

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU031422\
 Data File : VU047541.D
 Acq On : 14 Mar 2022 17:44
 Operator : SY/MD
 Sample : VU0314WBL02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK080

Quant Time: Mar 15 05:39:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR031422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Mar 15 05:33:43 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	146891	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	142774	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	75387	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	38548	4.013	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.200%
7) Chloroethane-d5	1.919	69	38621	4.430	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.600%
11) 1,1-Dichloroethene-d2	2.572	65	17486	3.881	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.600%
20) 2-Butanone-d5	4.645	46	142417	51.524	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.040%
24) Chloroform-d	5.067	84	92957	4.407	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.200%
26) 1,2-Dichloroethane-d4	5.707	65	53968	4.721	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.400%
32) Benzene-d6	5.729	84	182592	4.393	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.800%
36) 1,2-Dichloropropane-d6	6.694	67	62076	4.749	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.000%
41) Toluene-d8	7.899	98	157073	4.031	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.600%
43) trans-1,3-Dichloroprop...	8.182	79	24923	4.536	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.800%
46) 2-Hexanone-d5	8.639	63	143591	50.411	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.820%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	61234	4.691	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.800%
66) 1,2-Dichlorobenzene-d4	12.195	152	71616	4.546	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.530	50	179	0.020	ug/L #	42
5) Vinyl chloride	1.607	62	170	0.019	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	541	0.072	ug/L #	18
12) 1,1-Dichloroethene	2.572	96	456	0.062	ug/L #	1
13) Acetone	2.671	43	40	0.037	ug/L #	40
14) Carbon disulfide	2.803	76	281	0.013	ug/L #	74
16) Methylene chloride	3.057	84	1052	0.097	ug/L	92
21) 2-Butanone	4.719	43	258	0.126	ug/L #	45
25) Chloroform	5.080	83	415	0.027	ug/L #	1
27) 1,2-Dichloroethane	5.726	62	946	0.097	ug/L #	74
33) Benzene	5.729	78	1526	0.047	ug/L	100
35) Methylcyclohexane	6.694	83	14319	1.164	ug/L #	20
37) 1,2-Dichloropropane	6.694	63	6542	0.791	ug/L #	87
39) cis-1,3-Dichloropropene	7.568	75	1628	0.127	ug/L #	65
40) 4-Methyl-2-pentanone	7.800	43	1187	0.206	ug/L #	74
42) Toluene	7.964	91	224	0.006	ug/L #	22
44) trans-1,3-Dichloropropene	8.182	75	1024	0.089	ug/L	88
48) 2-Hexanone	8.636	43	19641	4.478	ug/L #	63
51) Chlorobenzene	9.449	112	96	0.004	ug/L #	66

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

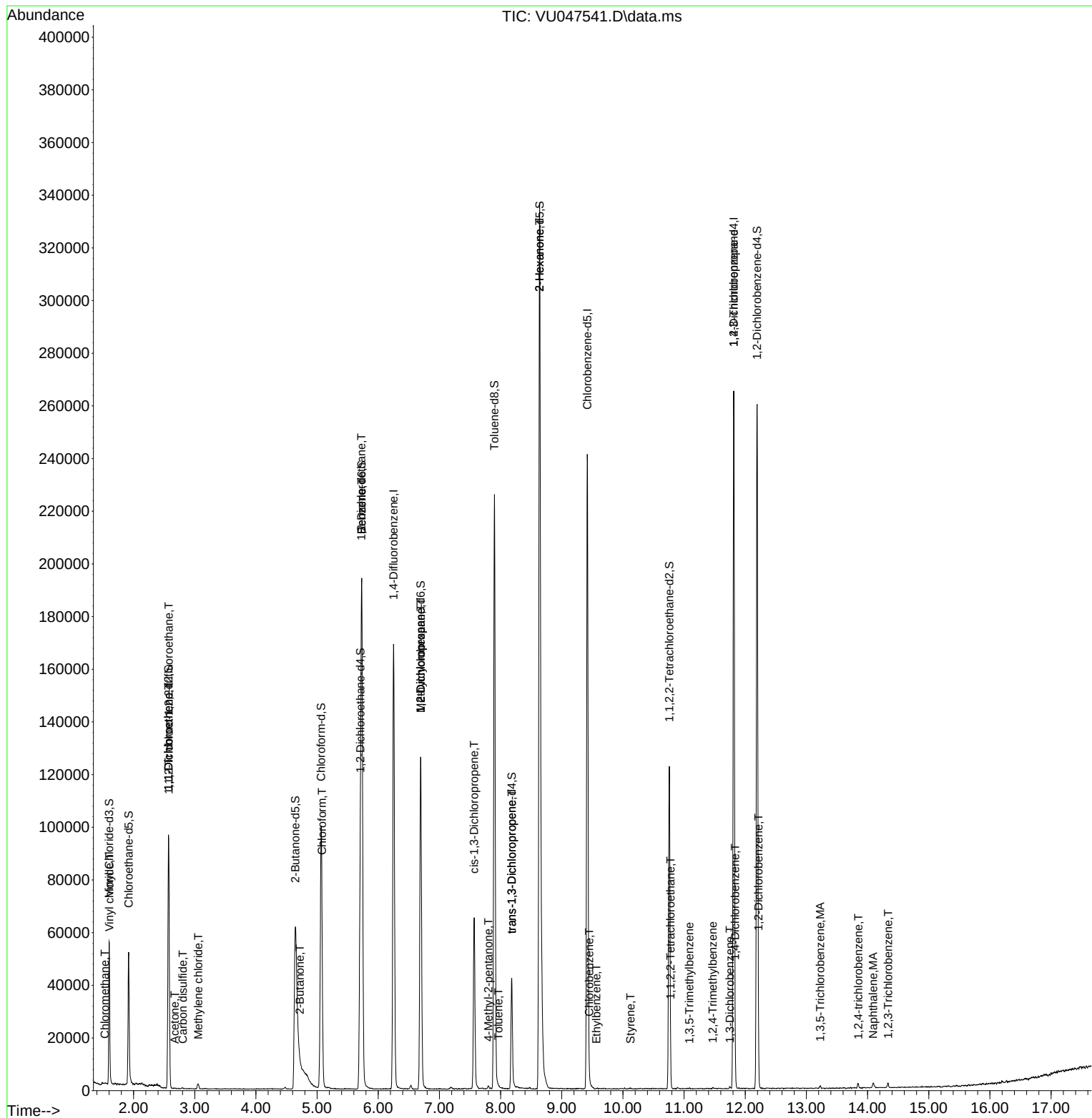
52) Ethylbenzene	9.565	91	123	0.003	ug/L	#	43
55) Styrene	10.124	104	147	0.006	ug/L	#	32
57) 1,1,2,2-Tetrachloroethane	10.780	83	109	0.011	ug/L	#	24
61) 1,2,3-Trichloropropane	11.812	75	7874	1.245	ug/L	#	66
62) 1,3,5-Trimethylbenzene	11.086	105	259	0.012	ug/L	#	27
63) 1,2,4-Trimethylbenzene	11.468	105	442	0.016	ug/L	#	67
64) 1,3-Dichlorobenzene	11.751	146	360	0.019	ug/L		95
65) 1,4-Dichlorobenzene	11.835	146	420	0.022	ug/L		94
67) 1,2-Dichlorobenzene	12.214	146	408	0.022	ug/L	#	46
69) 1,3,5-Trichlorobenzene	13.227	180	568	0.035	ug/L	#	79
70) 1,2,4-trichlorobenzene	13.848	180	833	0.059	ug/L	#	91
71) Naphthalene	14.092	128	2594	0.099	ug/L	#	89
72) 1,2,3-Trichlorobenzene	14.336	180	873	0.064	ug/L	#	88

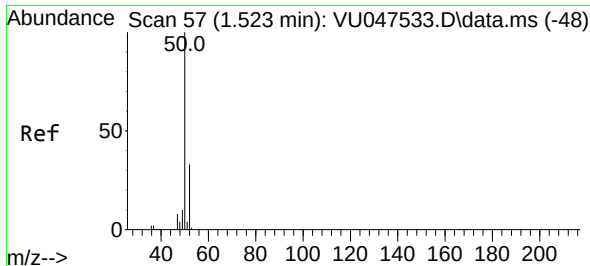
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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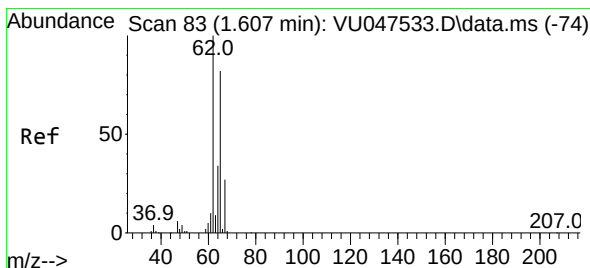
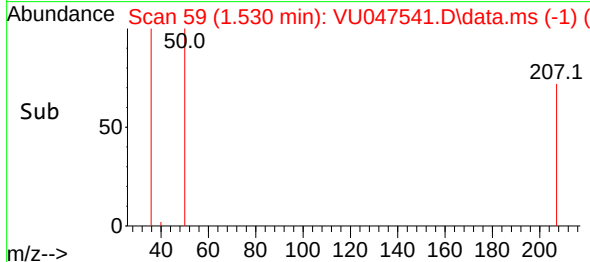
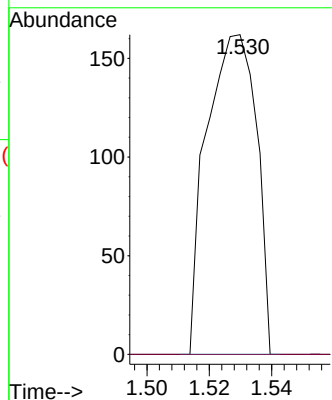
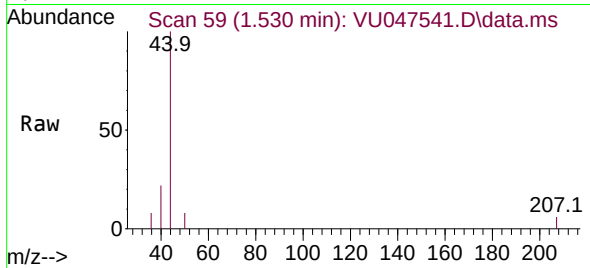




#3
Chloromethane
Concen: 0.020 ug/L
RT: 1.530 min Scan# 51
Delta R.T. 0.007 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

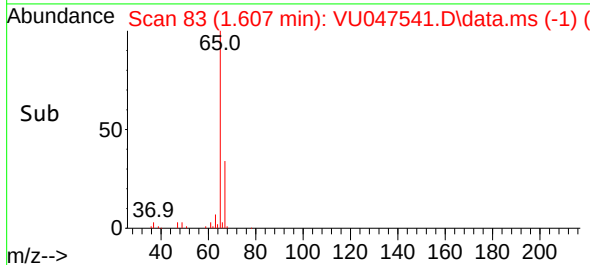
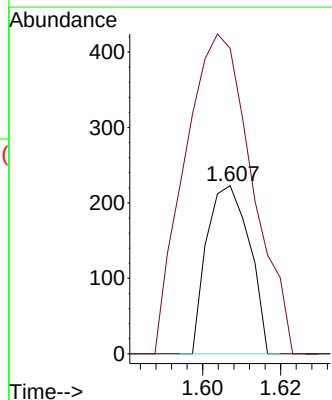
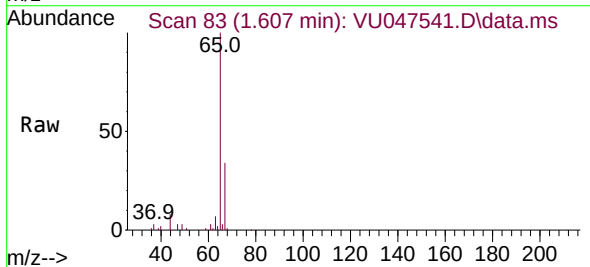
Instrument :
MSVOA_U
ClientSampleId :
VBLK080

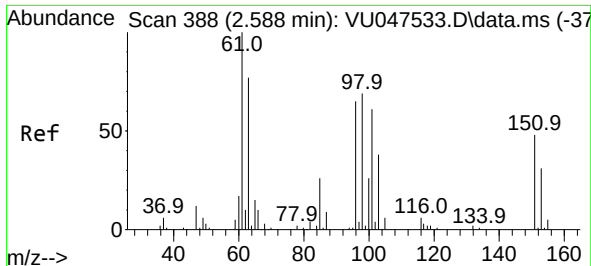
Tgt Ion: 50 Resp: 179
Ion Ratio Lower Upper
50 100
52 0.0 23.2 43.0#



#5
Vinyl chloride
Concen: 0.019 ug/L
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion: 62 Resp: 170
Ion Ratio Lower Upper
62 100
64 181.6 23.5 43.7#

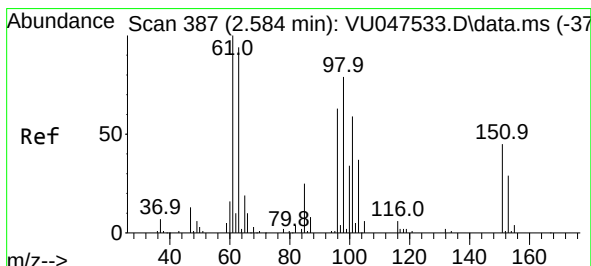
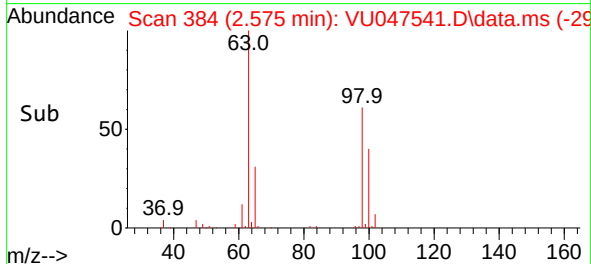
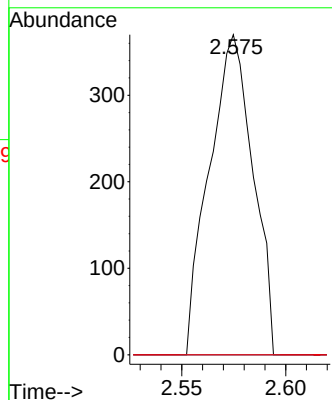
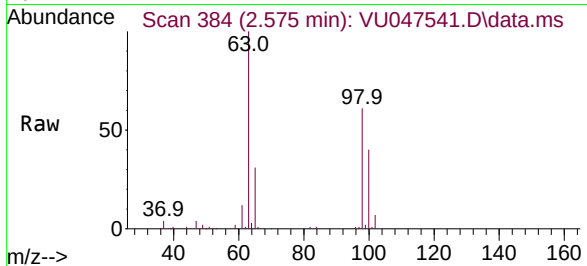




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.072 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.013 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

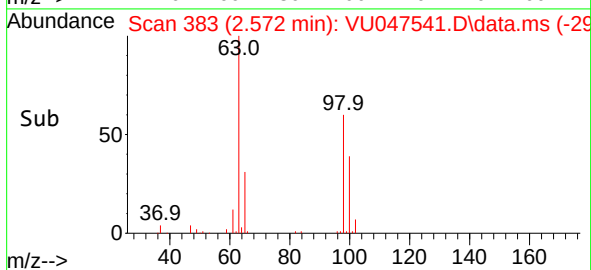
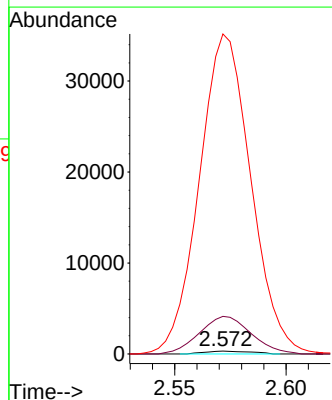
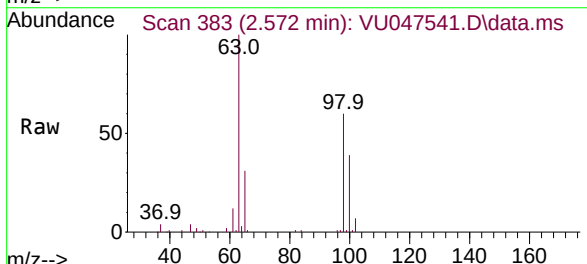
Instrument :
MSVOA_U
ClientSampleId :
VBLK080

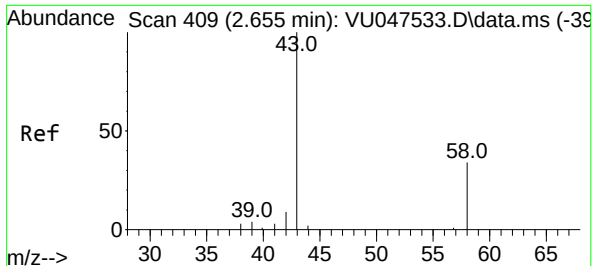
Tgt Ion:101 Resp: 541
Ion Ratio Lower Upper
101 100
85 0.0 34.0 51.0#
151 0.0 63.8 95.6#



#12
1,1-Dichloroethene
Concen: 0.062 ug/L
RT: 2.572 min Scan# 383
Delta R.T. -0.013 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion: 96 Resp: 456
Ion Ratio Lower Upper
96 100
61 1324.4 111.4 207.0#
63 11274.4 106.6 198.0#





#13

Acetone

Concen: 0.037 ug/L

RT: 2.671 min Scan# 414

Delta R.T. 0.016 min

Lab File: VU047541.D

Acq: 14 Mar 2022 17:44

Instrument :

MSVOA_U

ClientSampleId :

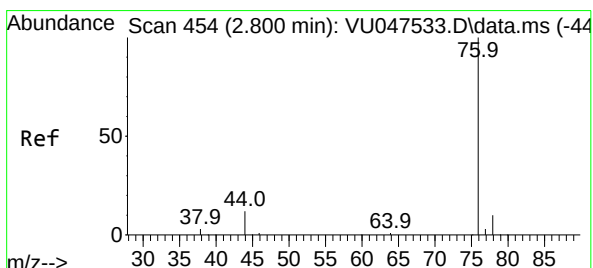
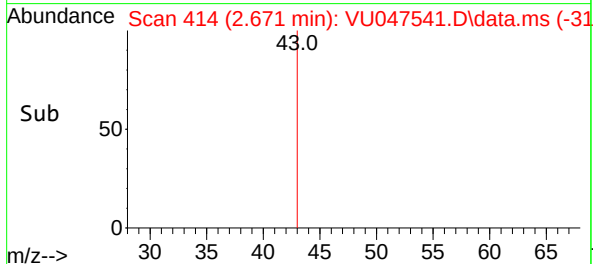
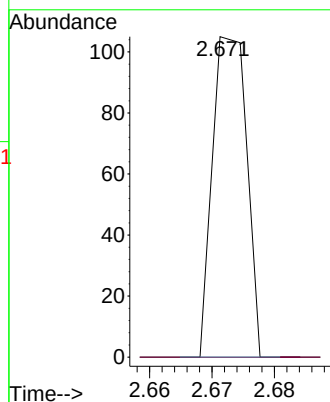
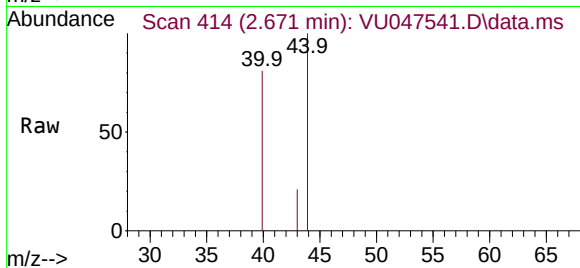
VBLK080

Tgt Ion: 43 Resp: 40

Ion Ratio Lower Upper

43 100

58 0.0 0.0 69.4



#14

Carbon disulfide

Concen: 0.013 ug/L

RT: 2.803 min Scan# 455

Delta R.T. 0.003 min

Lab File: VU047541.D

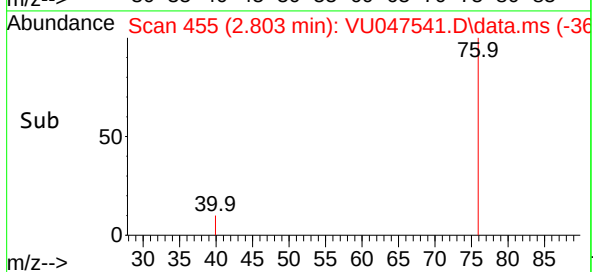
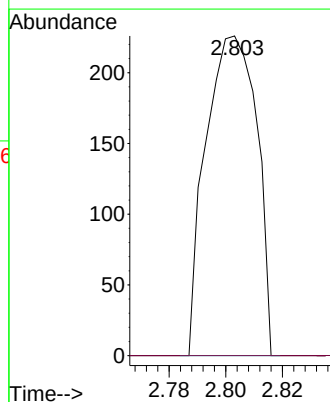
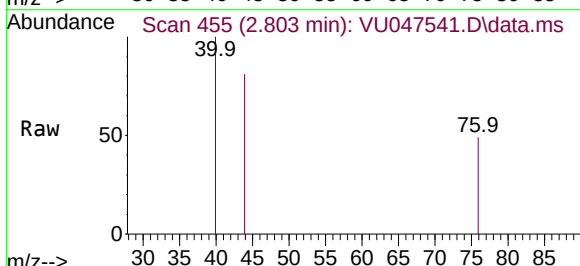
Acq: 14 Mar 2022 17:44

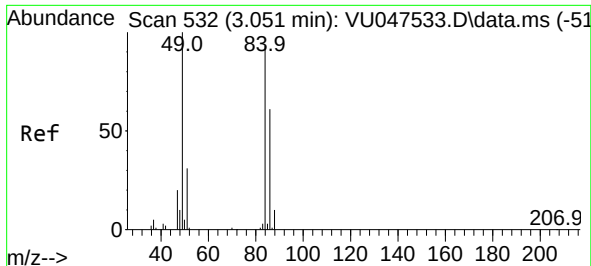
Tgt Ion: 76 Resp: 281

Ion Ratio Lower Upper

76 100

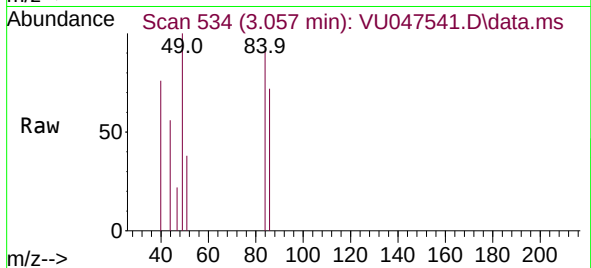
78 0.0 7.7 11.5#





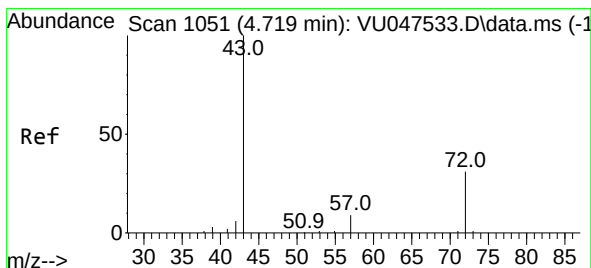
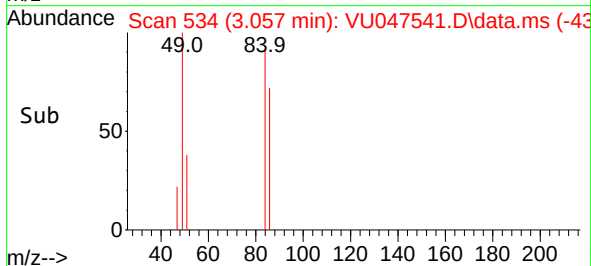
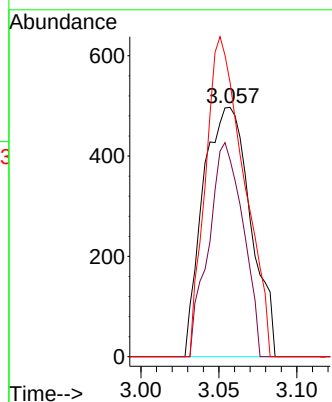
#16
Methylene chloride
Concen: 0.097 ug/L
RT: 3.057 min Scan# 51
Delta R.T. 0.007 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Instrument :
MSVOA_U
ClientSampleId :
VBLK080



Tgt Ion: 84 Resp: 1052

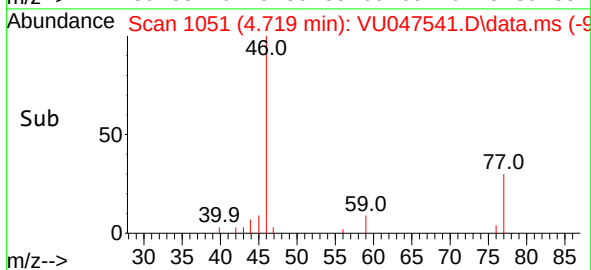
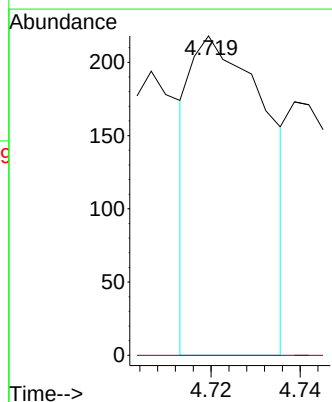
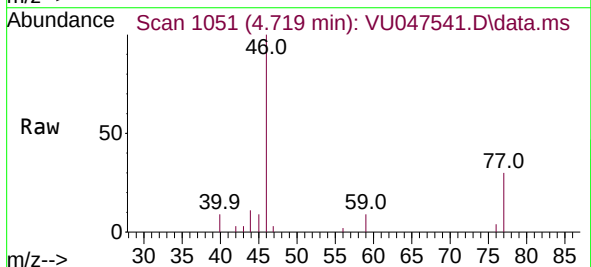
Ion	Ratio	Lower	Upper
84	100		
86	78.9	45.4	84.4
49	109.9	75.0	139.4

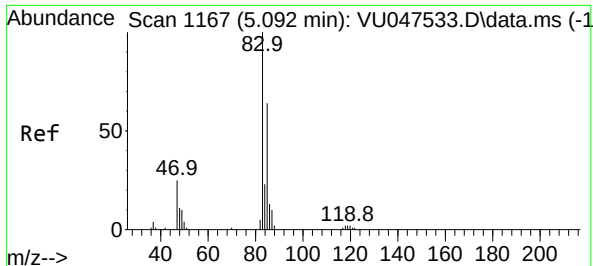


#21
2-Butanone
Concen: 0.126 ug/L
RT: 4.719 min Scan# 1051
Delta R.T. 0.000 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion: 43 Resp: 258

Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.9	44.7#

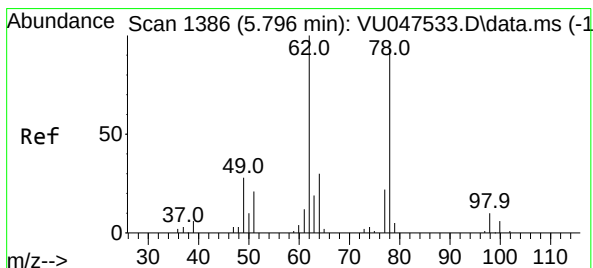
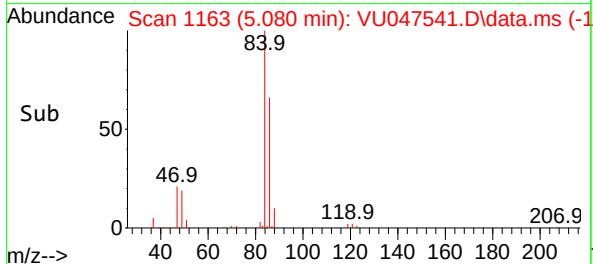
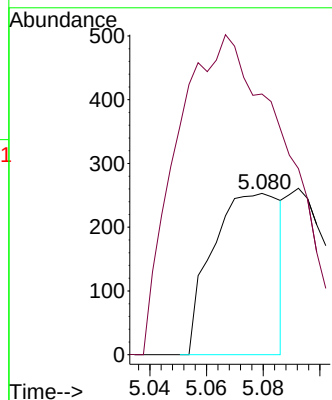
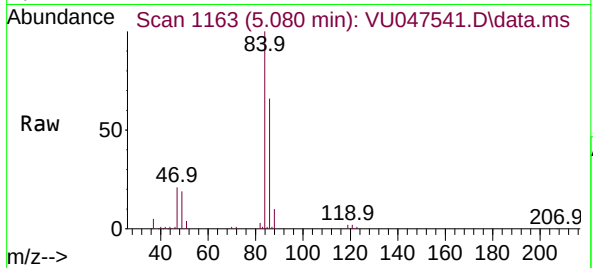




#25
Chloroform
Concen: 0.027 ug/L
RT: 5.080 min Scan# 1163
Delta R.T. -0.013 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

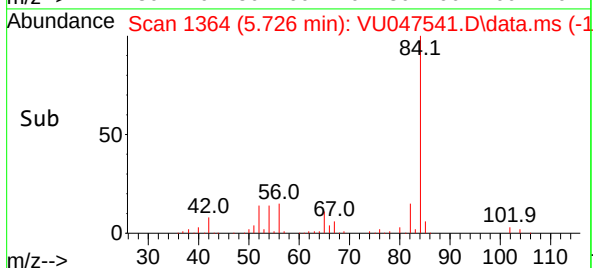
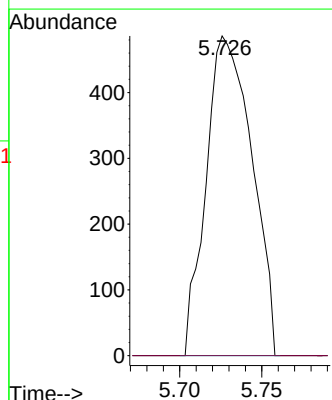
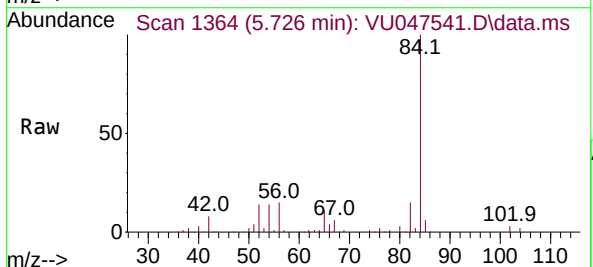
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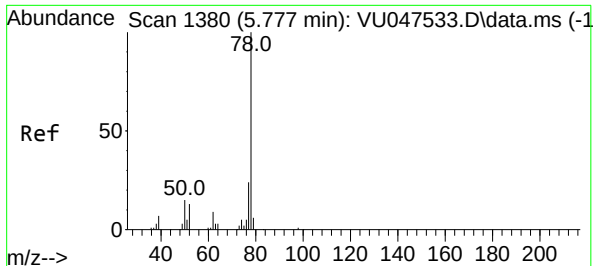
Tgt Ion: 83 Resp: 415
Ion Ratio Lower Upper
83 100
85 161.7 45.2 84.0#



#27
1,2-Dichloroethane
Concen: 0.097 ug/L
RT: 5.726 min Scan# 1364
Delta R.T. -0.071 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion: 62 Resp: 946
Ion Ratio Lower Upper
62 100
98 0.0 7.7 11.5#

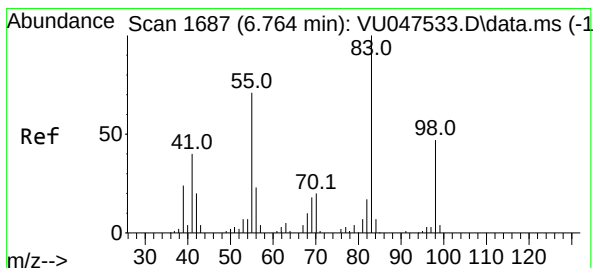
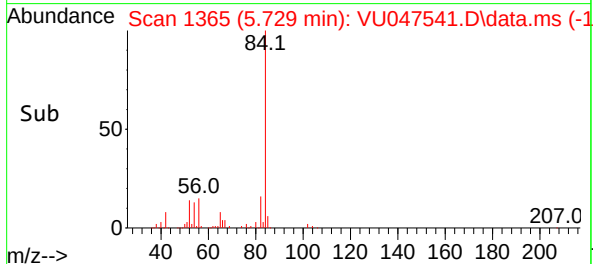
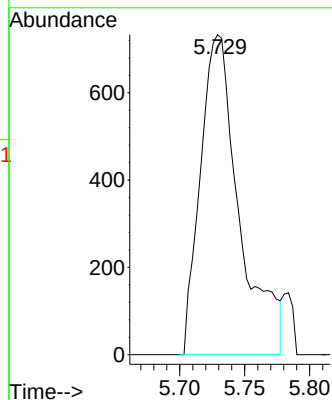
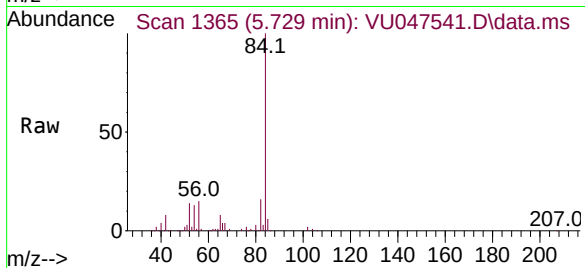




#33
Benzene
Concen: 0.047 ug/L
RT: 5.729 min Scan# 11
Delta R.T. -0.048 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

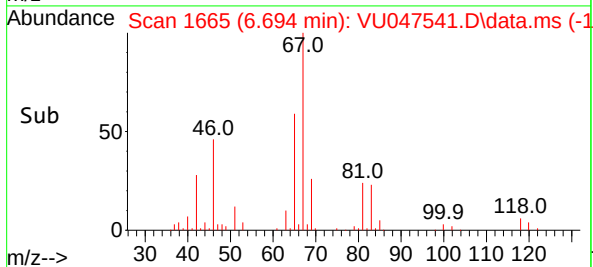
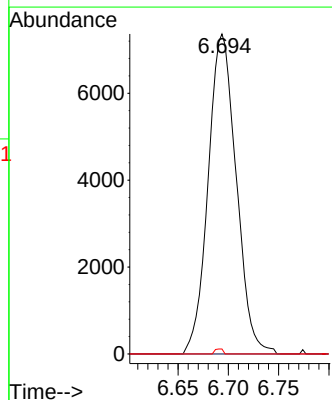
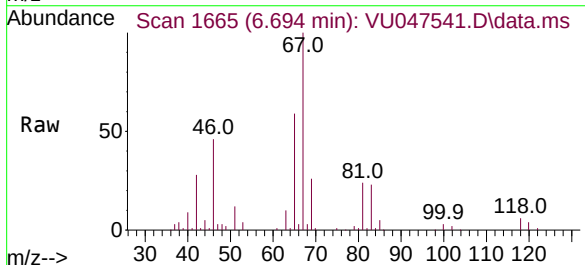
Instrument :
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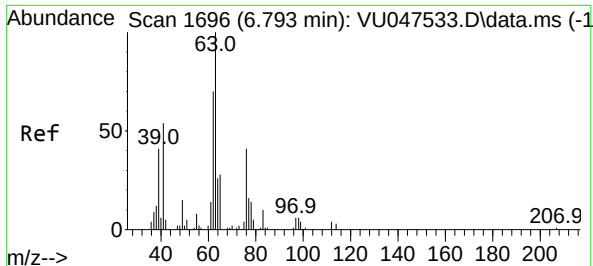
Tgt Ion: 78 Resp: 1526



#35
Methylcyclohexane
Concen: 1.164 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.071 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion: 83 Resp: 14319
Ion Ratio Lower Upper
83 100
55 0.0 57.3 85.9#
98 0.5 37.5 56.3#

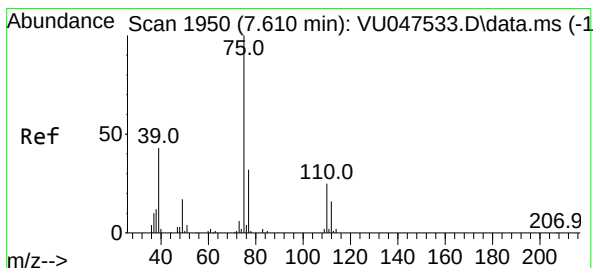
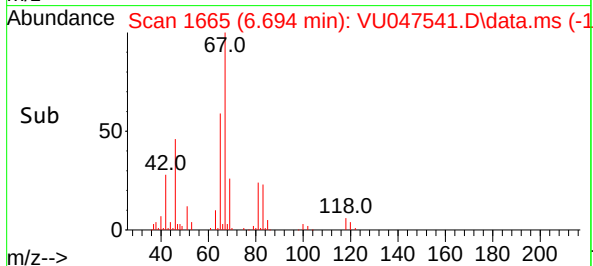
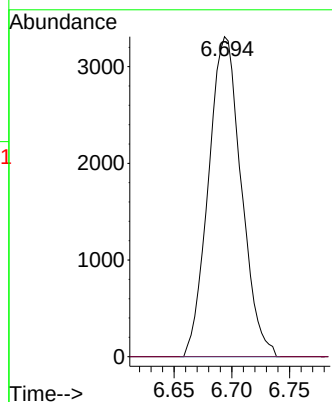
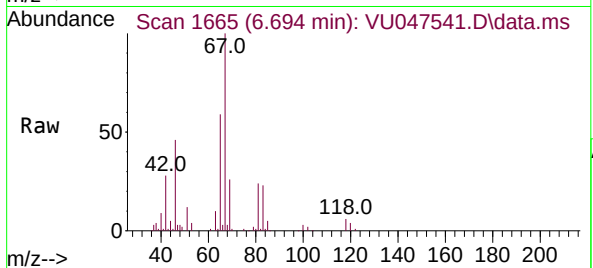




#37
1,2-Dichloropropane
Concen: 0.791 ug/L
RT: 6.694 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

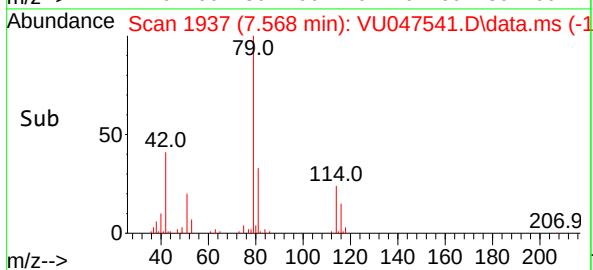
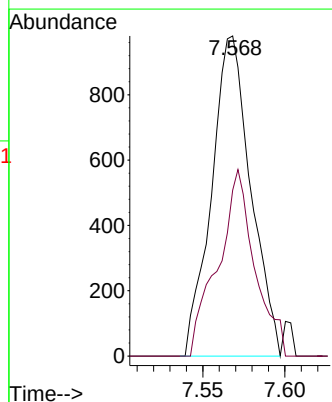
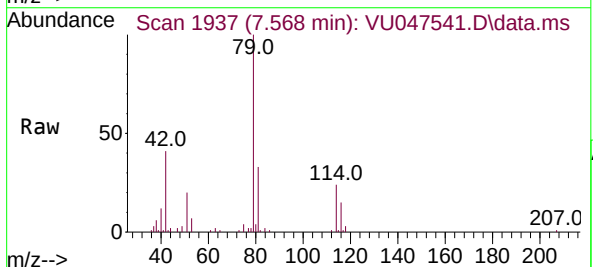
Instrument :
MSVOA_U
ClientSampleId :
VBLK080

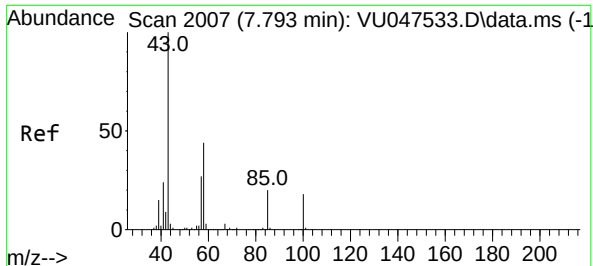
Tgt Ion: 63 Resp: 6542
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#



#39
cis-1,3-Dichloropropene
Concen: 0.127 ug/L
RT: 7.568 min Scan# 1937
Delta R.T. -0.042 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion: 75 Resp: 1628
Ion Ratio Lower Upper
75 100
77 51.8 22.6 42.0#





#40

4-Methyl-2-pentanone

Concen: 0.206 ug/L

RT: 7.800 min Scan# 2007

Delta R.T. 0.007 min

Lab File: VU047541.D

Acq: 14 Mar 2022 17:44

Instrument :

MSVOA_U

ClientSampleId :

VBLK080

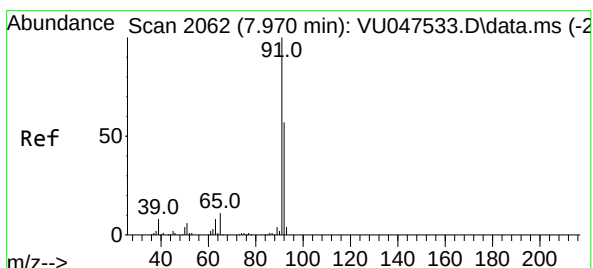
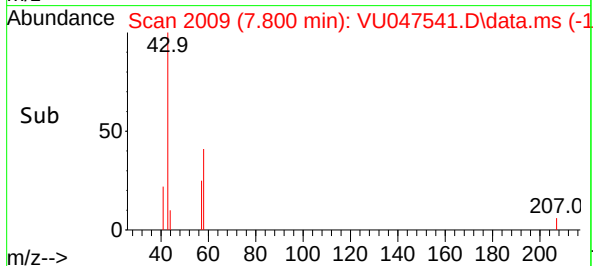
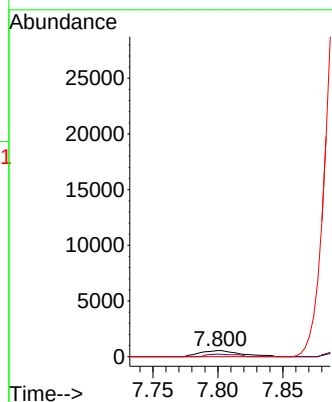
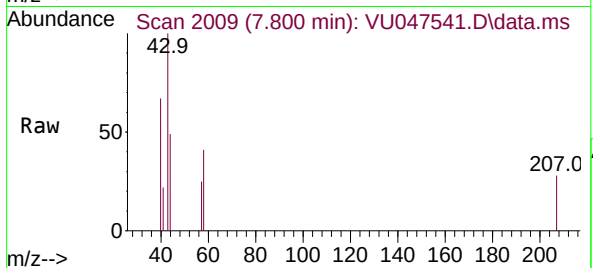
Tgt Ion: 43 Resp: 1187

Ion Ratio Lower Upper

43 100

58 29.5 34.5 51.7#

100 0.0 13.8 20.6#



#42

Toluene

Concen: 0.006 ug/L

RT: 7.964 min Scan# 2060

Delta R.T. -0.006 min

Lab File: VU047541.D

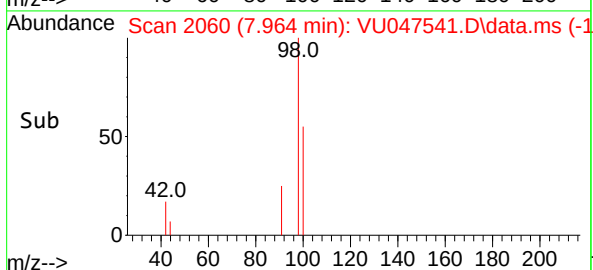
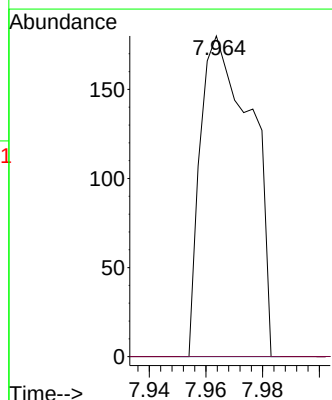
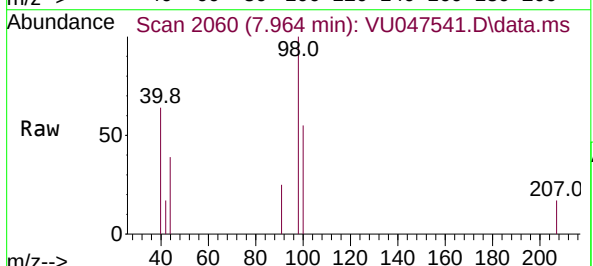
Acq: 14 Mar 2022 17:44

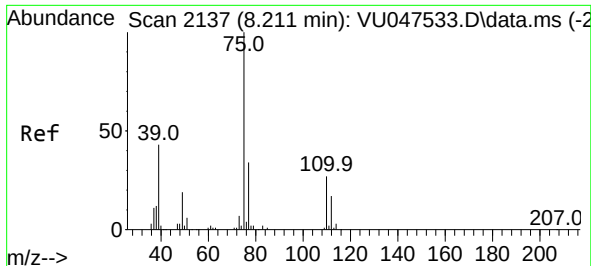
Tgt Ion: 91 Resp: 224

Ion Ratio Lower Upper

91 100

92 0.0 40.2 74.6#

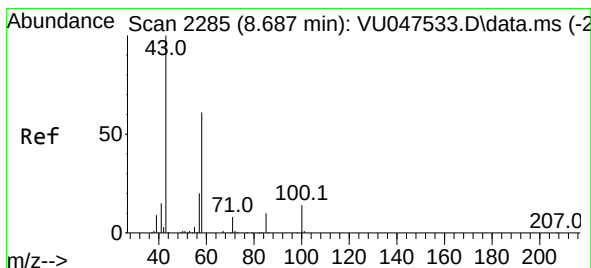
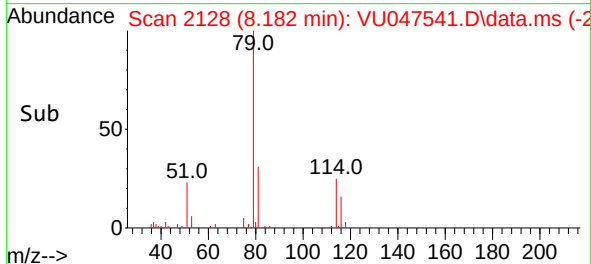
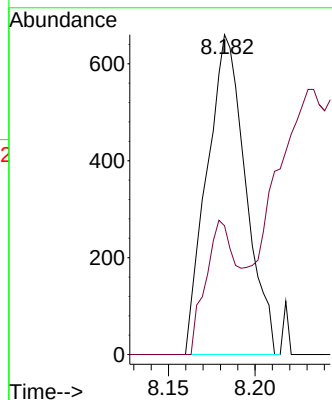
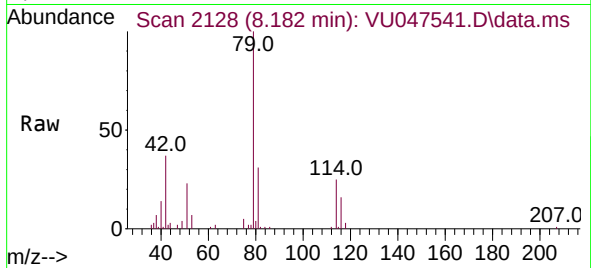




#44
trans-1,3-Dichloropropene
Concen: 0.089 ug/L
RT: 8.182 min Scan# 2137
Delta R.T. -0.029 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

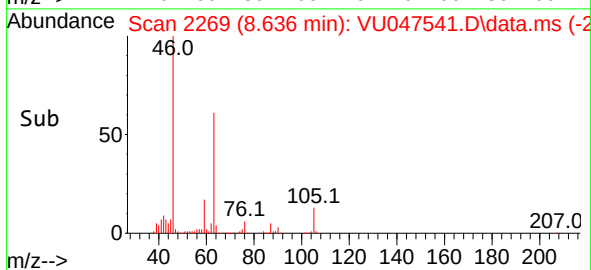
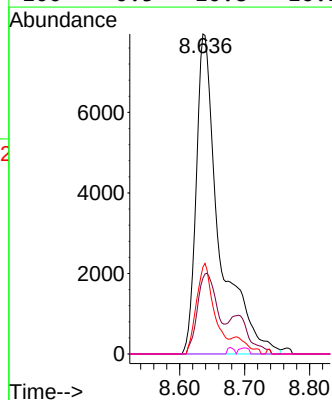
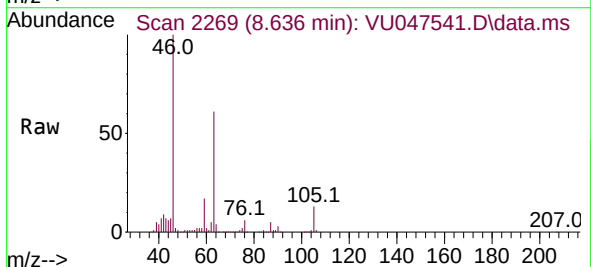
Instrument :
MSVOA_U
ClientSampleId :
VBLK080

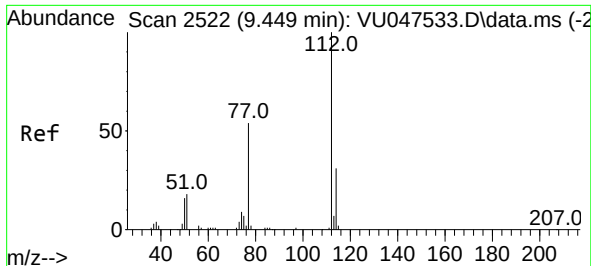
Tgt Ion: 75 Resp: 1024
Ion Ratio Lower Upper
75 100
77 40.3 23.4 43.6



#48
2-Hexanone
Concen: 4.478 ug/L
RT: 8.636 min Scan# 2269
Delta R.T. -0.051 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion: 43 Resp: 19641
Ion Ratio Lower Upper
43 100
58 22.0 47.5 71.3#
57 21.6 16.0 24.0
100 0.5 10.8 16.2#

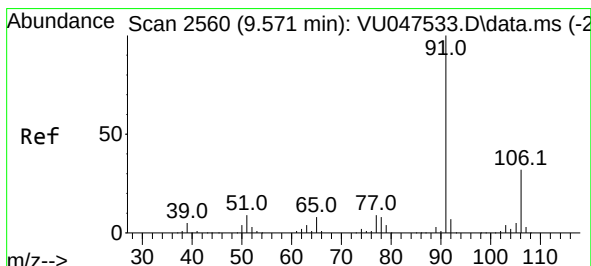
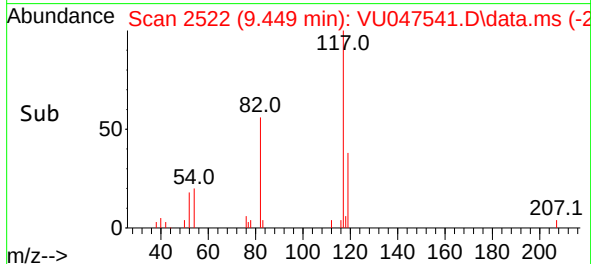
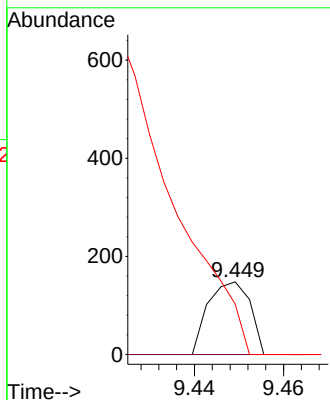
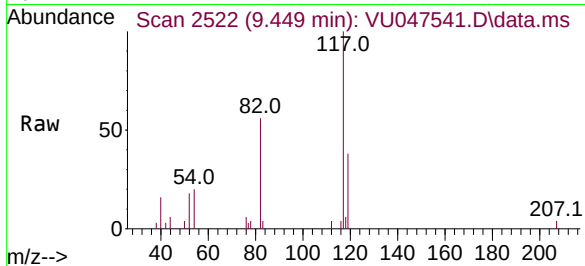




#51
Chlorobenzene
Concen: 0.004 ug/L
RT: 9.449 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

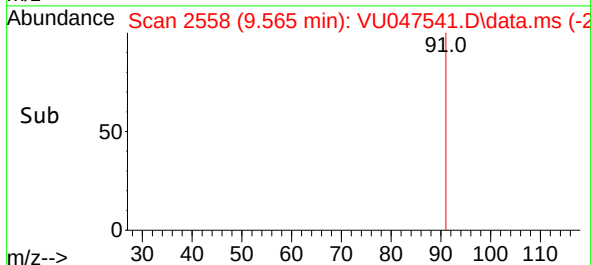
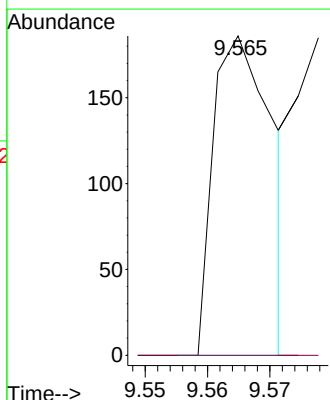
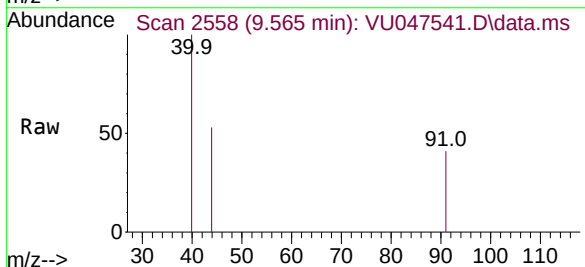
Instrument :
MSVOA_U
ClientSampleId :
VBLK080

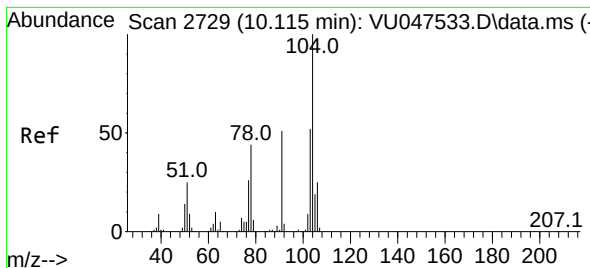
Tgt Ion:112 Resp: 96
Ion Ratio Lower Upper
112 100
114 0.0 22.0 40.8#
77 69.6 43.7 65.5#



#52
Ethylbenzene
Concen: 0.003 ug/L
RT: 9.565 min Scan# 2558
Delta R.T. -0.006 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion: 91 Resp: 123
Ion Ratio Lower Upper
91 100
106 0.0 22.2 41.2#





#55

Styrene

Concen: 0.006 ug/L

RT: 10.124 min Scan# 21

Delta R.T. 0.010 min

Lab File: VU047541.D

Acq: 14 Mar 2022 17:44

Instrument :

MSVOA_U

ClientSampleId :

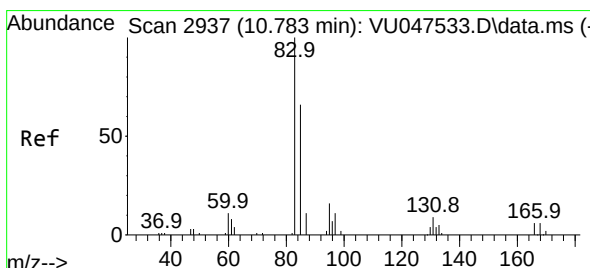
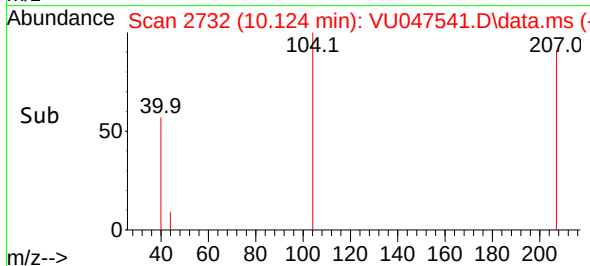
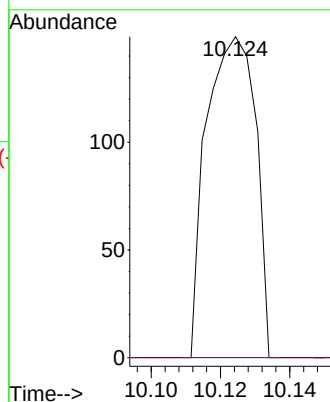
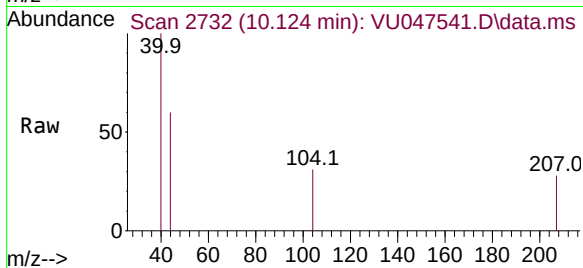
VBK080

Tgt Ion:104 Resp: 147

Ion Ratio Lower Upper

104 100

78 0.0 31.0 57.6#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.011 ug/L

RT: 10.780 min Scan# 2936

Delta R.T. -0.003 min

Lab File: VU047541.D

Acq: 14 Mar 2022 17:44

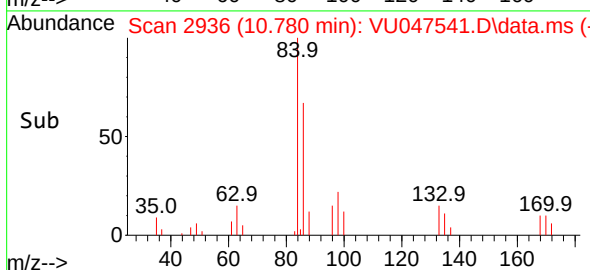
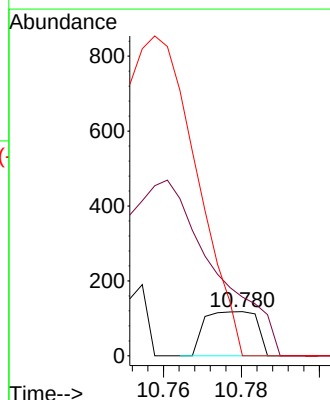
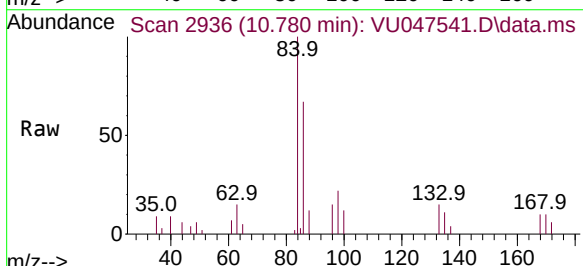
Tgt Ion: 83 Resp: 109

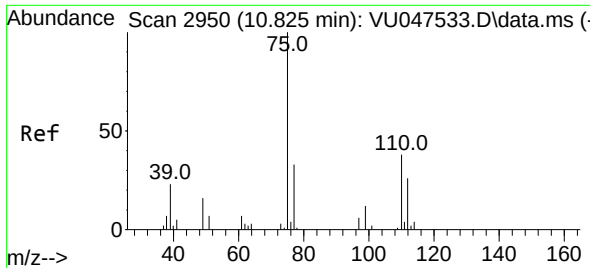
Ion Ratio Lower Upper

83 100

85 133.1 46.7 86.7#

131 0.0 8.0 12.0#

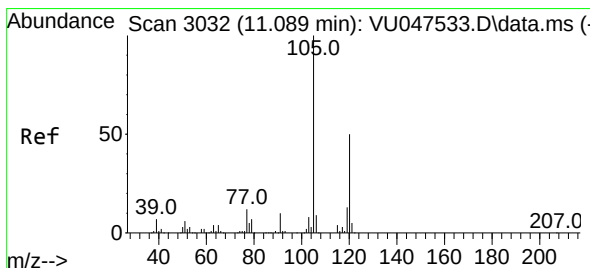
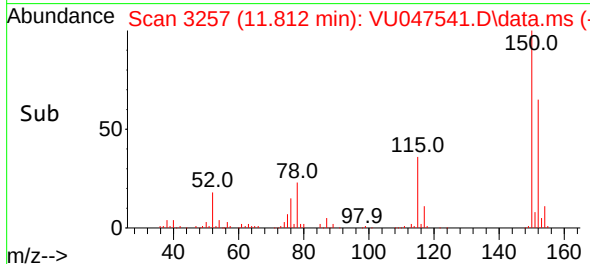
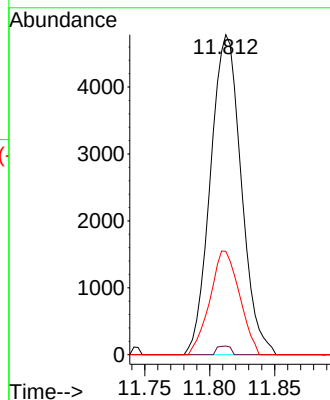
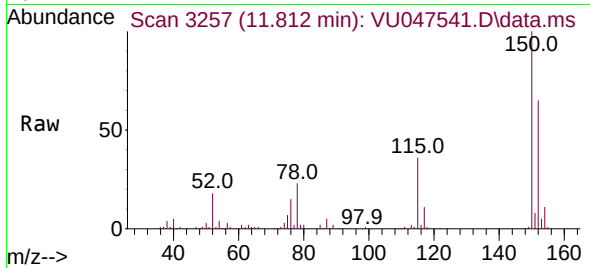




#61
1,2,3-Trichloropropane
Concen: 1.245 ug/L
RT: 11.812 min Scan# 3031
Delta R.T. 0.987 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

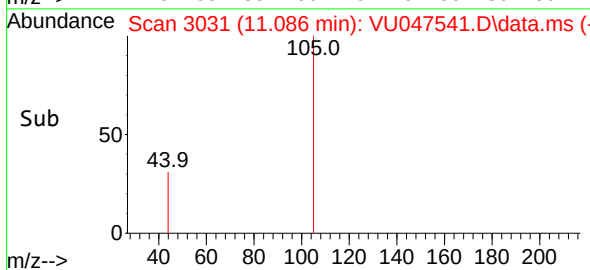
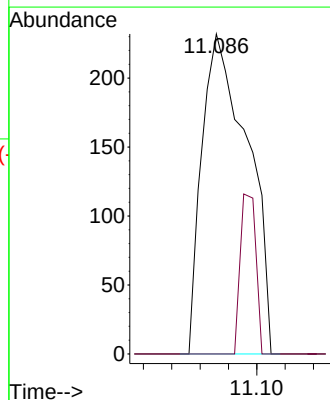
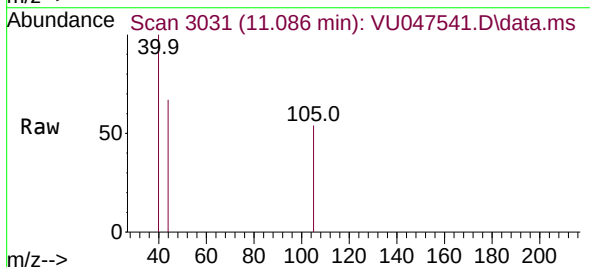
Instrument :
MSVOA_U
ClientSampleId :
VBLK080

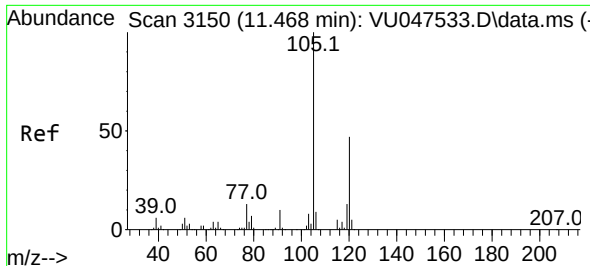
Tgt Ion: 75 Resp: 7874
Ion Ratio Lower Upper
75 100
110 1.2 30.2 45.4#
77 31.1 26.6 39.8



#62
1,3,5-Trimethylbenzene
Concen: 0.012 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. -0.003 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion: 105 Resp: 259
Ion Ratio Lower Upper
105 100
120 0.0 40.2 60.4#

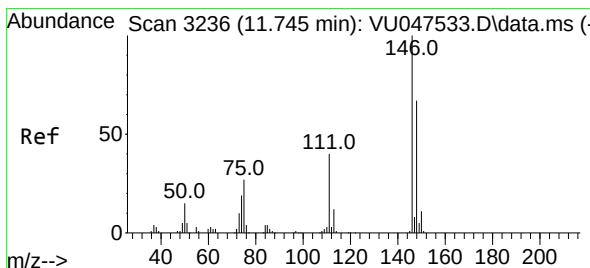
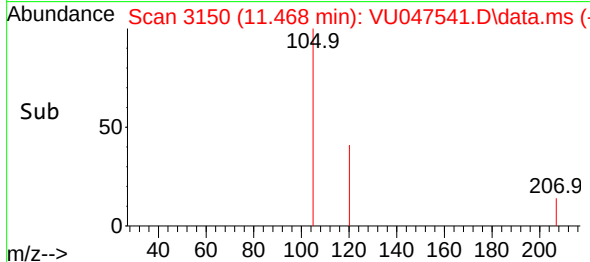
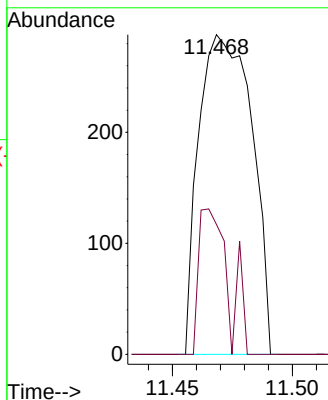
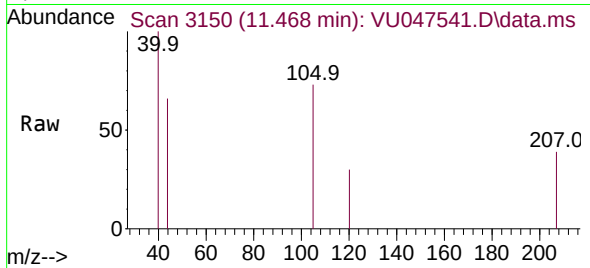




#63
1,2,4-Trimethylbenzene
Concen: 0.016 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

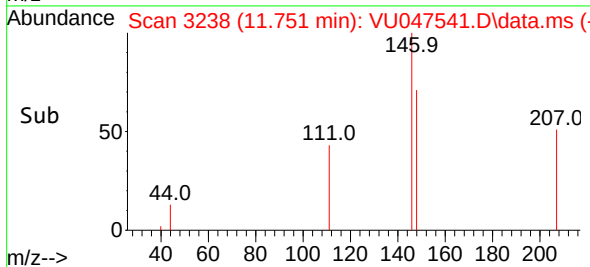
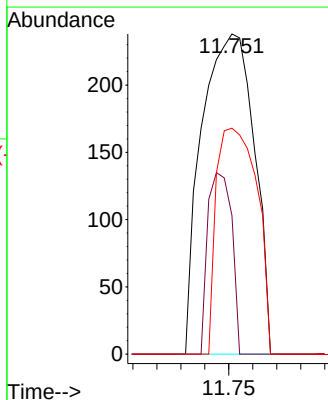
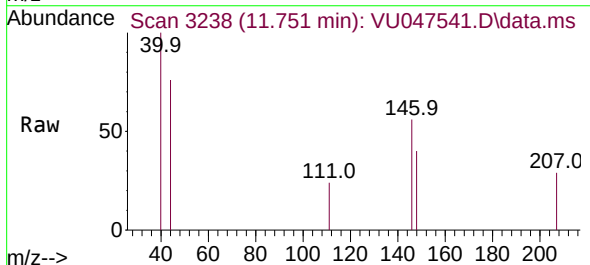
Instrument :
MSVOA_U
ClientSampleId :
VBLK080

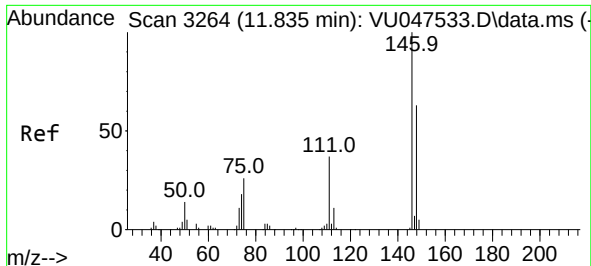
Tgt Ion:105 Resp: 442
Ion Ratio Lower Upper
105 100
120 25.3 38.2 57.4#



#64
1,3-Dichlorobenzene
Concen: 0.019 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. 0.007 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion:146 Resp: 360
Ion Ratio Lower Upper
146 100
111 43.3 27.7 51.5
148 70.6 46.5 86.5

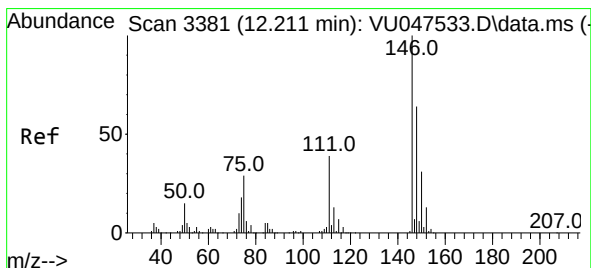
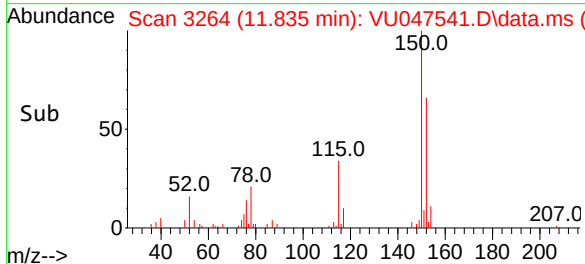
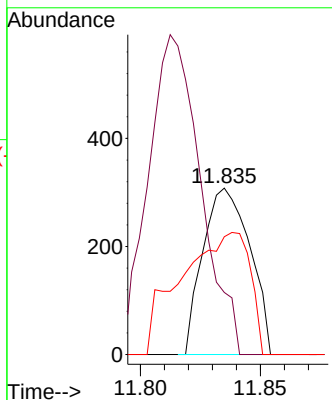
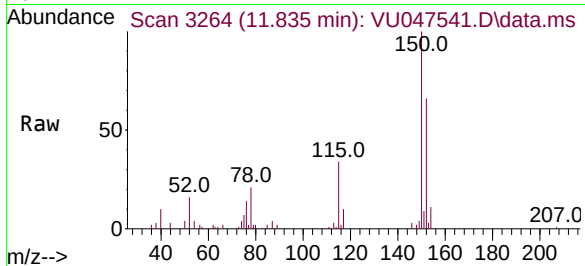




#65
1,4-Dichlorobenzene
Concen: 0.022 ug/L
RT: 11.835 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

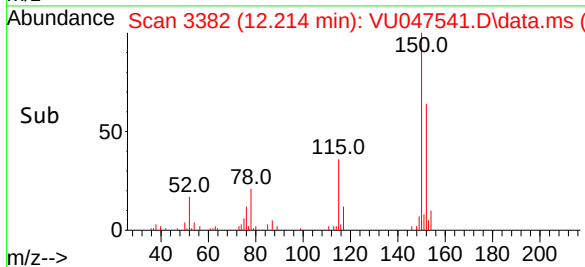
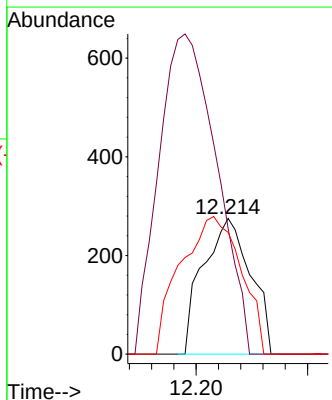
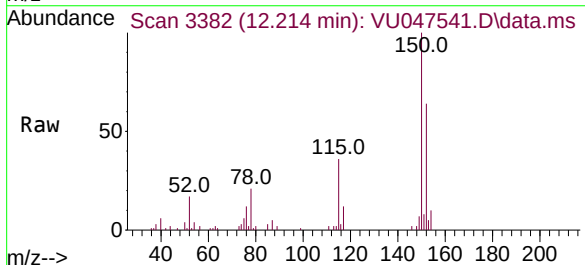
Instrument :
MSVOA_U
ClientSampleId :
VBLK080

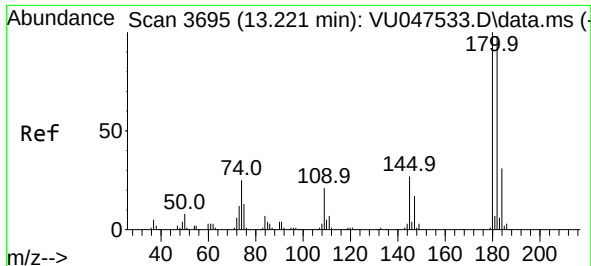
Tgt Ion:146 Resp: 420
Ion Ratio Lower Upper
146 100
111 37.3 26.2 48.8
148 70.8 44.3 82.3



#67
1,2-Dichlorobenzene
Concen: 0.022 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion:146 Resp: 408
Ion Ratio Lower Upper
146 100
111 92.7 31.4 47.0#
148 89.8 50.9 76.3#





#69

1,3,5-Trichlorobenzene

Concen: 0.035 ug/L

RT: 13.227 min Scan# 3

Delta R.T. 0.007 min

Lab File: VU047541.D

Acq: 14 Mar 2022 17:44

Instrument :

MSVOA_U

ClientSampleId :

VBLK080

Tgt Ion:180 Resp: 568

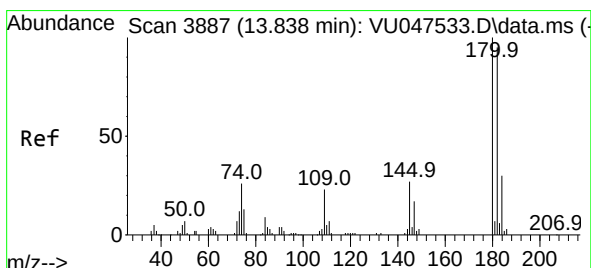
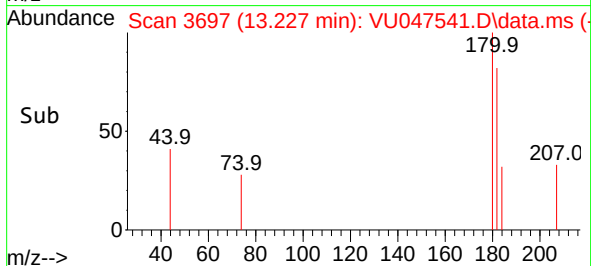
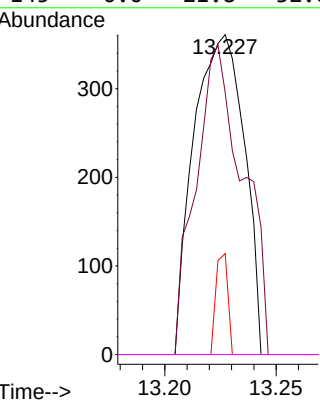
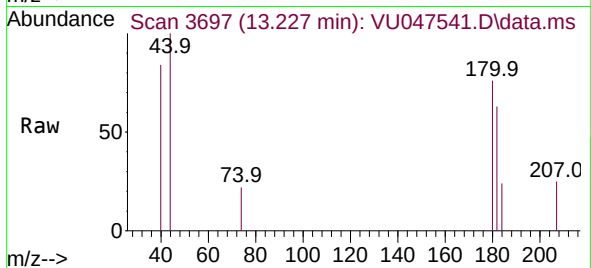
Ion Ratio Lower Upper

180 100

182 90.8 77.3 115.9

184 7.4 24.3 36.5#

145 0.0 21.8 32.6#



#70

1,2,4-trichlorobenzene

Concen: 0.059 ug/L

RT: 13.848 min Scan# 3890

Delta R.T. 0.010 min

Lab File: VU047541.D

Acq: 14 Mar 2022 17:44

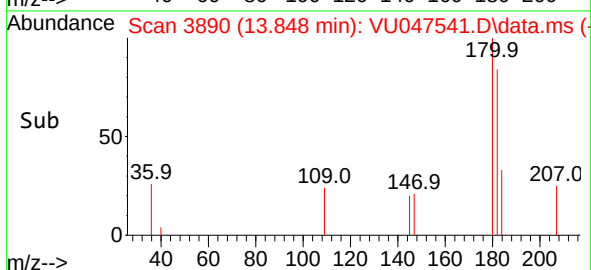
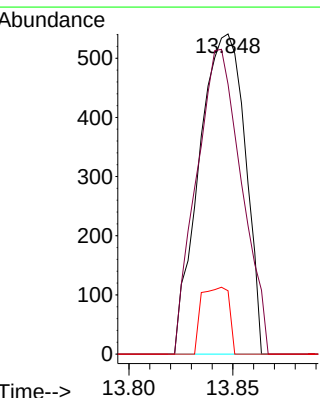
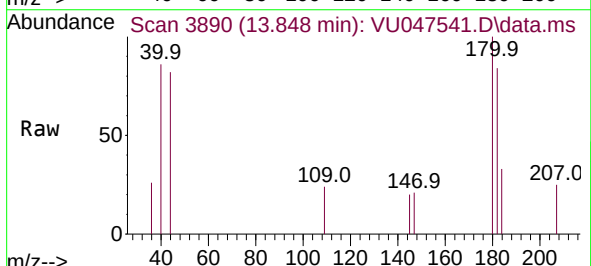
Tgt Ion:180 Resp: 833

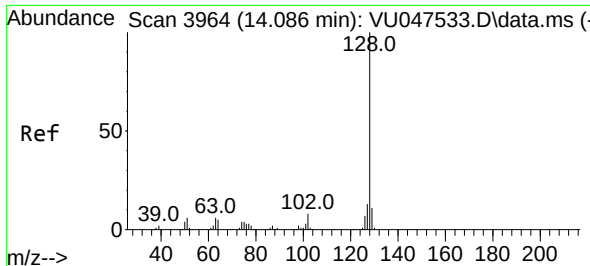
Ion Ratio Lower Upper

180 100

182 93.2 76.6 114.8

145 12.5 22.5 33.7#

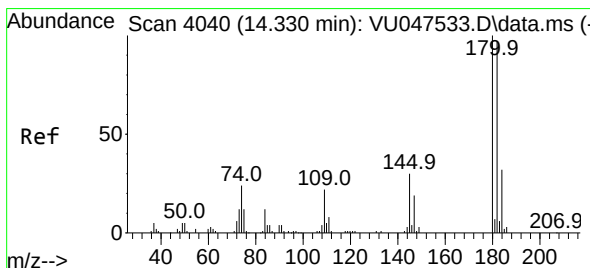
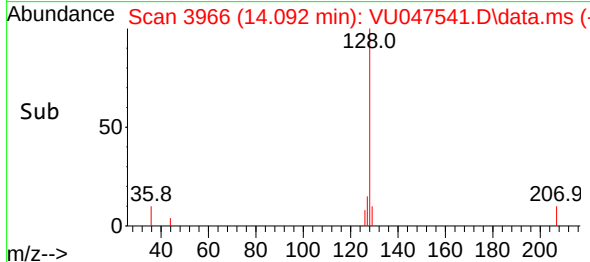
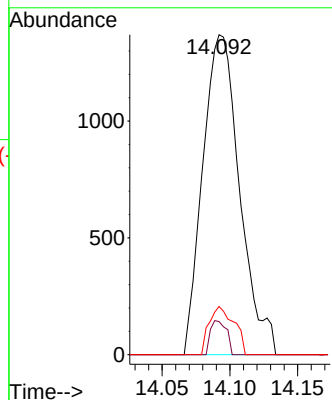
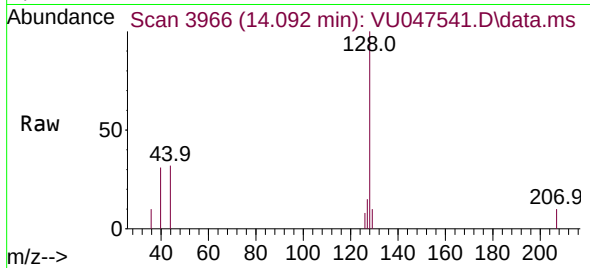




#71
Naphthalene
Concen: 0.099 ug/L
RT: 14.092 min Scan# 3966
Delta R.T. 0.007 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Instrument :
MSVOA_U
ClientSampleId :
VBLK080

Tgt Ion:128 Resp: 2594
Ion Ratio Lower Upper
128 100
129 4.6 8.7 13.1#
127 10.2 10.4 15.6#



#72
1,2,3-Trichlorobenzene
Concen: 0.064 ug/L
RT: 14.336 min Scan# 4042
Delta R.T. 0.007 min
Lab File: VU047541.D
Acq: 14 Mar 2022 17:44

Tgt Ion:180 Resp: 873
Ion Ratio Lower Upper
180 100
182 86.4 77.8 116.8
145 21.1 23.7 35.5#

