

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122222\
 Data File : VU052518.D
 Acq On : 23 Dec 2022 02:00
 Operator : JC/MD
 Sample : N6169-12
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQA3

Quant Time: Dec 23 06:44:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122022WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Dec 23 06:08:56 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	221674	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	199464	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	103956	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	76563	3.409	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.200%
7) Chloroethane-d5	1.916	69	73197	3.779	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.600%
11) 1,1-Dichloroethene-d2	2.568	65	34381	3.558	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.200%
20) 2-Butanone-d5	4.636	46	376883	54.117	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.240%
24) Chloroform-d	5.060	84	148561	3.921	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.400%
26) 1,2-Dichloroethane-d4	5.700	65	91711	4.173	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.400%
32) Benzene-d6	5.726	84	319564	4.673	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.400%
36) 1,2-Dichloropropane-d6	6.687	67	112008	4.758	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.200%
41) Toluene-d8	7.893	98	286879	4.997	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.000%
43) trans-1,3-Dichloroprop...	8.176	79	40381	5.009	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.200%
46) 2-Hexanone-d5	8.629	63	286508	64.965	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	129.920%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	100958	5.051	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.000%
66) 1,2-Dichlorobenzene-d4	12.188	152	104014	4.915	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.200%
Target Compounds						
					Qvalue	
14) Carbon disulfide	2.797	76	6468	0.121	ug/L #	91
15) Methyl Acetate	2.964	43	8346	0.738	ug/L #	55
16) Methylene chloride	3.044	84	10795	0.460	ug/L	92
18) trans-1,2-Dichloroethene	3.353	96	31978	1.869	ug/L	97
22) cis-1,2-Dichloroethene	4.665	96	50498	2.689	ug/L	96
30) Cyclohexane	5.382	56	217435	8.015	ug/L	88
34) Trichloroethene	6.546	95	7691	0.458	ug/L	87
35) Methylcyclohexane	6.761	83	529216	20.895	ug/L	96
37) 1,2-Dichloropropane	6.758	63	5214	0.260	ug/L #	1
40) 4-Methyl-2-pentanone	7.851	43	28405	1.939	ug/L #	46
42) Toluene	7.967	91	15202	0.221	ug/L	92
45) 1,1,2-Trichloroethane	8.365	97	75426	5.312	ug/L #	19
47) Tetrachloroethene	8.552	164	2811	0.240	ug/L	93
48) 2-Hexanone	8.684	43	7271	0.658	ug/L #	68
52) Ethylbenzene	9.565	91	230287	3.230	ug/L	99
53) m,p-Xylene	9.690	106	52074	1.981	ug/L	100
54) o-Xylene	10.095	106	8272	0.328	ug/L	96
60) Isopropylbenzene	10.481	105	60964	0.905	ug/L	98
62) 1,3,5-Trimethylbenzene	11.082	105	34197	0.615	ug/L	99

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 Response via : Initial Calibration

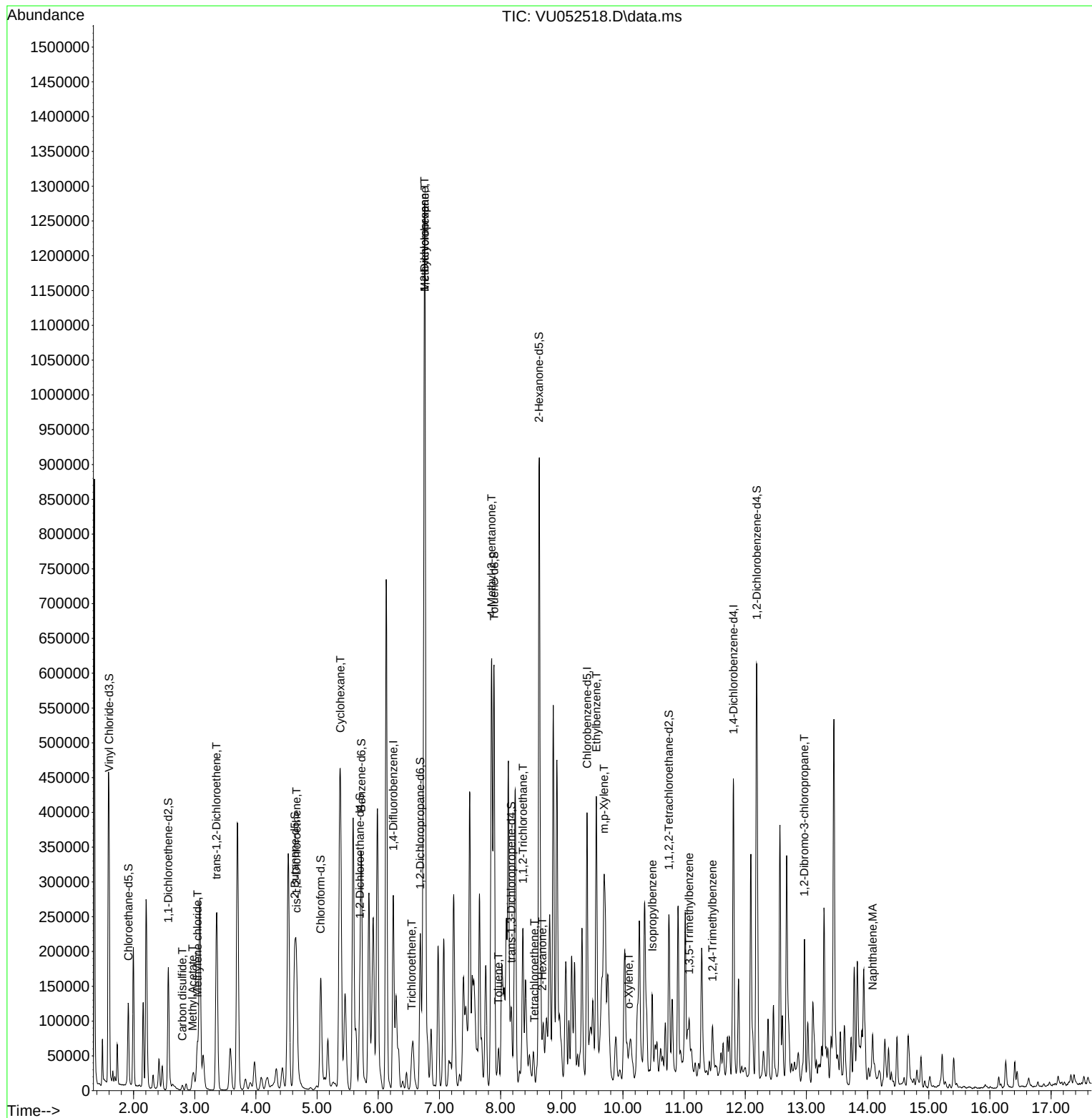
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	11.465	105	30407	0.544	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.967	75	1018	0.302	ug/L #	7
71) Naphthalene	14.082	128	58336	1.392	ug/L	97

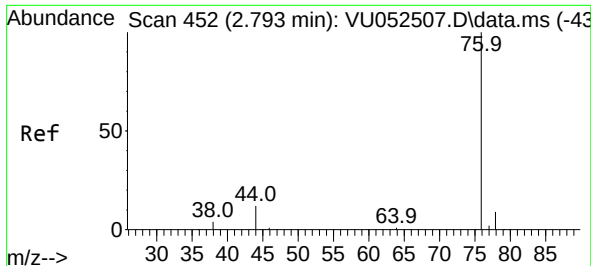
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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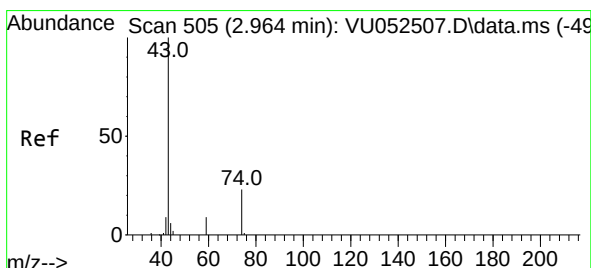
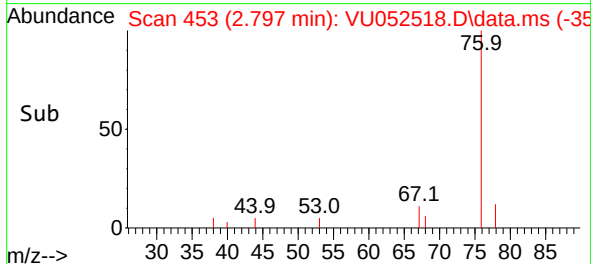
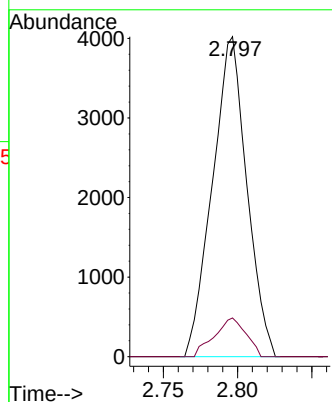
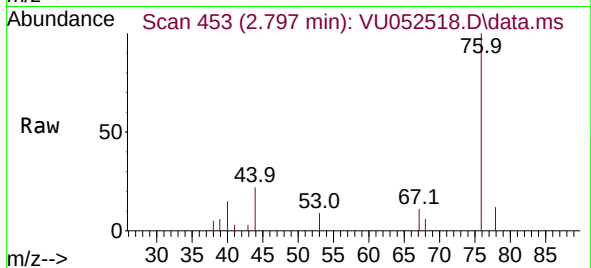




#14
Carbon disulfide
Concen: 0.121 ug/L
RT: 2.797 min Scan# 411
Delta R.T. 0.003 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

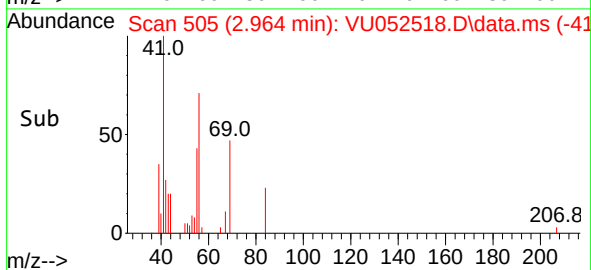
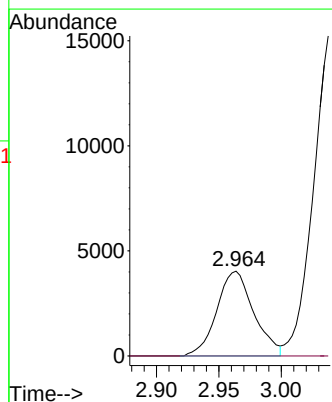
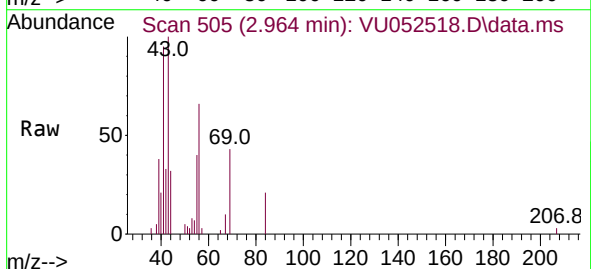
Instrument :
MSVOA_U
ClientSampleId :
GBQA3

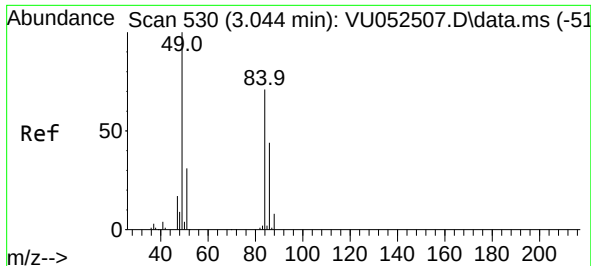
Tgt Ion: 76 Resp: 6468
Ion Ratio Lower Upper
76 100
78 12.1 7.1 10.7#



#15
Methyl Acetate
Concen: 0.738 ug/L
RT: 2.964 min Scan# 505
Delta R.T. 0.000 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

Tgt Ion: 43 Resp: 8346
Ion Ratio Lower Upper
43 100
74 0.0 16.9 25.3#

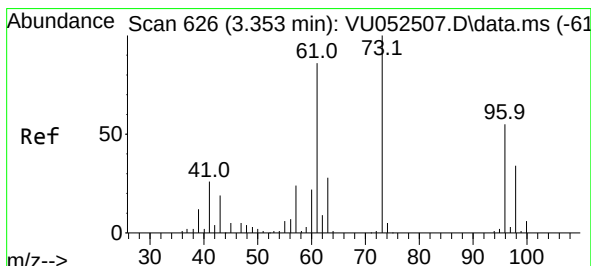
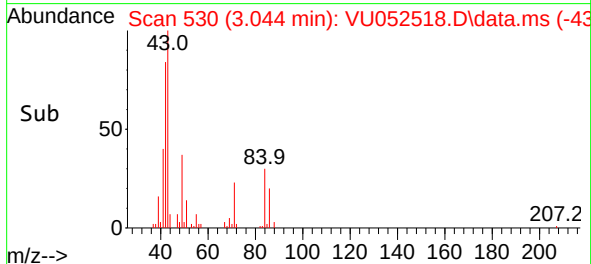
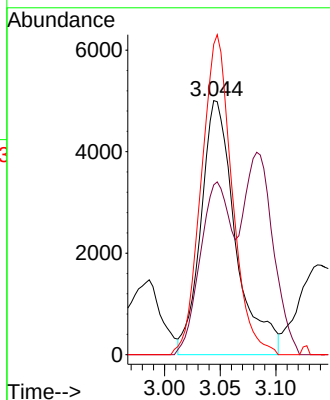
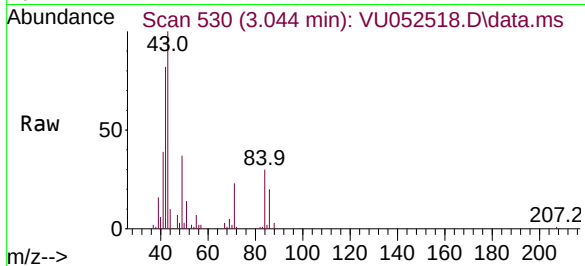




#16
Methylene chloride
Concen: 0.460 ug/L
RT: 3.044 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

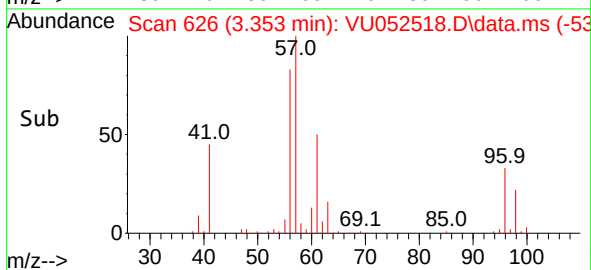
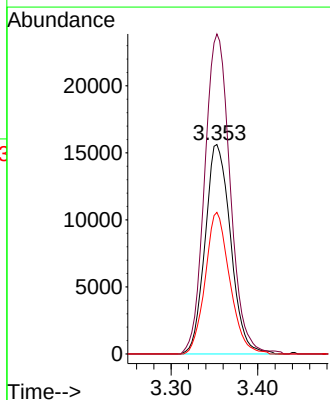
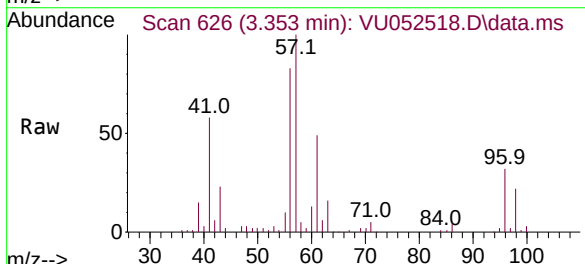
Instrument :
MSVOA_U
ClientSampleId :
GBQA3

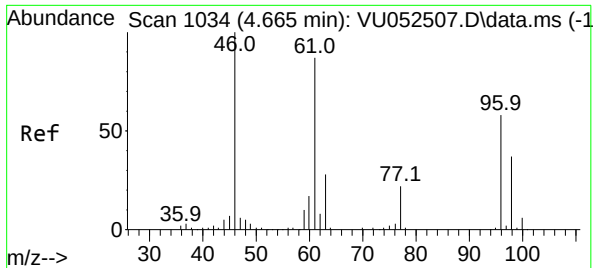
Tgt Ion: 84 Resp: 10795
Ion Ratio Lower Upper
84 100
86 66.8 44.7 83.1
49 122.2 93.3 173.3



#18
trans-1,2-Dichloroethene
Concen: 1.869 ug/L
RT: 3.353 min Scan# 626
Delta R.T. 0.000 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

Tgt Ion: 96 Resp: 31978
Ion Ratio Lower Upper
96 100
61 152.7 108.3 201.1
98 67.6 44.0 81.6

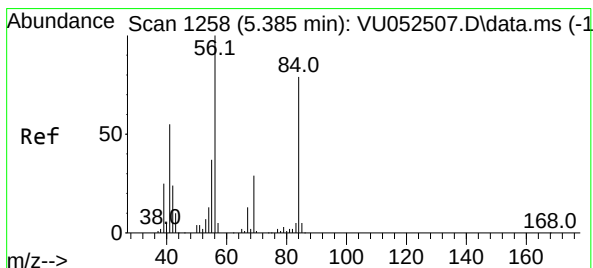
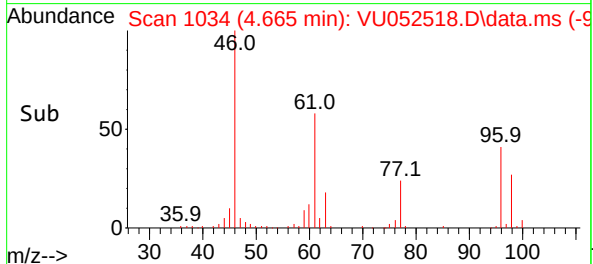
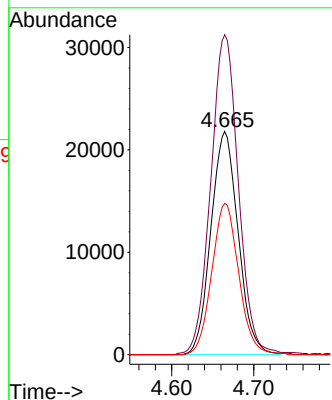
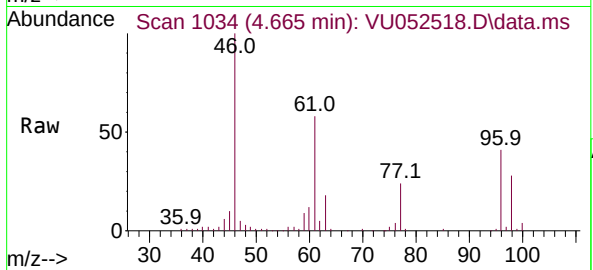




#22
 cis-1,2-Dichloroethene
 Concen: 2.689 ug/L
 RT: 4.665 min Scan# 1034
 Delta R.T. 0.000 min
 Lab File: VU052518.D
 Acq: 23 Dec 2022 02:00

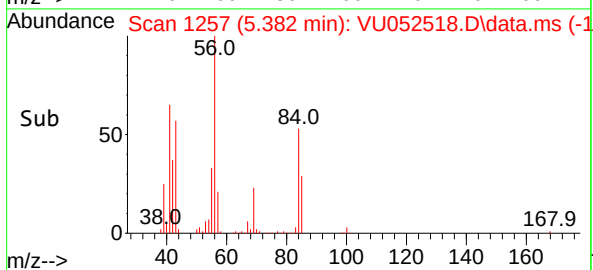
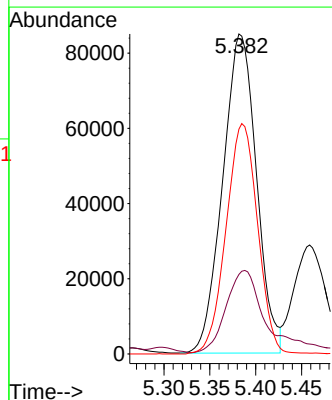
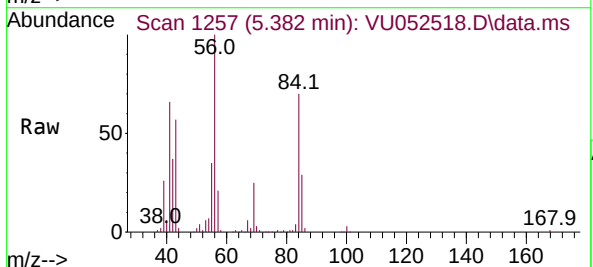
Instrument :
 MSVOA_U
 ClientSampleId :
 GBQA3

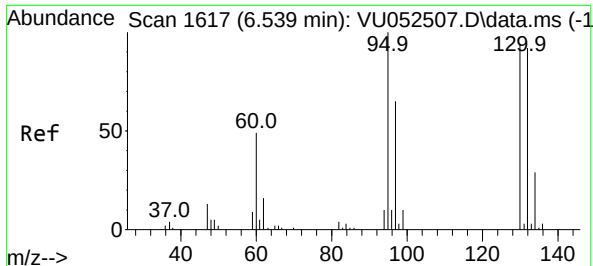
Tgt Ion: 96 Resp: 50498
 Ion Ratio Lower Upper
 96 100
 61 143.3 96.9 180.1
 98 67.8 44.7 83.1



#30
 Cyclohexane
 Concen: 8.015 ug/L
 RT: 5.382 min Scan# 1257
 Delta R.T. -0.003 min
 Lab File: VU052518.D
 Acq: 23 Dec 2022 02:00

Tgt Ion: 56 Resp: 217435
 Ion Ratio Lower Upper
 56 100
 69 32.5 23.0 34.6
 84 67.7 64.4 96.6



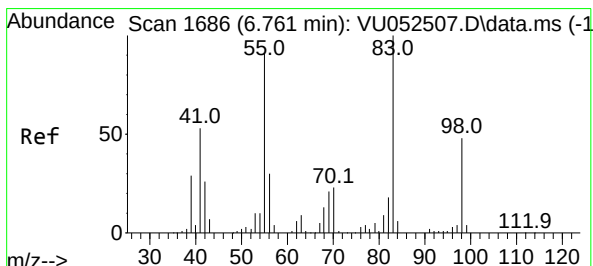
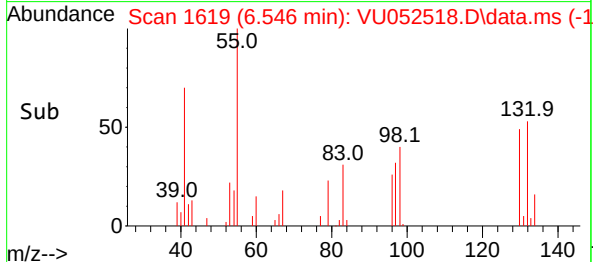
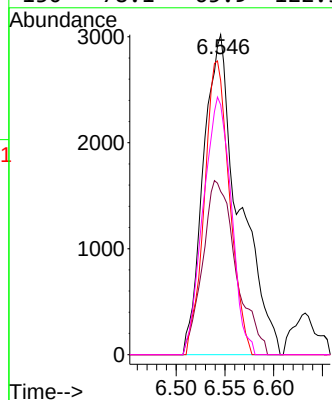
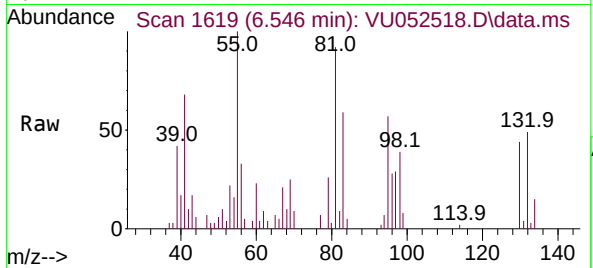


#34
Trichloroethene
Concen: 0.458 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.006 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

Instrument :
MSVOA_U
ClientSampleId :
GBQA3

Tgt Ion: 95 Resp: 7691

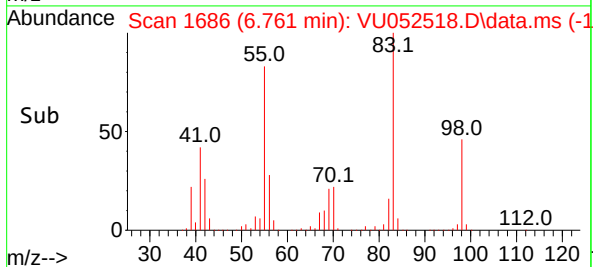
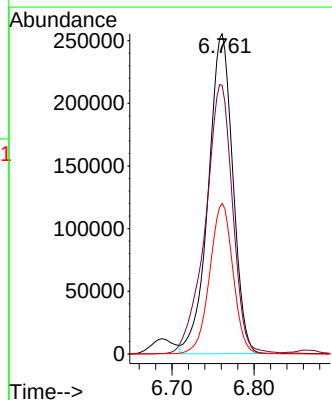
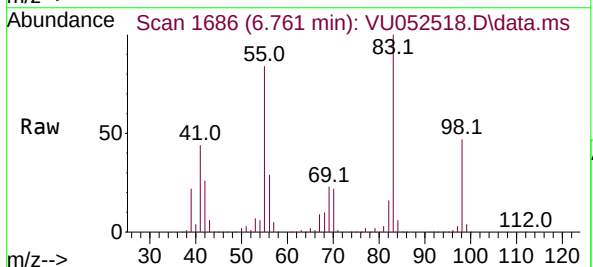
Ion	Ratio	Lower	Upper
95	100		
97	51.0	46.3	86.1
132	85.6	63.9	118.7
130	78.1	65.9	122.5

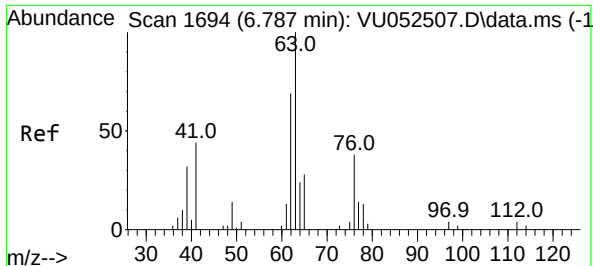


#35
Methylcyclohexane
Concen: 20.895 ug/L
RT: 6.761 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

Tgt Ion: 83 Resp: 529216

Ion	Ratio	Lower	Upper
83	100		
55	93.7	71.4	107.0
98	44.7	36.5	54.7





#37

1,2-Dichloropropane

Concen: 0.260 ug/L

RT: 6.758 min Scan# 1

Delta R.T. -0.029 min

Lab File: VU052518.D

Acq: 23 Dec 2022 02:00

Instrument :

MSVOA_U

ClientSampleId :

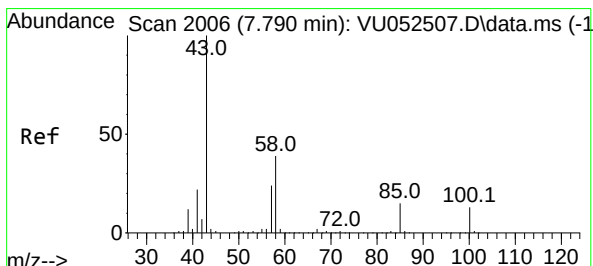
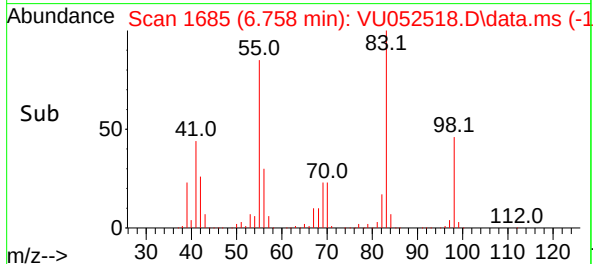
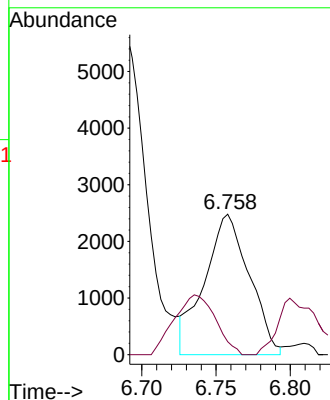
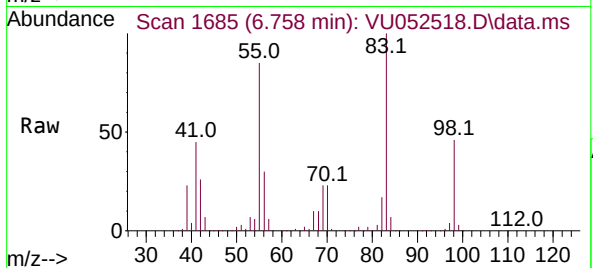
GBQA3

Tgt Ion: 63 Resp: 5214

Ion Ratio Lower Upper

63 100

112 39.1 3.0 4.6#



#40

4-Methyl-2-pentanone

Concen: 1.939 ug/L

RT: 7.851 min Scan# 2025

Delta R.T. 0.061 min

Lab File: VU052518.D

Acq: 23 Dec 2022 02:00

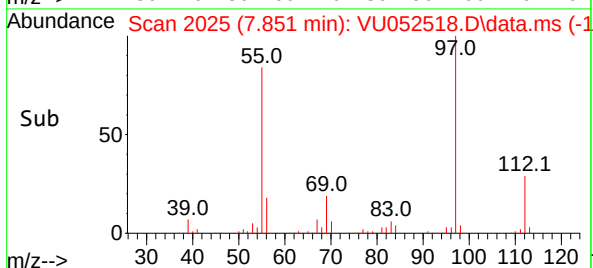
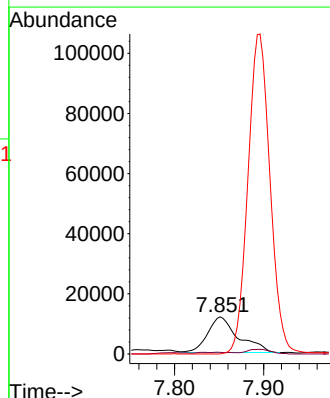
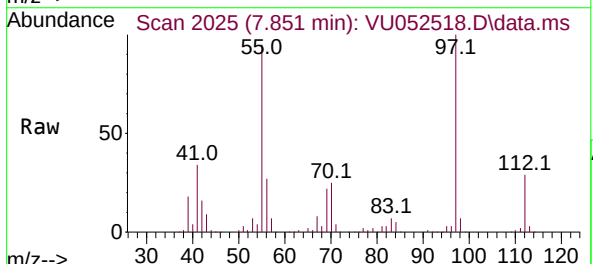
Tgt Ion: 43 Resp: 28405

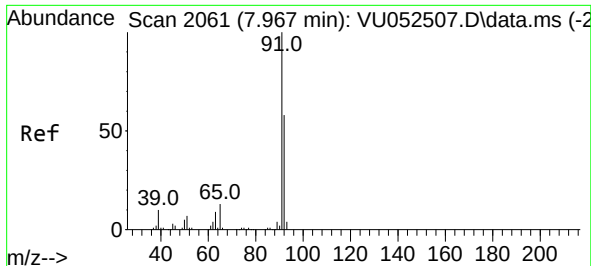
Ion Ratio Lower Upper

43 100

58 0.9 30.6 45.8#

100 0.0 10.4 15.6#





#42

Toluene

Concen: 0.221 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU052518.D

Acq: 23 Dec 2022 02:00

Instrument :

MSVOA_U

ClientSampleId :

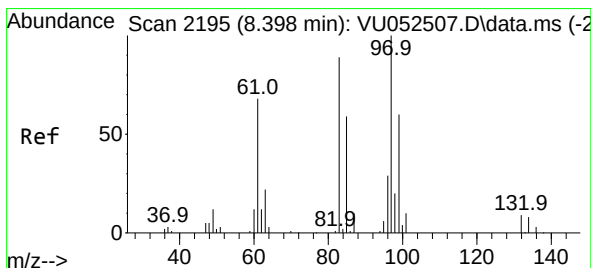
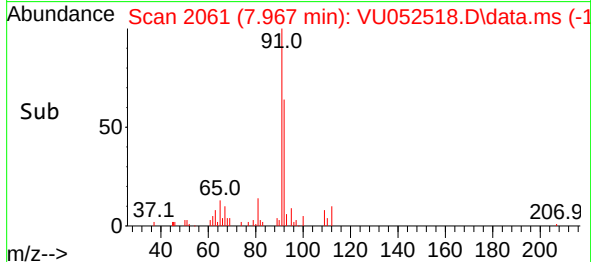
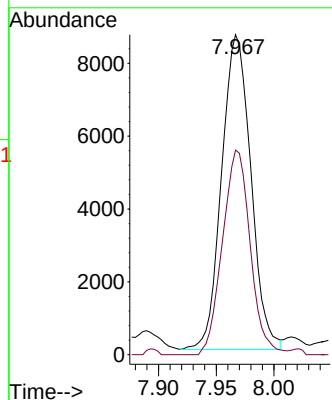
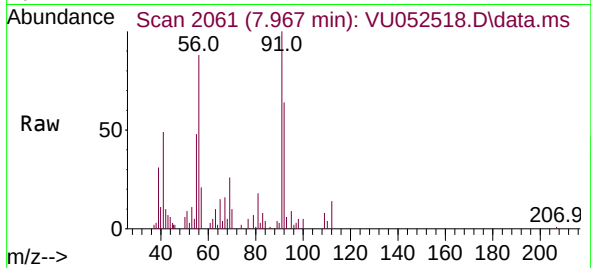
GBQA3

Tgt Ion: 91 Resp: 15202

Ion Ratio Lower Upper

91 100

92 63.9 40.6 75.4



#45

1,1,2-Trichloroethane

Concen: 5.312 ug/L

RT: 8.365 min Scan# 2185

Delta R.T. -0.032 min

Lab File: VU052518.D

Acq: 23 Dec 2022 02:00

Tgt Ion: 97 Resp: 75426

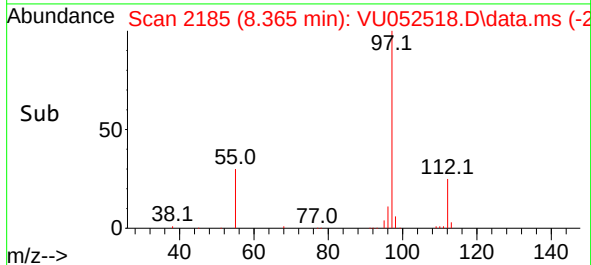
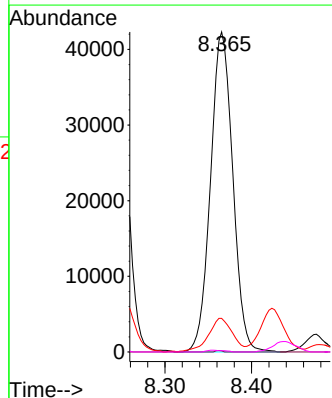
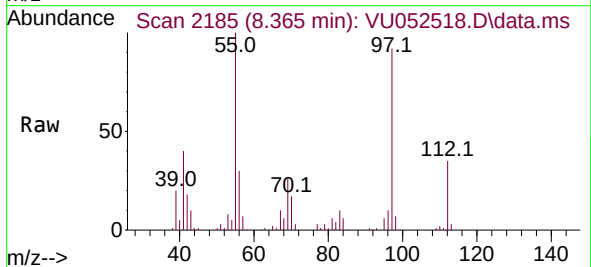
Ion Ratio Lower Upper

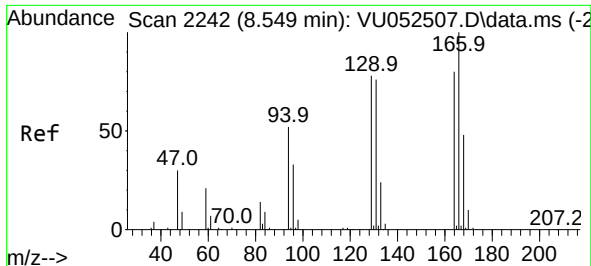
97 100

99 0.4 42.0 78.0#

83 10.5 63.2 117.4#

85 0.4 40.2 74.6#





#47

Tetrachloroethene

Concen: 0.240 ug/L

RT: 8.552 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU052518.D

Acq: 23 Dec 2022 02:00

Instrument :

MSVOA_U

ClientSampleId :

GBQA3

Tgt Ion:164 Resp: 2811

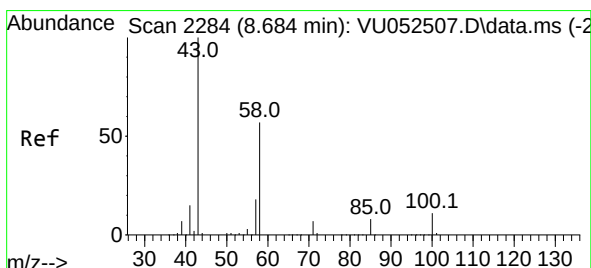
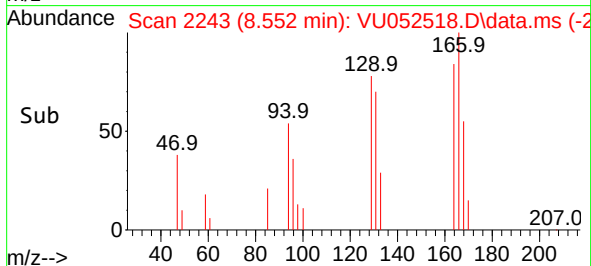
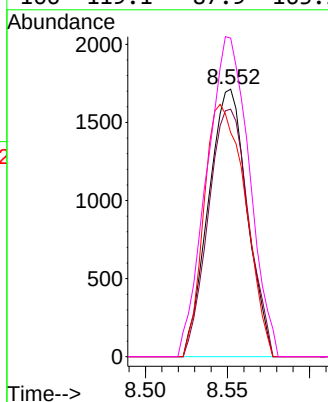
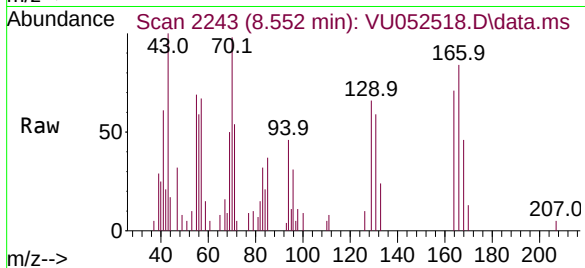
Ion Ratio Lower Upper

164 100

129 92.5 68.1 126.5

131 83.7 66.5 123.5

166 119.1 87.9 163.3



#48

2-Hexanone

Concen: 0.658 ug/L

RT: 8.684 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VU052518.D

Acq: 23 Dec 2022 02:00

Tgt Ion: 43 Resp: 7271

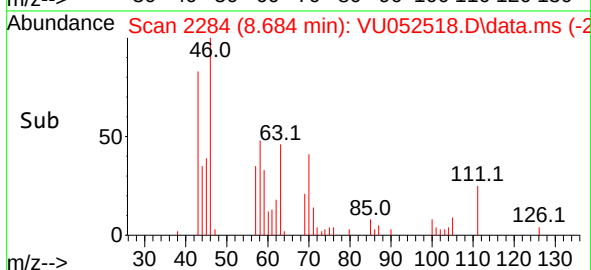
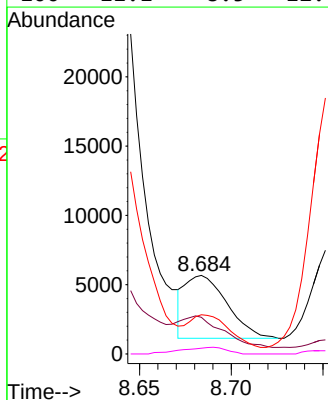
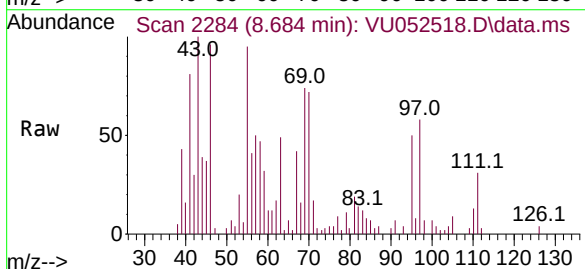
Ion Ratio Lower Upper

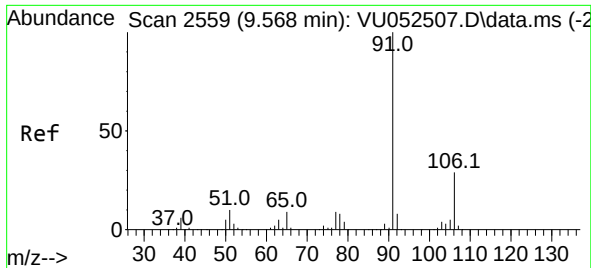
43 100

58 73.0 44.1 66.1#

57 50.7 14.6 21.8#

100 11.1 8.5 12.7

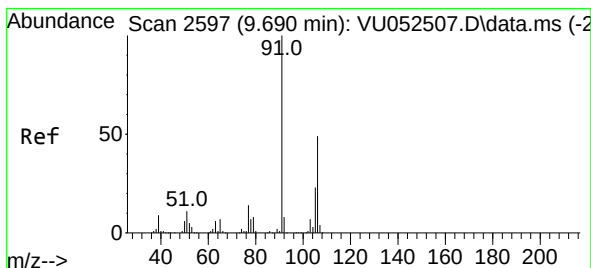
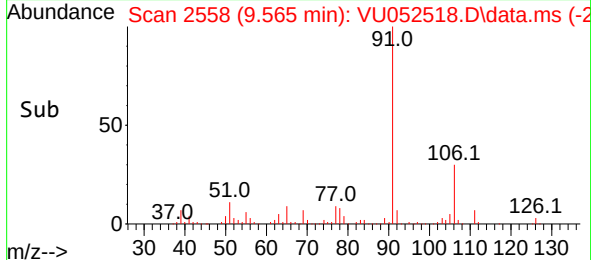
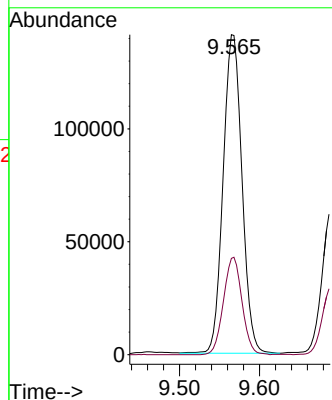
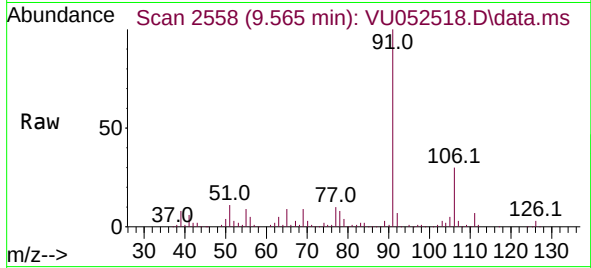




#52
Ethylbenzene
Concen: 3.230 ug/L
RT: 9.565 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

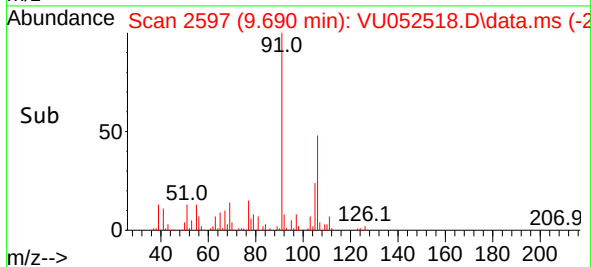
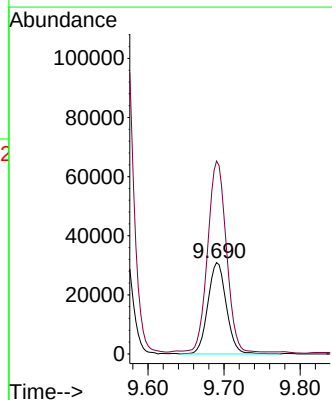
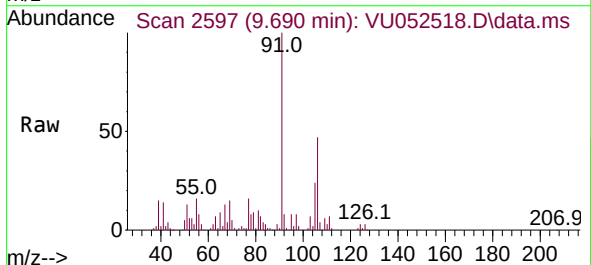
Instrument :
MSVOA_U
ClientSampleId :
GBQA3

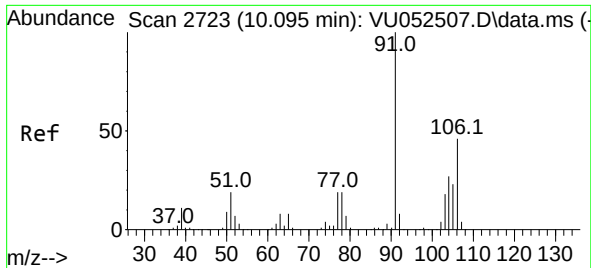
Tgt Ion: 91 Resp: 230287
Ion Ratio Lower Upper
91 100
106 30.1 20.9 38.7



#53
m,p-Xylene
Concen: 1.981 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. 0.000 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

Tgt Ion: 106 Resp: 52074
Ion Ratio Lower Upper
106 100
91 211.4 148.2 275.2

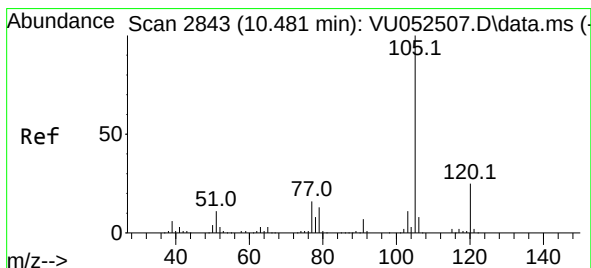
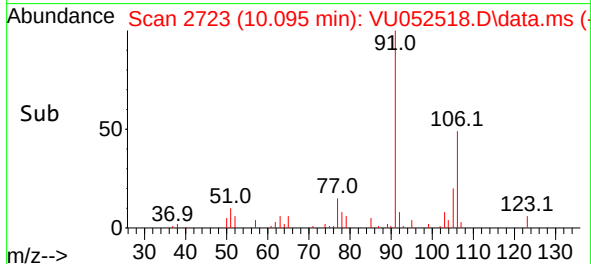
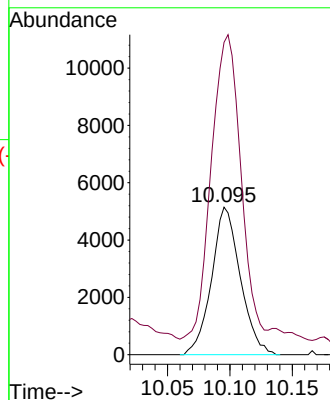
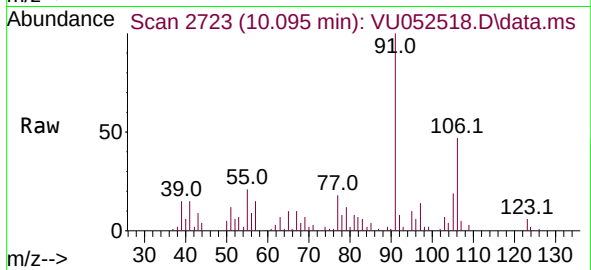




#54
o-Xylene
Concen: 0.328 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. 0.000 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

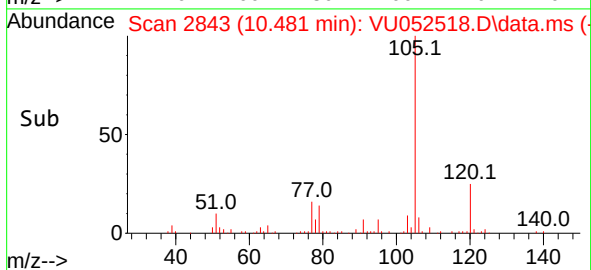
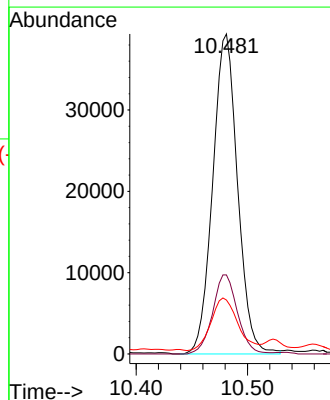
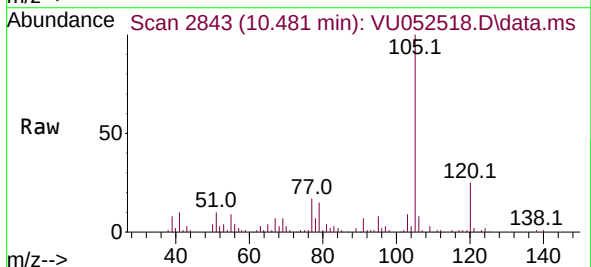
Instrument :
MSVOA_U
ClientSampleId :
GBQA3

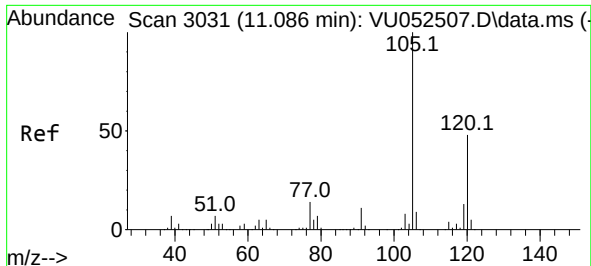
Tgt Ion:106 Resp: 8272
Ion Ratio Lower Upper
106 100
91 211.8 153.2 284.4



#60
Isopropylbenzene
Concen: 0.905 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. 0.000 min
Lab File: VU052518.D
Acq: 23 Dec 2022 02:00

Tgt Ion:105 Resp: 60964
Ion Ratio Lower Upper
105 100
120 24.7 20.6 31.0
77 17.7 13.8 20.8

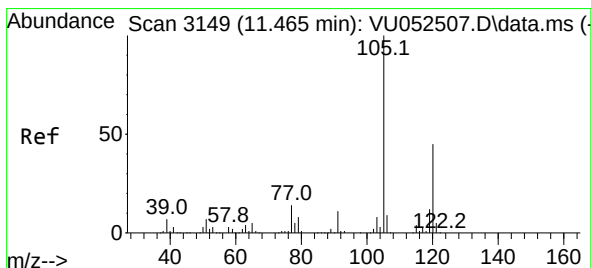
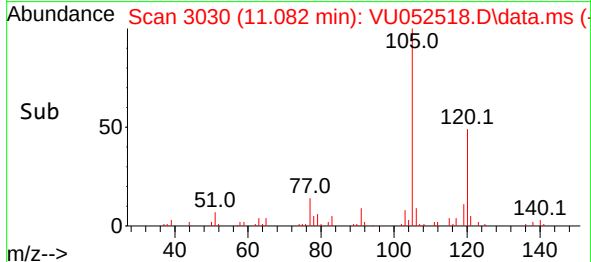
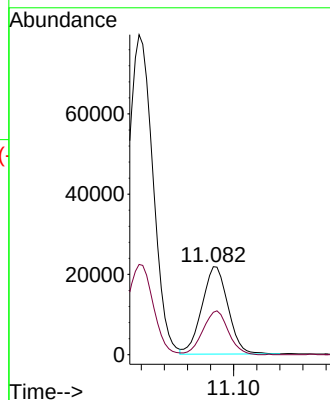
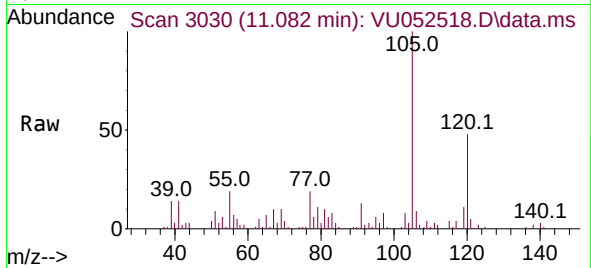




#62
 1,3,5-Trimethylbenzene
 Concen: 0.615 ug/L
 RT: 11.082 min Scan# 3031
 Delta R.T. -0.003 min
 Lab File: VU052518.D
 Acq: 23 Dec 2022 02:00

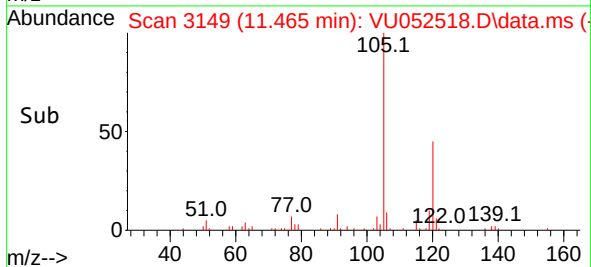
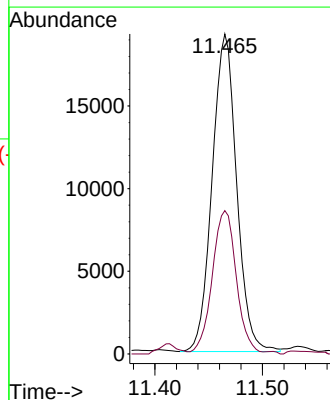
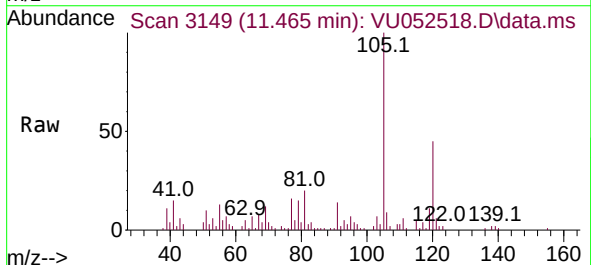
Instrument :
 MSVOA_U
 ClientSampleId :
 GBQA3

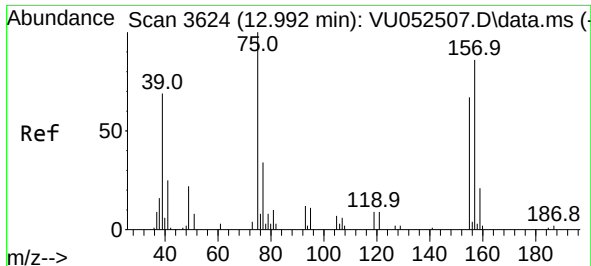
Tgt Ion:105 Resp: 34197
 Ion Ratio Lower Upper
 105 100
 120 48.9 38.6 57.8



#63
 1,2,4-Trimethylbenzene
 Concen: 0.544 ug/L
 RT: 11.465 min Scan# 3149
 Delta R.T. 0.000 min
 Lab File: VU052518.D
 Acq: 23 Dec 2022 02:00

Tgt Ion:105 Resp: 30407
 Ion Ratio Lower Upper
 105 100
 120 43.3 35.6 53.4





#68

1,2-Dibromo-3-chloropropane

Concen: 0.302 ug/L

RT: 12.967 min Scan# 30

Delta R.T. -0.026 min

Lab File: VU052518.D

Acq: 23 Dec 2022 02:00

Instrument :

MSVOA_U

ClientSampleId :

GBQA3

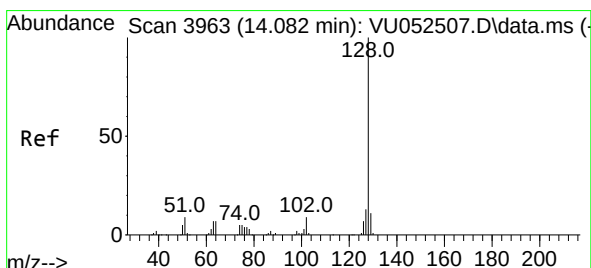
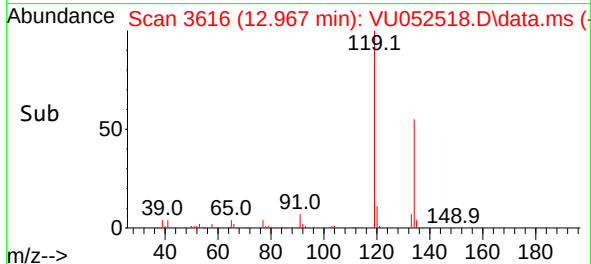
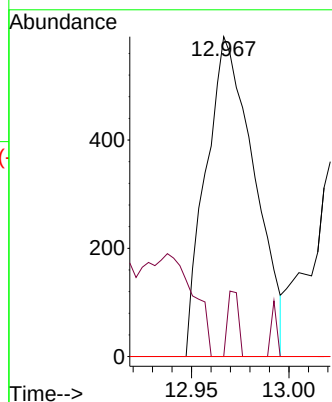
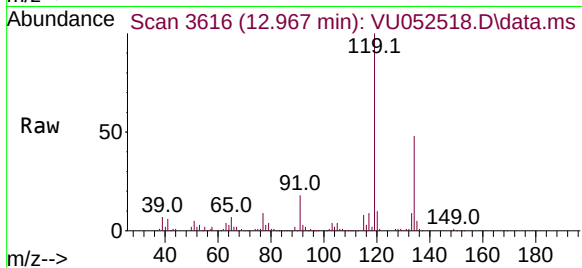
Tgt Ion: 75 Resp: 1018

Ion Ratio Lower Upper

75 100

155 0.0 62.2 93.2#

157 0.0 73.0 109.4#



#71

Naphthalene

Concen: 1.392 ug/L

RT: 14.082 min Scan# 3963

Delta R.T. 0.000 min

Lab File: VU052518.D

Acq: 23 Dec 2022 02:00

Tgt Ion:128 Resp: 58336

Ion Ratio Lower Upper

128 100

129 12.1 8.7 13.1

127 14.6 10.6 16.0

