

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120822\
 Data File : VU052258.D
 Acq On : 08 Dec 2022 18:58
 Operator : JC/MD
 Sample : N5930-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ88

Quant Time: Dec 08 22:33:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111822WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 08 04:19:43 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	760	5.000	ug/L	# 0.00
28) Chlorobenzene-d5	9.417	117	701	5.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	981	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	0.000	65	0	0.000	ug/L	
Spiked Amount	5.000	Range	40 - 130	Recovery	=	0.000%#
7) Chloroethane-d5	0.000	69	0	0.000	ug/L	
Spiked Amount	5.000	Range	65 - 130	Recovery	=	0.000%#
11) 1,1-Dichloroethene-d2	0.000	65	0	0.000	ug/L	
Spiked Amount	5.000	Range	60 - 125	Recovery	=	0.000%#
20) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	50.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	5.083	84	128	1.178	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	23.600%#
26) 1,2-Dichloroethane-d4	5.703	65	789	14.381	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	287.600%#
32) Benzene-d6	5.729	84	152	0.730	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	14.600%#
36) 1,2-Dichloropropane-d6	0.000	67	0	0.000	ug/L	
Spiked Amount	5.000	Range	60 - 140	Recovery	=	0.000%#
41) Toluene-d8	7.893	98	959	5.093	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.800%
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	5.000	Range	55 - 130	Recovery	=	0.000%#
46) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	50.000	Range	45 - 130	Recovery	=	0.000%#
56) 1,1,2,2-Tetrachloroeth...	10.761	84	171	3.062	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	61.200%#
66) 1,2-Dichlorobenzene-d4	12.195	152	681	3.626	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	72.600%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	1370	15.926	ug/L	87
8) Chloroethane	1.919	64	128	2.490	ug/L	# 45
12) 1,1-Dichloroethene	2.584	96	3896	70.667	ug/L	# 56
13) Acetone	2.652	43	3911	429.812	ug/L	99
14) Carbon disulfide	2.800	76	404	2.117	ug/L	# 76
16) Methylene chloride	3.044	84	867	11.624	ug/L	# 73
19) 1,1-Dichloroethane	4.035	63	41	0.385	ug/L	# 50
21) 2-Butanone	4.752	43	69	4.731	ug/L	# 43
23) Bromochloromethane	4.970	128	80	2.696	ug/L	# 1
25) Chloroform	5.086	83	3324	30.797	ug/L	88
27) 1,2-Dichloroethane	5.790	62	342	5.174	ug/L	# 72
29) 1,1,1-Trichloroethane	5.317	97	36446	468.612	ug/L	97
31) Carbon tetrachloride	5.311	117	5241	79.308	ug/L	93
33) Benzene	5.787	78	278	1.219	ug/L	100
34) Trichloroethene	6.542	95	456	8.014	ug/L	# 88
40) 4-Methyl-2-pentanone	7.803	43	170	5.510	ug/L	# 1
42) Toluene	7.973	91	158	0.673	ug/L	# 22
45) 1,1,2-Trichloroethane	8.546	97	278	6.263	ug/L	# 1
47) Tetrachloroethene	8.552	164	48623	1114.956	ug/L	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120822\
 Data File : VU052258.D
 Acq On : 08 Dec 2022 18:58
 Operator : JC/MD
 Sample : N5930-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ88

Quant Time: Dec 08 22:33:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111822WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 08 04:19:43 2022
 Response via : Initial Calibration

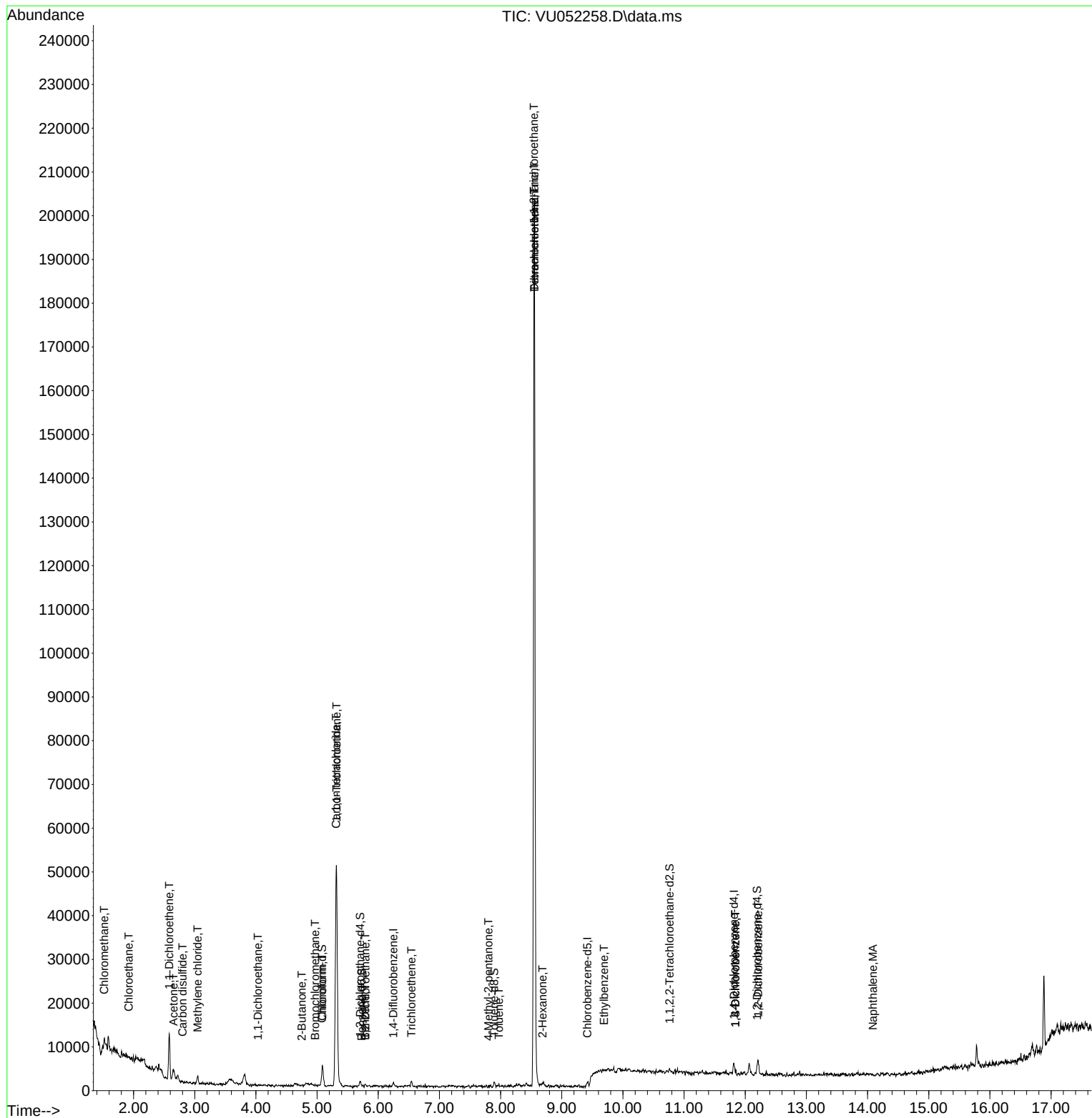
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.687	43	322	14.235	ug/L #	34
49) Dibromochloromethane	8.552	129	47556	956.582	ug/L #	12
52) Ethylbenzene	9.690	91	143	0.627	ug/L #	43
64) 1,3-Dichlorobenzene	11.841	146	432	1.373	ug/L #	56
65) 1,4-Dichlorobenzene	11.841	146	432	1.377	ug/L #	57
67) 1,2-Dichlorobenzene	12.214	146	1283	4.234	ug/L	98
71) Naphthalene	14.086	128	141	0.442	ug/L #	1

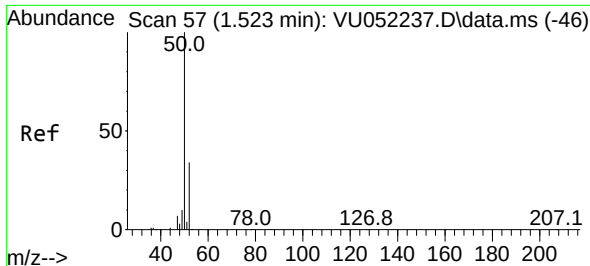
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120822\
Data File : VU052258.D
Acq On : 08 Dec 2022 18:58
Operator : JC/MD
Sample : N5930-05
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXZ88

Quant Time: Dec 08 22:33:36 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111822WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Dec 08 04:19:43 2022
Response via : Initial Calibration

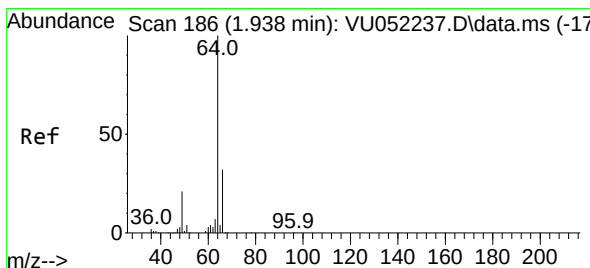
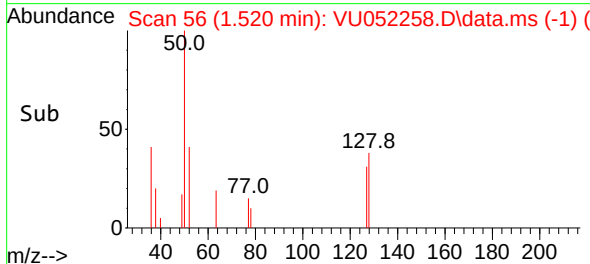
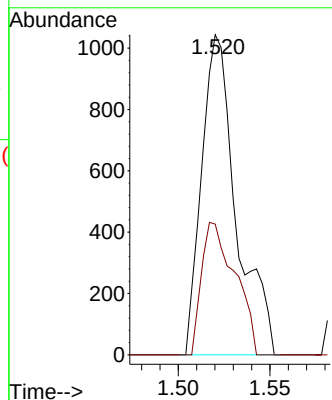
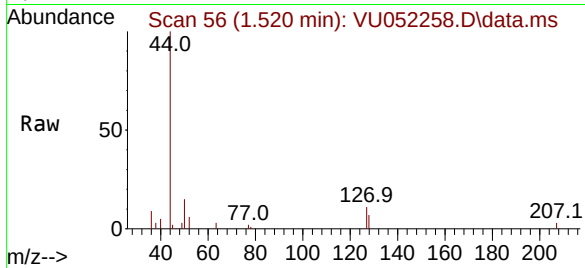




#3
Chloromethane
Concen: 15.926 ug/L
RT: 1.520 min Scan# 50
Delta R.T. 0.000 min
Lab File: VU052258.D
Acq: 08 Dec 2022 18:58

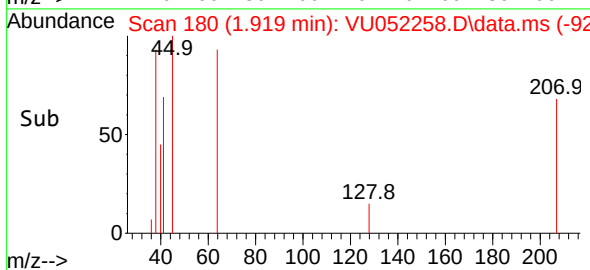
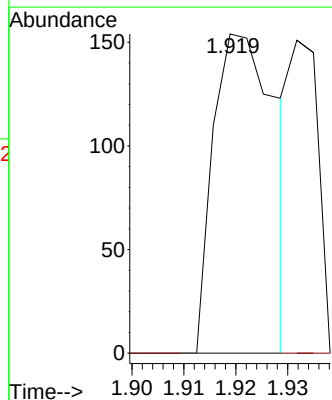
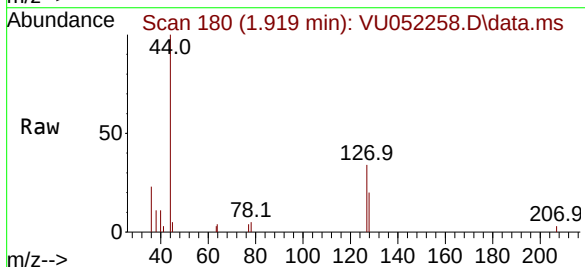
Instrument :
MSVOA_U
ClientSampleId :
EXZ88

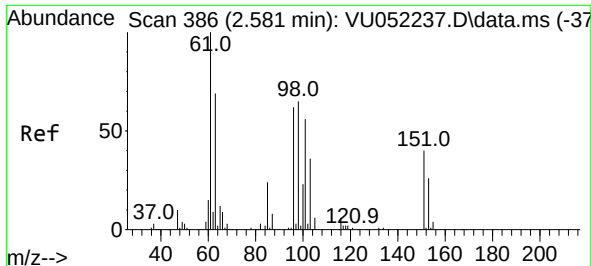
Tgt Ion: 50 Resp: 1370
Ion Ratio Lower Upper
50 100
52 40.8 23.4 43.4



#8
Chloroethane
Concen: 2.490 ug/L
RT: 1.919 min Scan# 180
Delta R.T. -0.016 min
Lab File: VU052258.D
Acq: 08 Dec 2022 18:58

Tgt Ion: 64 Resp: 128
Ion Ratio Lower Upper
64 100
66 0.0 21.1 39.1#





#12

1,1-Dichloroethene

Concen: 70.667 ug/L

RT: 2.584 min Scan# 386

Delta R.T. 0.003 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Instrument :

MSVOA_U

ClientSampleId :

EXZ88

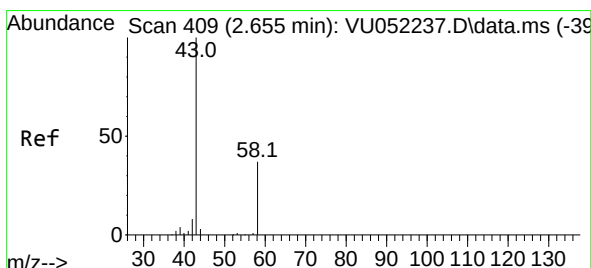
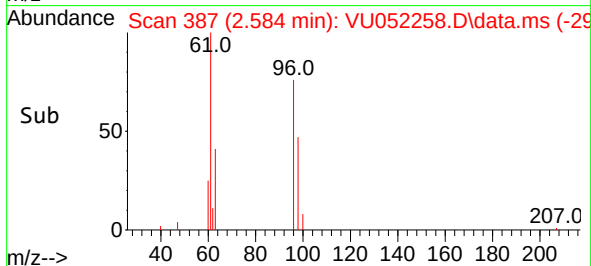
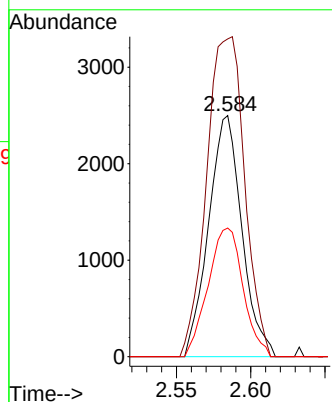
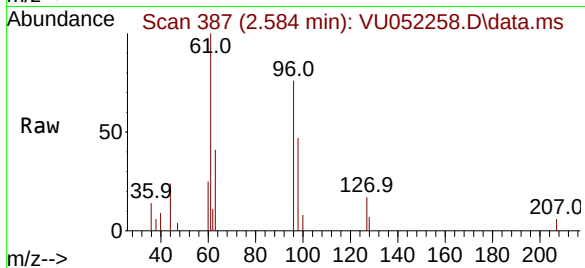
Tgt Ion: 96 Resp: 3896

Ion Ratio Lower Upper

96 100

61 131.8 114.8 213.2

63 53.4 93.7 174.1#



#13

Acetone

Concen: 429.812 ug/L

RT: 2.652 min Scan# 408

Delta R.T. 0.006 min

Lab File: VU052258.D

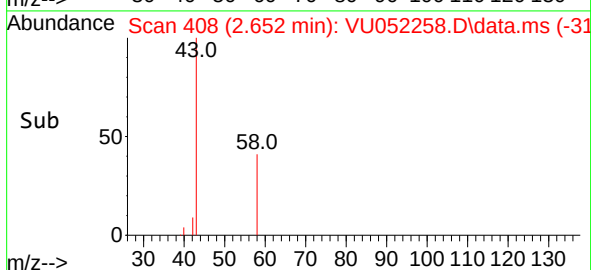
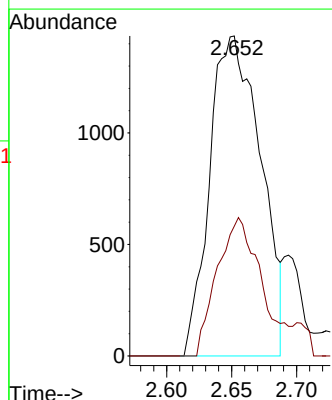
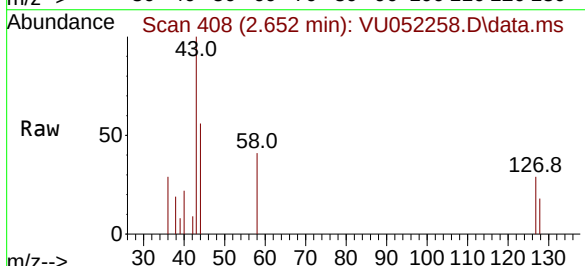
Acq: 08 Dec 2022 18:58

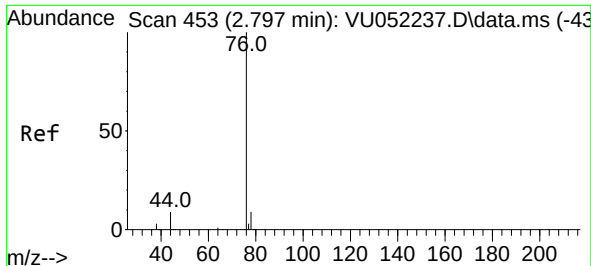
Tgt Ion: 43 Resp: 3911

Ion Ratio Lower Upper

43 100

58 37.5 0.0 76.0





#14

Carbon disulfide

Concen: 2.117 ug/L

RT: 2.800 min Scan# 41

Delta R.T. 0.006 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Instrument :

MSVOA_U

ClientSampleId :

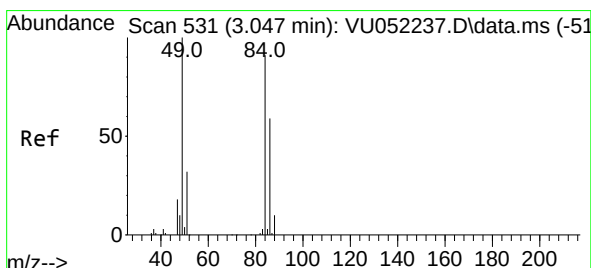
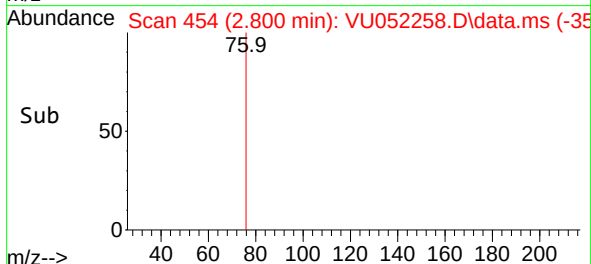
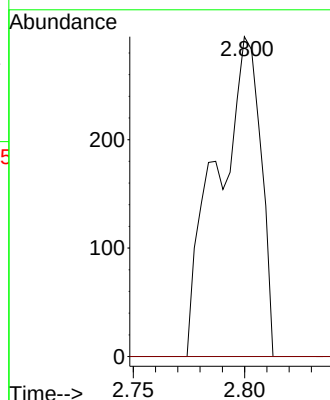
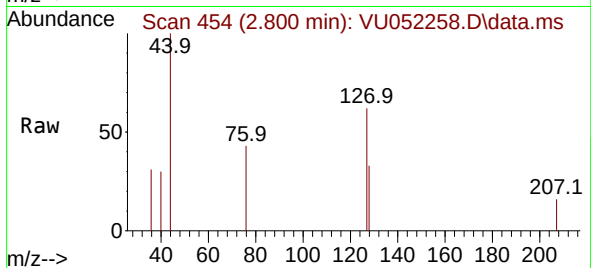
EXZ88

Tgt Ion: 76 Resp: 404

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#16

Methylene chloride

Concen: 11.624 ug/L

RT: 3.044 min Scan# 530

Delta R.T. -0.003 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

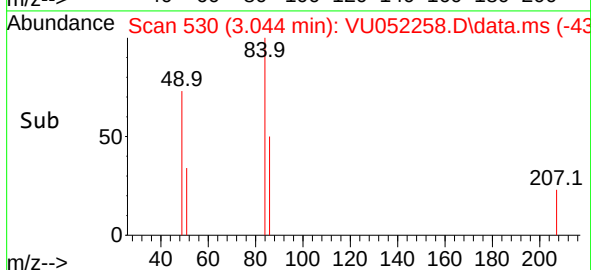
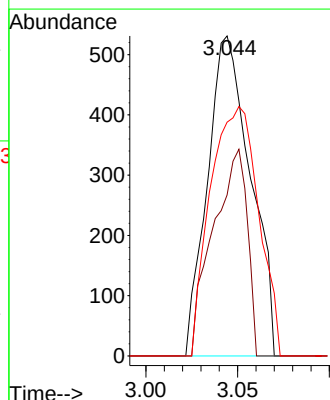
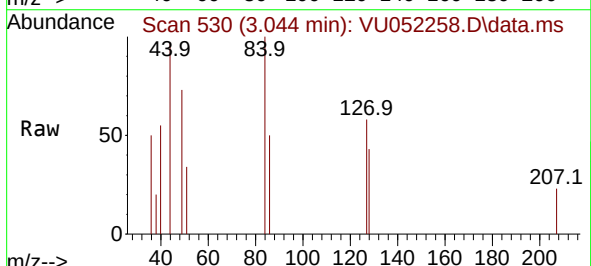
Tgt Ion: 84 Resp: 867

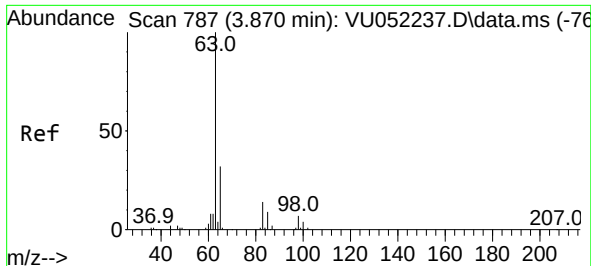
Ion Ratio Lower Upper

84 100

86 50.3 43.8 81.4

49 73.1 75.9 141.1#





#19

1,1-Dichloroethane

Concen: 0.385 ug/L

RT: 4.035 min Scan# 81

Delta R.T. 0.167 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Instrument :

MSVOA_U

ClientSampleId :

EXZ88

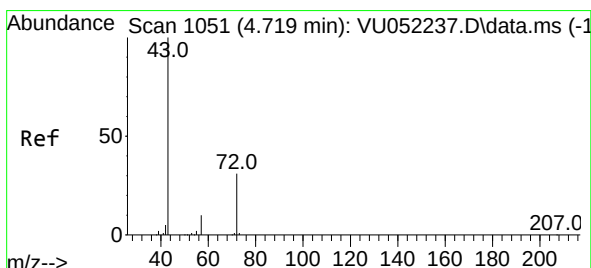
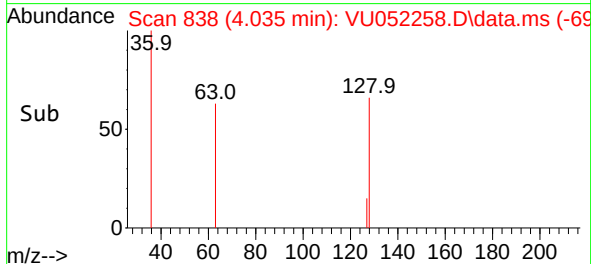
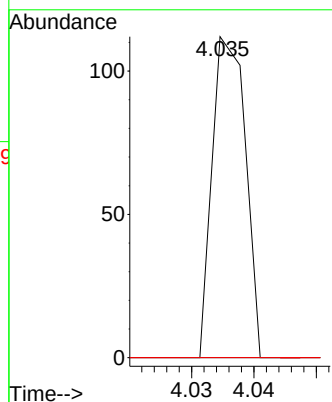
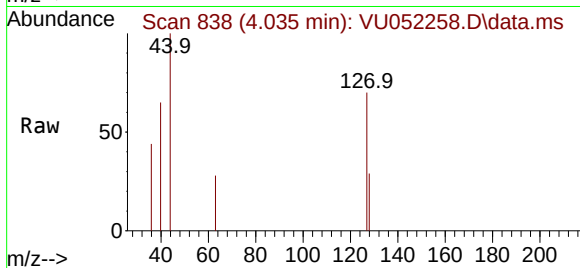
Tgt Ion: 63 Resp: 41

Ion Ratio Lower Upper

63 100

65 0.0 22.2 41.2#

83 0.0 9.2 17.0#



#21

2-Butanone

Concen: 4.731 ug/L

RT: 4.752 min Scan# 1061

Delta R.T. 0.039 min

Lab File: VU052258.D

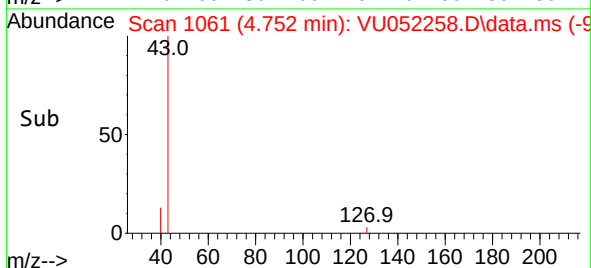
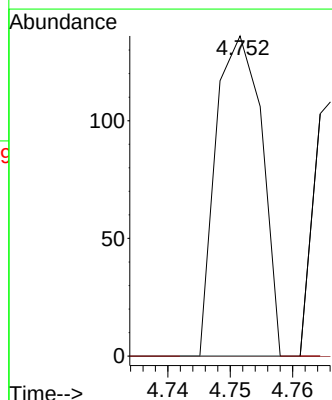
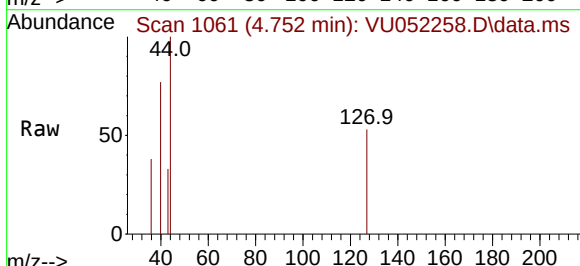
Acq: 08 Dec 2022 18:58

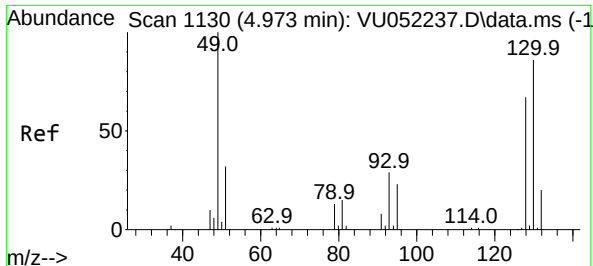
Tgt Ion: 43 Resp: 69

Ion Ratio Lower Upper

43 100

72 0.0 15.6 46.8#





#23

Bromochloromethane

Concen: 2.696 ug/L

RT: 4.970 min Scan# 1129

Delta R.T. -0.003 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Instrument :

MSVOA_U

ClientSampleId :

EXZ88

Tgt Ion:128 Resp: 80

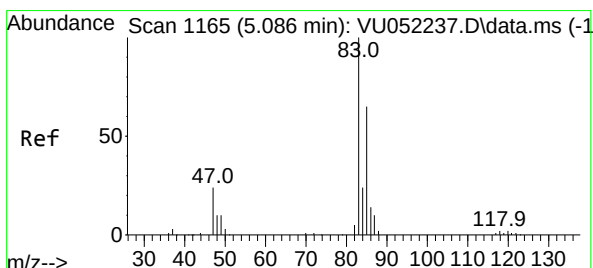
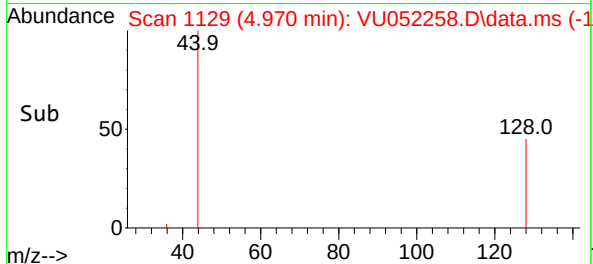
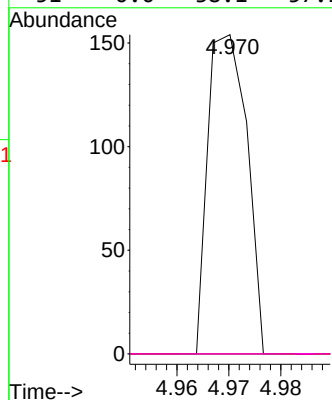
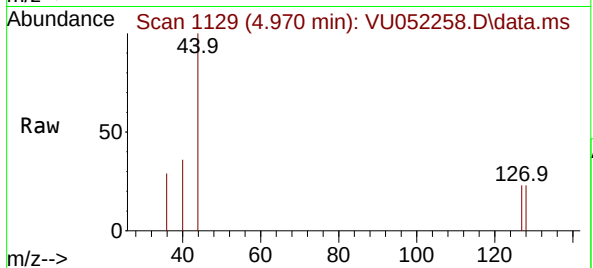
Ion Ratio Lower Upper

128 100

49 0.0 104.0 193.2#

130 0.0 84.6 157.2#

51 0.0 38.1 57.1#



#25

Chloroform

Concen: 30.797 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU052258.D

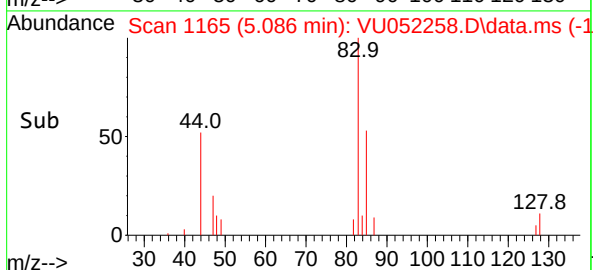
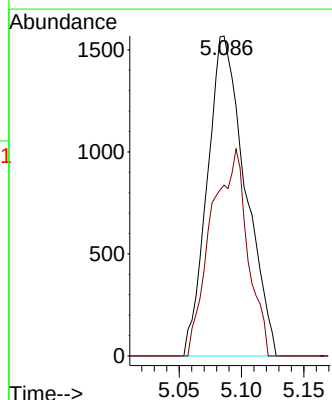
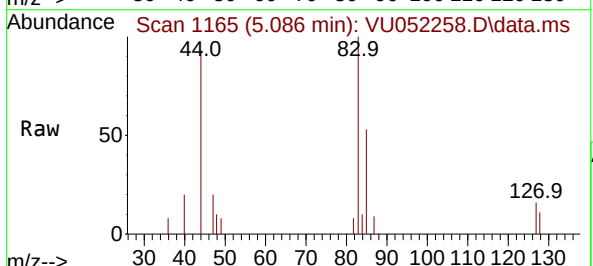
Acq: 08 Dec 2022 18:58

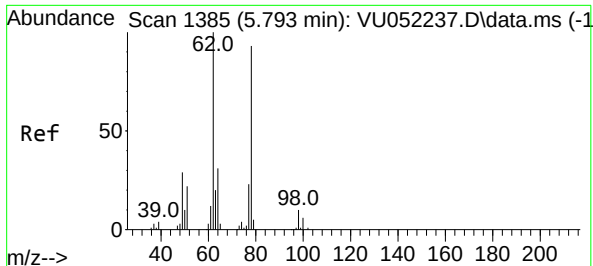
Tgt Ion: 83 Resp: 3324

Ion Ratio Lower Upper

83 100

85 53.4 43.8 81.4





#27

1,2-Dichloroethane

Concen: 5.174 ug/L

RT: 5.790 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Instrument :

MSVOA_U

ClientSampleId :

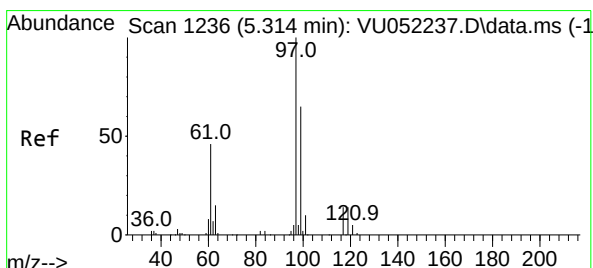
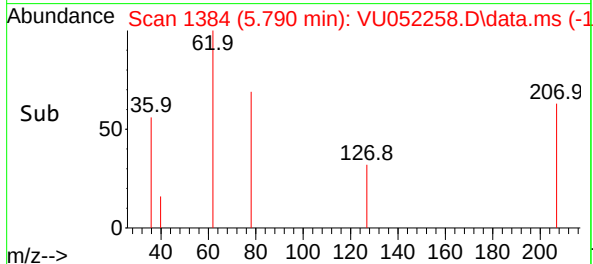
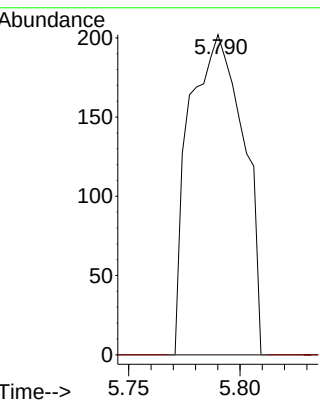
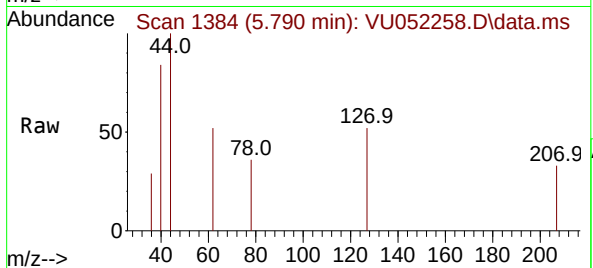
EXZ88

Tgt Ion: 62 Resp: 342

Ion Ratio Lower Upper

62 100

98 0.0 8.4 12.6#



#29

1,1,1-Trichloroethane

Concen: 468.612 ug/L

RT: 5.317 min Scan# 1237

Delta R.T. 0.003 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

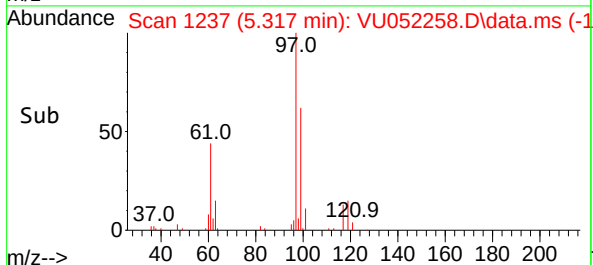
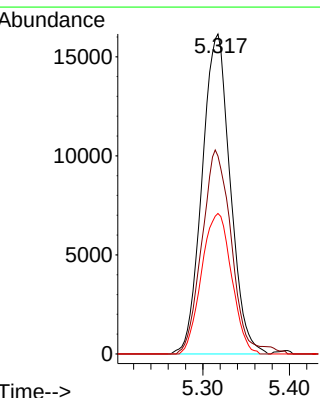
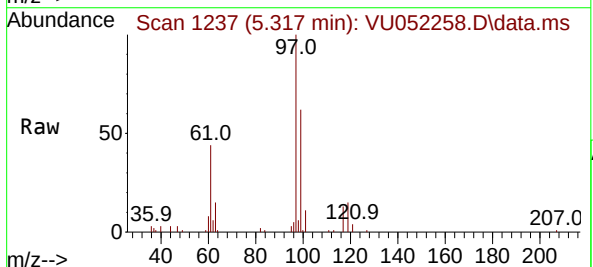
Tgt Ion: 97 Resp: 36446

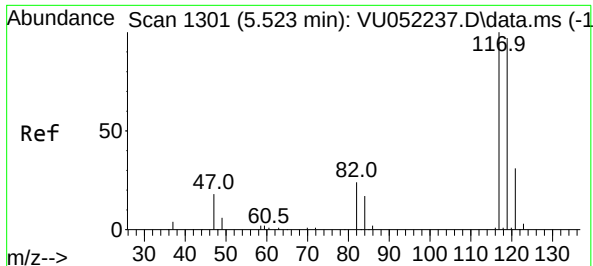
Ion Ratio Lower Upper

97 100

99 67.1 51.0 76.6

61 46.8 36.9 55.3

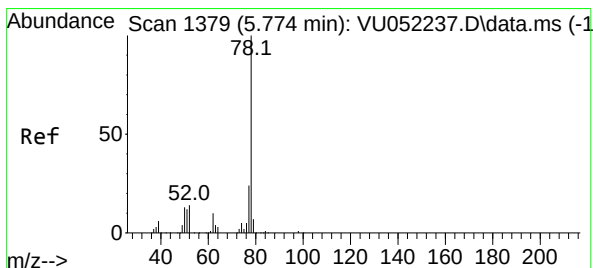
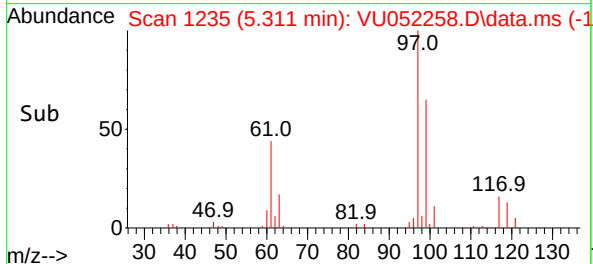
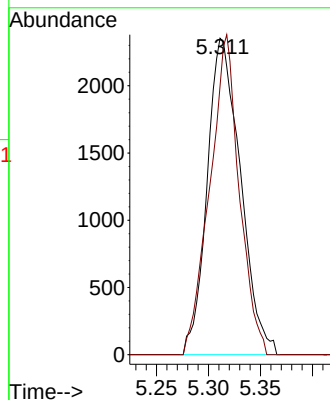
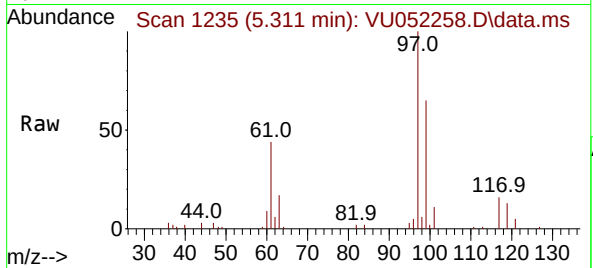




#31
Carbon tetrachloride
Concen: 79.308 ug/L
RT: 5.311 min Scan# 117
Delta R.T. -0.212 min
Lab File: VU052258.D
Acq: 08 Dec 2022 18:58

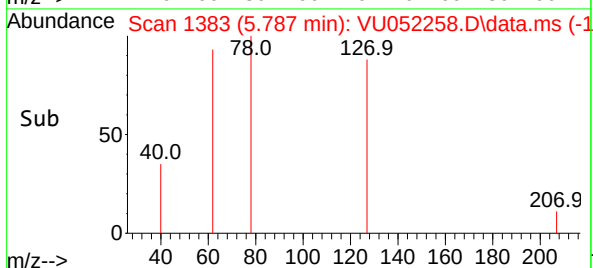
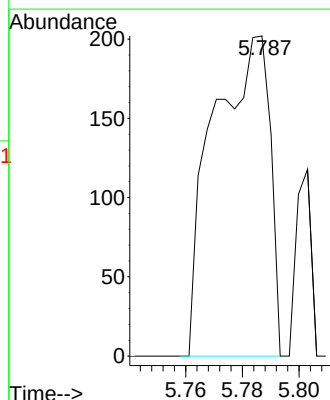
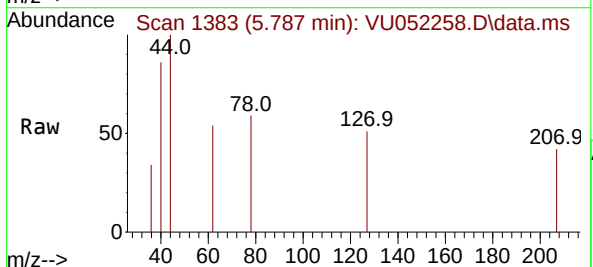
Instrument :
MSVOA_U
ClientSampleId :
EXZ88

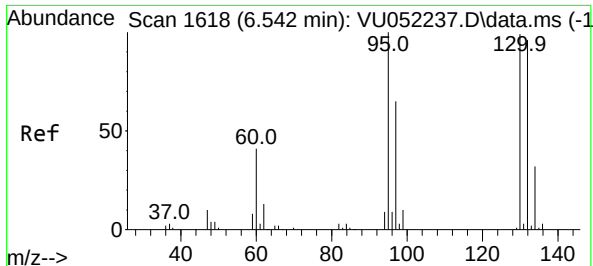
Tgt Ion:117 Resp: 5241
Ion Ratio Lower Upper
117 100
119 89.7 77.2 115.8



#33
Benzene
Concen: 1.219 ug/L
RT: 5.787 min Scan# 1383
Delta R.T. 0.013 min
Lab File: VU052258.D
Acq: 08 Dec 2022 18:58

Tgt Ion: 78 Resp: 278



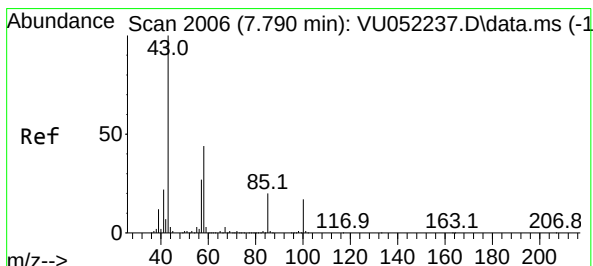
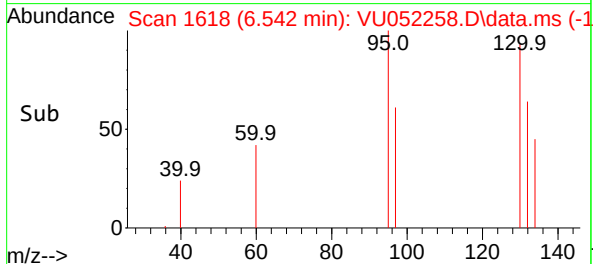
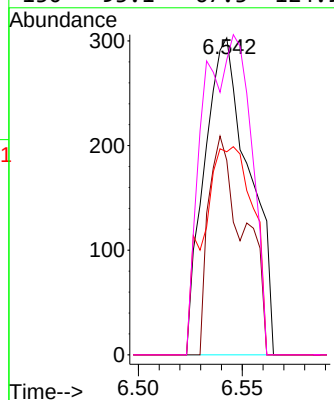
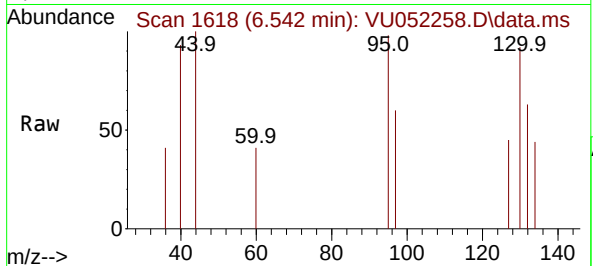


#34
Trichloroethene
Concen: 8.014 ug/L
RT: 6.542 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU052258.D
Acq: 08 Dec 2022 18:58

Instrument :
MSVOA_U
ClientSampleId :
EXZ88

Tgt Ion: 95 Resp: 456

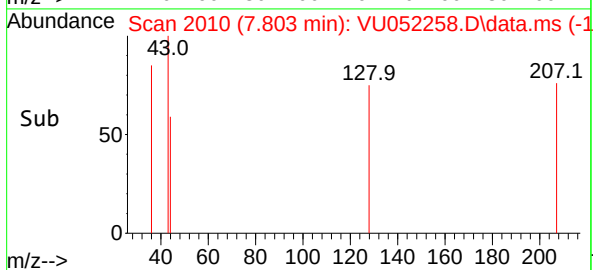
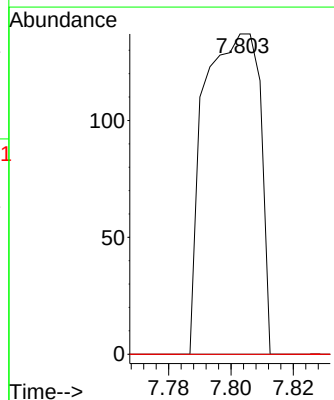
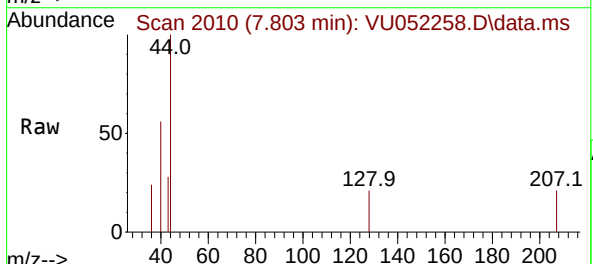
Ion	Ratio	Lower	Upper
95	100		
97	61.4	43.7	81.1
132	64.0	64.3	119.3#
130	93.1	67.3	124.9

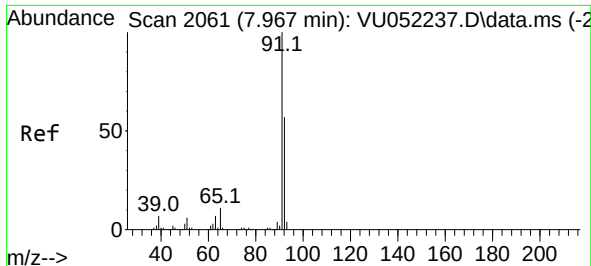


#40
4-Methyl-2-pentanone
Concen: 5.510 ug/L
RT: 7.803 min Scan# 2010
Delta R.T. 0.013 min
Lab File: VU052258.D
Acq: 08 Dec 2022 18:58

Tgt Ion: 43 Resp: 170

Ion	Ratio	Lower	Upper
43	100		
58	0.0	35.3	52.9#
100	330.0	13.6	20.4#





#42

Toluene

Concen: 0.673 ug/L

RT: 7.973 min Scan# 2061

Delta R.T. 0.006 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Instrument :

MSVOA_U

ClientSampleId :

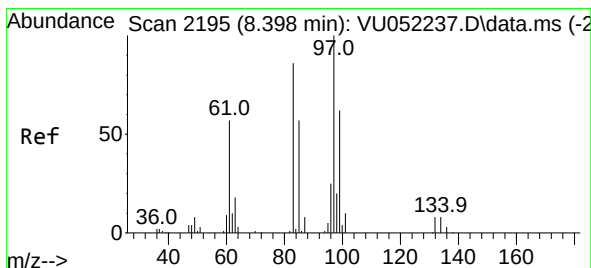
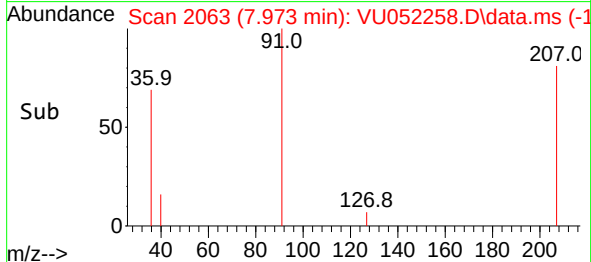
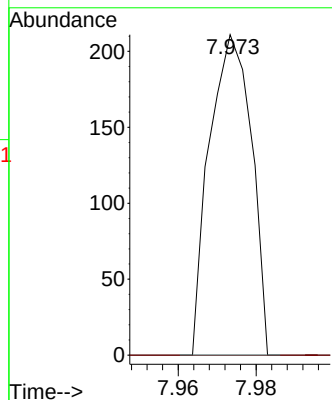
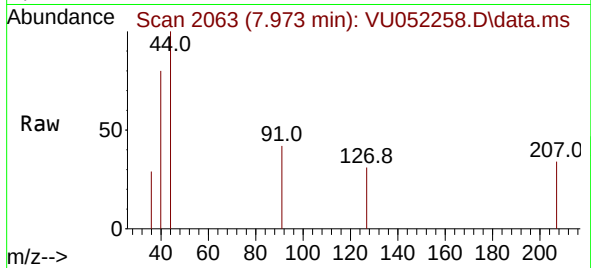
EXZ88

Tgt Ion: 91 Resp: 158

Ion Ratio Lower Upper

91 100

92 0.0 40.7 75.5#



#45

1,1,2-Trichloroethane

Concen: 6.263 ug/L

RT: 8.546 min Scan# 2241

Delta R.T. 0.148 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Tgt Ion: 97 Resp: 278

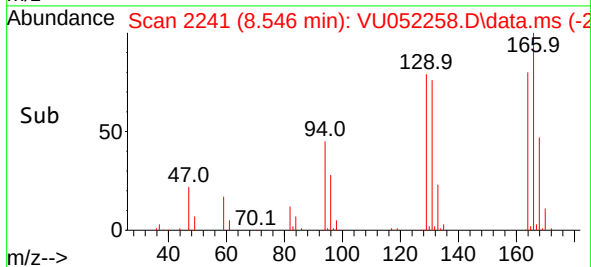
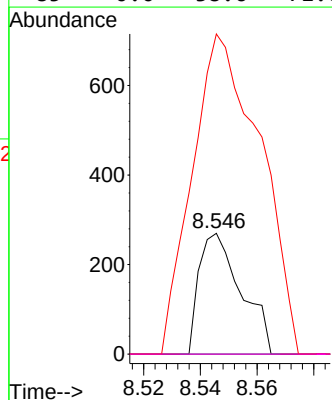
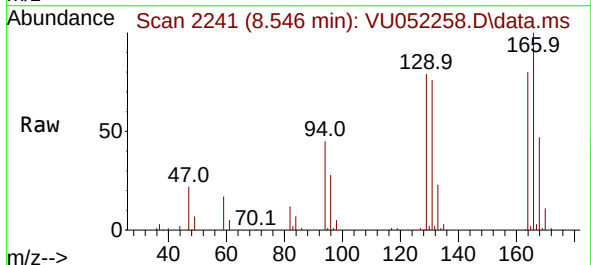
Ion Ratio Lower Upper

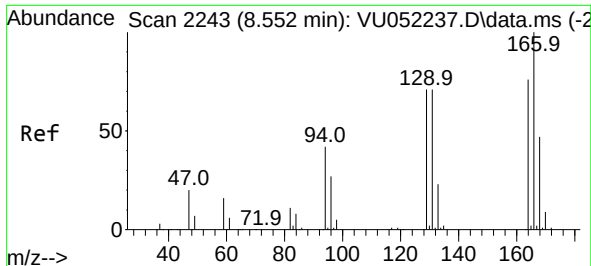
97 100

99 0.0 42.6 79.2#

83 264.8 60.7 112.7#

85 0.0 38.6 71.6#

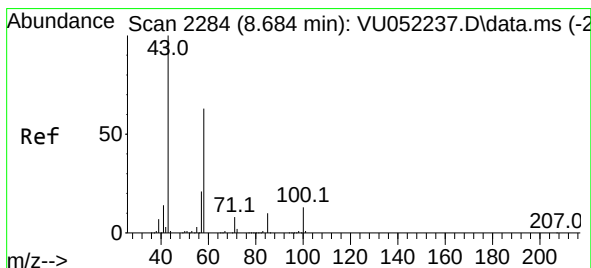
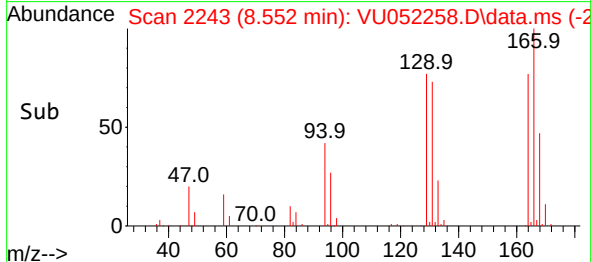
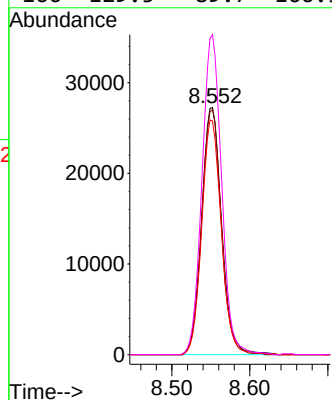
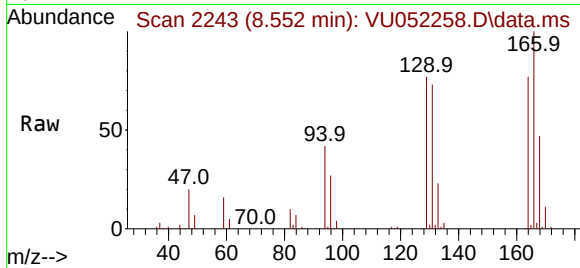




#47
Tetrachloroethene
Concen: 1114.956 ug/L
RT: 8.552 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU052258.D
Acq: 08 Dec 2022 18:58

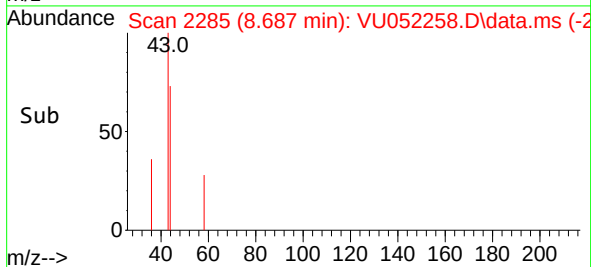
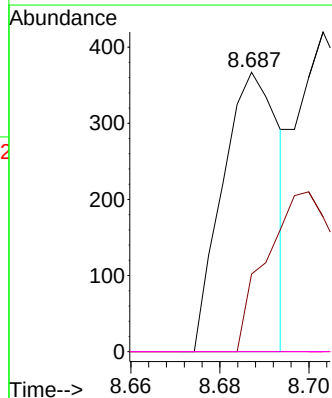
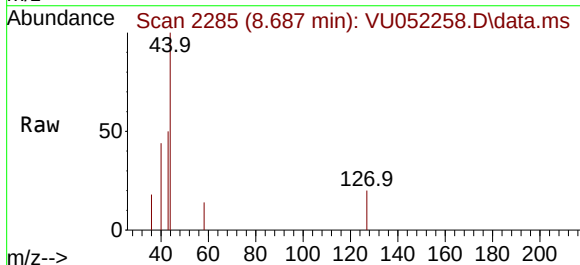
Instrument :
MSVOA_U
ClientSampleId :
EXZ88

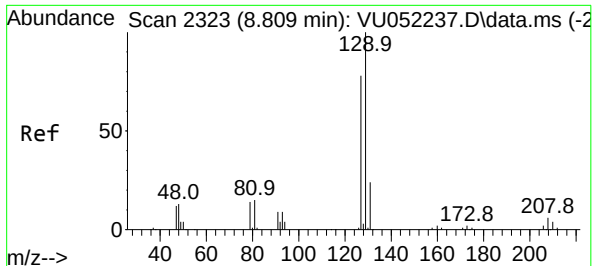
Tgt Ion:164 Resp: 48623
Ion Ratio Lower Upper
164 100
129 99.2 67.4 125.2
131 94.6 67.1 124.7
166 129.5 89.7 166.5



#48
2-Hexanone
Concen: 14.235 ug/L
RT: 8.687 min Scan# 2285
Delta R.T. 0.003 min
Lab File: VU052258.D
Acq: 08 Dec 2022 18:58

Tgt Ion: 43 Resp: 322
Ion Ratio Lower Upper
43 100
58 0.0 49.4 74.0#
57 0.0 16.3 24.5#
100 0.0 10.4 15.6#





#49

Dibromochloromethane

Concen: 956.582 ug/L

RT: 8.552 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Instrument :

MSVOA_U

ClientSampleId :

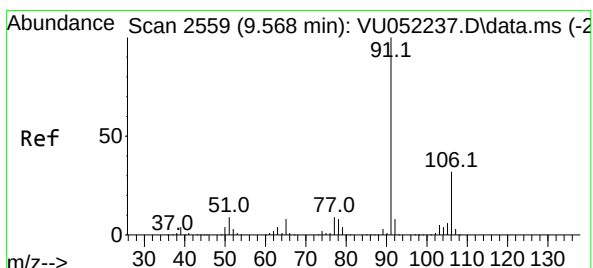
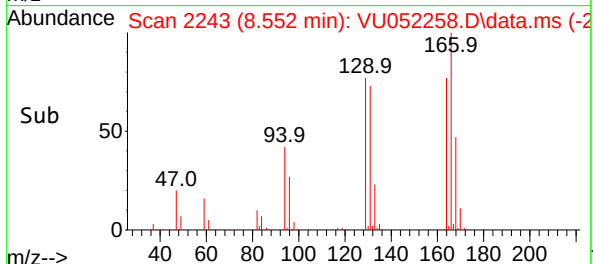
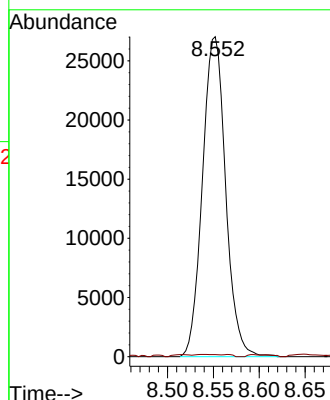
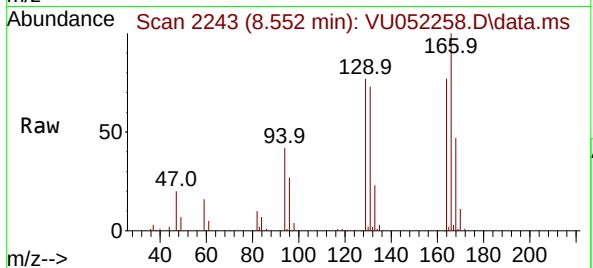
EXZ88

Tgt Ion:129 Resp: 47556

Ion Ratio Lower Upper

129 100

127 0.6 52.8 98.2#



#52

Ethylbenzene

Concen: 0.627 ug/L

RT: 9.690 min Scan# 2597

Delta R.T. 0.122 min

Lab File: VU052258.D

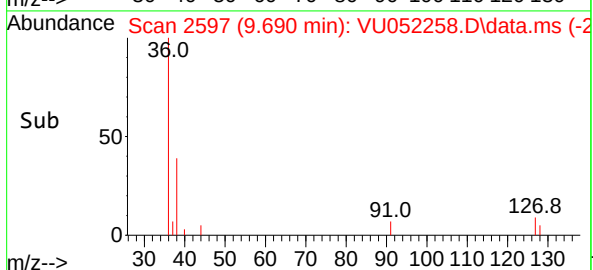
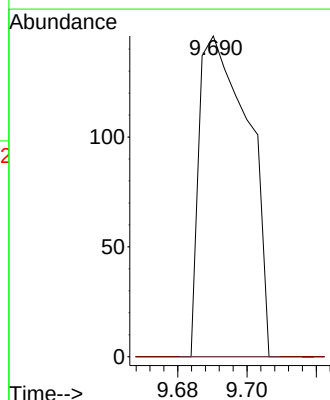
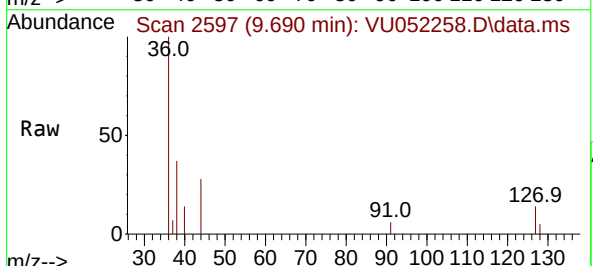
Acq: 08 Dec 2022 18:58

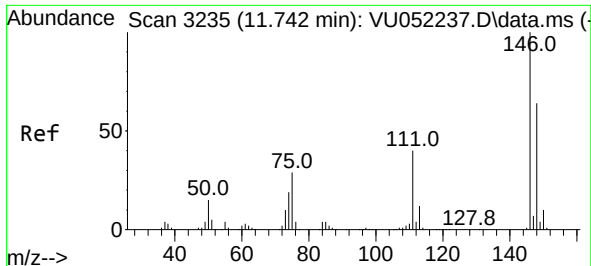
Tgt Ion: 91 Resp: 143

Ion Ratio Lower Upper

91 100

106 0.0 22.3 41.3#

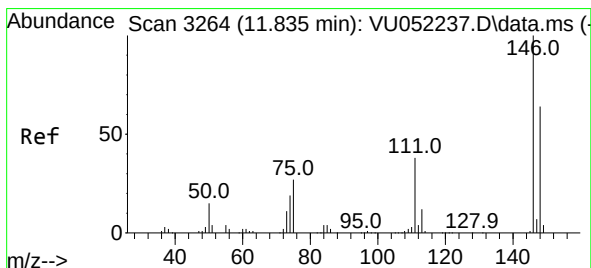
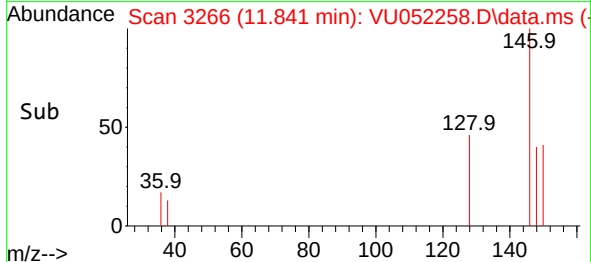
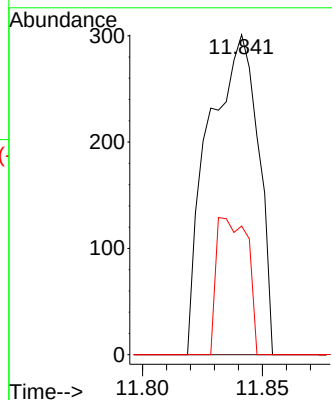
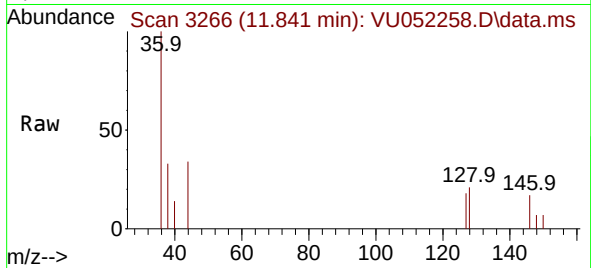




#64
 1,3-Dichlorobenzene
 Concen: 1.373 ug/L
 RT: 11.841 min Scan# 31
 Delta R.T. 0.100 min
 Lab File: VU052258.D
 Acq: 08 Dec 2022 18:58

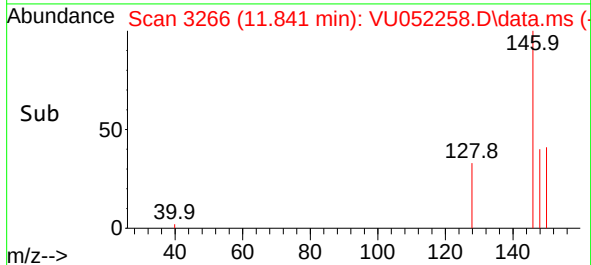
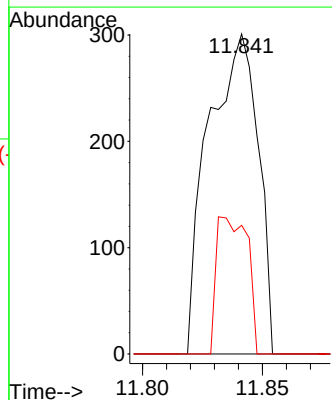
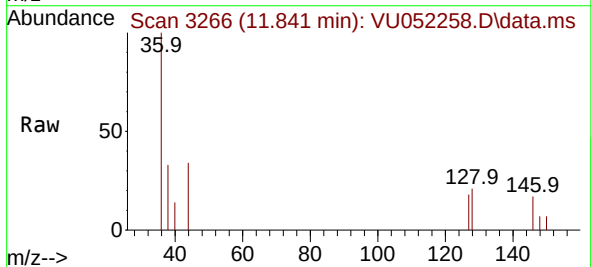
Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ88

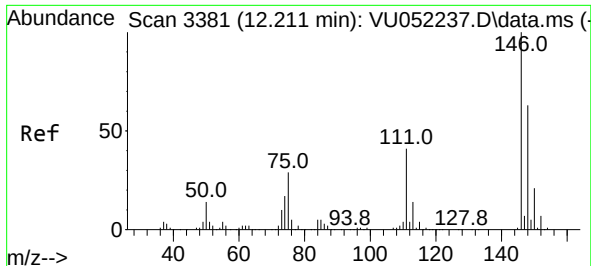
Tgt Ion:146 Resp: 432
 Ion Ratio Lower Upper
 146 100
 111 0.0 28.6 53.2#
 148 40.2 45.4 84.2#



#65
 1,4-Dichlorobenzene
 Concen: 1.377 ug/L
 RT: 11.841 min Scan# 3266
 Delta R.T. 0.010 min
 Lab File: VU052258.D
 Acq: 08 Dec 2022 18:58

Tgt Ion:146 Resp: 432
 Ion Ratio Lower Upper
 146 100
 111 0.0 26.9 50.1#
 148 40.2 45.1 83.7#





#67

1,2-Dichlorobenzene

Concen: 4.234 ug/L

RT: 12.214 min Scan# 3381

Delta R.T. 0.006 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Instrument :

MSVOA_U

ClientSampleId :

EXZ88

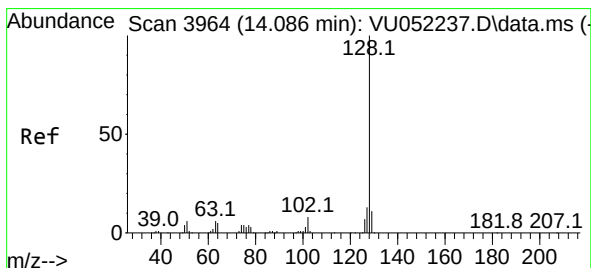
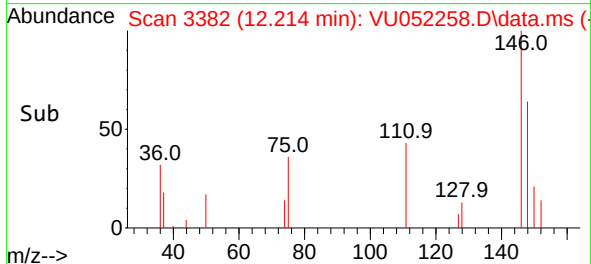
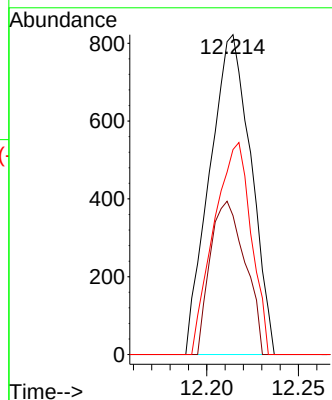
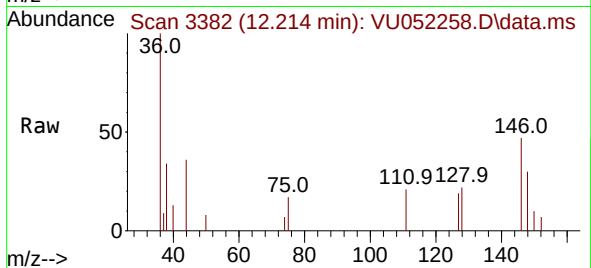
Tgt Ion:146 Resp: 1283

Ion Ratio Lower Upper

146 100

111 43.4 32.7 49.1

148 64.1 50.6 75.8



#71

Naphthalene

Concen: 0.442 ug/L

RT: 14.086 min Scan# 3964

Delta R.T. 0.003 min

Lab File: VU052258.D

Acq: 08 Dec 2022 18:58

Tgt Ion:128 Resp: 141

Ion Ratio Lower Upper

128 100

129 0.0 8.3 12.5#

127 89.4 10.2 15.4#

