

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051823\
 Data File : VU054191.D
 Acq On : 19 May 2023 02:31
 Operator : JC/MD
 Sample : 02844-21
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBX15

Quant Time: May 19 06:19:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051823WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri May 19 04:28:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	181718	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.410	117	173254	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	86928	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	43159	4.405	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	88.200%	
7) Chloroethane-d5	1.912	69	34269	4.676	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	93.600%	
11) 1,1-Dichloroethene-d2	2.565	65	20193	4.564	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	91.200%	
20) 2-Butanone-d5	4.629	46	90825	51.985	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	=	103.980%	
24) Chloroform-d	5.057	84	78084	4.239	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	84.800%	
26) 1,2-Dichloroethane-d4	5.697	65	39875	4.706	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	94.200%	
32) Benzene-d6	5.722	84	161328	4.572	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	91.400%	
36) 1,2-Dichloropropane-d6	6.690	67	49554	4.859	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	97.200%	
41) Toluene-d8	7.893	98	148079	4.445	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	88.800%	
43) trans-1,3-Dichloroprop...	8.176	79	18305	4.444	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	88.800%	
46) 2-Hexanone-d5	8.629	63	64142	52.301	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	104.600%	
56) 1,1,2,2-Tetrachloroeth...	10.751	84	34988	4.787	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	95.800%	
66) 1,2-Dichlorobenzene-d4	12.188	152	52947	4.991	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	99.800%	
Target Compounds						Qvalue
3) Chloromethane	1.520	50	1859	0.146	ug/L #	79
5) Vinyl chloride	1.604	62	25821	1.909	ug/L	90
12) 1,1-Dichloroethene	2.578	96	289762	26.052	ug/L #	83
17) Methyl tert-butyl Ether	3.359	73	7558	0.270	ug/L	99
18) trans-1,2-Dichloroethene	3.350	96	47333	4.184	ug/L	97
19) 1,1-Dichloroethane	3.867	63	3427	0.151	ug/L	96
22) cis-1,2-Dichloroethene	4.658	96	4399617	332.606	ug/L	97
27) 1,2-Dichloroethane	5.790	62	2314	0.164	ug/L #	90
30) Cyclohexane	5.385	56	4326	0.245	ug/L #	91
33) Benzene	5.767	78	17692	0.361	ug/L	100
35) Methylcyclohexane	6.558	83	483743	25.086	ug/L #	1
37) 1,2-Dichloropropane	6.690	63	5659	0.439	ug/L #	88
45) 1,1,2-Trichloroethane	8.394	97	7258	0.782	ug/L	98
47) Tetrachloroethene	8.549	164	42410	3.913	ug/L	99
49) Dibromochloromethane	8.545	129	40278	3.888	ug/L #	11
61) 1,2,3-Trichloropropane	11.806	75	9931	1.409	ug/L #	62

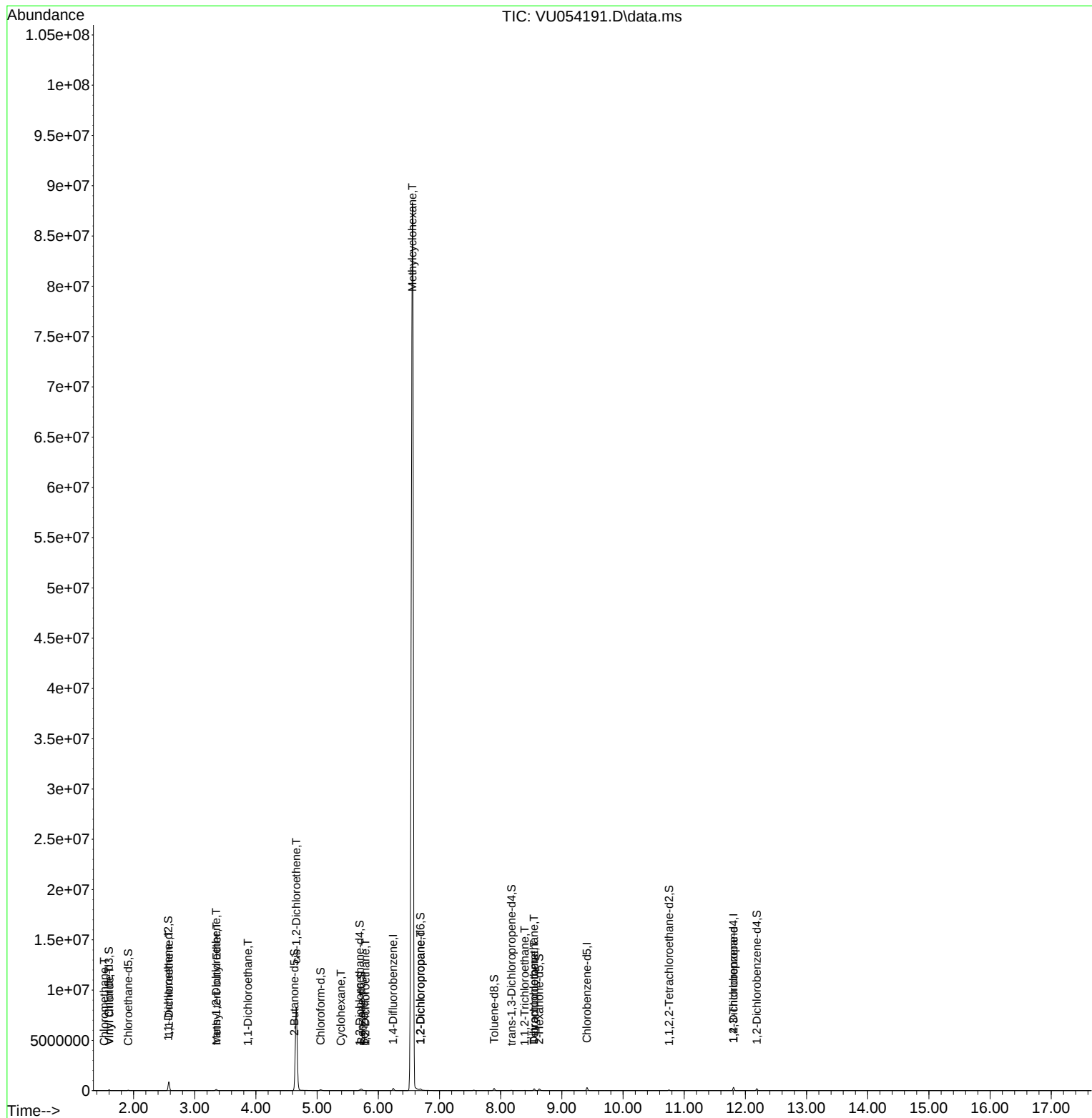
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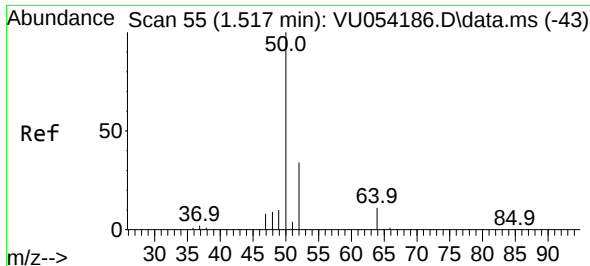
Instrument :
MSVOA_U
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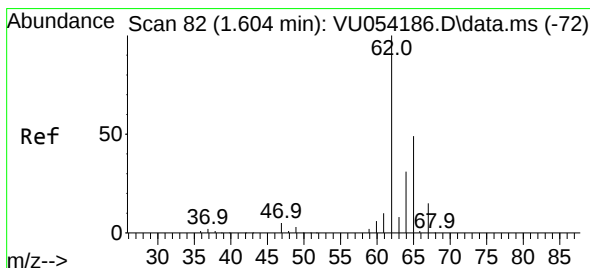
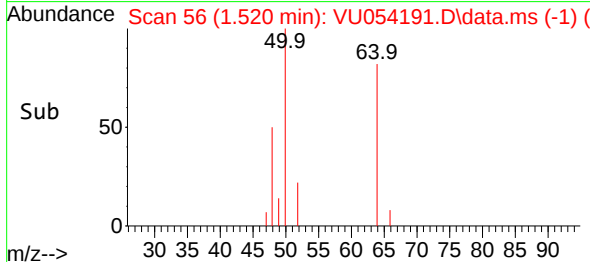
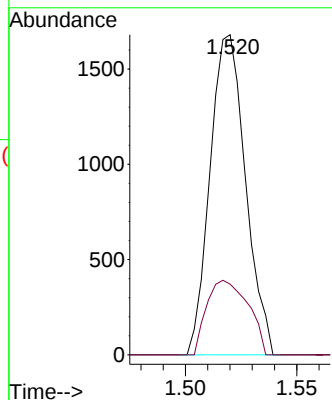
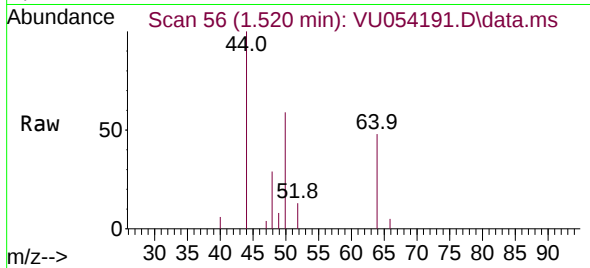




#3
Chloromethane
Concen: 0.146 ug/L
RT: 1.520 min Scan# 50
Delta R.T. 0.003 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

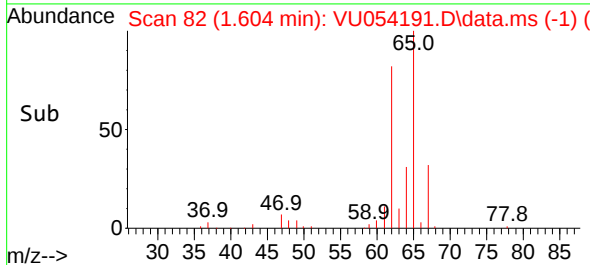
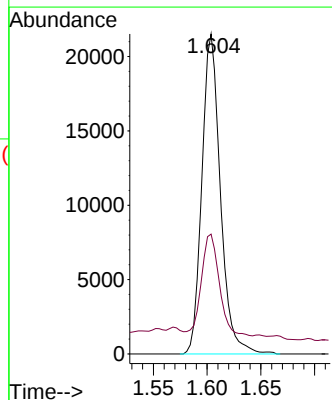
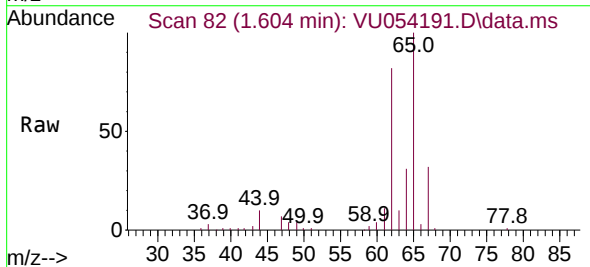
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MSVOA_U
ClientSampleId :
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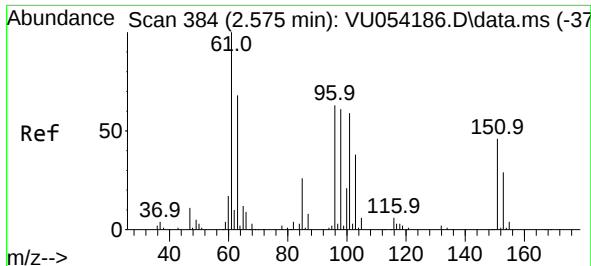
Tgt Ion: 50 Resp: 1859
Ion Ratio Lower Upper
50 100
52 22.1 23.7 44.1#



#5
Vinyl chloride
Concen: 1.909 ug/L
RT: 1.604 min Scan# 82
Delta R.T. -0.000 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

Tgt Ion: 62 Resp: 25821
Ion Ratio Lower Upper
62 100
64 37.5 22.4 41.6





#12

1,1-Dichloroethene

Concen: 26.052 ug/L

RT: 2.578 min Scan# 384

Delta R.T. 0.003 min

Lab File: VU054191.D

Acq: 19 May 2023 02:31

Instrument :

MSVOA_U

ClientSampleId :

GBX15

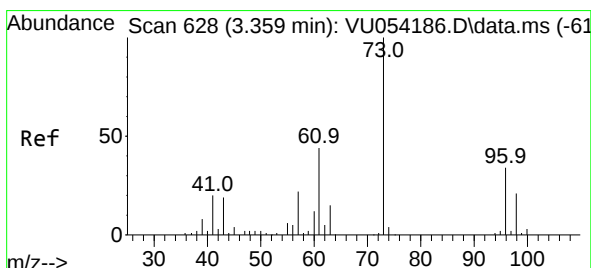
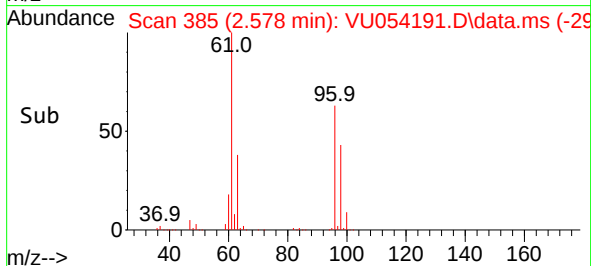
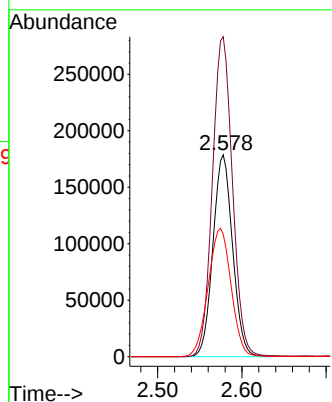
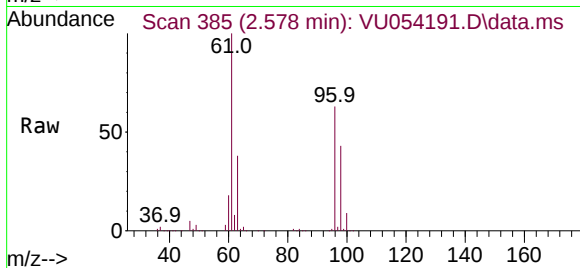
Tgt Ion: 96 Resp: 289762

Ion Ratio Lower Upper

96 100

61 158.4 114.7 212.9

63 60.6 68.6 127.4#



#17

Methyl tert-butyl Ether

Concen: 0.270 ug/L

RT: 3.359 min Scan# 628

Delta R.T. -0.000 min

Lab File: VU054191.D

Acq: 19 May 2023 02:31

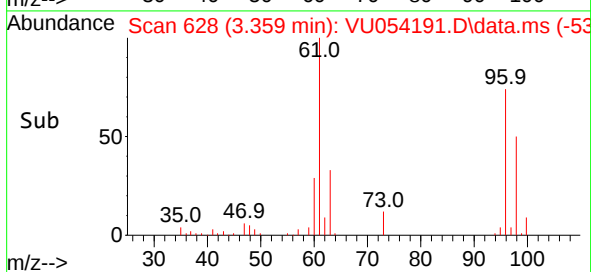
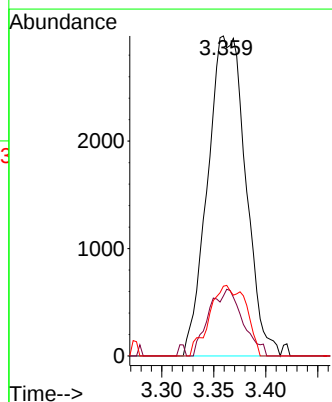
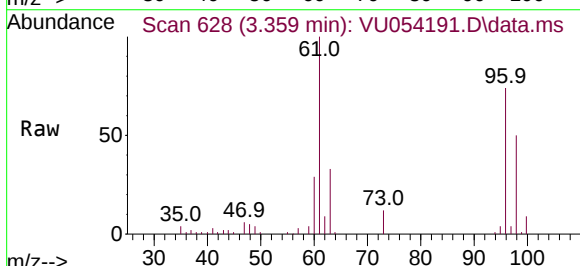
Tgt Ion: 73 Resp: 7558

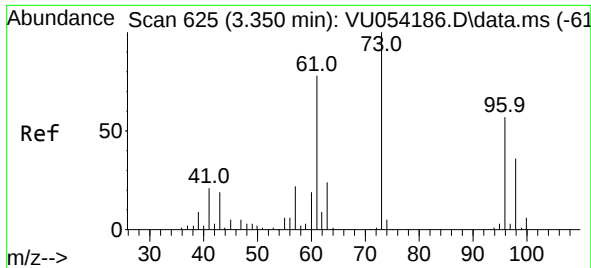
Ion Ratio Lower Upper

73 100

43 18.7 14.6 22.0

57 21.2 17.1 25.7

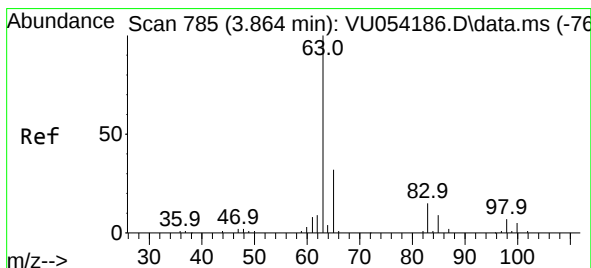
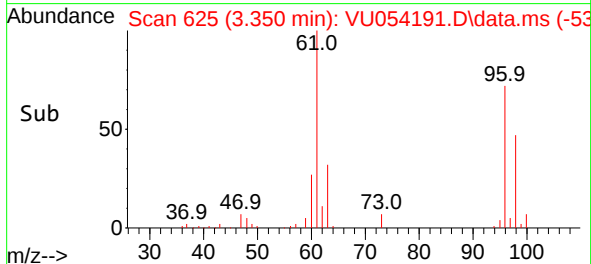
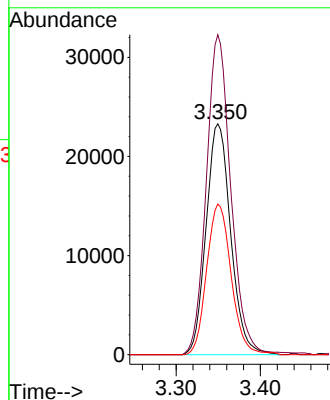
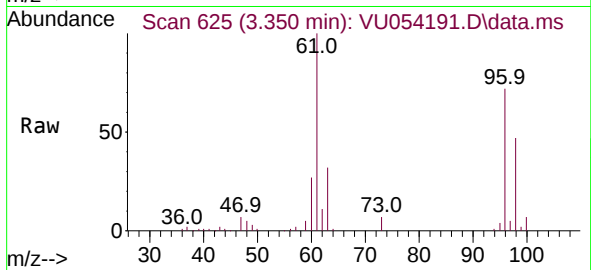




#18
trans-1,2-Dichloroethene
Concen: 4.184 ug/L
RT: 3.350 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

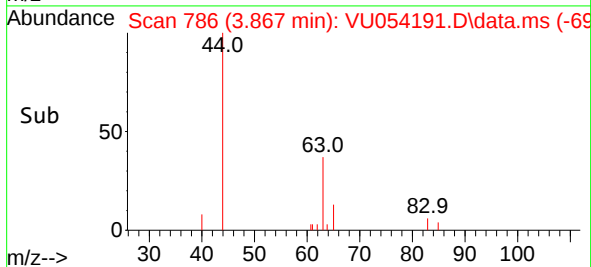
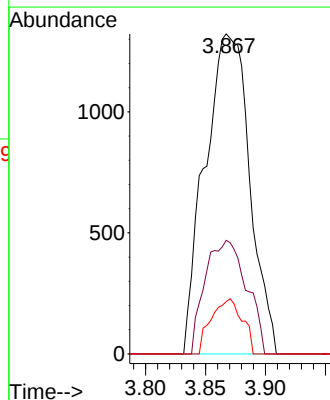
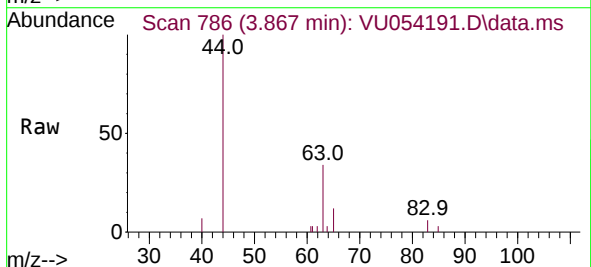
Instrument :
MSVOA_U
ClientSampleId :
GBX15

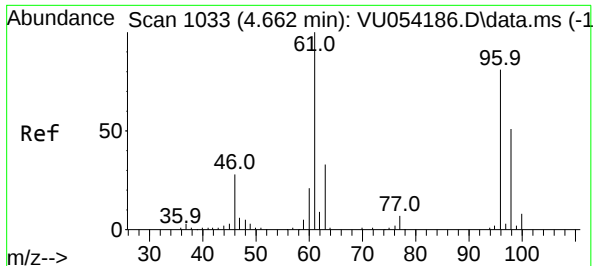
Tgt Ion: 96 Resp: 47333
Ion Ratio Lower Upper
96 100
61 138.6 94.1 174.8
98 65.2 45.3 84.1



#19
1,1-Dichloroethane
Concen: 0.151 ug/L
RT: 3.867 min Scan# 786
Delta R.T. 0.003 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

Tgt Ion: 63 Resp: 3427
Ion Ratio Lower Upper
63 100
65 32.5 20.7 38.5
83 14.9 10.1 18.7





#22

cis-1,2-Dichloroethene

Concen: 332.606 ug/L

RT: 4.658 min Scan# 1032

Delta R.T. -0.003 min

Lab File: VU054191.D

Acq: 19 May 2023 02:31

Instrument :

MSVOA_U

ClientSampleId :

GBX15

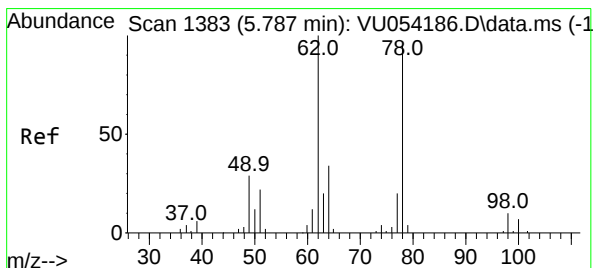
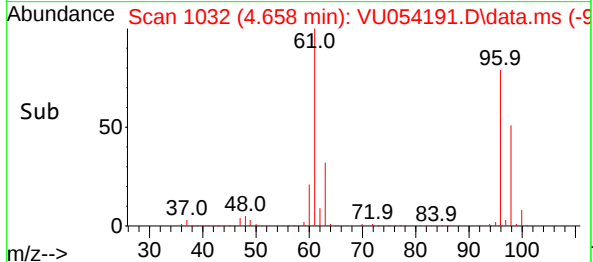
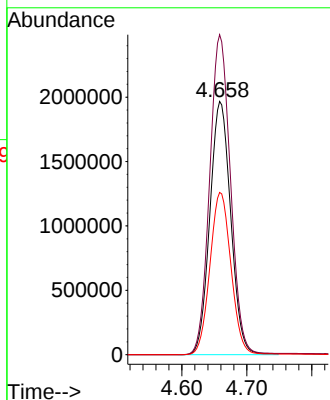
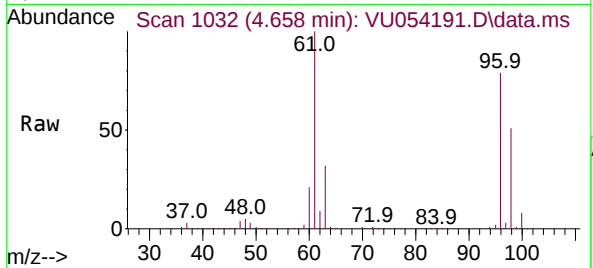
Tgt Ion: 96 Resp: 4399617

Ion Ratio Lower Upper

96 100

61 126.4 85.0 157.8

98 64.1 45.8 85.0



#27

1,2-Dichloroethane

Concen: 0.164 ug/L

RT: 5.790 min Scan# 1384

Delta R.T. 0.003 min

Lab File: VU054191.D

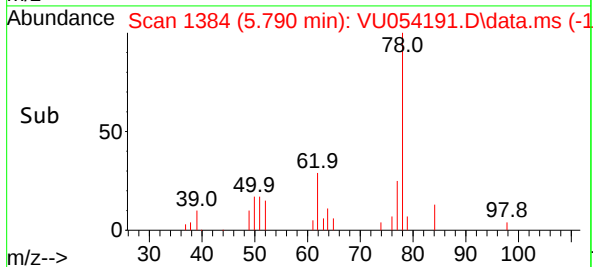
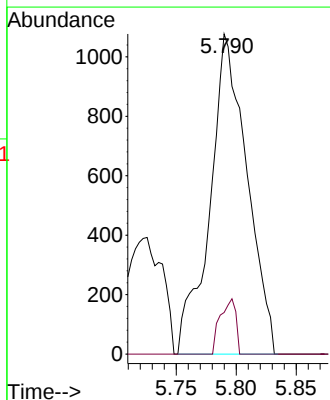
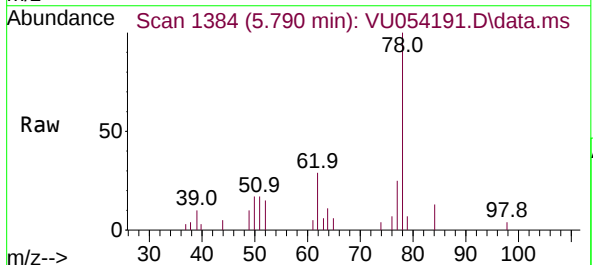
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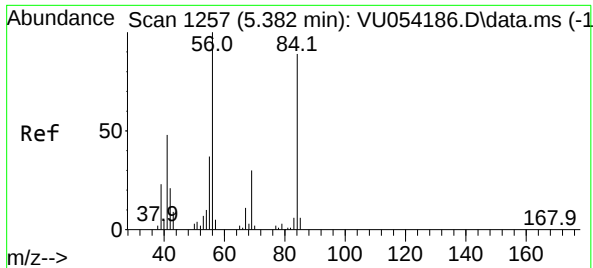
Tgt Ion: 62 Resp: 2314

Ion Ratio Lower Upper

62 100

98 13.0 7.6 11.4#

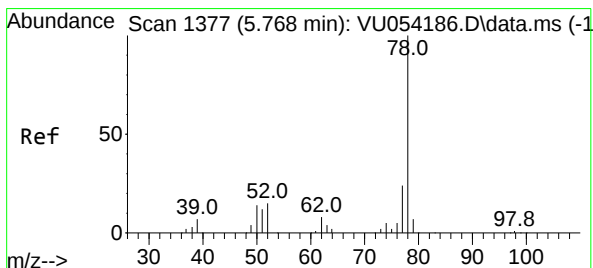
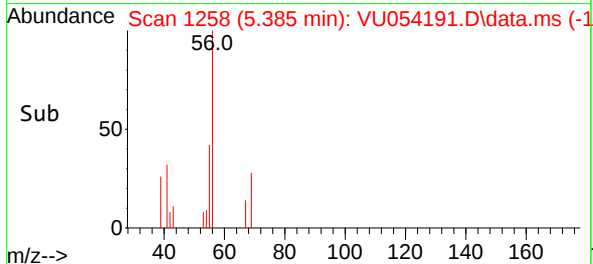
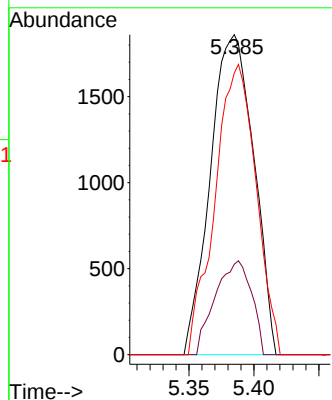
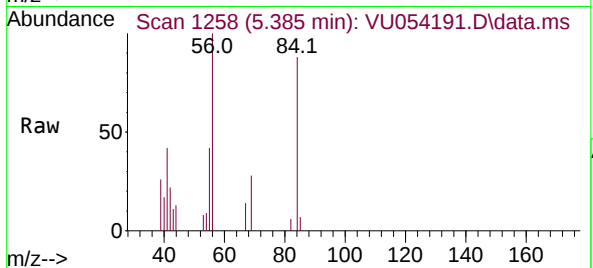




#30
Cyclohexane
Concen: 0.245 ug/L
RT: 5.385 min Scan# 1257
Delta R.T. 0.003 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

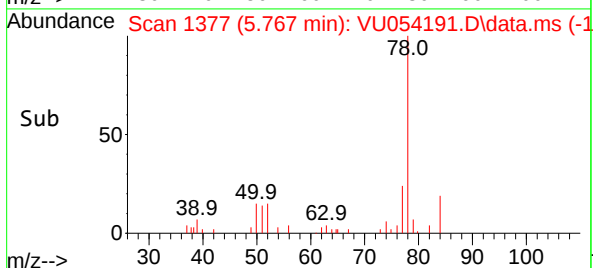
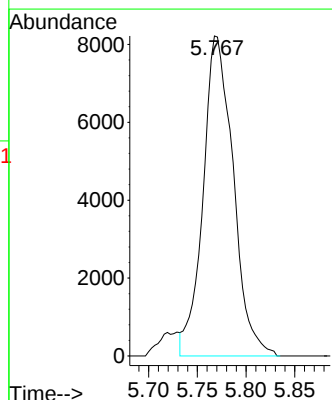
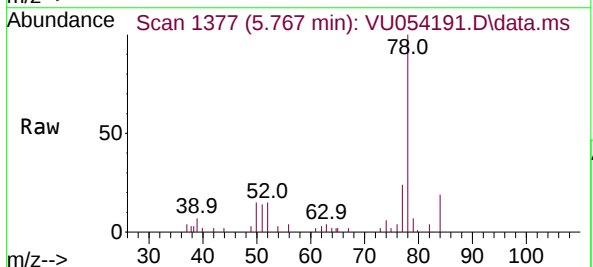
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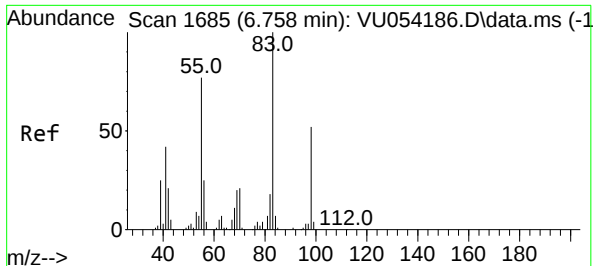
Tgt Ion: 56 Resp: 4326
Ion Ratio Lower Upper
56 100
69 24.5 26.2 39.4#
84 85.7 74.2 111.4



#33
Benzene
Concen: 0.361 ug/L
RT: 5.767 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

Tgt Ion: 78 Resp: 17692

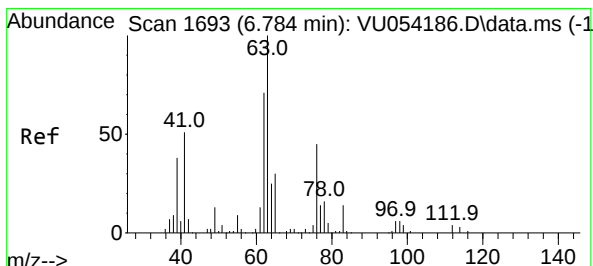
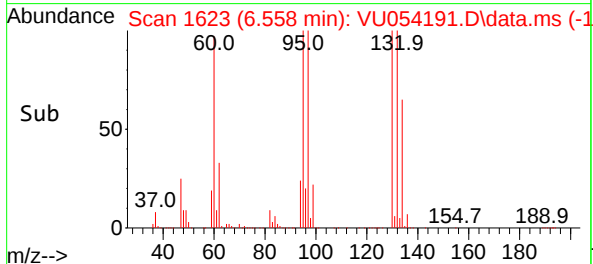
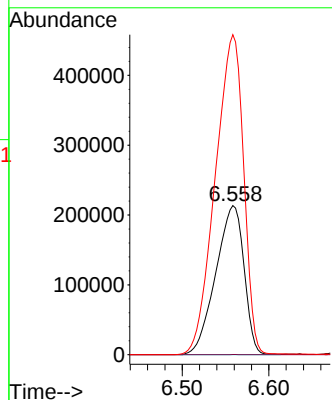
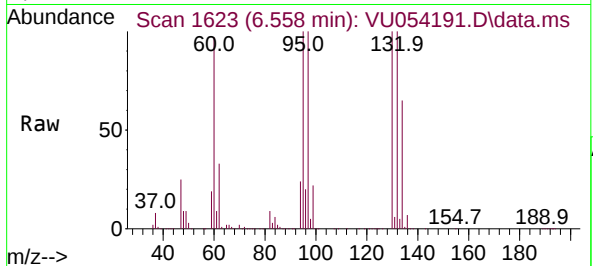




#35
Methylcyclohexane
Concen: 25.086 ug/L
RT: 6.558 min Scan# 1
Delta R.T. -0.200 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

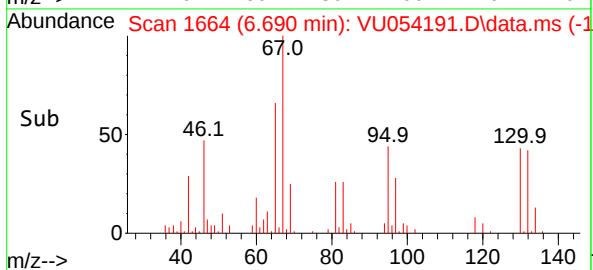
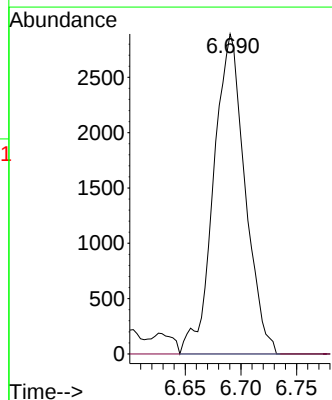
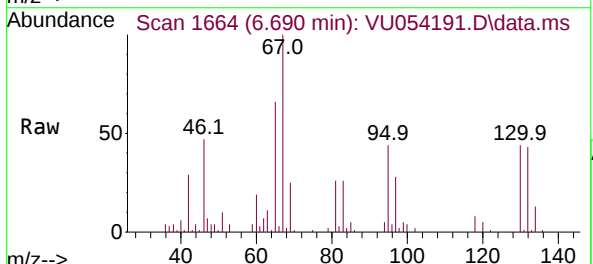
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MSVOA_U
ClientSampleId :
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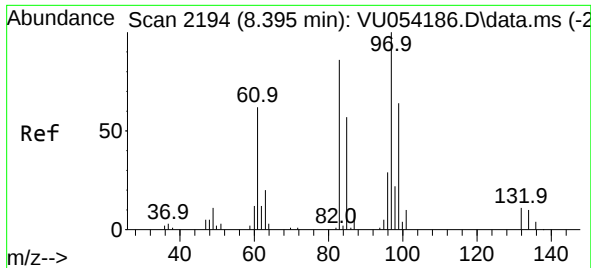
Tgt Ion: 83 Resp: 483743
Ion Ratio Lower Upper
83 100
55 0.0 61.6 92.4#
98 216.4 41.3 61.9#



#37
1,2-Dichloropropane
Concen: 0.439 ug/L
RT: 6.690 min Scan# 1664
Delta R.T. -0.093 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

Tgt Ion: 63 Resp: 5659
Ion Ratio Lower Upper
63 100
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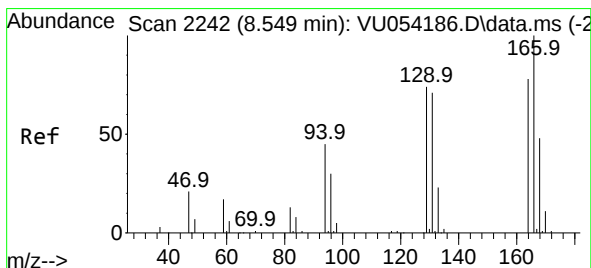
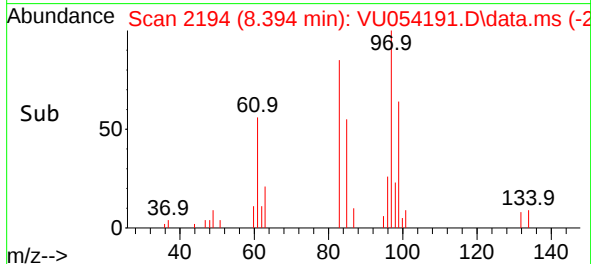
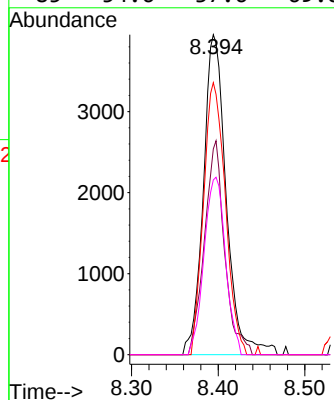
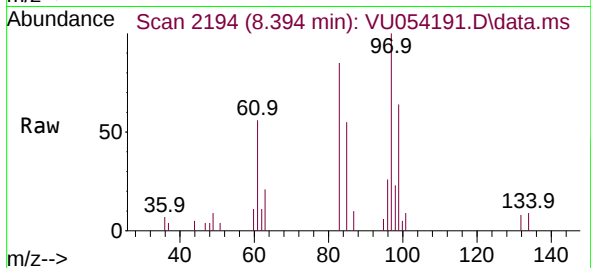




#45
1,1,2-Trichloroethane
Concen: 0.782 ug/L
RT: 8.394 min Scan# 2194
Delta R.T. -0.000 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

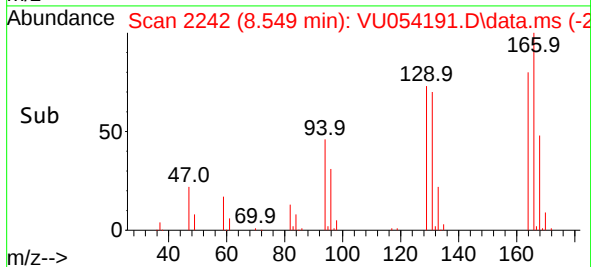
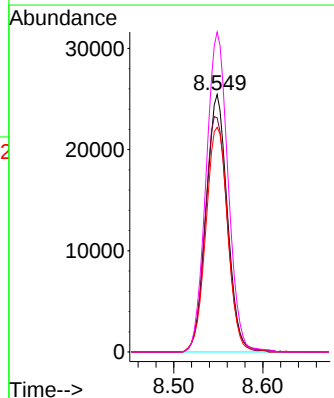
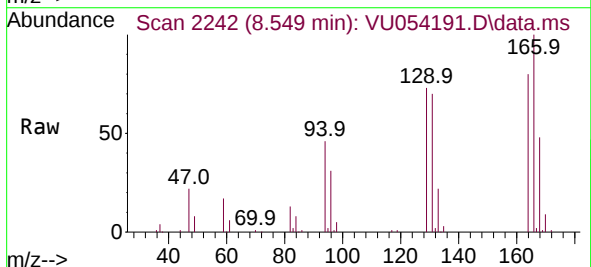
Instrument :
MSVOA_U
ClientSampleId :
GBX15

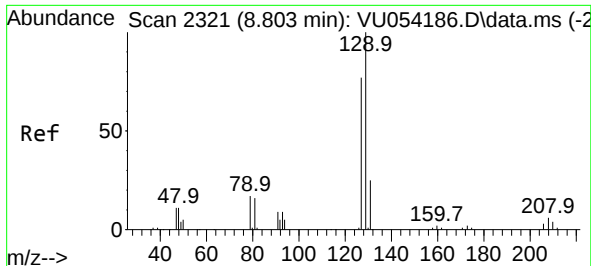
Tgt Ion:	97	Resp:	7258
Ion	Ratio	Lower	Upper
97	100		
99	64.3	43.0	79.8
83	85.0	59.1	109.9
85	54.6	37.6	69.8



#47
Tetrachloroethene
Concen: 3.913 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.000 min
Lab File: VU054191.D
Acq: 19 May 2023 02:31

Tgt Ion:	164	Resp:	42410
Ion	Ratio	Lower	Upper
164	100		
129	90.9	63.3	117.7
131	87.2	61.0	113.4
166	124.3	88.6	164.6





#49

Dibromochloromethane

Concen: 3.888 ug/L

RT: 8.545 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU054191.D

Acq: 19 May 2023 02:31

Instrument :

MSVOA_U

ClientSampleId :

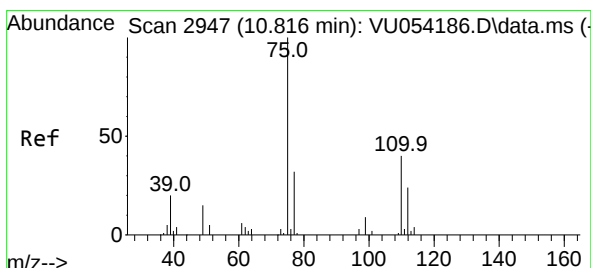
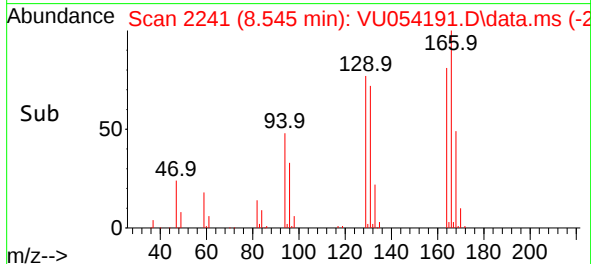
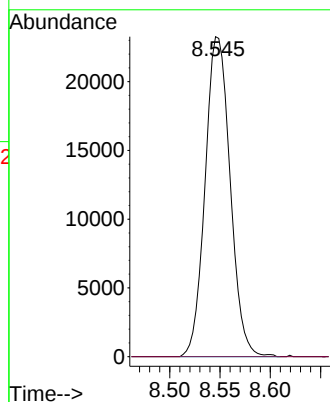
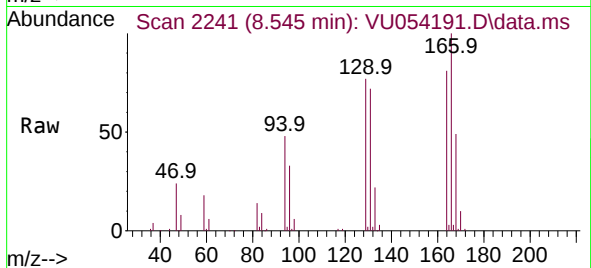
GBX15

Tgt Ion:129 Resp: 40278

Ion Ratio Lower Upper

129 100

127 0.0 53.6 99.6#



#61

1,2,3-Trichloropropane

Concen: 1.409 ug/L

RT: 11.806 min Scan# 3255

Delta R.T. 0.990 min

Lab File: VU054191.D

Acq: 19 May 2023 02:31

Tgt Ion: 75 Resp: 9931

Ion Ratio Lower Upper

75 100

110 2.3 32.3 48.5#

77 28.0 26.3 39.5

