

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122222\
 Data File : VU052489.D
 Acq On : 22 Dec 2022 14:18
 Operator : JC/MD
 Sample : N6169-18DL 4X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQA9DL

Quant Time: Dec 23 00:32:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122022WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 22 00:28:27 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	216204	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	211557	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	106640	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	76679	3.501	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.000%
7) Chloroethane-d5	1.916	69	70921	3.754	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.000%
11) 1,1-Dichloroethene-d2	2.568	65	34599	3.671	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.400%
20) 2-Butanone-d5	4.646	46	290555	42.776	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.560%
24) Chloroform-d	5.060	84	151029	4.087	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.800%
26) 1,2-Dichloroethane-d4	5.700	65	86305	4.026	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.600%
32) Benzene-d6	5.723	84	312207	4.304	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.000%
36) 1,2-Dichloropropane-d6	6.687	67	107849	4.319	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.400%
41) Toluene-d8	7.893	98	274763	4.512	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.200%
43) trans-1,3-Dichloroprop...	8.176	79	36884	4.314	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.200%
46) 2-Hexanone-d5	8.633	63	220122	47.059	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.120%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	88961	4.197	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.000%
66) 1,2-Dichlorobenzene-d4	12.189	152	99812	4.597	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	17330	0.901	ug/L	100
5) Vinyl chloride	1.604	62	24906	0.989	ug/L	92
8) Chloroethane	1.935	64	55065	3.194	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.581	101	43605	2.578	ug/L	98
12) 1,1-Dichloroethene	2.581	96	9493	0.586	ug/L #	1
13) Acetone	2.665	43	192358	38.416	ug/L	98
15) Methyl Acetate	2.964	43	27393	2.483	ug/L	96
16) Methylene chloride	3.044	84	8548	0.374	ug/L	96
18) trans-1,2-Dichloroethene	3.353	96	13064	0.783	ug/L	96
19) 1,1-Dichloroethane	3.867	63	19388	0.534	ug/L	100
22) cis-1,2-Dichloroethene	4.665	96	20736	1.132	ug/L	98
23) Bromochloromethane	4.977	128	11418	1.345	ug/L	91
25) Chloroform	5.086	83	71495	2.033	ug/L	99
27) 1,2-Dichloroethane	5.793	62	12344	0.508	ug/L	100
29) 1,1,1-Trichloroethane	5.311	97	13893	0.522	ug/L	99
31) Carbon tetrachloride	5.520	117	17145	0.733	ug/L	100
34) Trichloroethene	6.539	95	10203	0.573	ug/L	93
39) cis-1,3-Dichloropropene	7.604	75	34315	1.274	ug/L	100
40) 4-Methyl-2-pentanone	7.790	43	229550	14.773	ug/L	99

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

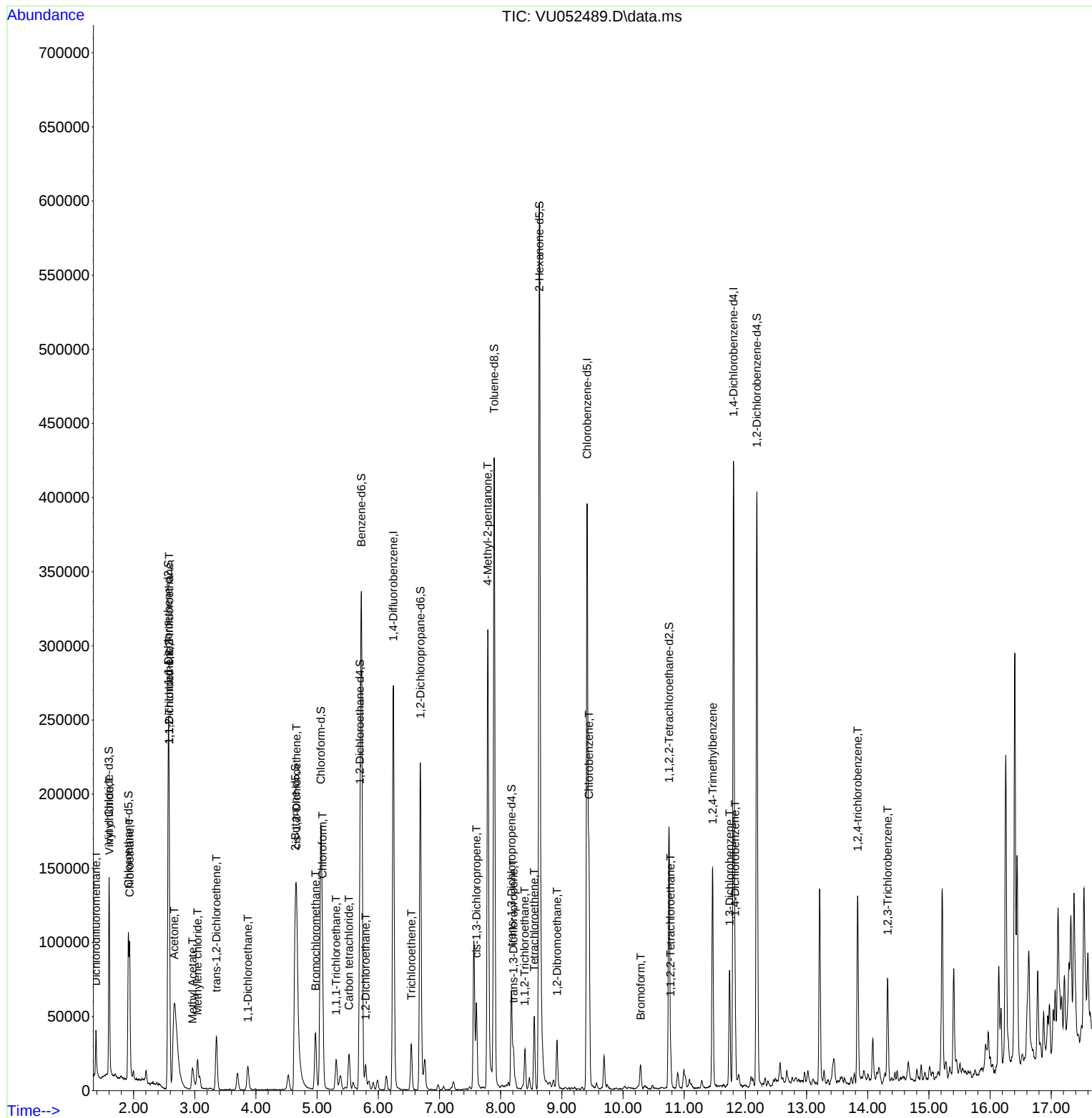
44) trans-1,3-Dichloropropene	8.208	75	15920	0.671	ug/L	93
45) 1,1,2-Trichloroethane	8.395	97	8663	0.575	ug/L	96
47) Tetrachloroethene	8.549	164	10723	0.862	ug/L	95
50) 1,2-Dibromoethane	8.922	107	18350	1.340	ug/L #	96
51) Chlorobenzene	9.443	112	77725	1.666	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.777	83	10183	0.489	ug/L #	96
59) Bromoform	10.288	173	7082	0.756	ug/L	97
63) 1,2,4-Trimethylbenzene	11.465	105	78456	1.367	ug/L	97
64) 1,3-Dichlorobenzene	11.742	146	29856	0.871	ug/L	97
65) 1,4-Dichlorobenzene	11.832	146	20360	0.574	ug/L	96
70) 1,2,4-trichlorobenzene	13.835	180	33577	1.580	ug/L	98
72) 1,2,3-Trichlorobenzene	14.327	180	19271	0.905	ug/L #	94

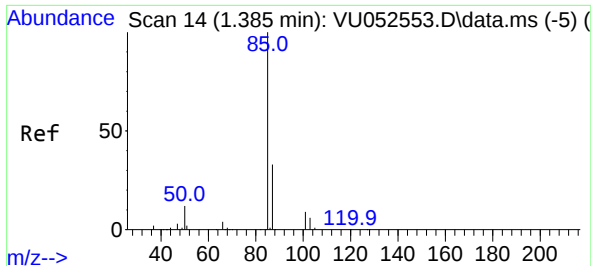
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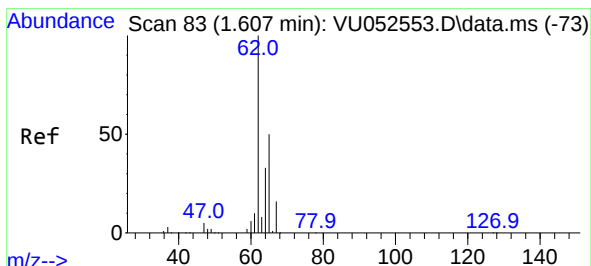
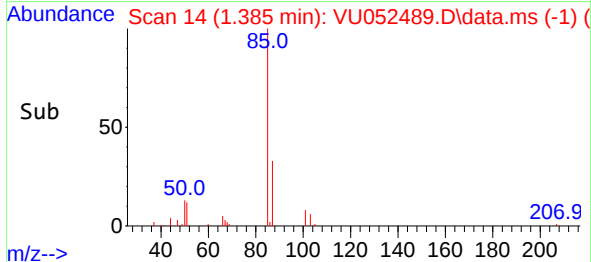
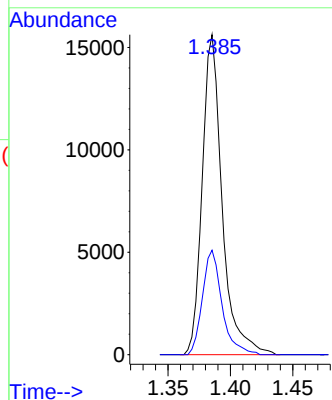
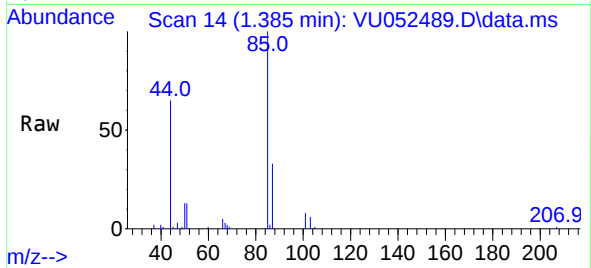




#2
Dichlorodifluoromethane
Concen: 0.901 ug/L
RT: 1.385 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

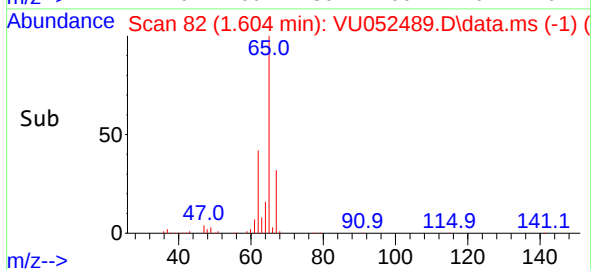
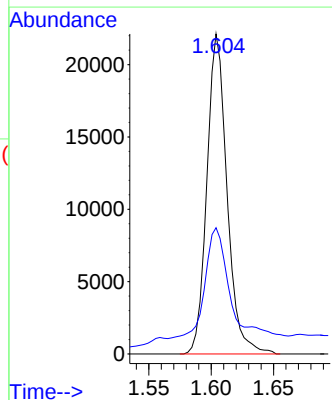
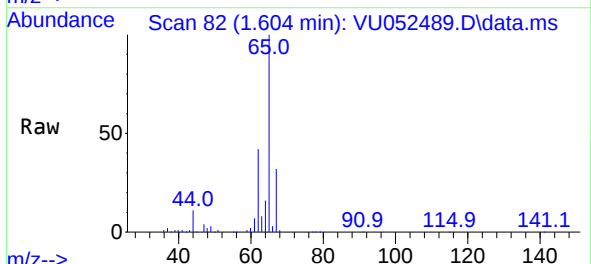
Instrument :
MSVOA_U
ClientSampleId :
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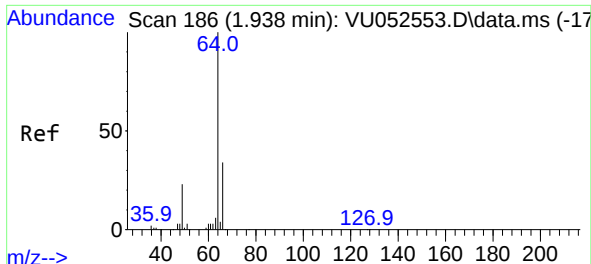
Tgt Ion: 85 Resp: 17330
Ion Ratio Lower Upper
85 100
87 32.2 25.6 38.4



#5
Vinyl chloride
Concen: 0.989 ug/L
RT: 1.604 min Scan# 82
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Tgt Ion: 62 Resp: 24906
Ion Ratio Lower Upper
62 100
64 39.4 24.4 45.4

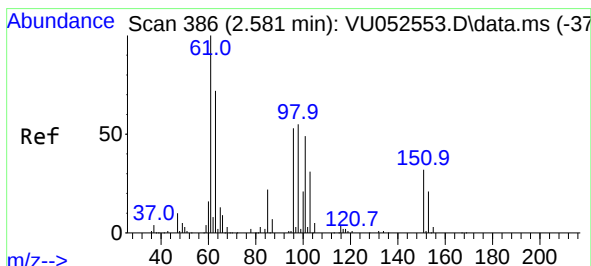
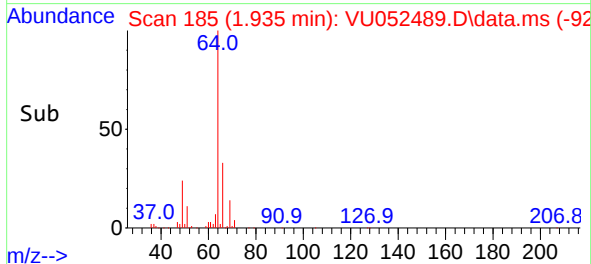
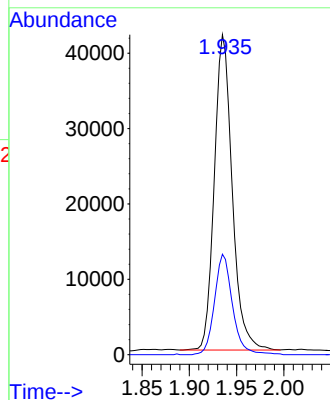
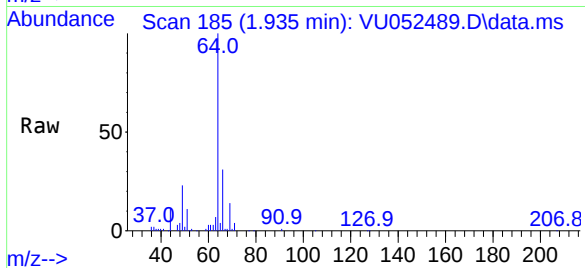




#8
Chloroethane
Concen: 3.194 ug/L
RT: 1.935 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

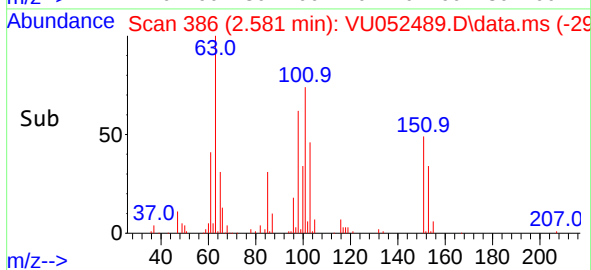
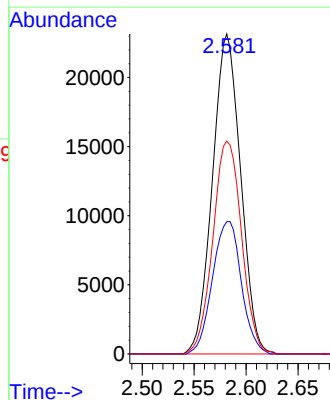
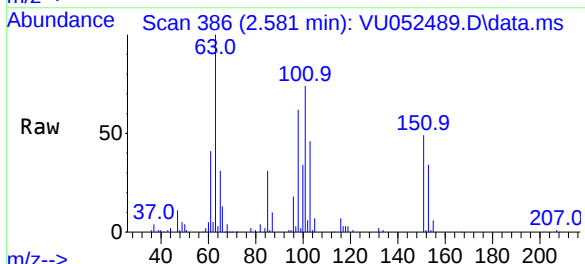
Instrument :
MSVOA_U
ClientSampleId :
GBQA9DL

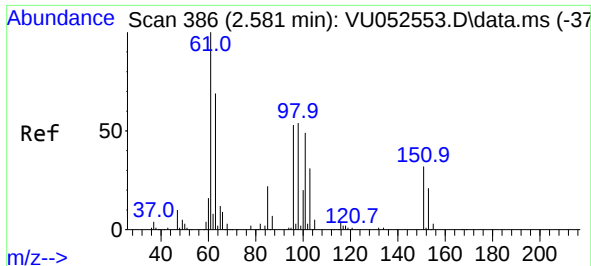
Tgt Ion: 64 Resp: 55065
Ion Ratio Lower Upper
64 100
66 31.4 21.3 39.5



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.578 ug/L
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Tgt Ion: 101 Resp: 43605
Ion Ratio Lower Upper
101 100
85 42.5 35.8 53.6
151 67.9 53.6 80.4

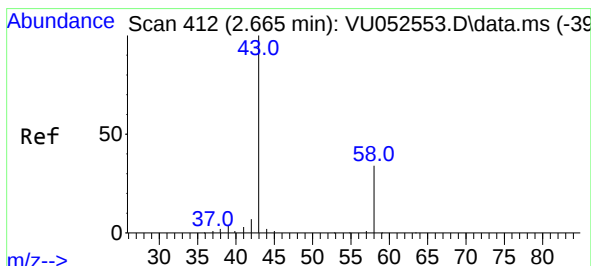
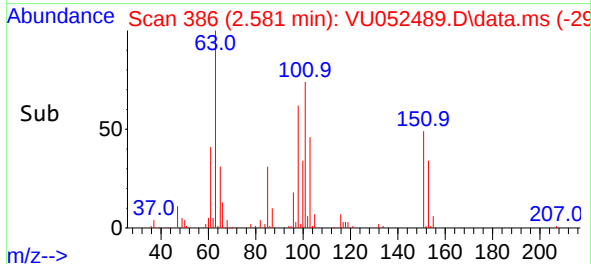
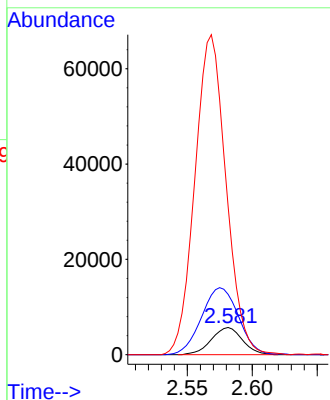
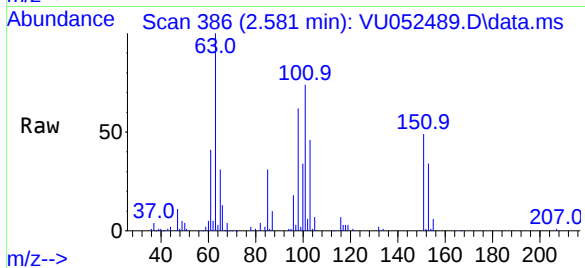




#12
1,1-Dichloroethene
Concen: 0.586 ug/L
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

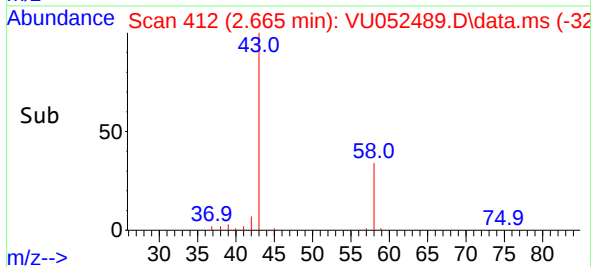
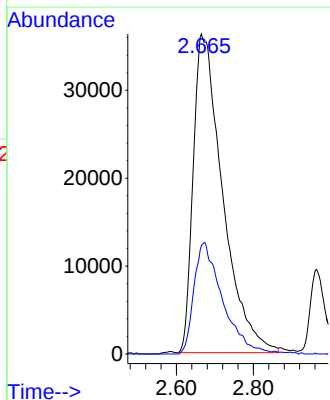
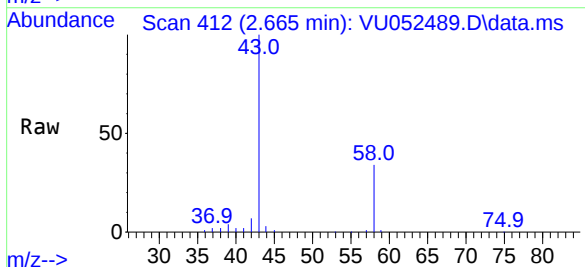
Instrument :
MSVOA_U
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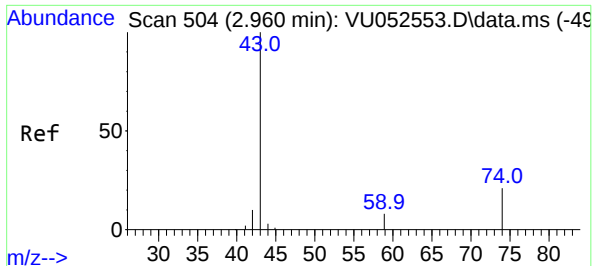
Tgt Ion: 96 Resp: 9493
Ion Ratio Lower Upper
96 100
61 221.2 135.4 251.4
63 543.4 95.4 177.2#



#13
Acetone
Concen: 38.416 ug/L
RT: 2.665 min Scan# 412
Delta R.T. -0.016 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Tgt Ion: 43 Resp: 192358
Ion Ratio Lower Upper
43 100
58 33.9 0.0 65.4

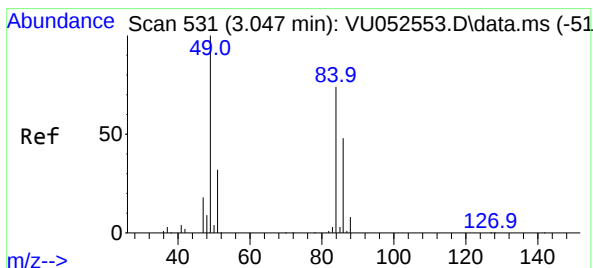
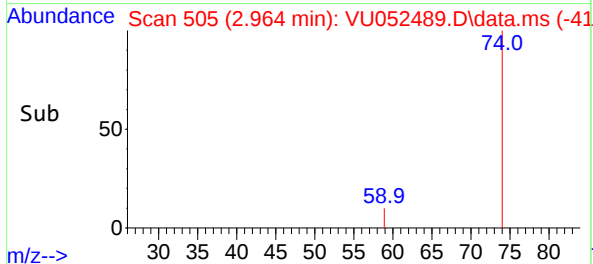
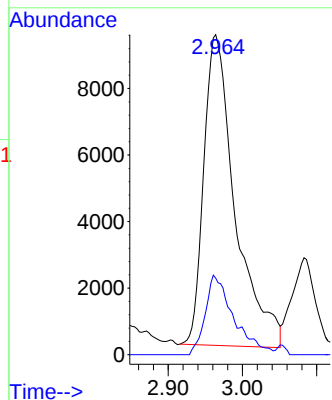
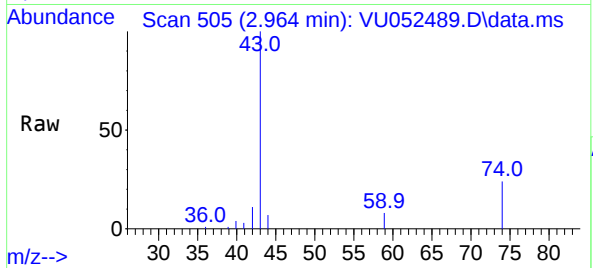




#15
Methyl Acetate
Concen: 2.483 ug/L
RT: 2.964 min Scan# 504
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

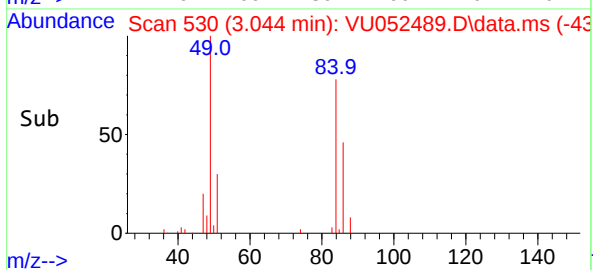
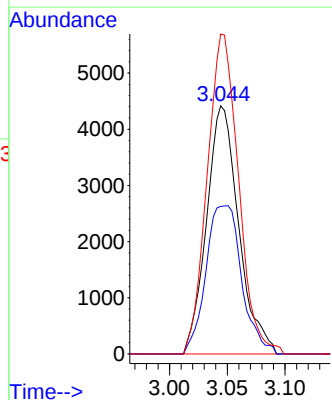
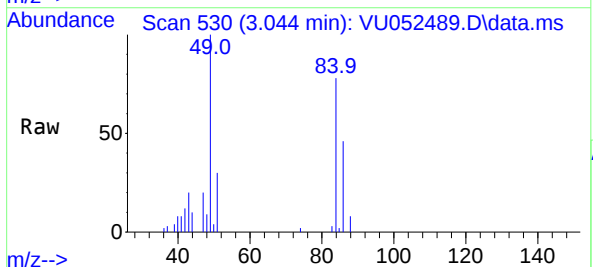
Instrument :
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ClientSampleId :
GBQA9DL

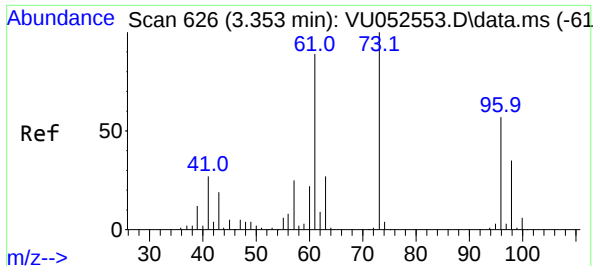
Tgt Ion: 43 Resp: 27393
Ion Ratio Lower Upper
43 100
74 23.1 16.9 25.3



#16
Methylene chloride
Concen: 0.374 ug/L
RT: 3.044 min Scan# 530
Delta R.T. -0.003 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Tgt Ion: 84 Resp: 8548
Ion Ratio Lower Upper
84 100
86 59.4 44.7 83.1
49 128.9 93.3 173.3



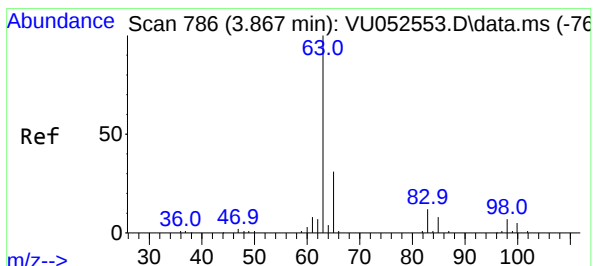
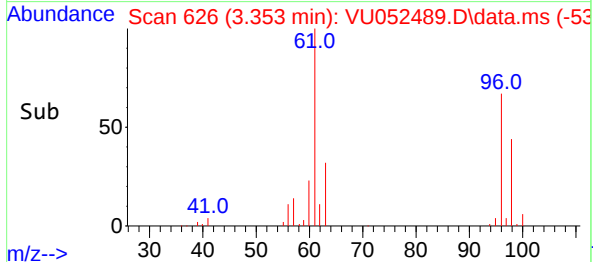
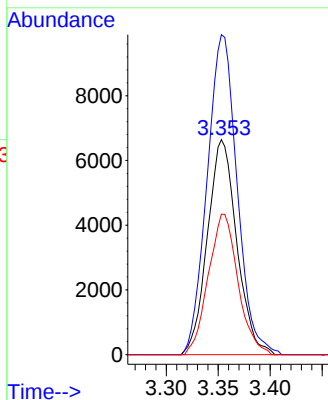
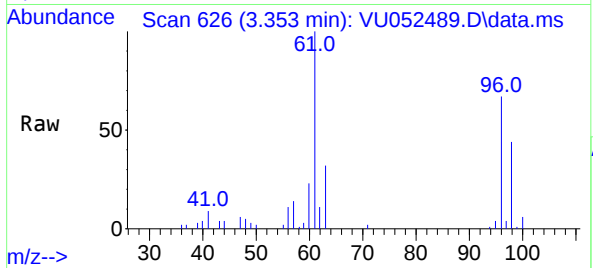


#18
trans-1,2-Dichloroethene
Concen: 0.783 ug/L
RT: 3.353 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU052489.D
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Tgt Ion: 96 Resp: 13064

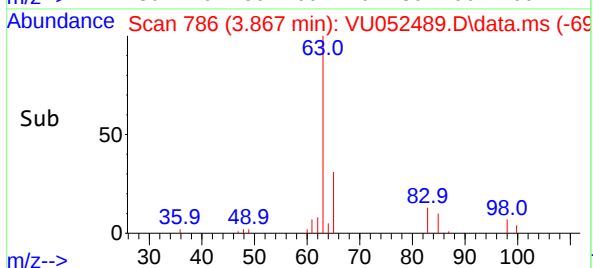
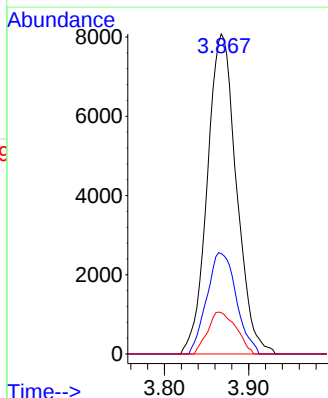
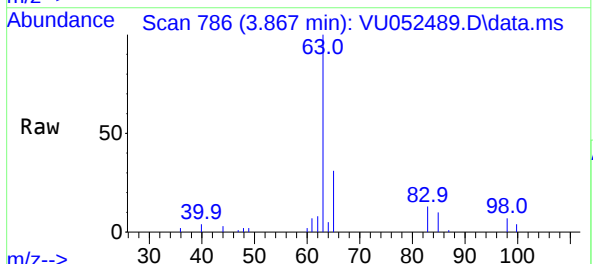
Ion	Ratio	Lower	Upper
96	100		
61	148.8	108.3	201.1
98	65.3	44.0	81.6

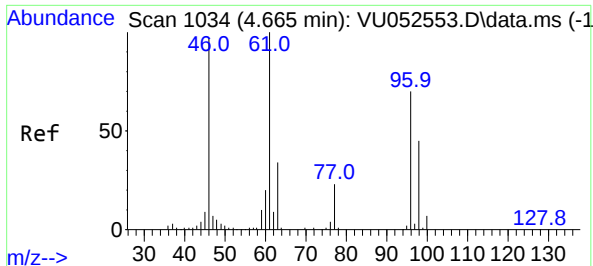


#19
1,1-Dichloroethane
Concen: 0.534 ug/L
RT: 3.867 min Scan# 786
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Tgt Ion: 63 Resp: 19388

Ion	Ratio	Lower	Upper
63	100		
65	31.4	22.0	40.8
83	12.9	9.0	16.8



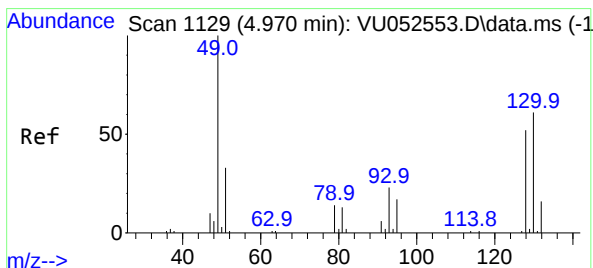
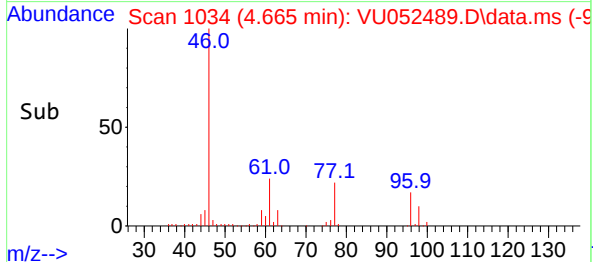
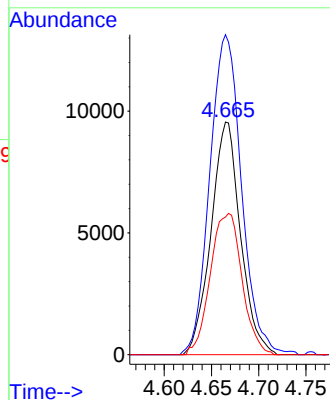
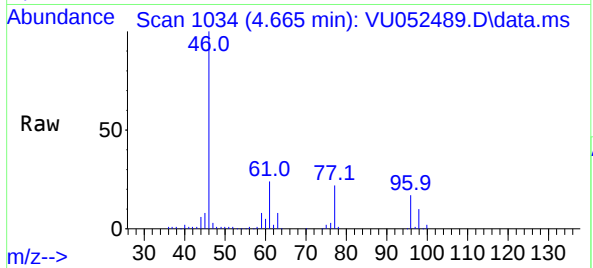


#22
 cis-1,2-Dichloroethene
 Concen: 1.132 ug/L
 RT: 4.665 min Scan# 1131
 Delta R.T. 0.000 min
 Lab File: VU052489.D
 Acq: 22 Dec 2022 14:18

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQA9DL

Tgt Ion: 96 Resp: 20736

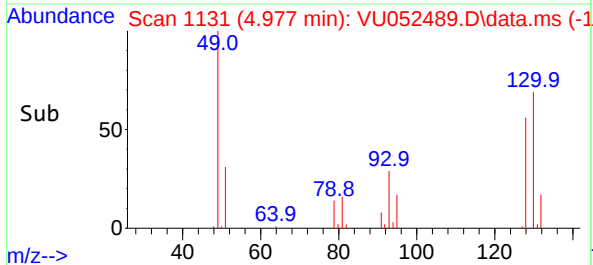
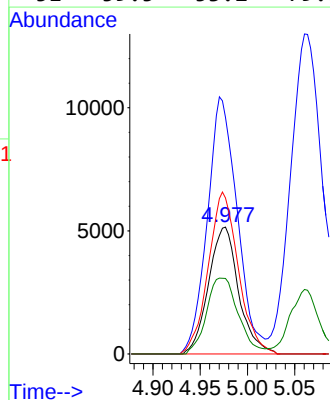
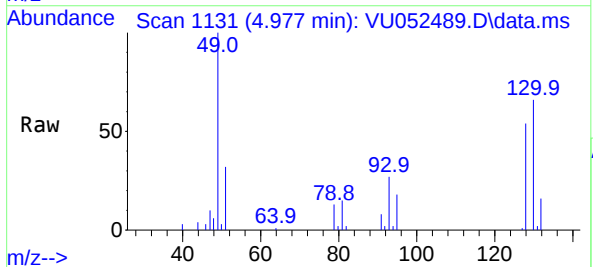
Ion	Ratio	Lower	Upper
96	100		
61	137.5	96.9	180.1
98	59.2	44.7	83.1

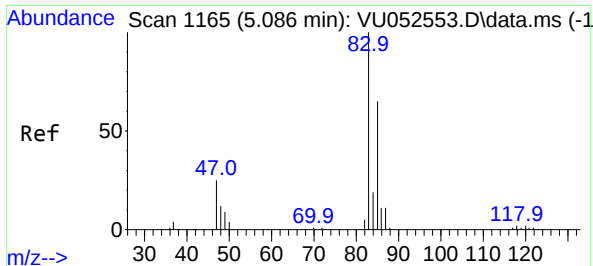


#23
 Bromochloromethane
 Concen: 1.345 ug/L
 RT: 4.977 min Scan# 1131
 Delta R.T. 0.000 min
 Lab File: VU052489.D
 Acq: 22 Dec 2022 14:18

Tgt Ion: 128 Resp: 11418

Ion	Ratio	Lower	Upper
128	100		
49	186.5	143.3	266.1
130	123.0	88.4	164.2
51	59.5	53.2	79.8





#25

Chloroform

Concen: 2.033 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU052489.D

Acq: 22 Dec 2022 14:18

Instrument :

MSVOA_U

ClientSampleId :

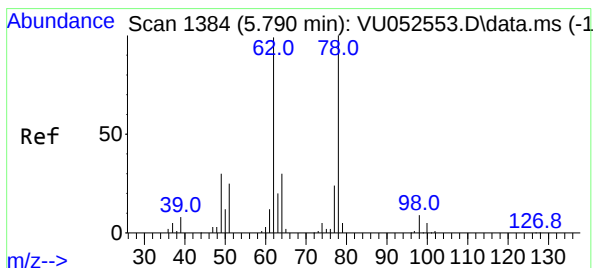
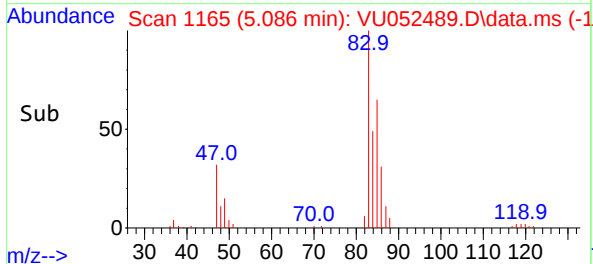
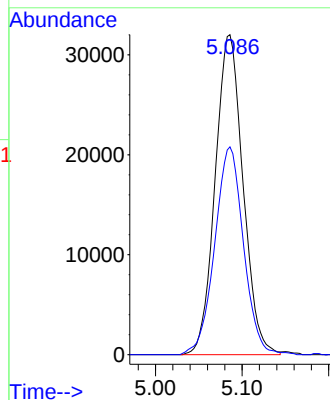
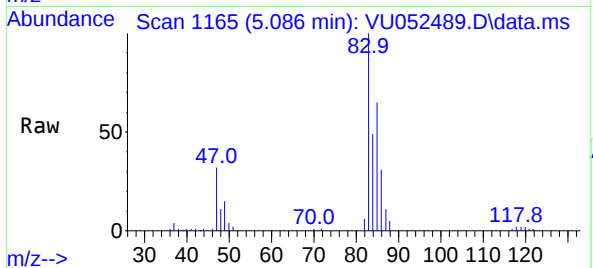
GBQA9DL

Tgt Ion: 83 Resp: 71495

Ion Ratio Lower Upper

83 100

85 65.0 44.7 83.1



#27

1,2-Dichloroethane

Concen: 0.508 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.000 min

Lab File: VU052489.D

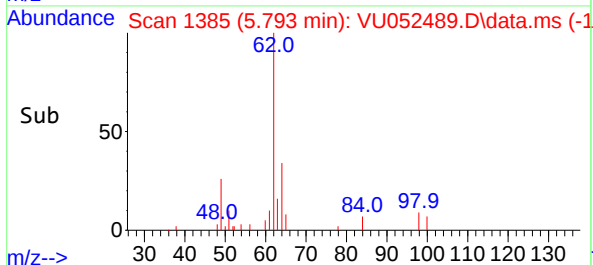
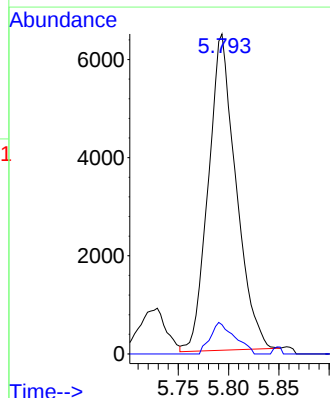
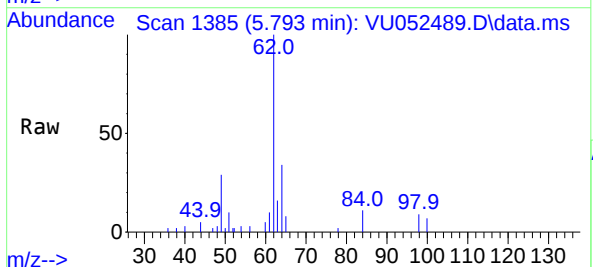
Acq: 22 Dec 2022 14:18

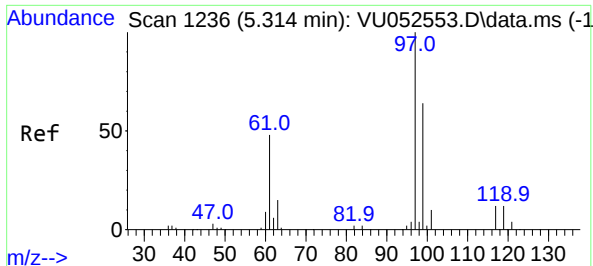
Tgt Ion: 62 Resp: 12344

Ion Ratio Lower Upper

62 100

98 9.1 7.4 11.2

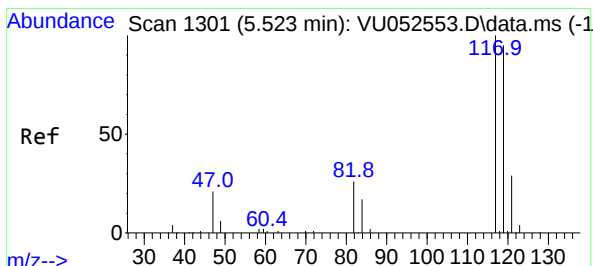
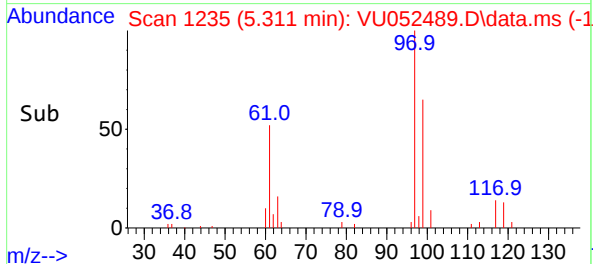
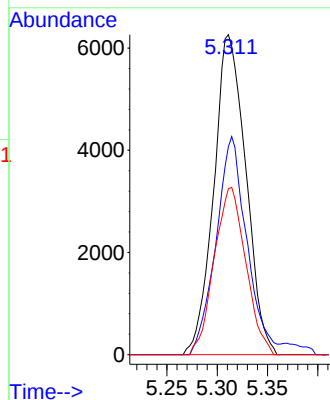
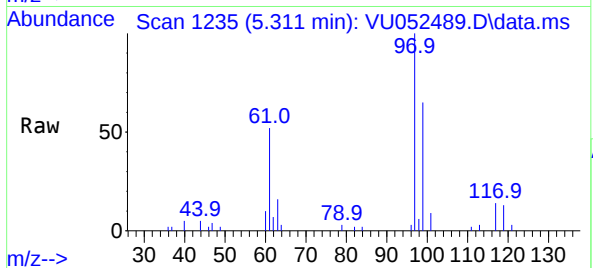




#29
1,1,1-Trichloroethane
Concen: 0.522 ug/L
RT: 5.311 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

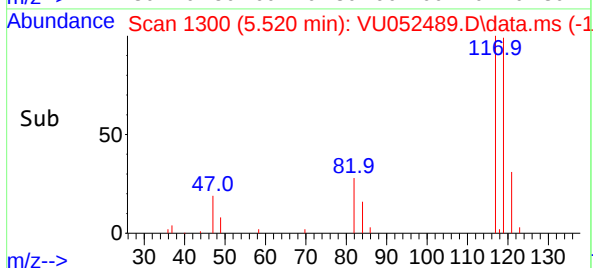
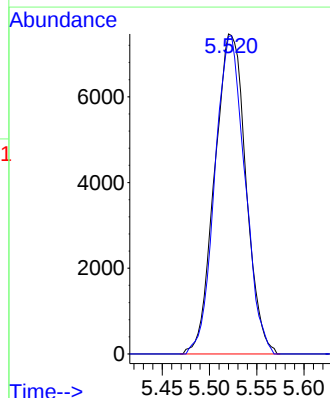
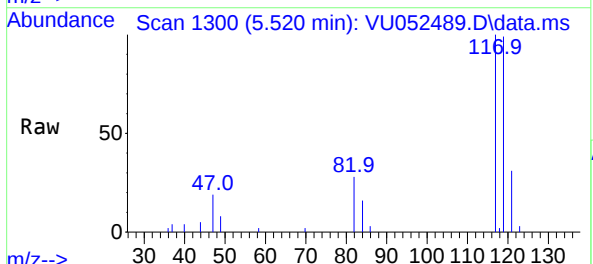
Instrument :
MSVOA_U
ClientSampleId :
GBQA9DL

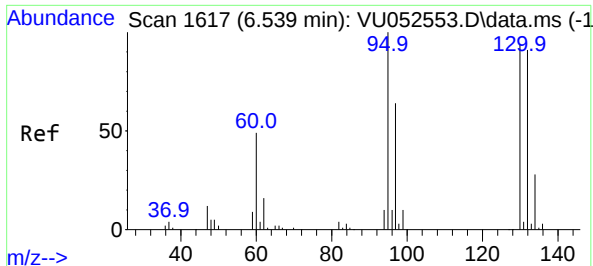
Tgt Ion: 97	Resp: 13893
Ion Ratio	Lower Upper
97 100	
99 65.5	52.2 78.2
61 51.4	41.6 62.4



#31
Carbon tetrachloride
Concen: 0.733 ug/L
RT: 5.520 min Scan# 1300
Delta R.T. -0.003 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Tgt Ion:117	Resp:	17145	
Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.3	114.5

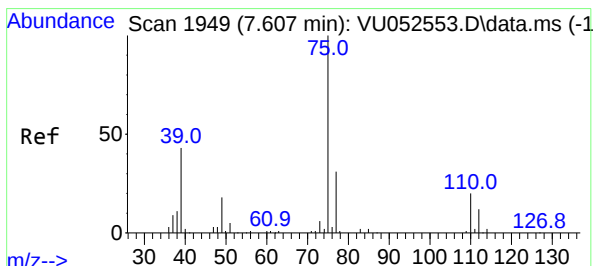
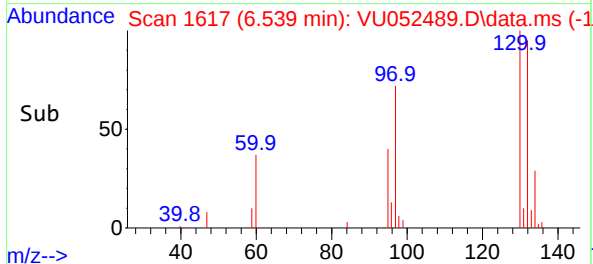
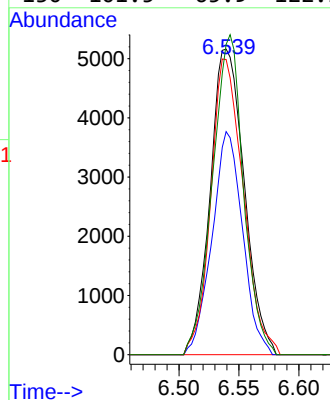
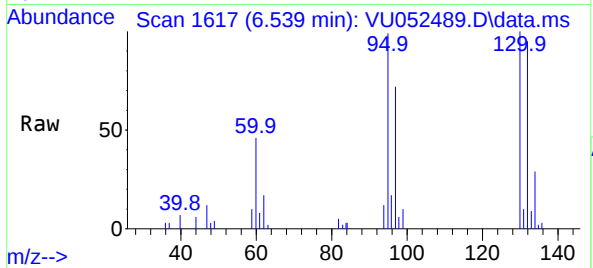




#34
Trichloroethene
Concen: 0.573 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

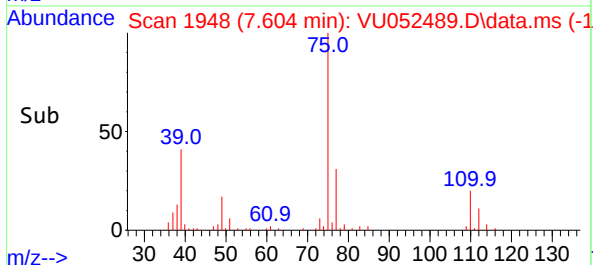
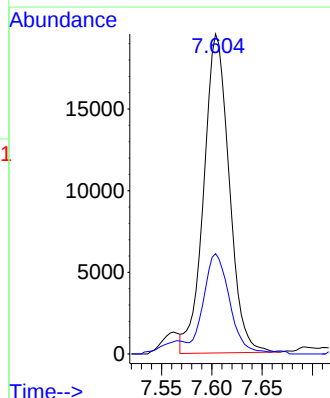
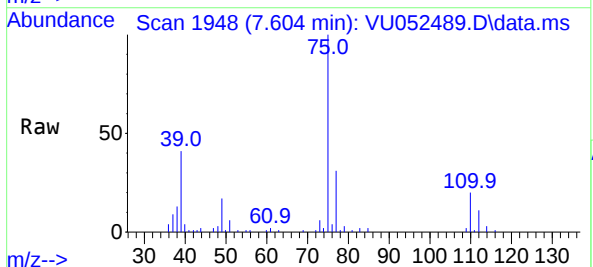
Instrument :
MSVOA_U
ClientSampleId :
GBQA9DL

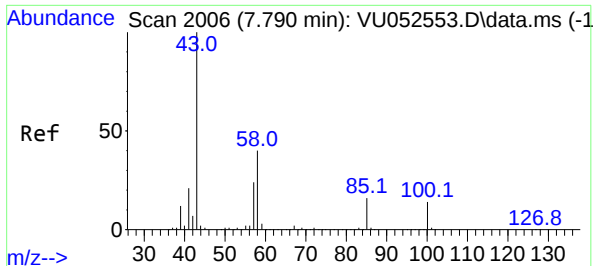
Tgt Ion: 95 Resp: 10203
Ion Ratio Lower Upper
95 100
97 73.0 46.3 86.1
132 96.6 63.9 118.7
130 101.5 65.9 122.5



#39
cis-1,3-Dichloropropene
Concen: 1.274 ug/L
RT: 7.604 min Scan# 1948
Delta R.T. -0.003 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Tgt Ion: 75 Resp: 34315
Ion Ratio Lower Upper
75 100
77 31.4 22.0 41.0





#40

4-Methyl-2-pentanone

Concen: 14.773 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VU052489.D

Acq: 22 Dec 2022 14:18

Instrument :

MSVOA_U

ClientSampleId :

GBQA9DL

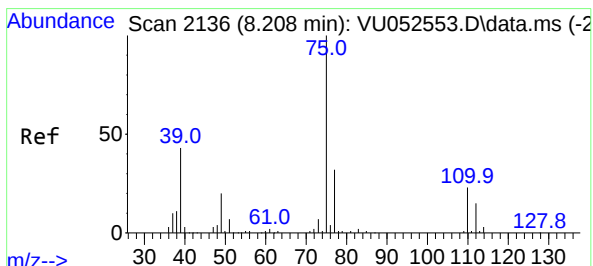
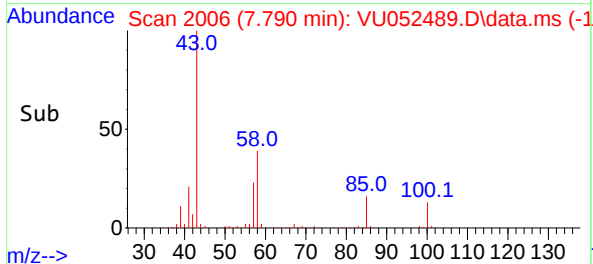
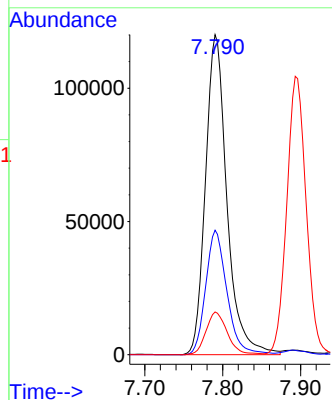
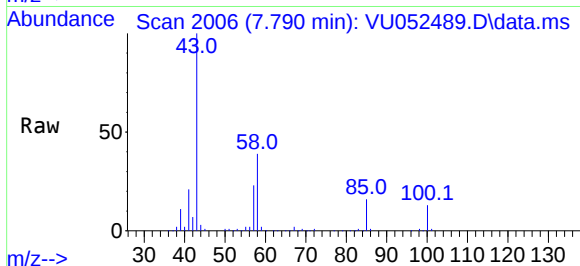
Tgt Ion: 43 Resp: 229550

Ion Ratio Lower Upper

43 100

58 38.7 30.6 45.8

100 13.3 10.4 15.6



#44

trans-1,3-Dichloropropene

Concen: 0.671 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. 0.000 min

Lab File: VU052489.D

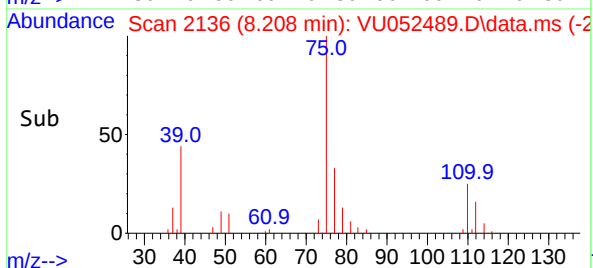
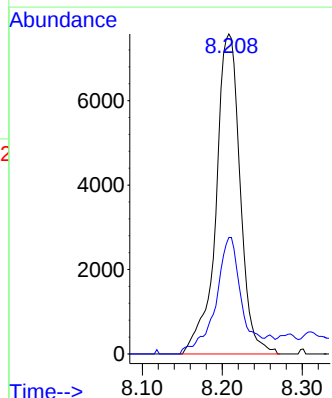
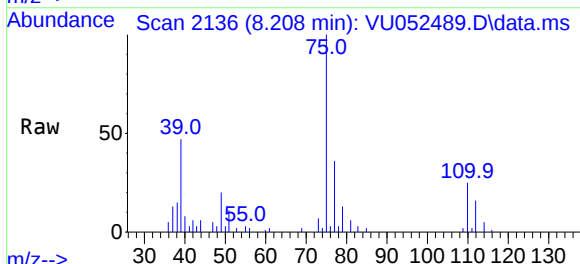
Acq: 22 Dec 2022 14:18

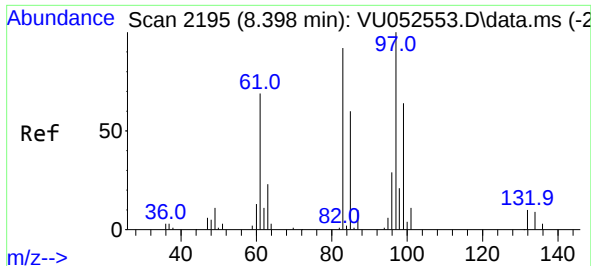
Tgt Ion: 75 Resp: 15920

Ion Ratio Lower Upper

75 100

77 36.4 22.8 42.4



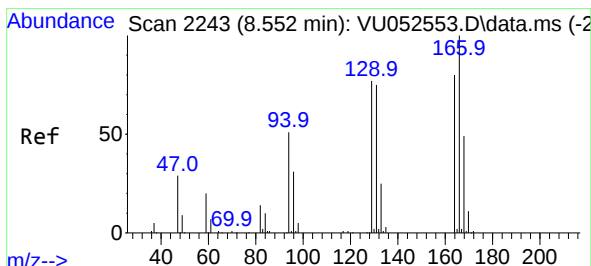
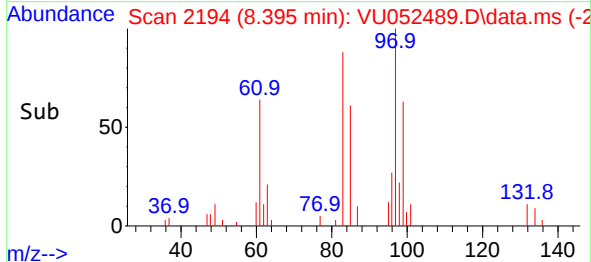
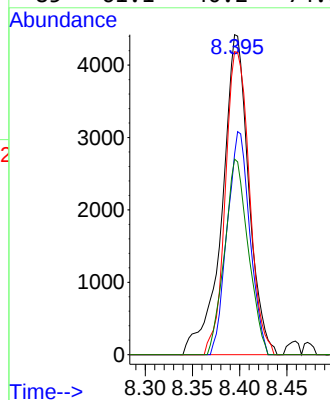
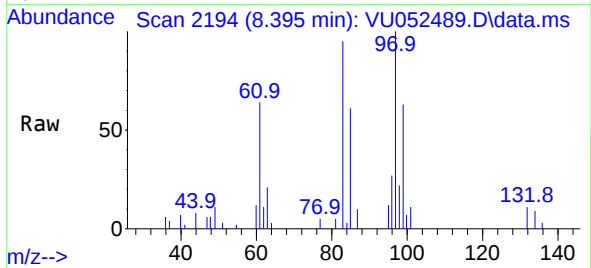


#45
1,1,2-Trichloroethane
Concen: 0.575 ug/L
RT: 8.395 min Scan# 2194
Delta R.T. -0.003 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Instrument :
MSVOA_U
ClientSampleId :
GBQA9DL

Tgt Ion: 97 Resp: 8663

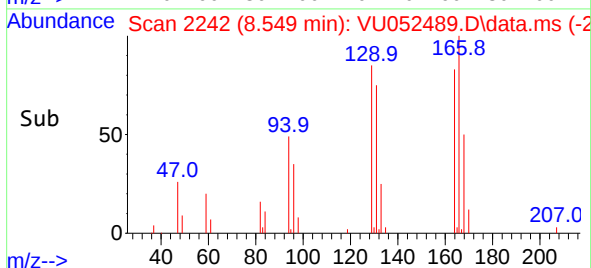
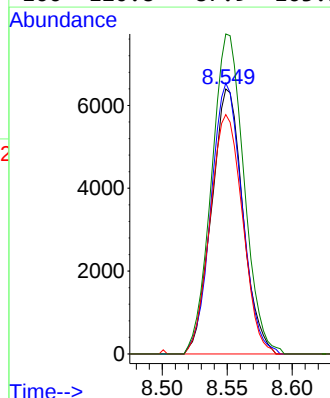
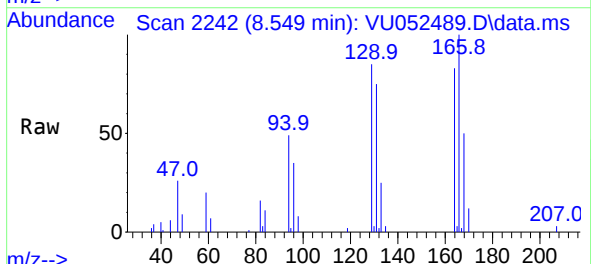
Ion	Ratio	Lower	Upper
97	100		
99	62.7	42.0	78.0
83	94.7	63.2	117.4
85	61.1	40.2	74.6

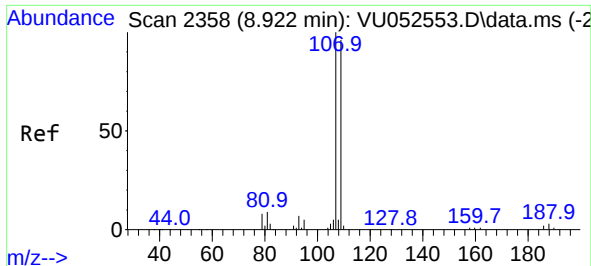


#47
Tetrachloroethene
Concen: 0.862 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.003 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Tgt Ion: 164 Resp: 10723

Ion	Ratio	Lower	Upper
164	100		
129	102.2	68.1	126.5
131	90.4	66.5	123.5
166	120.8	87.9	163.3

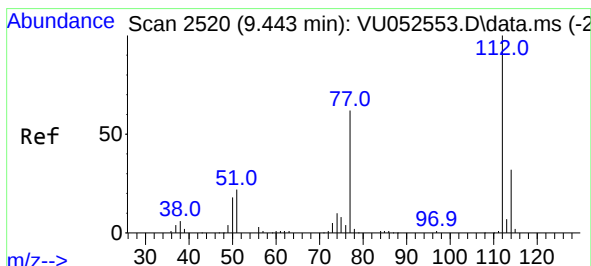
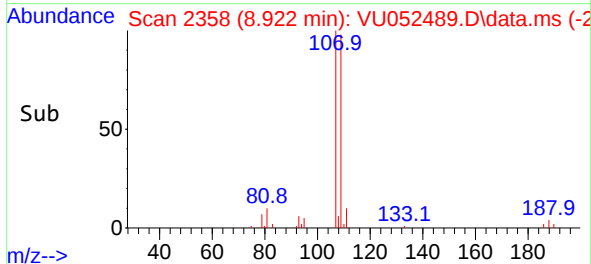
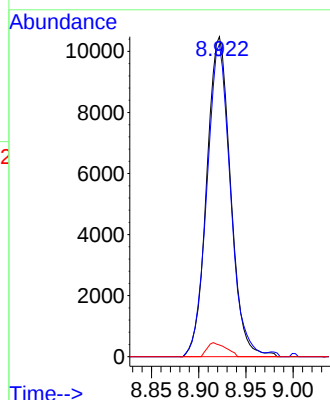
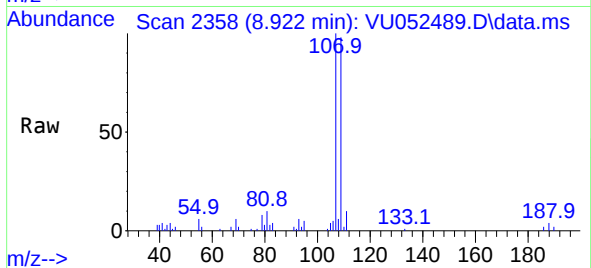




#50
1,2-Dibromoethane
Concen: 1.340 ug/L
RT: 8.922 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

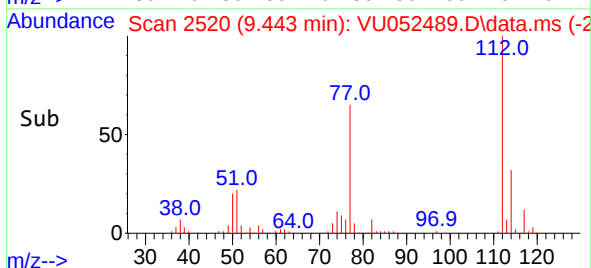
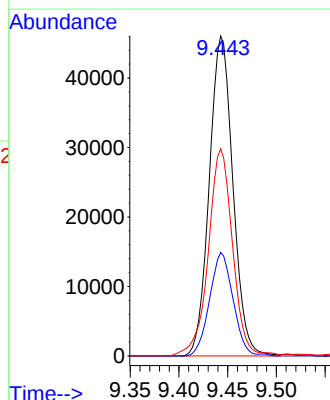
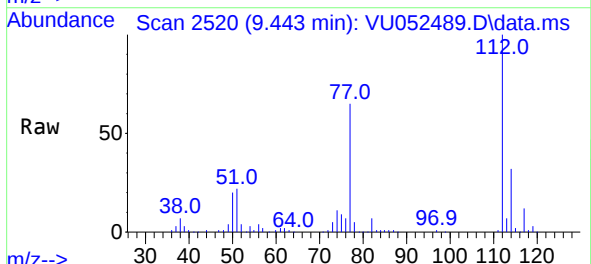
Instrument :
MSVOA_U
ClientSampleId :
GBQA9DL

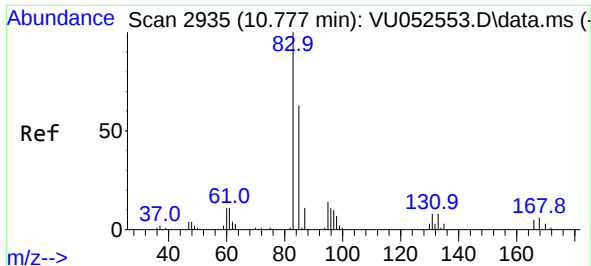
Tgt Ion:107 Resp: 18350
Ion Ratio Lower Upper
107 100
109 97.6 65.8 122.2
188 3.6 2.3 3.5#



#51
Chlorobenzene
Concen: 1.666 ug/L
RT: 9.443 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

Tgt Ion:112 Resp: 77725
Ion Ratio Lower Upper
112 100
114 32.3 21.3 39.5
77 64.7 51.0 76.6





#57

1,1,2,2-Tetrachloroethane

Concen: 0.489 ug/L

RT: 10.777 min Scan# 2935

Delta R.T. 0.000 min

Lab File: VU052489.D

Acq: 22 Dec 2022 14:18

Instrument :

MSVOA_U

ClientSampleId :

GBQA9DL

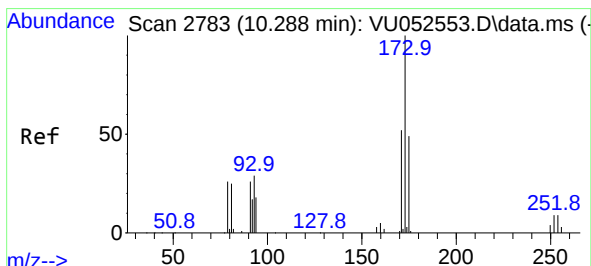
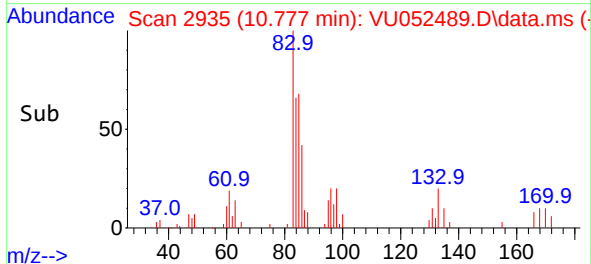
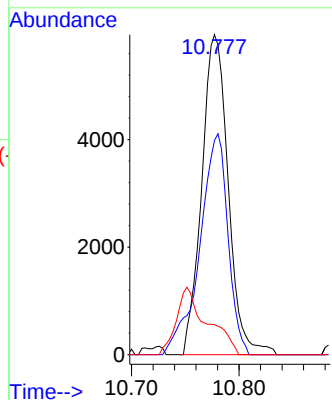
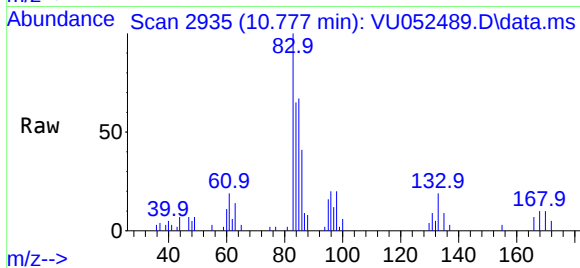
Tgt Ion: 83 Resp: 10183

Ion Ratio Lower Upper

83 100

85 66.9 44.7 83.1

131 9.4 6.0 9.0#



#59

Bromoform

Concen: 0.756 ug/L

RT: 10.288 min Scan# 2783

Delta R.T. 0.000 min

Lab File: VU052489.D

Acq: 22 Dec 2022 14:18

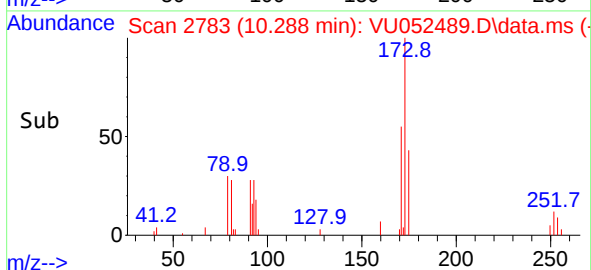
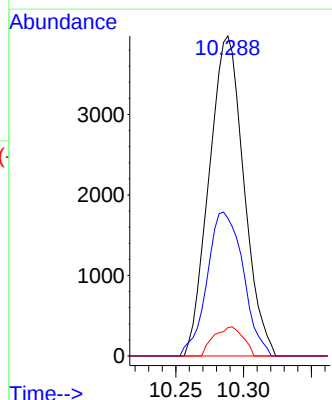
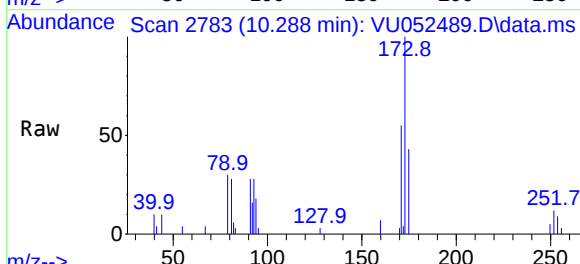
Tgt Ion:173 Resp: 7082

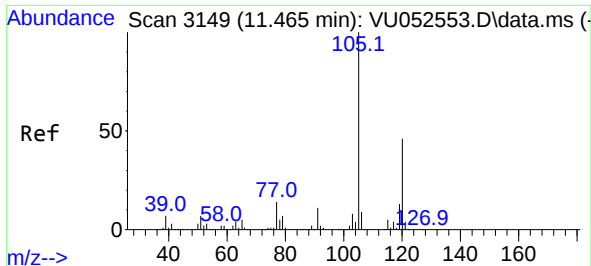
Ion Ratio Lower Upper

173 100

175 46.6 38.9 58.3

254 7.7 7.0 10.6





#63

1,2,4-Trimethylbenzene

Concen: 1.367 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.000 min

Lab File: VU052489.D

Acq: 22 Dec 2022 14:18

Instrument :

MSVOA_U

ClientSampleId :

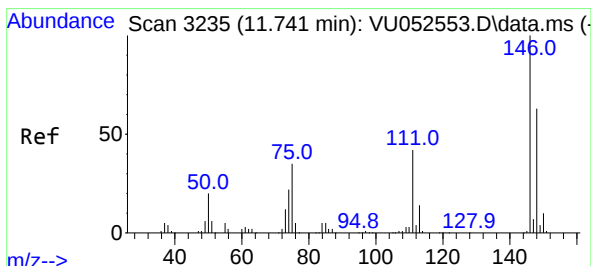
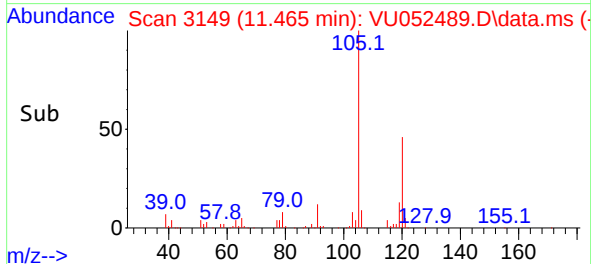
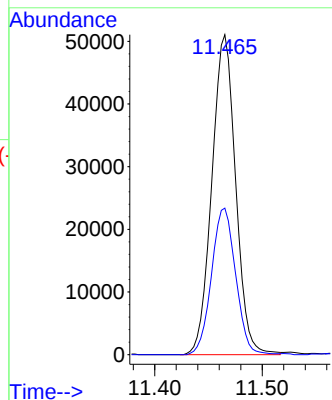
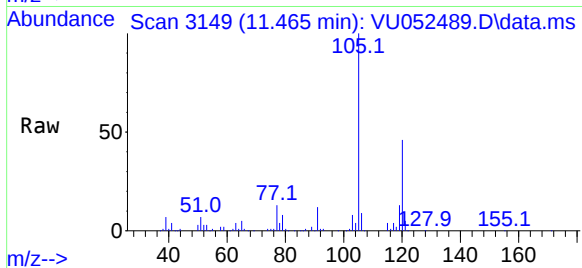
GBQA9DL

Tgt Ion:105 Resp: 78456

Ion Ratio Lower Upper

105 100

120 46.4 35.6 53.4



#64

1,3-Dichlorobenzene

Concen: 0.871 ug/L

RT: 11.742 min Scan# 3235

Delta R.T. 0.000 min

Lab File: VU052489.D

Acq: 22 Dec 2022 14:18

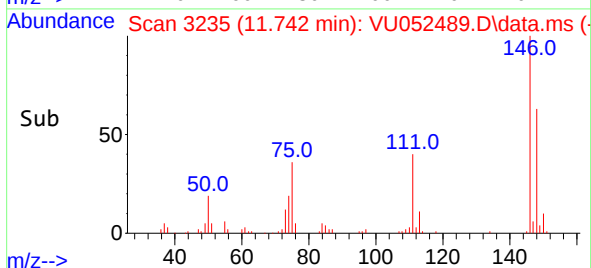
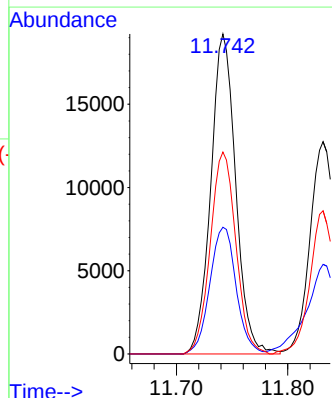
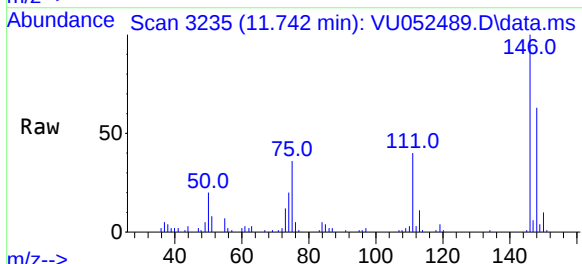
Tgt Ion:146 Resp: 29856

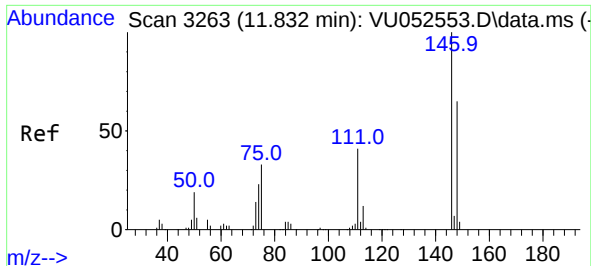
Ion Ratio Lower Upper

146 100

111 39.6 29.9 55.5

148 63.1 43.4 80.6

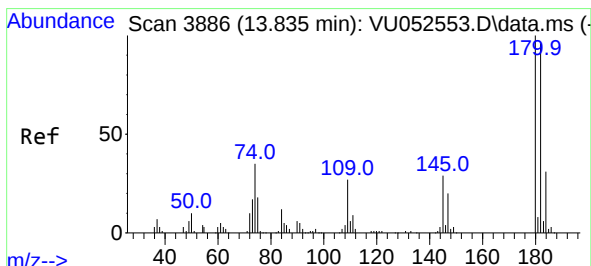
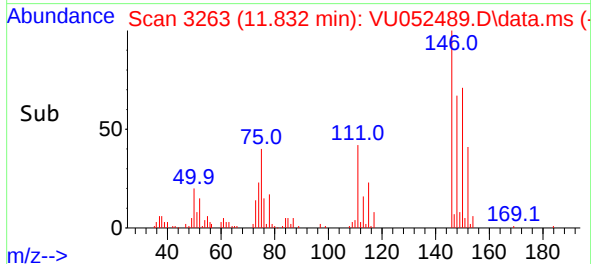
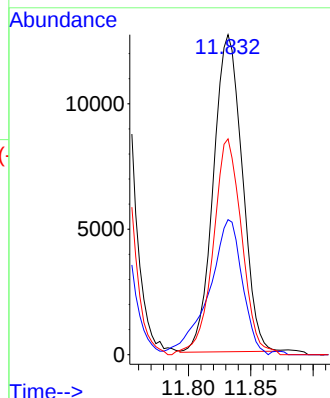
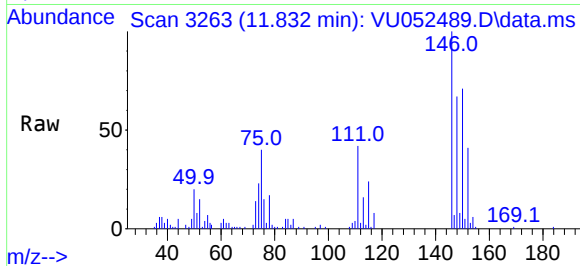




#65
1,4-Dichlorobenzene
Concen: 0.574 ug/L
RT: 11.832 min Scan# 311
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

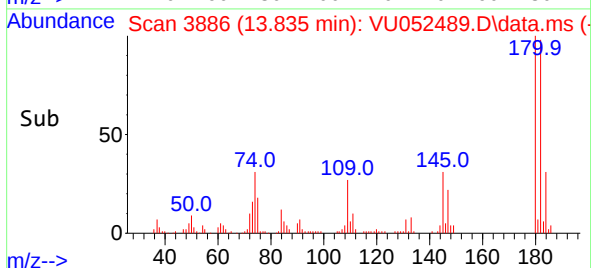
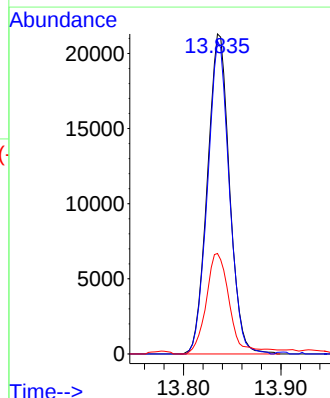
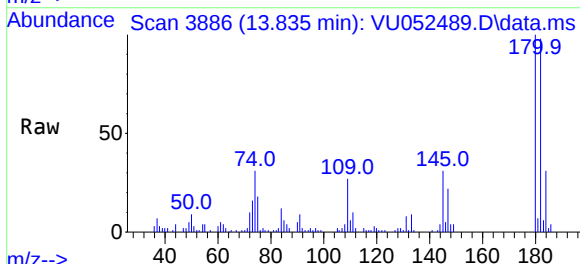
Instrument :
MSVOA_U
ClientSampleId :
GBQA9DL

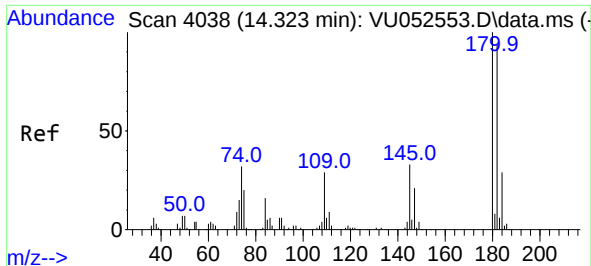
Tgt Ion:146 Resp: 20360
Ion Ratio Lower Upper
146 100
111 42.2 27.5 51.1
148 67.4 44.9 83.3



#70
1,2,4-trichlorobenzene
Concen: 1.580 ug/L
RT: 13.835 min Scan# 3886
Delta R.T. 0.000 min
Lab File: VU052489.D
Acq: 22 Dec 2022 14:18

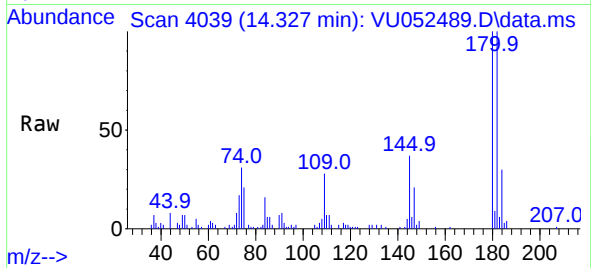
Tgt Ion:180 Resp: 33577
Ion Ratio Lower Upper
180 100
182 96.0 77.7 116.5
145 32.8 24.0 36.0





#72
 1,2,3-Trichlorobenzene
 Concen: 0.905 ug/L
 RT: 14.327 min Scan# 4038
 Delta R.T. 0.003 min
 Lab File: VU052489.D
 Acq: 22 Dec 2022 14:18

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQA9DL



Tgt Ion:180 Resp: 19271
 Ion Ratio Lower Upper
 180 100
 182 99.5 76.3 114.5
 145 39.7 25.8 38.8#

