

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072324\
 Data File : VU060132.D
 Acq On : 23 Jul 2024 23:39
 Operator : MD/SY
 Sample : P3244-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 24 05:57:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jul 24 05:34:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	133672	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	133525	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	66746	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.589	65	43313	4.657	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.200%
7) Chloroethane-d5	1.904	69	39359	4.555	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.200%
11) 1,1-Dichloroethene-d2	2.554	65	16232	4.470	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.400%
20) 2-Butanone-d5	4.692	46	91415	42.042	ug/L	0.07
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.080%
24) Chloroform-d	5.052	84	80000	4.093	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.800%
26) 1,2-Dichloroethane-d4	5.698	65	40540	4.454	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.000%
32) Benzene-d6	5.714	84	159700	4.464	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.200%
36) 1,2-Dichloropropane-d6	6.682	67	53157	4.663	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.200%
41) Toluene-d8	7.891	98	131550	4.070	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.400%
43) trans-1,3-Dichloroprop...	8.177	79	9677	2.494	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	49.800%#
46) 2-Hexanone-d5	8.637	63	74191	43.085	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.180%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	46965	4.629	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.600%
66) 1,2-Dichlorobenzene-d4	12.187	152	59303	4.922	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.592	62	658345	48.100	ug/L	98
8) Chloroethane	1.924	64	4781	0.535	ug/L	99
12) 1,1-Dichloroethene	2.567	96	4850	0.475	ug/L #	1
16) Methylene chloride	3.033	84	2296	0.184	ug/L	99
17) Methyl tert-butyl Ether	3.370	73	16080	0.691	ug/L #	75
18) trans-1,2-Dichloroethene	3.335	96	16652	1.569	ug/L	96
19) 1,1-Dichloroethane	3.849	63	6186	0.307	ug/L	92
22) cis-1,2-Dichloroethene	4.653	96	838654	70.550	ug/L	99
30) Cyclohexane	5.374	56	2439	0.185	ug/L #	83
33) Benzene	5.766	78	70565	1.600	ug/L	100
34) Trichloroethene	6.534	95	18632	1.593	ug/L	95
35) Methylcyclohexane	6.747	83	1801	0.117	ug/L #	63
37) 1,2-Dichloropropane	6.685	63	5299	0.445	ug/L #	88
42) Toluene	7.965	91	19315	0.411	ug/L	98
45) 1,1,2-Trichloroethane	8.267	97	30356	3.334	ug/L #	18
51) Chlorobenzene	9.441	112	224492	7.320	ug/L	99
53) m,p-Xylene	9.692	106	4366	0.241	ug/L	96
62) 1,3,5-Trimethylbenzene	11.467	105	2835	0.085	ug/L	92
63) 1,2,4-Trimethylbenzene	11.467	105	2835	0.088	ug/L	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072324\
Data File : VU060132.D
Acq On : 23 Jul 2024 23:39
Operator : MD/SY
Sample : P3244-07
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jul 24 05:57:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Jul 24 05:34:19 2024
Response via : Initial Calibration

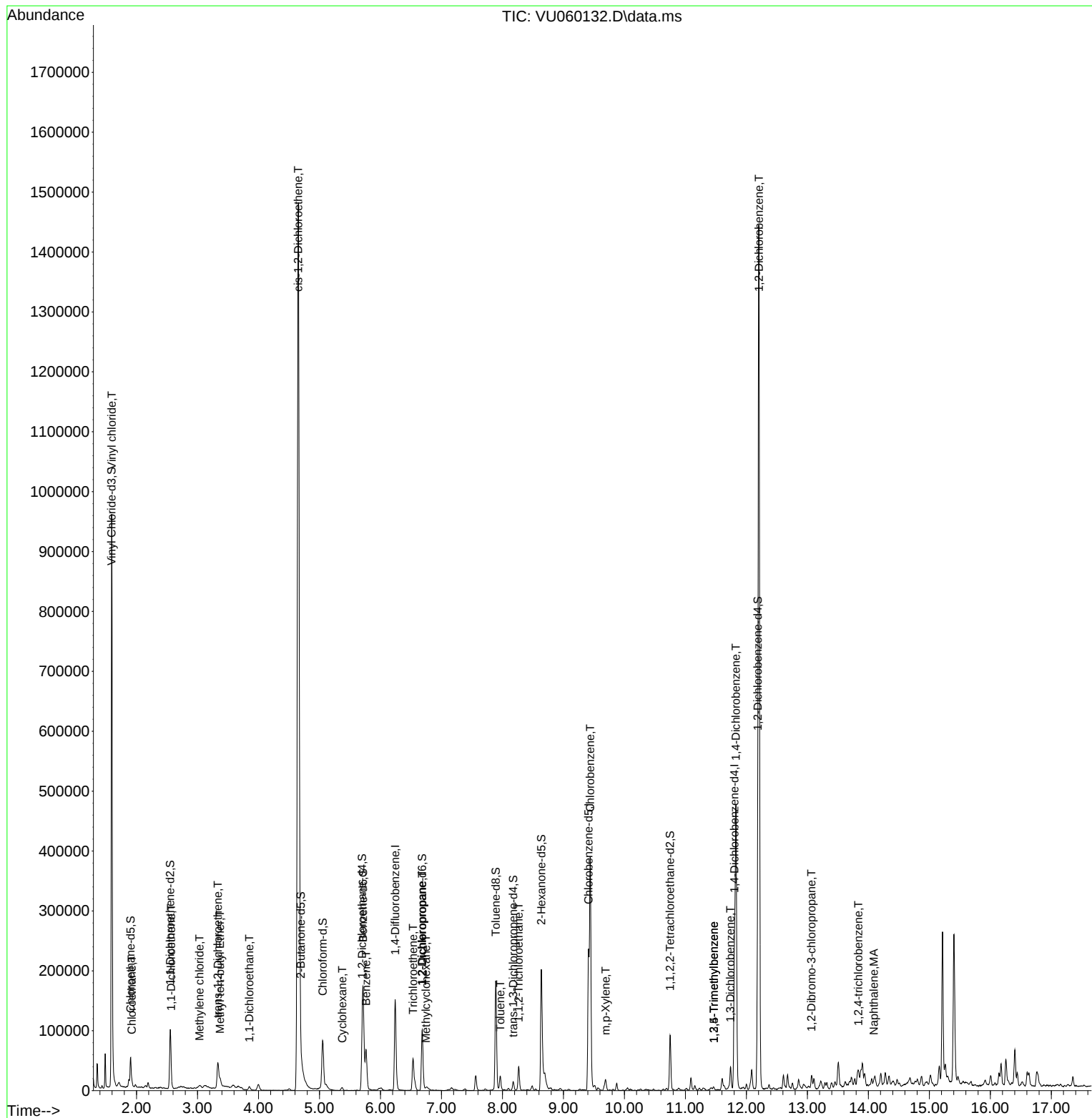
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.740	146	15389	0.655	ug/L	98
65) 1,4-Dichlorobenzene	11.830	146	197703	8.267	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	613496	27.284	ug/L	98
68) 1,2-Dibromo-3-chloropr...	13.068	75	276	0.201	ug/L #	1
70) 1,2,4-trichlorobenzene	13.836	180	4005	0.297	ug/L #	74
71) Naphthalene	14.090	128	4107	0.215	ug/L #	47

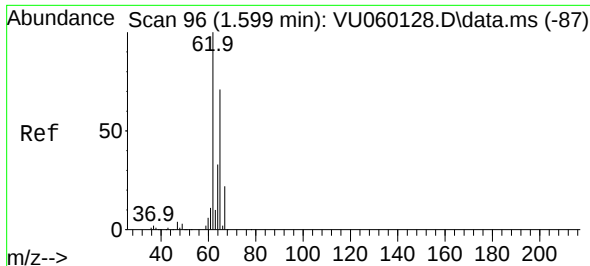
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072324\
Data File : VU060132.D
Acq On : 23 Jul 2024 23:39
Operator : MD/SY
Sample : P3244-07
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jul 24 05:57:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Jul 24 05:34:19 2024
Response via : Initial Calibration

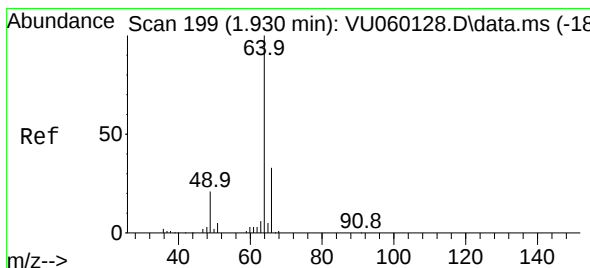
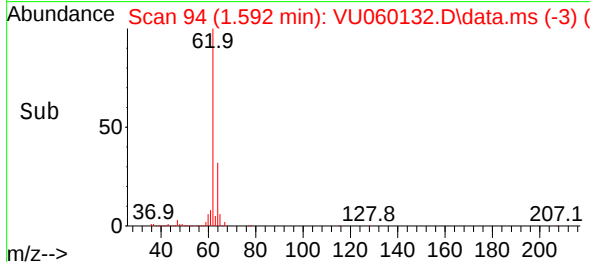
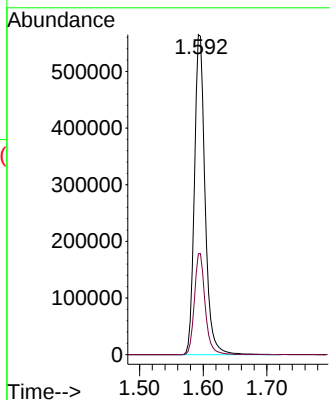
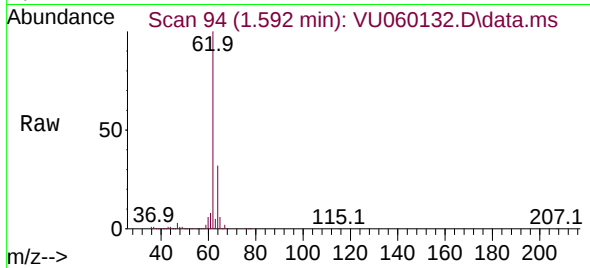




#5
 Vinyl chloride
 Concen: 48.100 ug/L
 RT: 1.592 min Scan# 94
 Delta R.T. -0.006 min
 Lab File: VU060132.D
 Acq: 23 Jul 2024 23:39

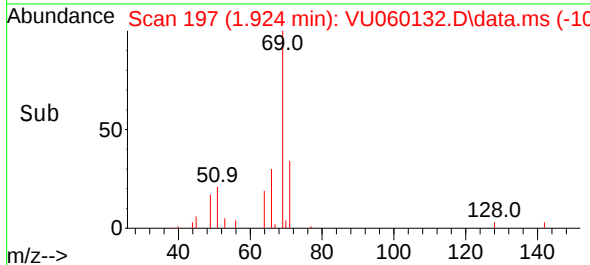
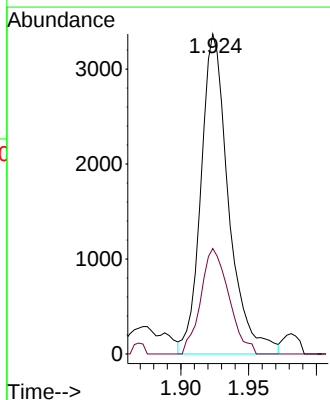
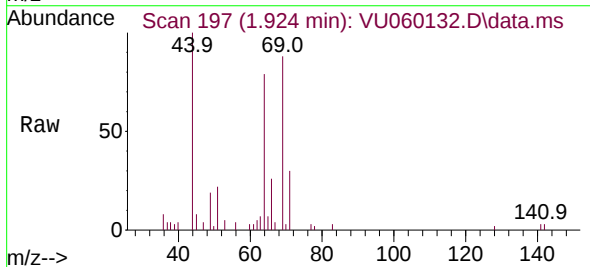
Instrument :
 MSVOA_U
 ClientSampleId :

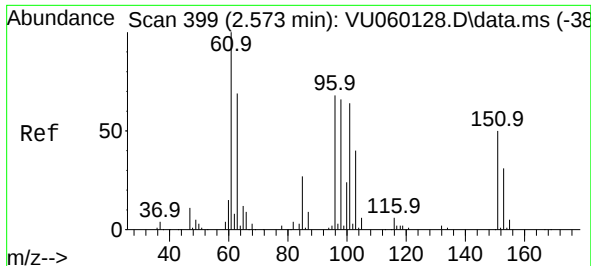
Tgt Ion: 62 Resp: 658345
 Ion Ratio Lower Upper
 62 100
 64 31.6 22.8 42.4



#8
 Chloroethane
 Concen: 0.535 ug/L
 RT: 1.924 min Scan# 197
 Delta R.T. -0.006 min
 Lab File: VU060132.D
 Acq: 23 Jul 2024 23:39

Tgt Ion: 64 Resp: 4781
 Ion Ratio Lower Upper
 64 100
 66 32.9 22.8 42.4





#12

1,1-Dichloroethene

Concen: 0.475 ug/L

RT: 2.567 min Scan# 399

Delta R.T. -0.006 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

Instrument :

MSVOA_U

ClientSampleId :

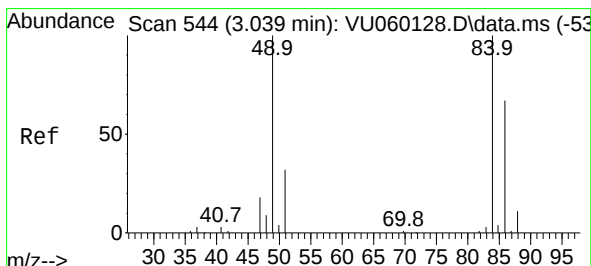
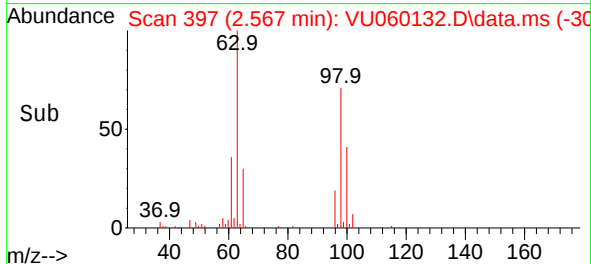
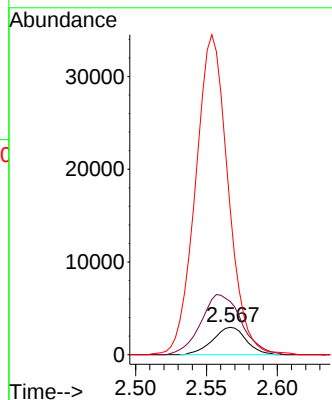
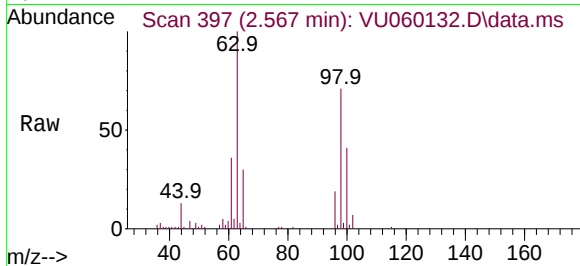
Tgt Ion: 96 Resp: 4850

Ion Ratio Lower Upper

96 100

61 194.4 107.0 198.6

63 534.2 76.4 142.0#



#16

Methylene chloride

Concen: 0.184 ug/L

RT: 3.033 min Scan# 542

Delta R.T. -0.006 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

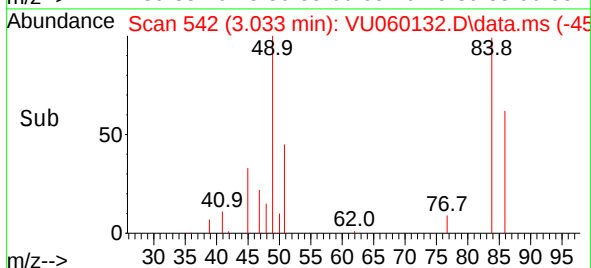
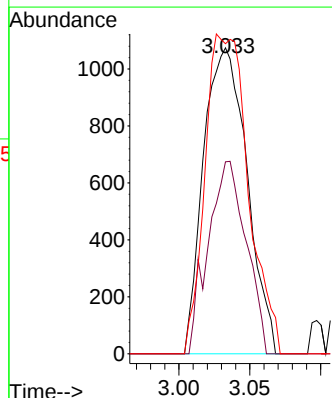
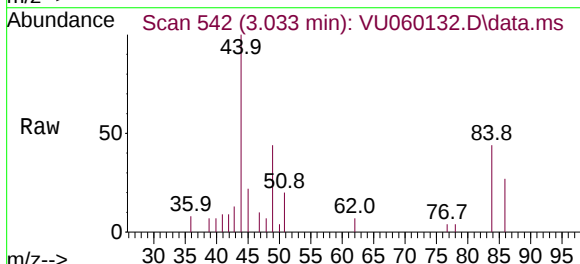
Tgt Ion: 84 Resp: 2296

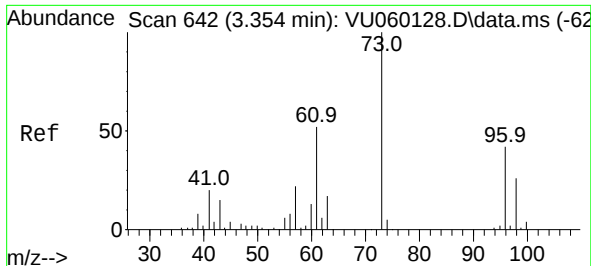
Ion Ratio Lower Upper

84 100

86 62.8 44.4 82.5

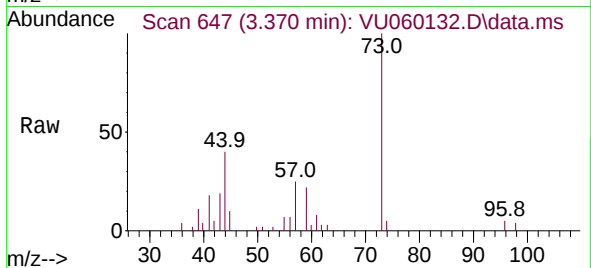
49 101.4 72.0 133.6



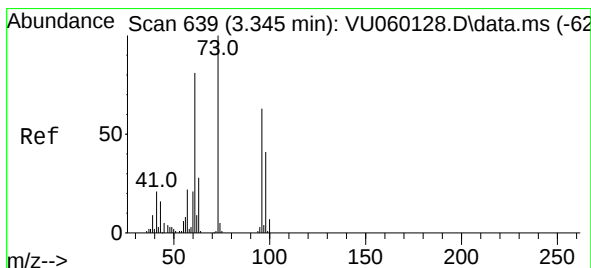
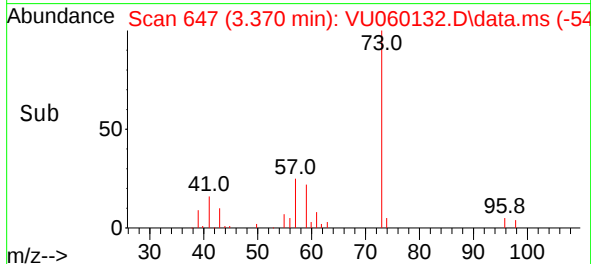
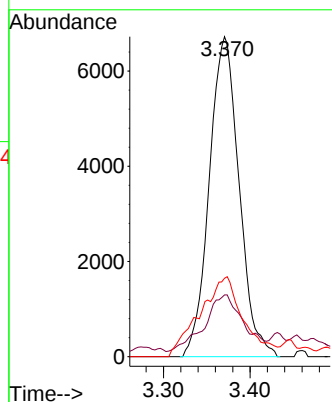


#17
Methyl tert-butyl Ether
Concen: 0.691 ug/L
RT: 3.370 min Scan# 642
Delta R.T. 0.016 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

Instrument :
MSVOA_U
ClientSampleId :

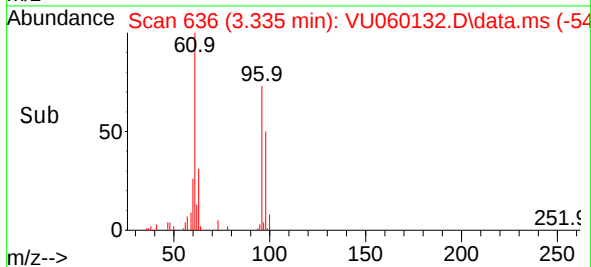
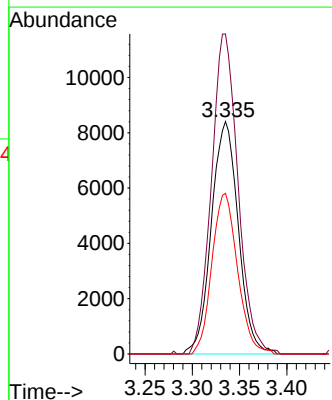
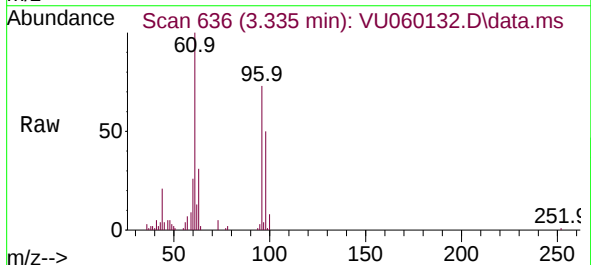


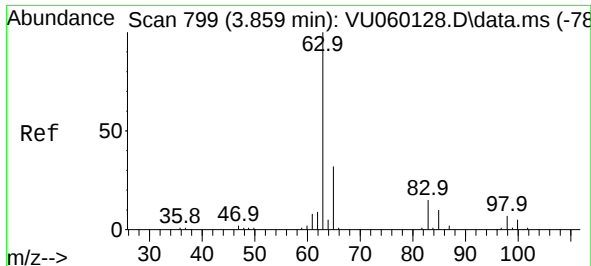
Tgt Ion: 73 Resp: 16080
Ion Ratio Lower Upper
73 100
43 23.1 13.1 19.7#
57 36.5 17.0 25.4#



#18
trans-1,2-Dichloroethene
Concen: 1.569 ug/L
RT: 3.335 min Scan# 636
Delta R.T. -0.010 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

Tgt Ion: 96 Resp: 16652
Ion Ratio Lower Upper
96 100
61 137.7 91.6 170.0
98 69.1 47.7 88.5

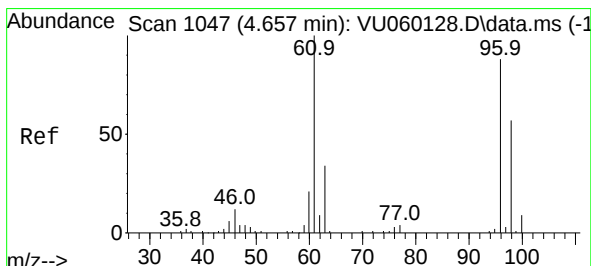
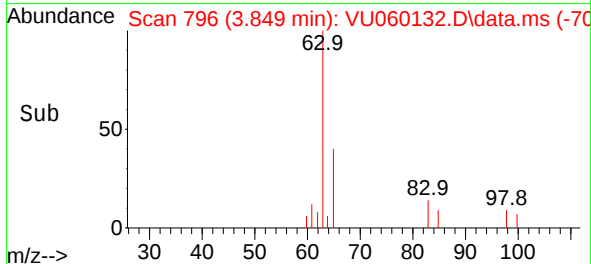
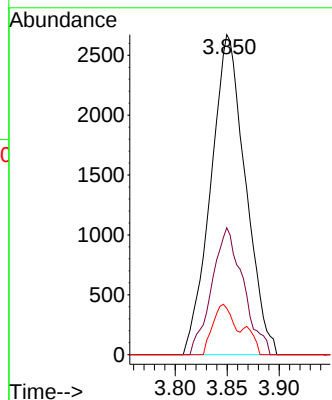
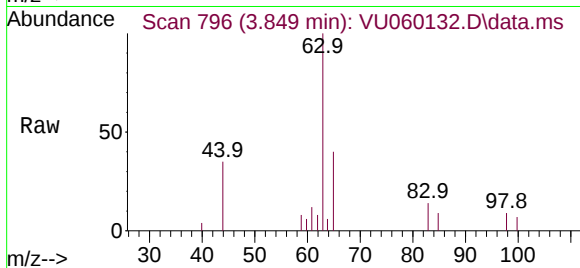




#19
1,1-Dichloroethane
Concen: 0.307 ug/L
RT: 3.849 min Scan# 799
Delta R.T. -0.010 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

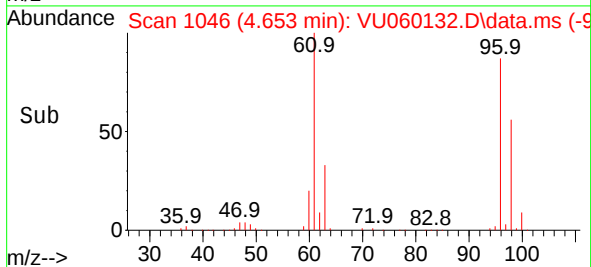
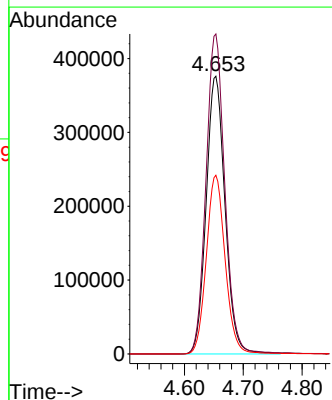
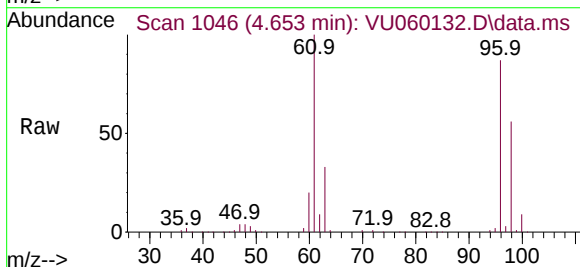
Instrument :
MSVOA_U
ClientSampleId :

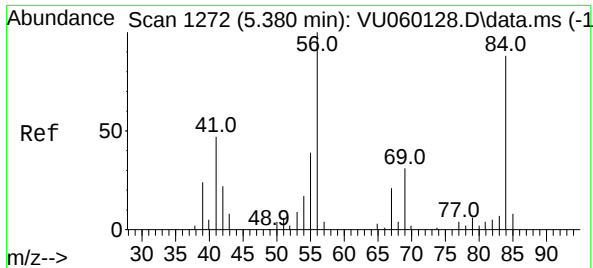
Tgt Ion: 63 Resp: 6186
Ion Ratio Lower Upper
63 100
65 37.6 22.0 40.8
83 13.7 9.7 17.9



#22
cis-1,2-Dichloroethene
Concen: 70.550 ug/L
RT: 4.653 min Scan# 1046
Delta R.T. -0.003 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

Tgt Ion: 96 Resp: 838654
Ion Ratio Lower Upper
96 100
61 115.2 80.2 148.9
98 64.3 44.7 83.1





#30

Cyclohexane

Concen: 0.185 ug/L

RT: 5.374 min Scan# 1270

Delta R.T. -0.006 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

Instrument :

MSVOA_U

ClientSampleId :

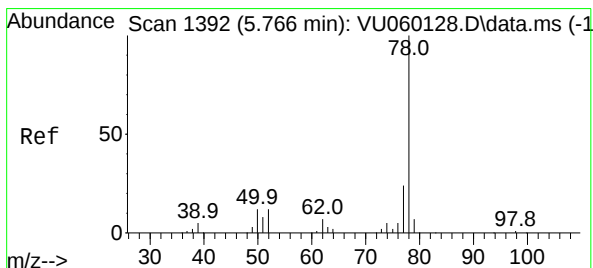
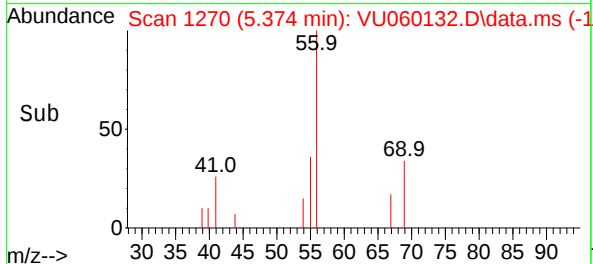
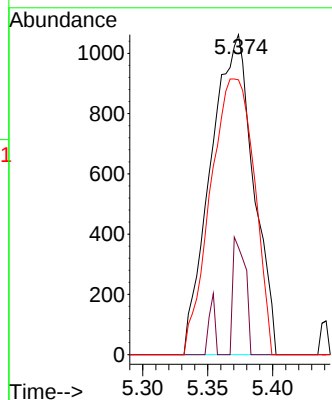
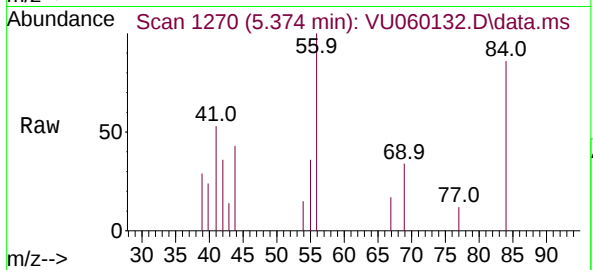
Tgt Ion: 56 Resp: 2439

Ion Ratio Lower Upper

56 100

69 10.6 26.6 39.8#

84 88.0 77.2 115.8



#33

Benzene

Concen: 1.600 ug/L

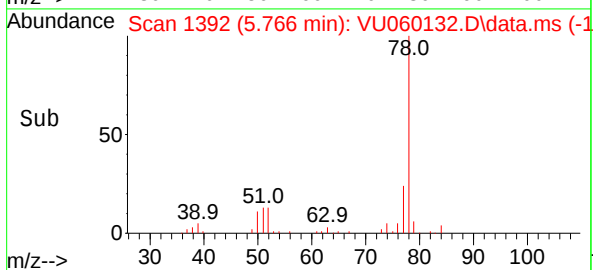
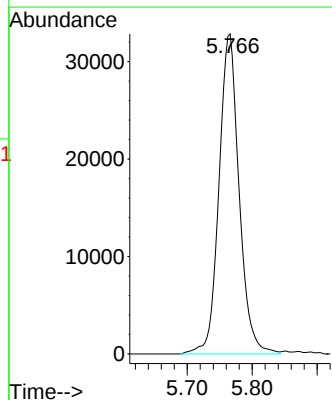
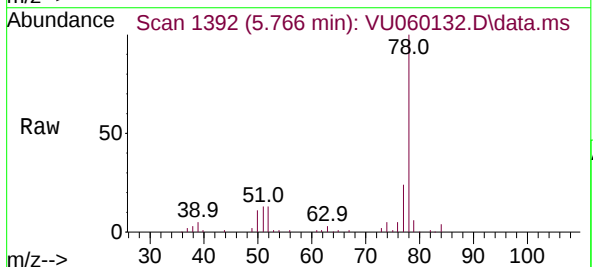
RT: 5.766 min Scan# 1392

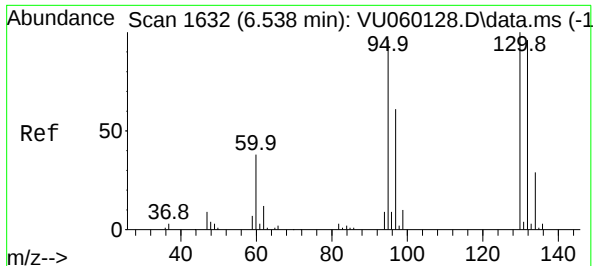
Delta R.T. -0.000 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

Tgt Ion: 78 Resp: 70565





#34

Trichloroethene

Concen: 1.593 ug/L

RT: 6.534 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 18632

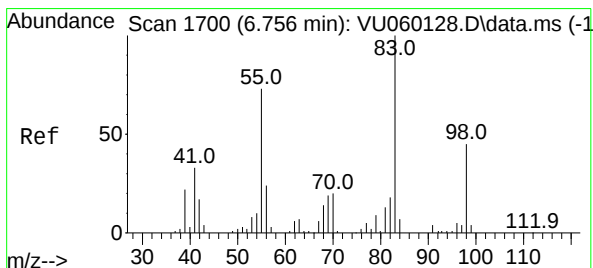
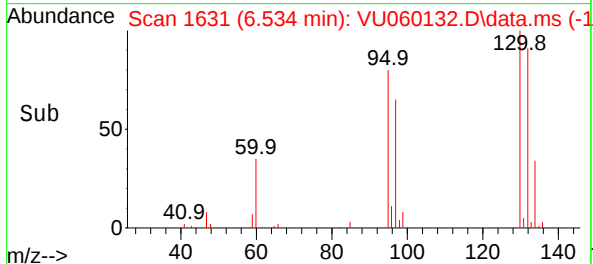
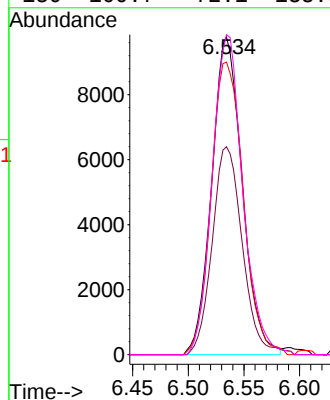
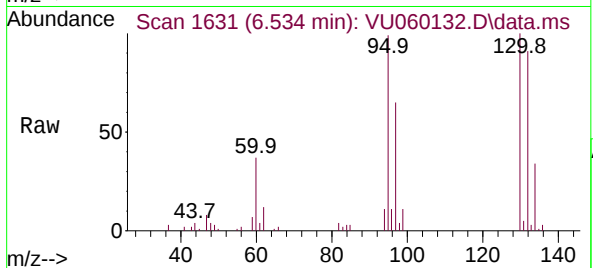
Ion Ratio Lower Upper

95 100

97 65.5 45.9 85.3

132 92.1 71.4 132.6

130 100.7 72.1 133.9



#35

Methylcyclohexane

Concen: 0.117 ug/L

RT: 6.747 min Scan# 1697

Delta R.T. -0.010 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

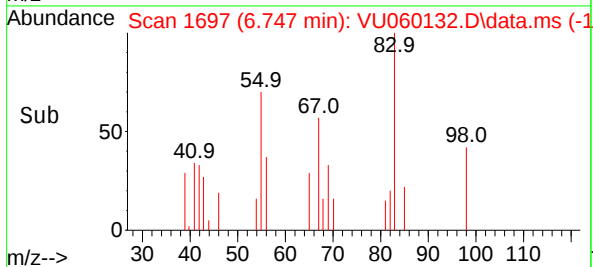
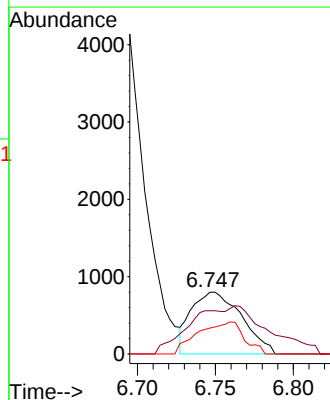
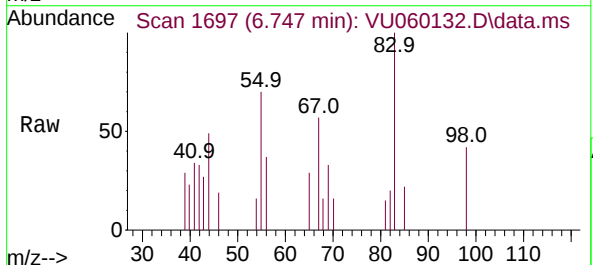
Tgt Ion: 83 Resp: 1801

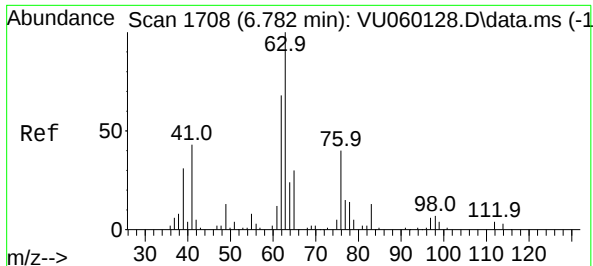
Ion Ratio Lower Upper

83 100

55 57.1 56.7 85.1

98 0.0 36.6 55.0#

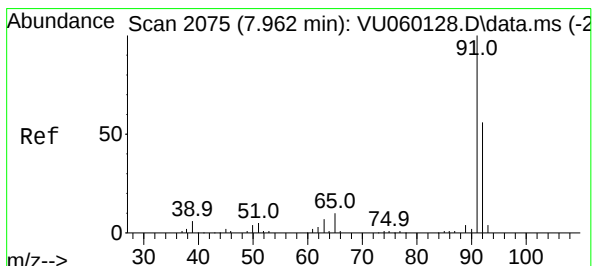
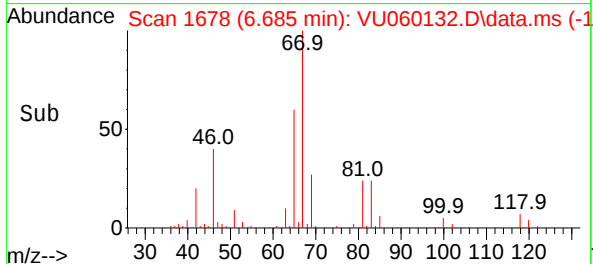
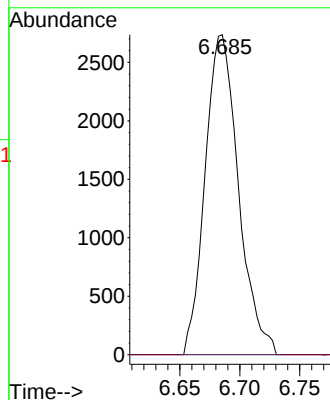
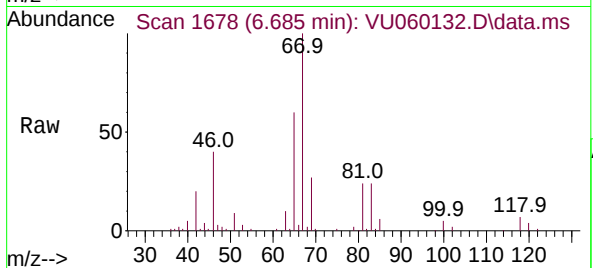




#37
1,2-Dichloropropane
Concen: 0.445 ug/L
RT: 6.685 min Scan# 1
Delta R.T. -0.097 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

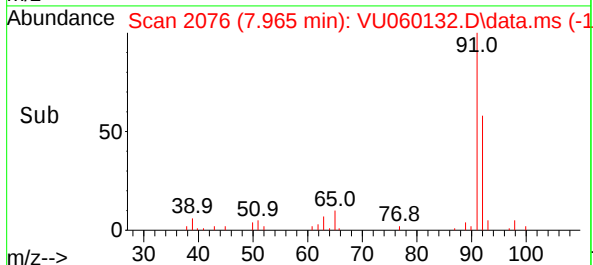
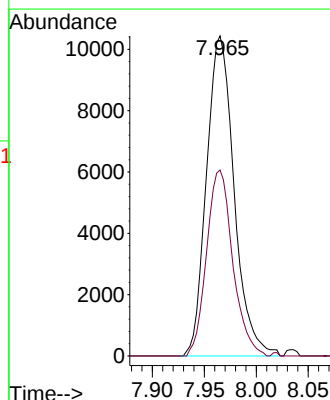
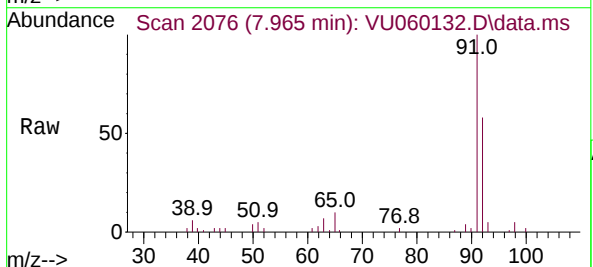
Instrument :
MSVOA_U
ClientSampleId :

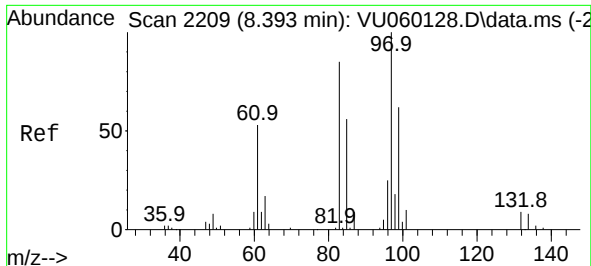
Tgt Ion: 63 Resp: 5299
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#



#42
Toluene
Concen: 0.411 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

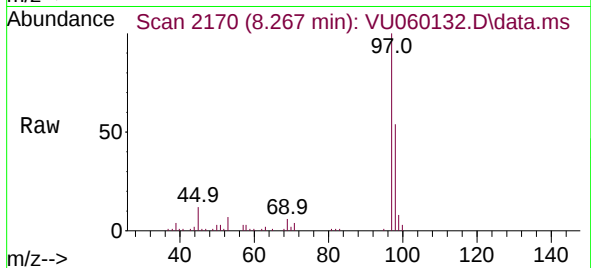
Tgt Ion: 91 Resp: 19315
Ion Ratio Lower Upper
91 100
92 58.1 39.8 73.8



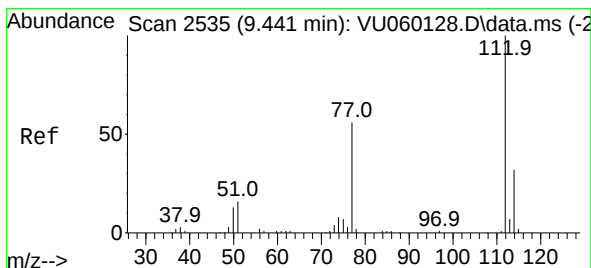
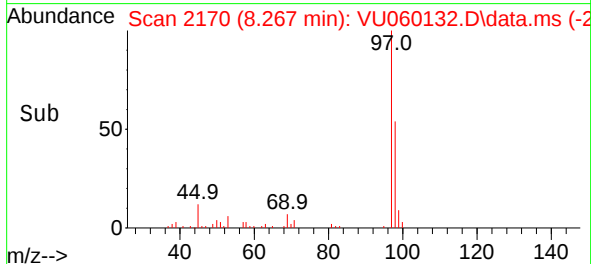
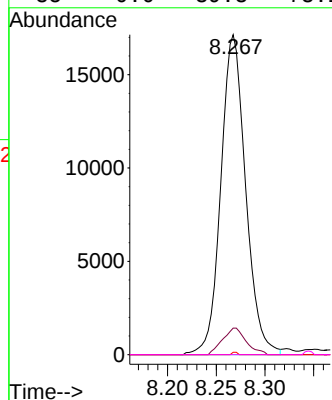


#45
1,1,2-Trichloroethane
Concen: 3.334 ug/L
RT: 8.267 min Scan# 2170
Delta R.T. -0.125 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

Instrument :
MSVOA_U
ClientSampleId :

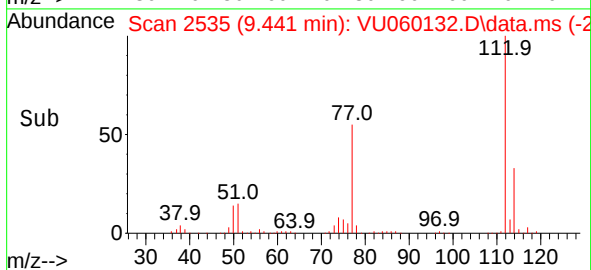
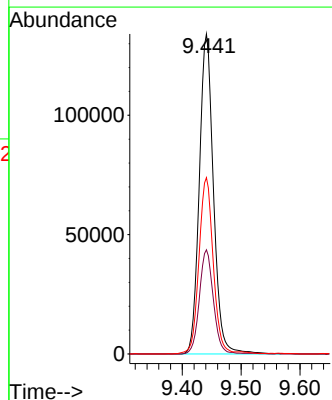
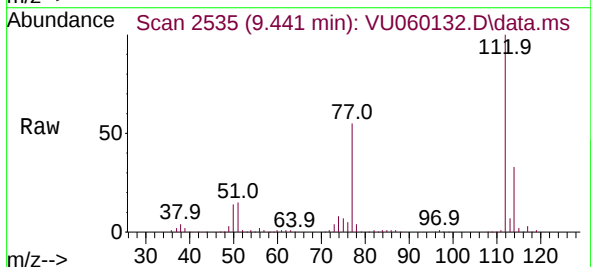


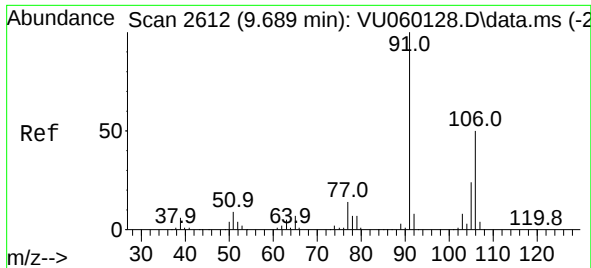
Tgt Ion:	97	Resp:	30356
Ion	Ratio	Lower	Upper
97	100		
99	8.3	43.8	81.4#
83	0.8	62.1	115.3#
85	0.0	39.3	73.1#



#51
Chlorobenzene
Concen: 7.320 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. -0.000 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

Tgt Ion:	112	Resp:	224492
Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.1	41.1
77	55.1	44.7	67.1

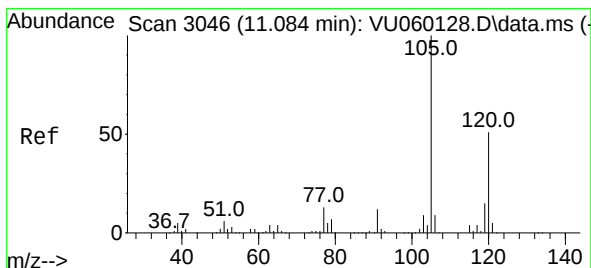
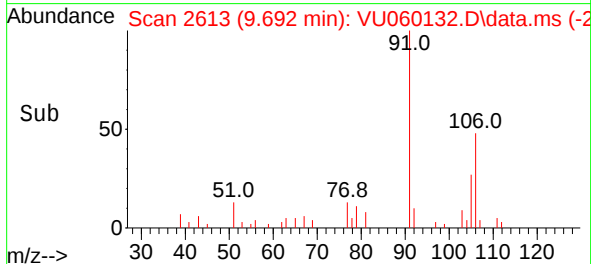
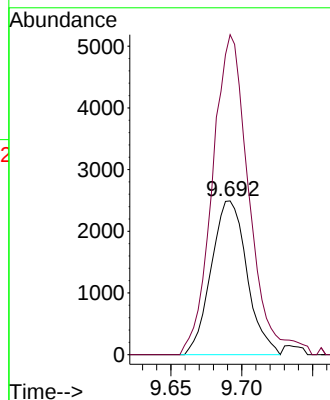
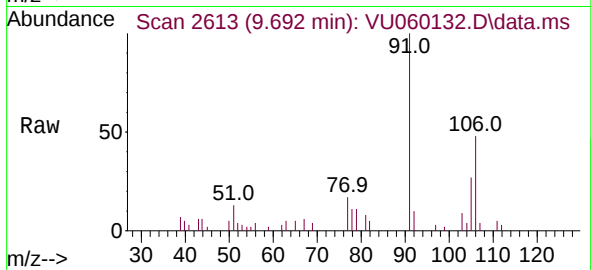




#53
m,p-Xylene
Concen: 0.241 ug/L
RT: 9.692 min Scan# 2165
Delta R.T. 0.003 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

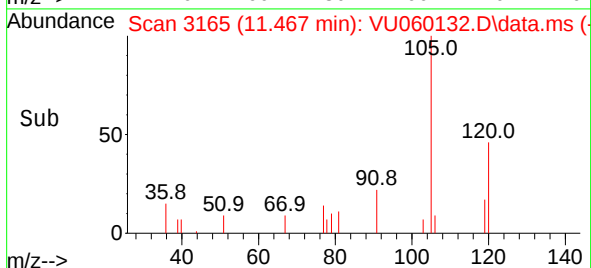
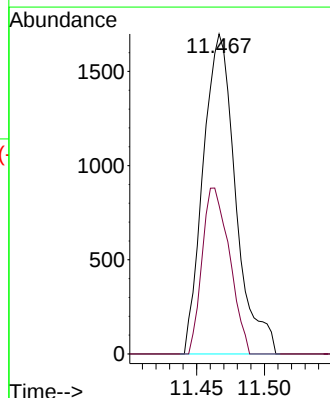
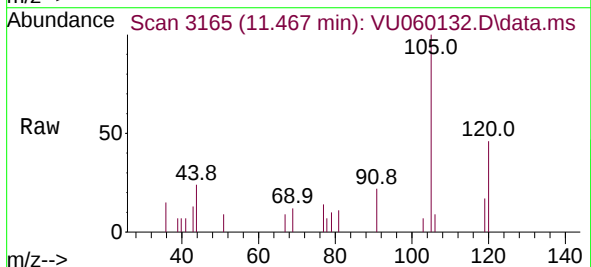
Instrument :
MSVOA_U
ClientSampleId :

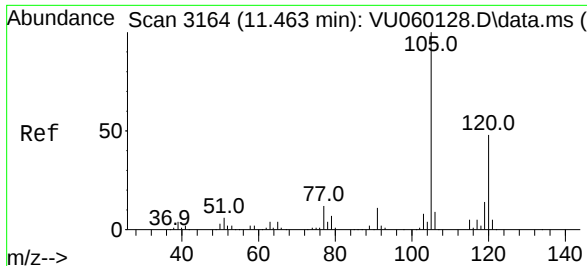
Tgt Ion:106 Resp: 4366
Ion Ratio Lower Upper
106 100
91 208.1 141.3 262.5



#62
1,3,5-Trimethylbenzene
Concen: 0.085 ug/L
RT: 11.467 min Scan# 3165
Delta R.T. 0.383 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

Tgt Ion:105 Resp: 2835
Ion Ratio Lower Upper
105 100
120 43.7 39.4 59.2





#63

1,2,4-Trimethylbenzene

Concen: 0.088 ug/L

RT: 11.467 min Scan# 3164

Delta R.T. 0.003 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

Instrument :

MSVOA_U

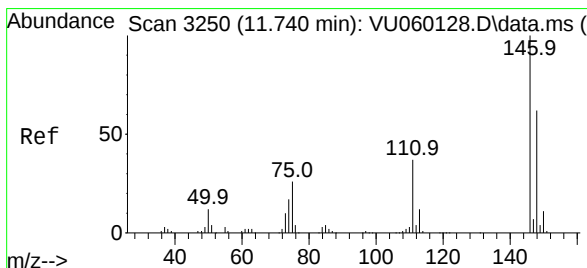
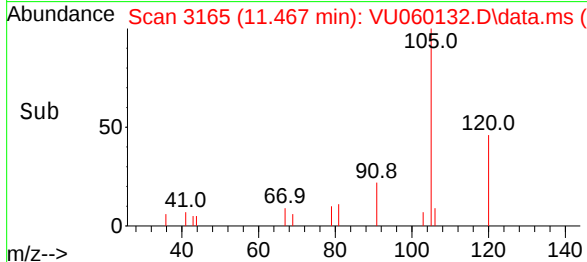
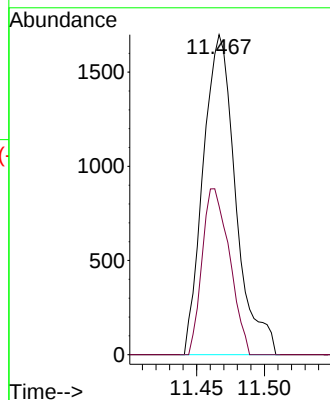
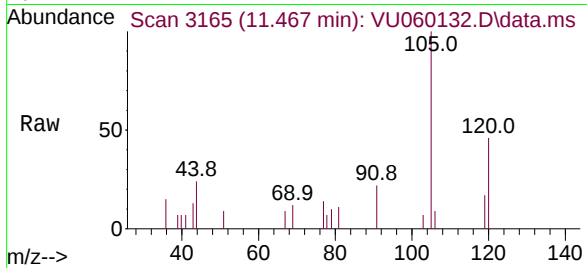
ClientSampleId :

Tgt Ion:105 Resp: 2835

Ion Ratio Lower Upper

105 100

120 43.7 36.7 55.1



#64

1,3-Dichlorobenzene

Concen: 0.655 ug/L

RT: 11.740 min Scan# 3250

Delta R.T. -0.000 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

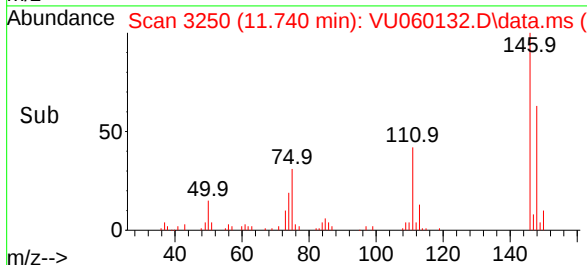
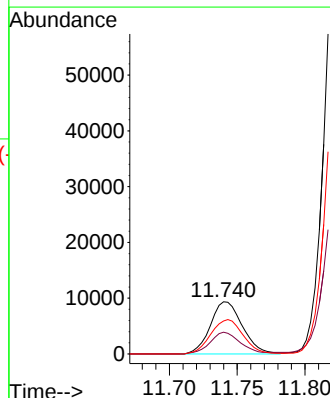
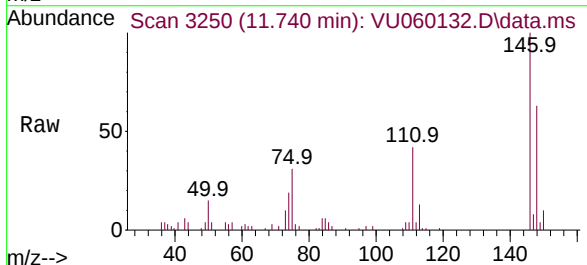
Tgt Ion:146 Resp: 15389

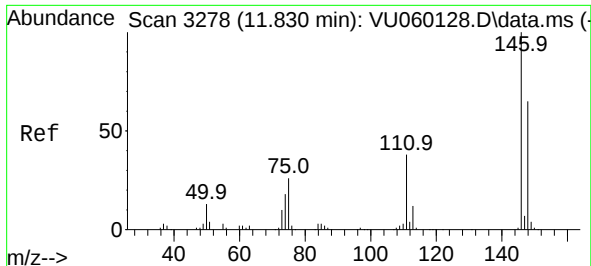
Ion Ratio Lower Upper

146 100

111 41.7 27.2 50.4

148 63.3 44.3 82.3





#65

1,4-Dichlorobenzene

Concen: 8.267 ug/L

RT: 11.830 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

Instrument :

MSVOA_U

ClientSampleId :

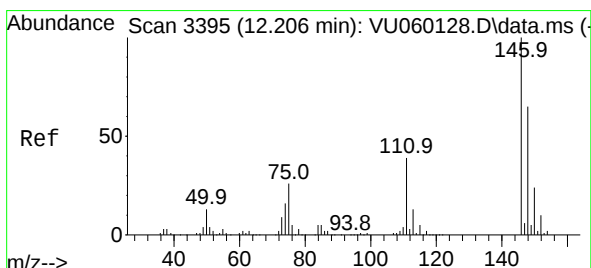
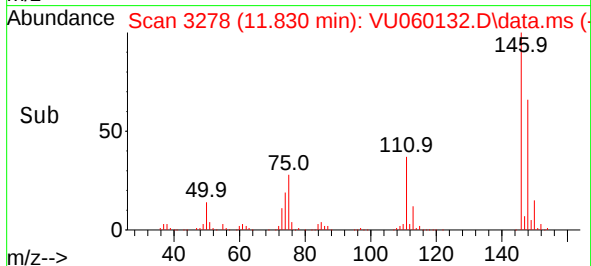
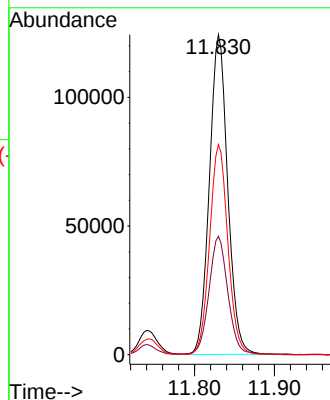
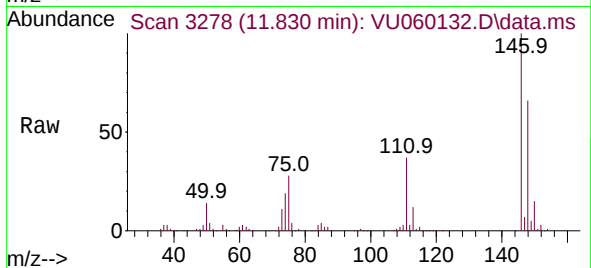
Tgt Ion:146 Resp: 197703

Ion Ratio Lower Upper

146 100

111 37.0 26.5 49.1

148 65.6 45.3 84.1



#67

1,2-Dichlorobenzene

Concen: 27.284 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. -0.000 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

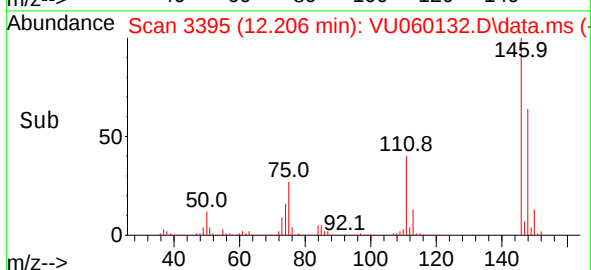
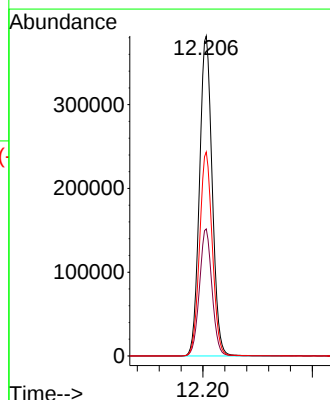
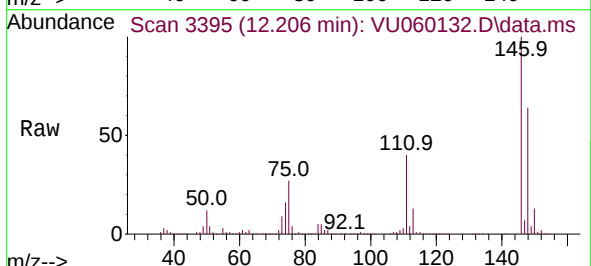
Tgt Ion:146 Resp: 613496

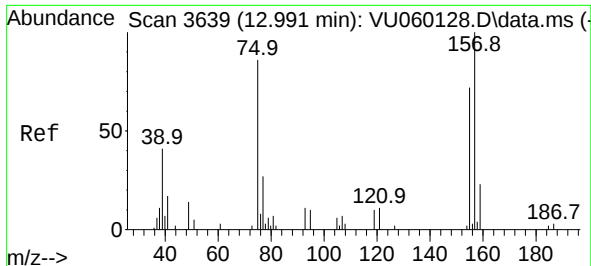
Ion Ratio Lower Upper

146 100

111 39.7 30.9 46.3

148 63.7 49.8 74.8





#68

1,2-Dibromo-3-chloropropane

Concen: 0.201 ug/L

RT: 13.068 min Scan# 3663

Delta R.T. 0.077 min

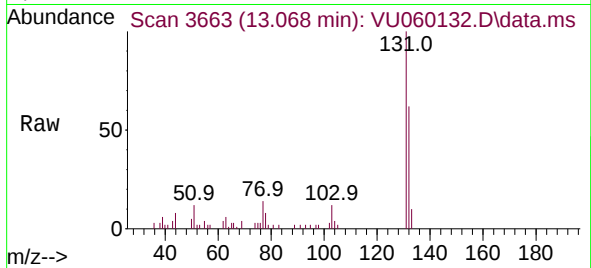
Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

Instrument :

MSVOA_U

ClientSampleId :



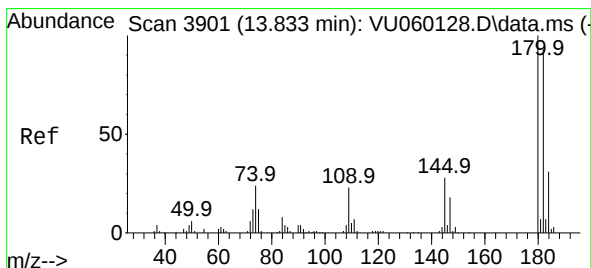
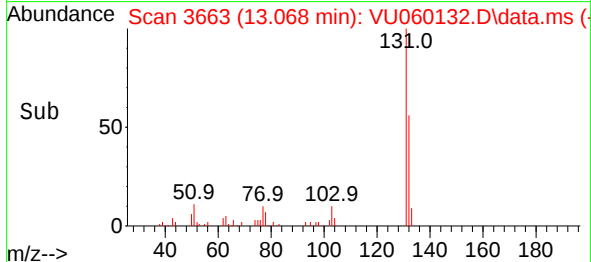
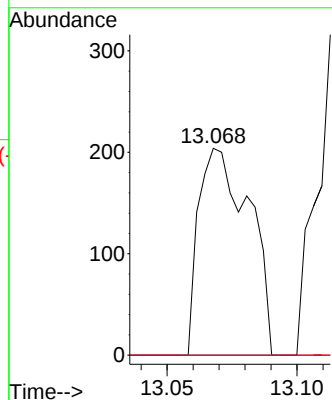
Tgt Ion: 75 Resp: 276

Ion Ratio Lower Upper

75 100

155 0.0 70.6 105.8#

157 0.0 99.4 149.2#



#70

1,2,4-trichlorobenzene

Concen: 0.297 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.003 min

Lab File: VU060132.D

Acq: 23 Jul 2024 23:39

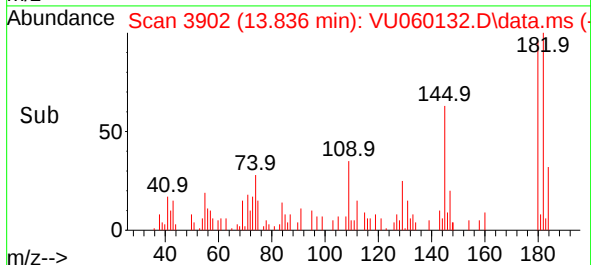
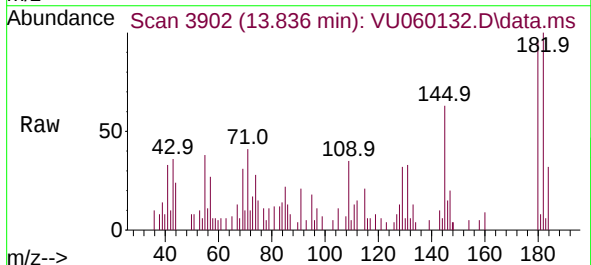
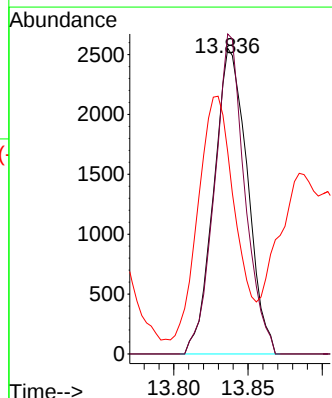
Tgt Ion:180 Resp: 4005

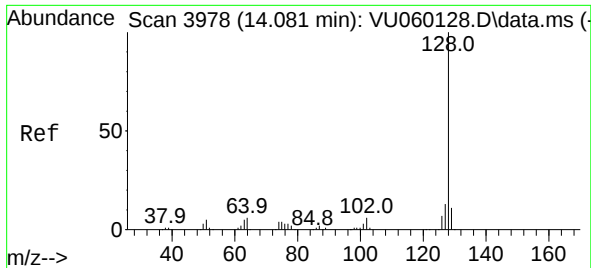
Ion Ratio Lower Upper

180 100

182 94.7 77.2 115.8

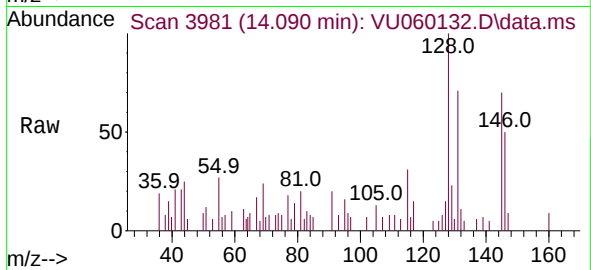
145 86.3 23.0 34.4#





#71
Naphthalene
Concen: 0.215 ug/L
RT: 14.090 min Scan# 3981
Delta R.T. 0.010 min
Lab File: VU060132.D
Acq: 23 Jul 2024 23:39

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:128 Resp: 4107
Ion Ratio Lower Upper
128 100
129 39.8 8.2 12.4#
127 0.0 10.6 16.0#

