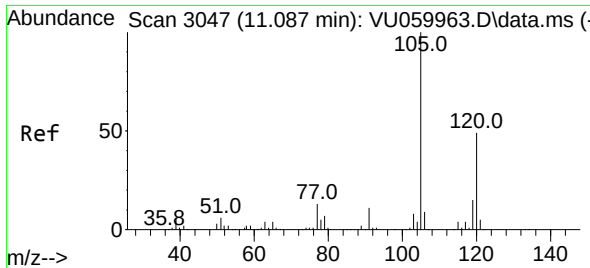
Ion Ratio Lower Upper

105 100

120 26.6 20.6 31.0

77 16.9 12.8 19.2

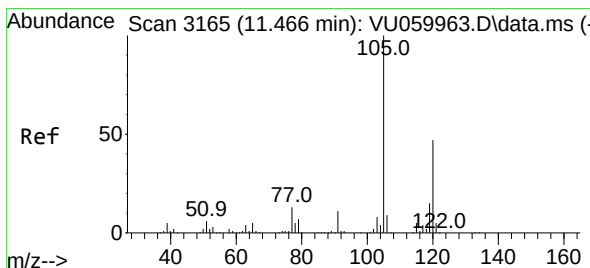
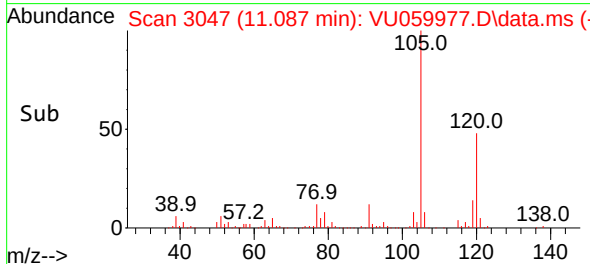
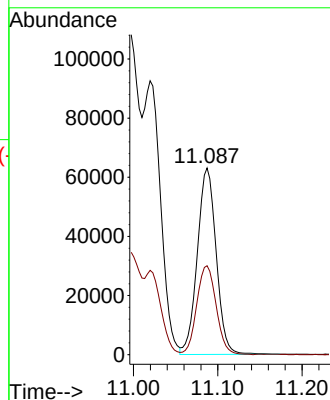
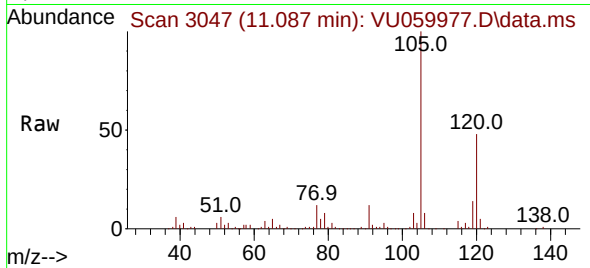




#62
1,3,5-Trimethylbenzene
Concen: 1.962 ug/L
RT: 11.087 min Scan# 3047
Delta R.T. 0.000 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

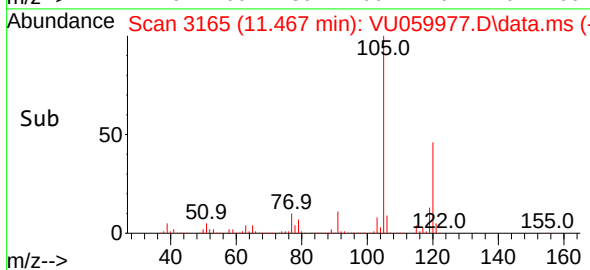
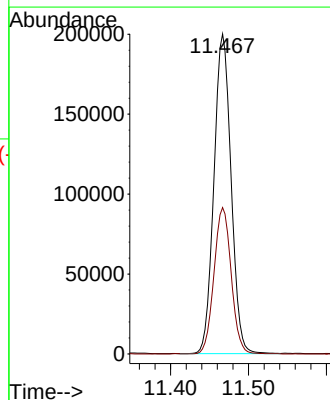
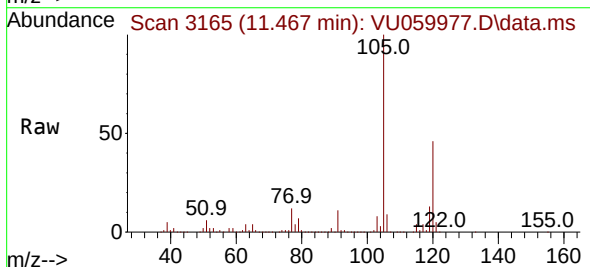
Instrument :
MSVOA_U
ClientSampleId :
YDZJ8

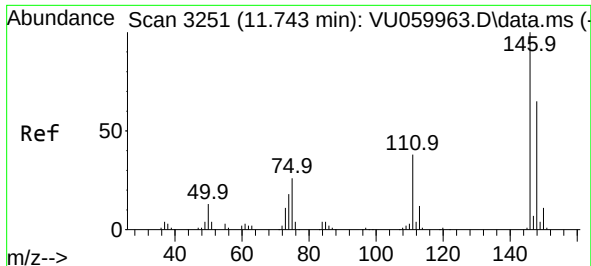
Tgt Ion:105 Resp: 98442
Ion Ratio Lower Upper
105 100
120 49.1 38.2 57.4



#63
1,2,4-Trimethylbenzene
Concen: 6.375 ug/L
RT: 11.467 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VU059977.D
Acq: 16 Jul 2024 16:20

Tgt Ion:105 Resp: 305828
Ion Ratio Lower Upper
105 100
120 46.0 35.4 53.0





#64

1,3-Dichlorobenzene

Concen: 0.487 ug/L

RT: 11.750 min Scan# 31

Delta R.T. 0.007 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

Instrument :

MSVOA_U

ClientSampleId :

YDZJ8

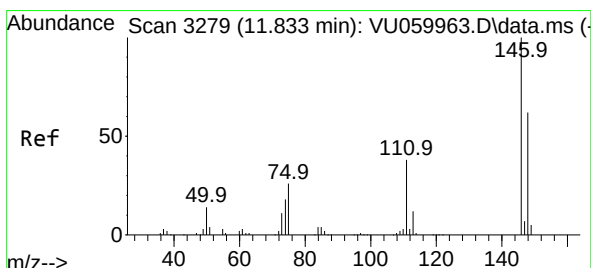
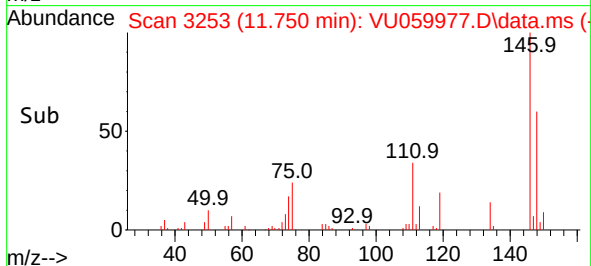
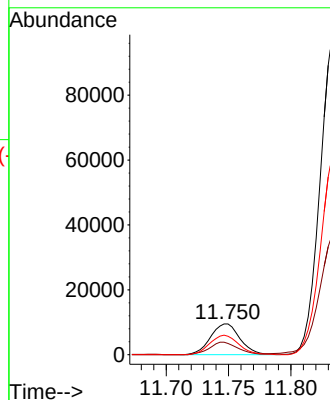
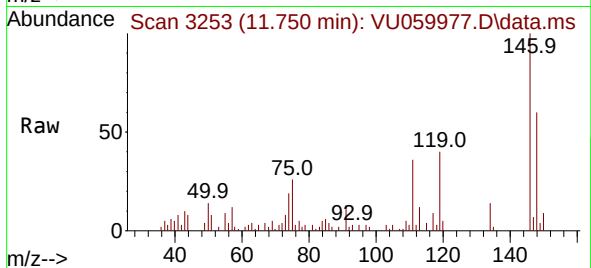
Tgt Ion:146 Resp: 15688

Ion Ratio Lower Upper

146 100

111 36.2 27.4 51.0

148 60.0 45.0 83.6



#65

1,4-Dichlorobenzene

Concen: 4.912 ug/L

RT: 11.836 min Scan# 3280

Delta R.T. 0.003 min

Lab File: VU059977.D

Acq: 16 Jul 2024 16:20

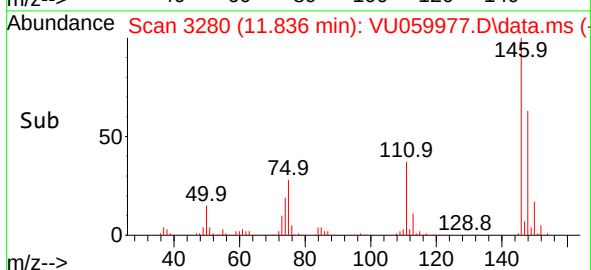
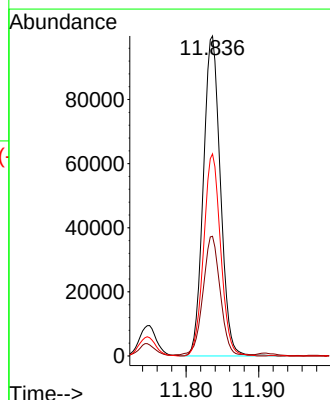
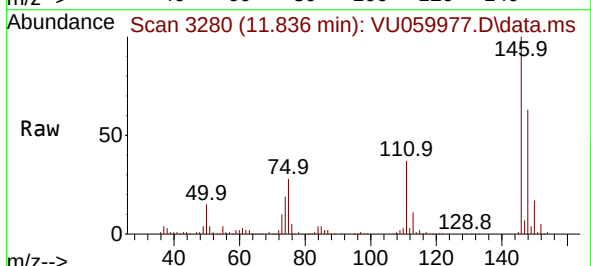
Tgt Ion:146 Resp: 162882

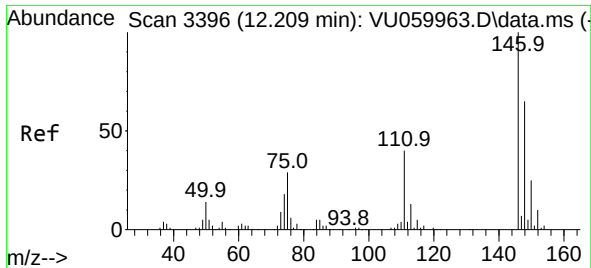
Ion Ratio Lower Upper

146 100

111 37.4 26.9 50.1

148 63.2 45.3 84.1





#67
 1,2-Dichlorobenzene
 Concen: 21.884 ug/L
 RT: 12.209 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU059977.D
 Acq: 16 Jul 2024 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 YDZJ8

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

