

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042322\
 Data File : VU048242.D
 Acq On : 23 Apr 2022 13:40
 Operator : SY/MD
 Sample : N2486-18 50X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 25 01:25:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Apr 25 01:24:32 2022
 Response via : Initial Calibration

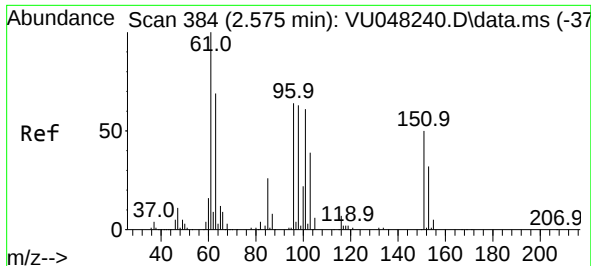
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	301370	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	311892	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	154528	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	104471	47.803	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	95.600%		
7) Chloroethane-d5	1.887	69	79641	46.217	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.440%		
11) 1,1-Dichloroethene-d2	2.559	63	129614	32.416	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	64.840%		
21) 2-Butanone-d5	4.623	46	165247	88.094	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	88.090%		
24) Chloroform-d	5.063	84	176004	44.015	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	88.020%		
26) 1,2-Dichloroethane-d4	5.700	65	112261	45.774	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.540%		
32) Benzene-d6	5.726	84	373193	47.552	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.100%		
36) 1,2-Dichloropropane-d6	6.690	67	122421	50.793	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	101.580%		
41) Toluene-d8	7.899	98	310080	40.553	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	81.100%		
43) trans-1,3-Dichloroprop...	8.179	79	46530	38.106	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	76.220%		
47) 2-Hexanone-d5	8.639	63	120299	85.261	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	85.260%		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	199844	48.314	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	96.620%		
66) 1,2-Dichlorobenzene-d4	12.195	152	142541	51.848	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	103.700%		
Target Compounds						Qvalue
10) 1,1,2-Trichloro-1,2,2-...	2.559	101	1105	0.497	ug/L #	18
12) 1,1-Dichloroethene	2.565	96	911	0.441	ug/L #	1
16) Methylene chloride	3.041	84	2662	1.122	ug/L	86
35) Methylcyclohexane	6.690	83	27834	7.730	ug/L #	21
37) 1,2-Dichloropropane	6.690	63	12384	5.396	ug/L #	87
39) cis-1,3-Dichloropropene	7.565	75	2425	0.681	ug/L #	51
51) Chlorobenzene	9.449	112	265075	39.411	ug/L	98
64) 1,3-Dichlorobenzene	11.748	146	18890	4.069	ug/L	98
65) 1,4-Dichlorobenzene	11.838	146	71140	14.796	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	733859	158.000	ug/L	100
69) 1,3,5-Trichlorobenzene	13.841	180	52547	13.938	ug/L	99
70) 1,2,4-trichlorobenzene	13.841	180	52547	15.913	ug/L	99
72) 1,2,3-Trichlorobenzene	14.333	180	9616	2.905	ug/L	96

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

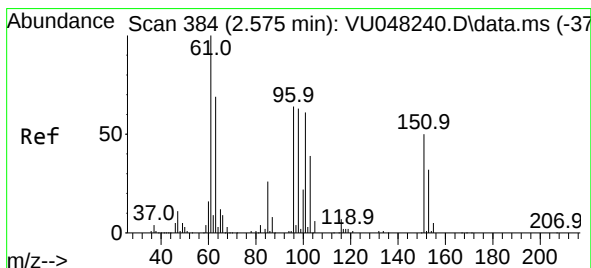
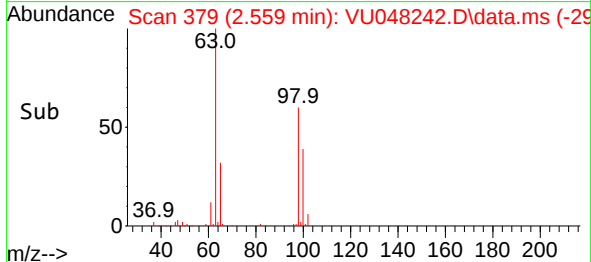
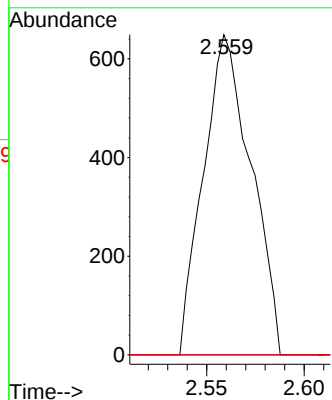
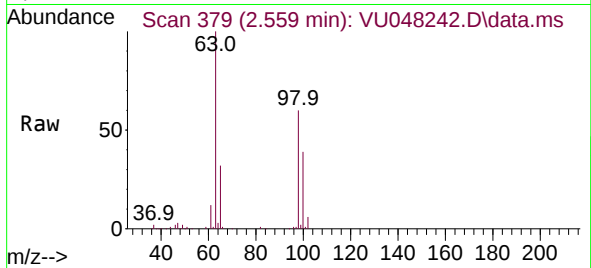
The chromatogram displays abundance on the y-axis (ranging from 0 to 2,100,000) against time in minutes on the x-axis (ranging from 0.00 to 17.00). The following table lists the labeled compounds and their approximate retention times:

Compound	Retention Time (min)
Vinyl Chloride-d3,S	1.5
Chloroethane-d5,S	1.8
1,1,1-Trichloroethane-d3,I	2.5
1,1,2,2-Tetrafluoroethane,T	2.8
Methylene chloride,T	3.2
2-Butanone-d5,S	4.8
Chloroform-d,S	5.2
1,2-Dichloroethane-d4,S	5.8
1,3-Difluorobenzene,I	6.2
1,2-Dichloropropane-d6,S	6.8
cis-1,3-Dichloropropene,T	7.8
Toluene-d8,S	8.2
trans-1,3-Dichloropropene-d4,S	8.5
2-Hexanone-d5,S	8.8
Chlorobenzene-d5,I	9.5
1,1,2,2-Tetrachloroethane-d2,S	10.8
1,3-Dichlorobenzene,T	11.8
1,4-Dichlorobenzene-d4,I	12.2
1,2-Dichlorobenzene,T	12.5
1,3,5-Trichlorobenzene,T	13.8
1,2,3-Trichlorobenzene,T	14.2



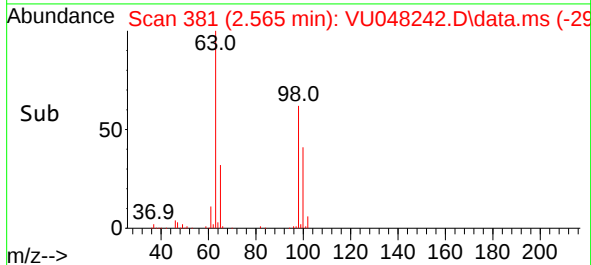
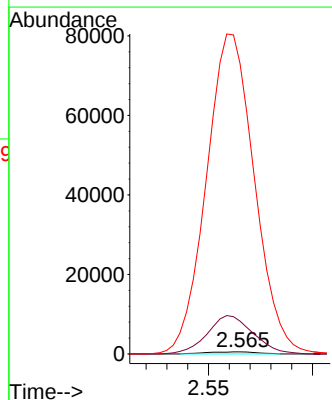
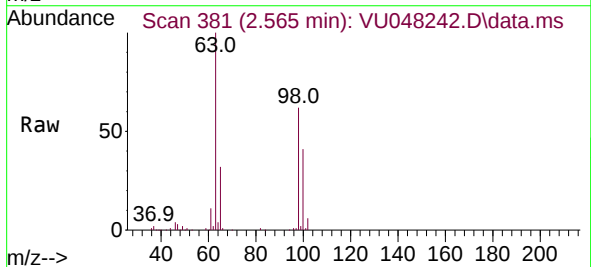
#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.497 ug/L
RT: 2.559 min Scan# 379
Delta R.T. -0.016 min
Lab File: VU048242.D
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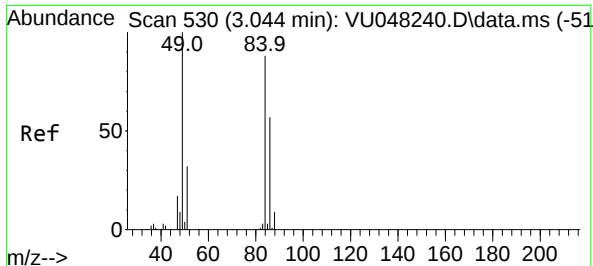
Tgt Ion:101 Resp: 1105
Ion Ratio Lower Upper
101 100
85 0.0 32.8 49.2#
151 0.0 63.0 94.6#



#12
1,1-Dichloroethene
Concen: 0.441 ug/L
RT: 2.565 min Scan# 381
Delta R.T. -0.010 min
Lab File: VU048242.D
Acq: 23 Apr 2022 13:40

Tgt Ion: 96 Resp: 911
Ion Ratio Lower Upper
96 100
61 1525.6 113.1 210.1#
63 13479.0 94.8 176.0#

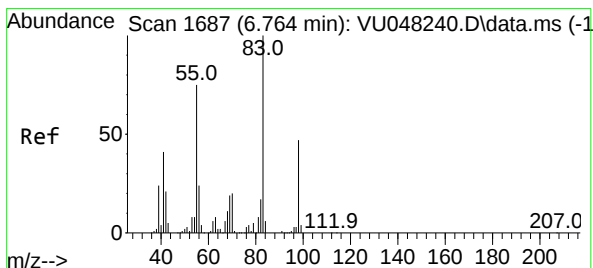
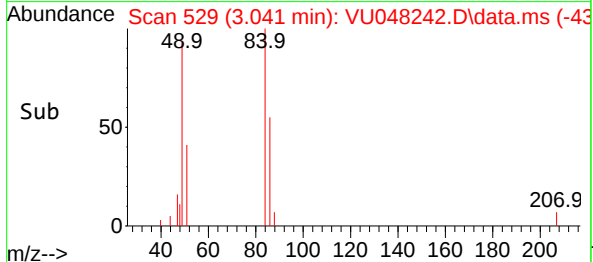
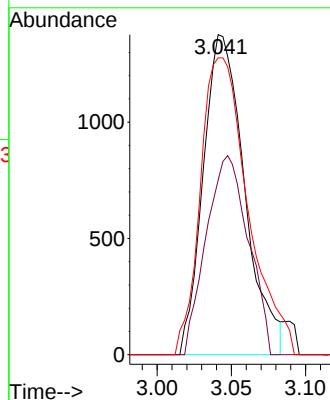
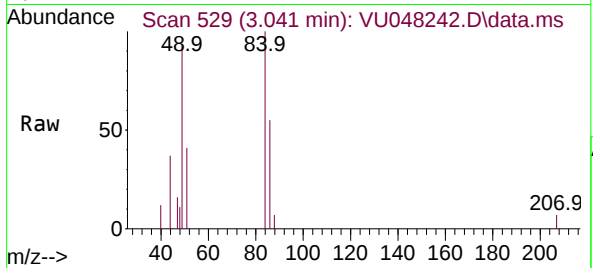




#16
Methylene chloride
Concen: 1.122 ug/L
RT: 3.041 min Scan# 529
Delta R.T. -0.003 min
Lab File: VU048242.D
Acq: 23 Apr 2022 13:40

Tgt Ion: 84 Resp: 2662

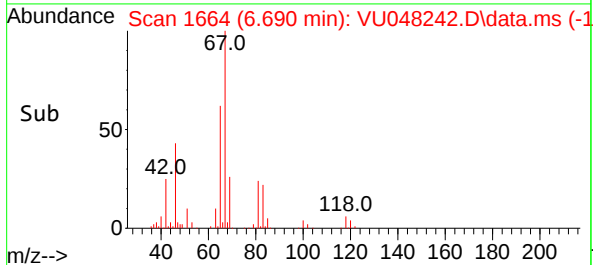
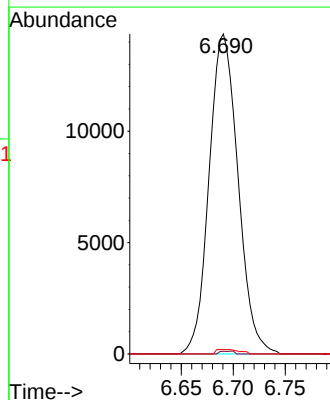
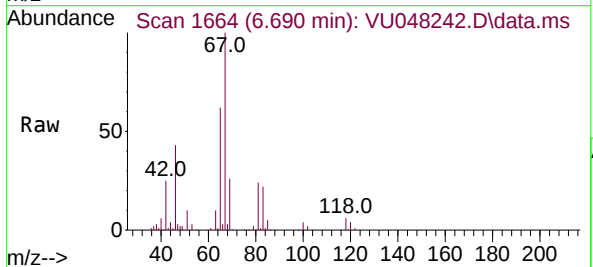
Ion	Ratio	Lower	Upper
84	100		
86	54.5	46.0	85.4
49	92.7	75.3	139.8

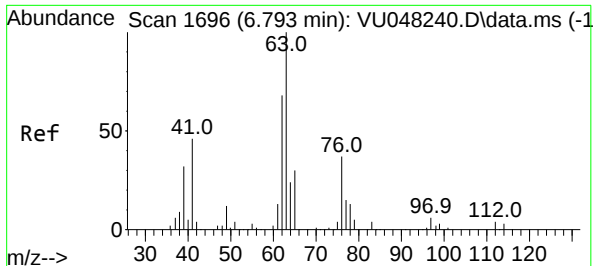


#35
Methylcyclohexane
Concen: 7.730 ug/L
RT: 6.690 min Scan# 1664
Delta R.T. -0.074 min
Lab File: VU048242.D
Acq: 23 Apr 2022 13:40

Tgt Ion: 83 Resp: 27834

Ion	Ratio	Lower	Upper
83	100		
55	0.2	56.8	85.2#
98	0.4	38.1	57.1#





#37

1,2-Dichloropropane

Concen: 5.396 ug/L

RT: 6.690 min Scan# 1664

Delta R.T. -0.103 min

Lab File: VU048242.D

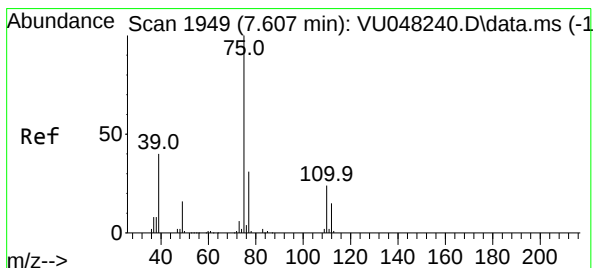
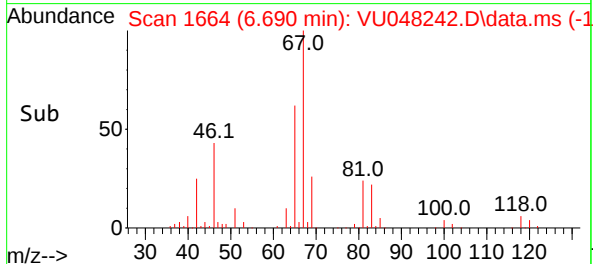
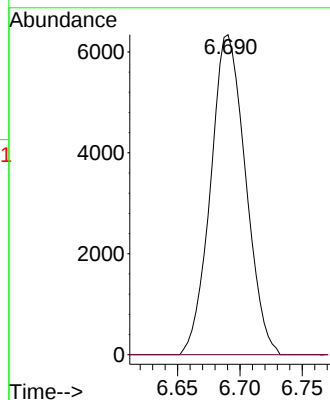
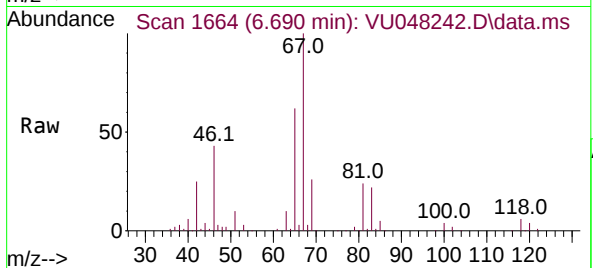
Acq: 23 Apr 2022 13:40

Tgt Ion: 63 Resp: 12384

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#



#39

cis-1,3-Dichloropropene

Concen: 0.681 ug/L

RT: 7.565 min Scan# 1936

Delta R.T. -0.042 min

Lab File: VU048242.D

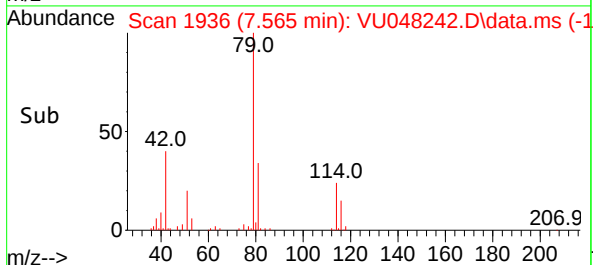
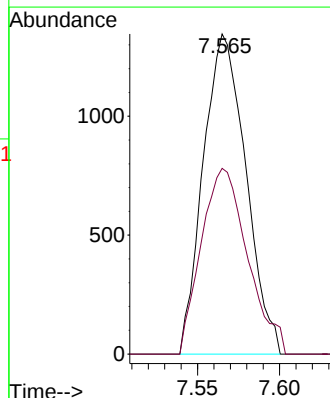
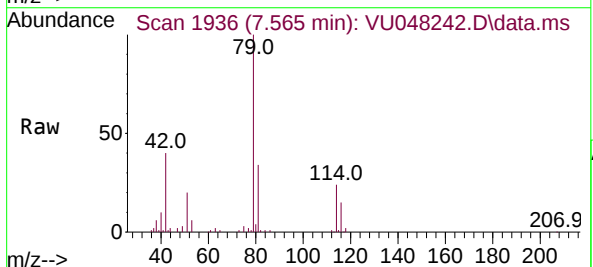
Acq: 23 Apr 2022 13:40

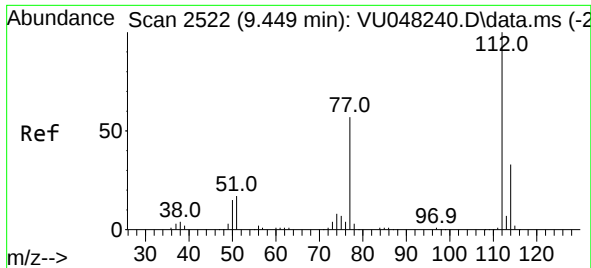
Tgt Ion: 75 Resp: 2425

Ion Ratio Lower Upper

75 100

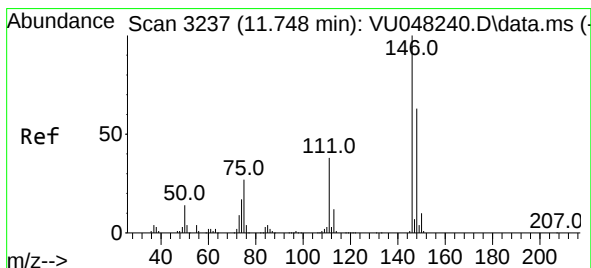
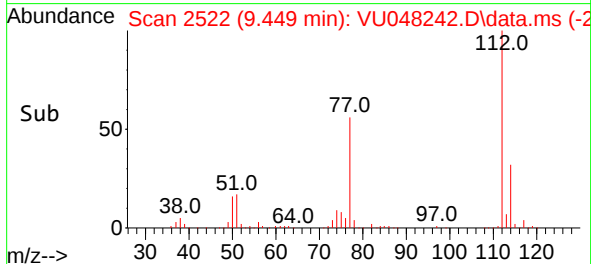
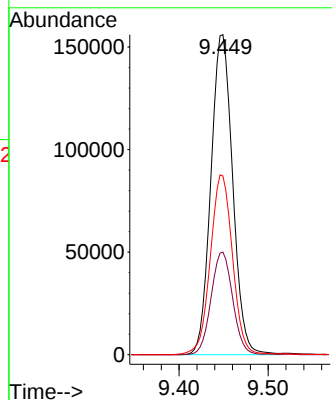
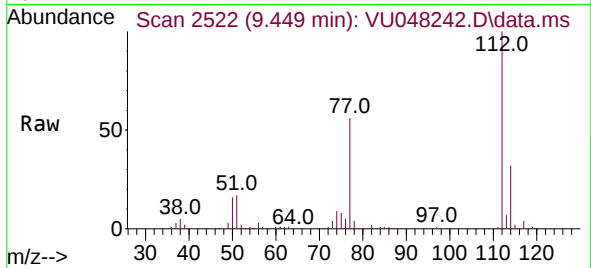
77 58.0 21.8 40.6#





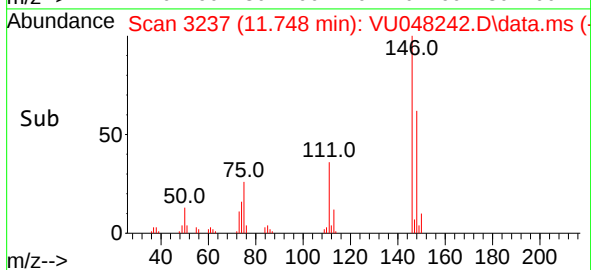
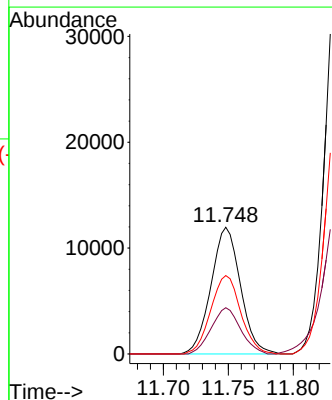
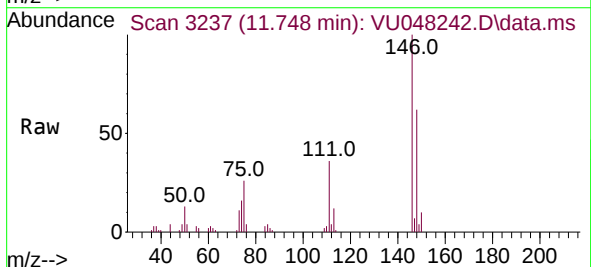
#51
Chlorobenzene
Concen: 39.411 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU048242.D
Acq: 23 Apr 2022 13:40

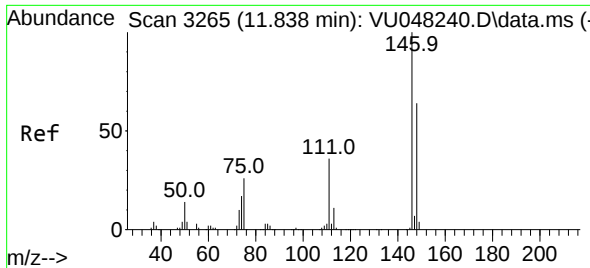
Tgt Ion:112 Resp: 265075
Ion Ratio Lower Upper
112 100
114 32.1 22.1 41.1
77 55.9 43.4 65.0



#64
1,3-Dichlorobenzene
Concen: 4.069 ug/L
RT: 11.748 min Scan# 3237
Delta R.T. 0.000 min
Lab File: VU048242.D
Acq: 23 Apr 2022 13:40

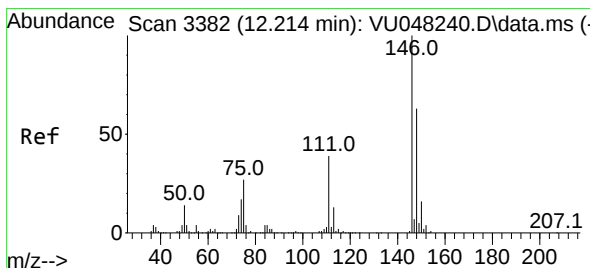
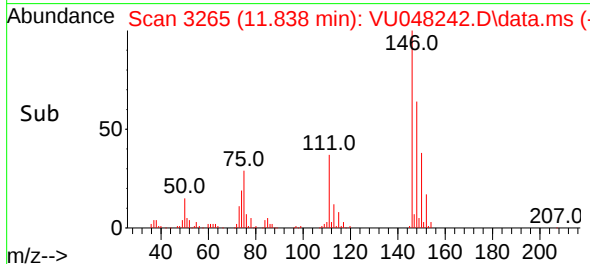
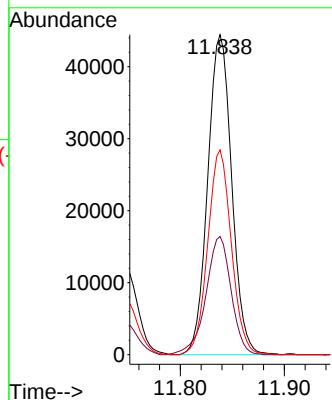
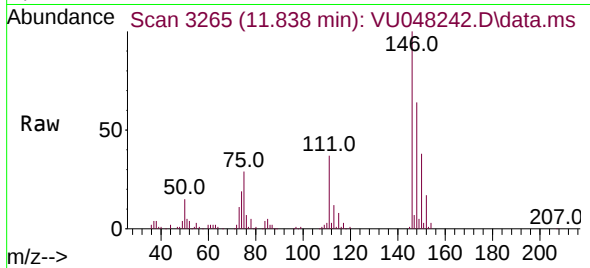
Tgt Ion:146 Resp: 18890
Ion Ratio Lower Upper
146 100
111 36.5 26.7 49.7
148 61.9 44.4 82.5





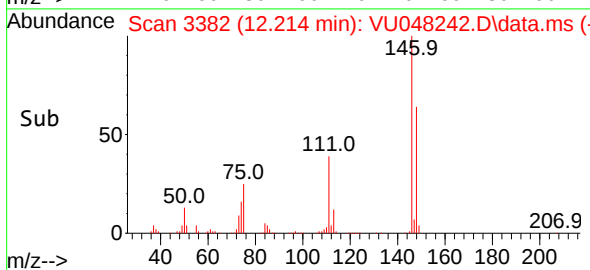
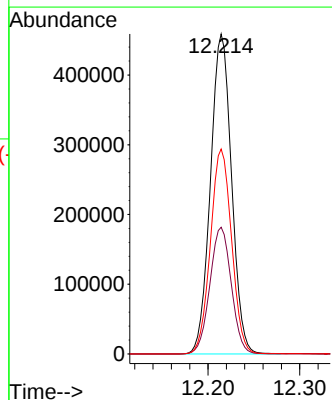
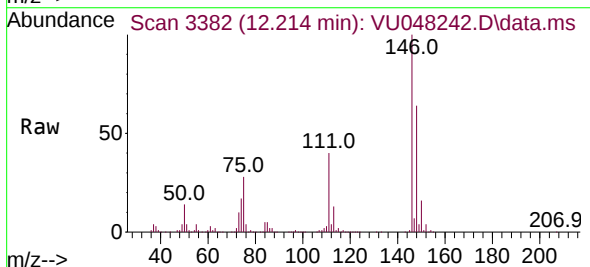
#65
1,4-Dichlorobenzene
Concen: 14.796 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU048242.D
Acq: 23 Apr 2022 13:40

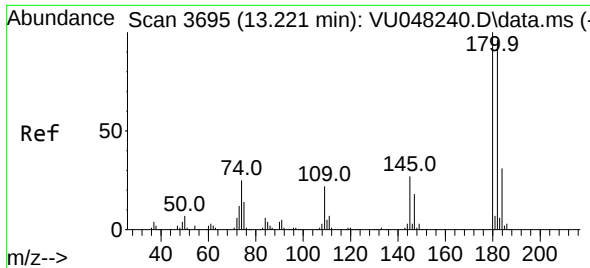
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	25.3	47.1
148	64.0	44.5	82.7



#67
1,2-Dichlorobenzene
Concen: 158.000 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.000 min
Lab File: VU048242.D
Acq: 23 Apr 2022 13:40

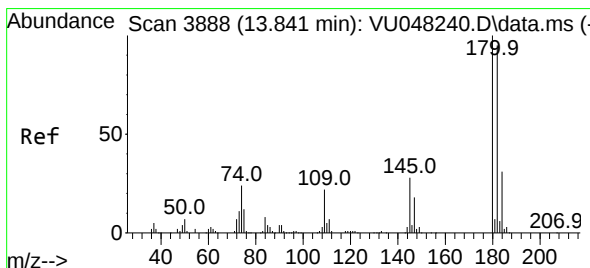
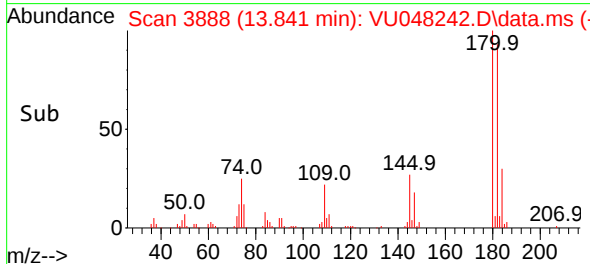
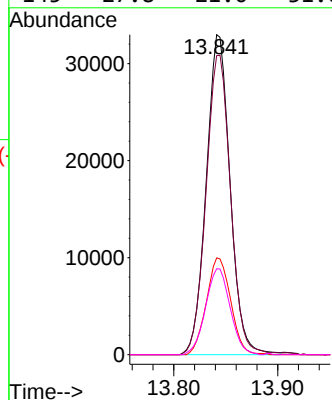
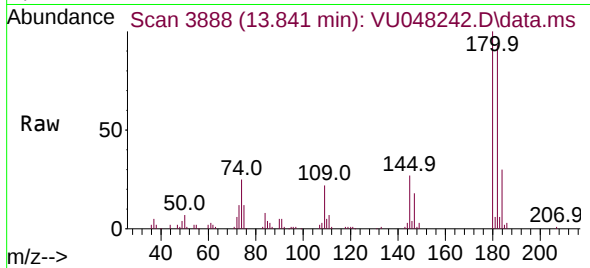
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	31.7	47.5
148	64.1	51.4	77.2





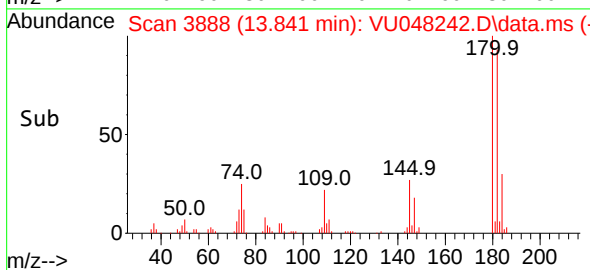
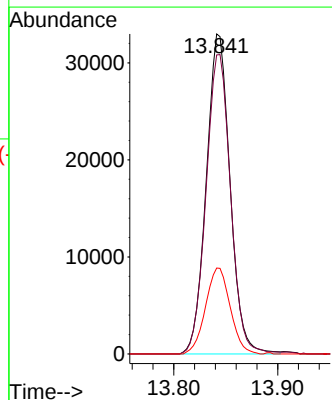
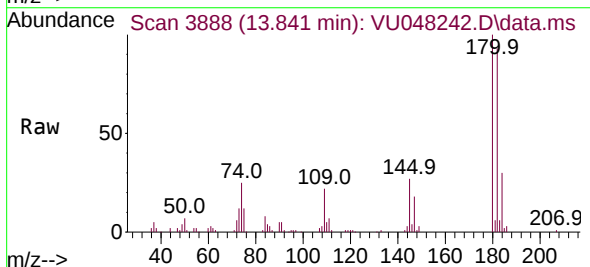
#69
 1,3,5-Trichlorobenzene
 Concen: 13.938 ug/L
 RT: 13.841 min Scan# 3888
 Delta R.T. 0.621 min
 Lab File: VU048242.D
 Acq: 23 Apr 2022 13:40

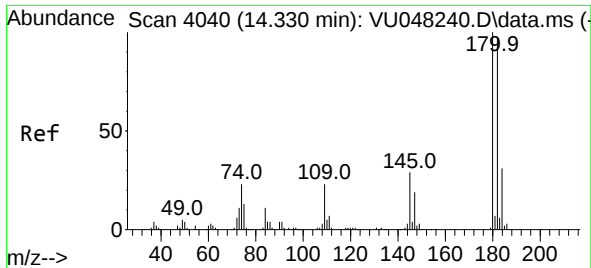
Tgt Ion:	180	Resp:	52547
Ion Ratio	Lower	Upper	
180	100		
182	96.1	77.0	115.6
184	30.8	24.5	36.7
145	27.8	21.0	31.6



#70
 1,2,4-trichlorobenzene
 Concen: 15.913 ug/L
 RT: 13.841 min Scan# 3888
 Delta R.T. 0.000 min
 Lab File: VU048242.D
 Acq: 23 Apr 2022 13:40

Tgt Ion:	180	Resp:	52547
Ion Ratio	Lower	Upper	
180	100		
182	96.1	76.2	114.2
145	27.8	21.8	32.8





#72
 1,2,3-Trichlorobenzene
 Concen: 2.905 ug/L
 RT: 14.333 min Scan# 4041
 Delta R.T. 0.003 min
 Lab File: VU048242.D
 Acq: 23 Apr 2022 13:40

Tgt Ion:	180	Resp:	9616
Ion Ratio	Lower	Upper	
180	100		
182	92.4	77.4	116.0
145	28.2	22.8	34.2

