

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU090723\
 Data File : VU055206.D
 Acq On : 07 Sep 2023 23:44
 Operator : MD/SY
 Sample : 04306-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BH4H7

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/08/2023
 Supervised By : Mahesh Dadoda 09/14/2023

Quant Time: Sep 08 06:37:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 08 06:18:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.306	114	219870	5.000	ug/L	0.06
28) Chlorobenzene-d5	9.425	117	232507	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.814	152	135004	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	256373	24.879	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	497.600%#
7) Chloroethane-d5	1.911	69	36459	3.057	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	61.200%#
11) 1,1-Dichloroethene-d2	2.579	65	23101m	3.934	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.600%
20) 2-Butanone-d5	0.000	46	0d	0.000	ug/L	
Spiked Amount	50.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	5.155	84	131739	4.818	ug/L	0.09
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.400%
26) 1,2-Dichloroethane-d4	5.759	65	65194	4.765	ug/L	0.06
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.400%
32) Benzene-d6	5.788	84	242897	4.232	ug/L	0.06
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.600%
36) 1,2-Dichloropropane-d6	6.708	67	142730	7.819	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	156.400%#
41) Toluene-d8	7.920	98	229815	4.347	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.000%
43) trans-1,3-Dichloroprop...	8.196	79	27046	5.380	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	107.600%
46) 2-Hexanone-d5	8.647	63	113458	55.594	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.180%
56) 1,1,2,2-Tetrachloroeth...	10.759	84	69759	5.434	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.600%
66) 1,2-Dichlorobenzene-d4	12.193	152	85638	4.346	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.586	62	20995863m	1530.089	ug/L	
12) 1,1-Dichloroethene	2.595	96	3318933	326.507	ug/L #	71
16) Methylene chloride	3.058	84	22606m	1.455	ug/L	
18) trans-1,2-Dichloroethene	3.380	96	16237271	1574.424	ug/L	97
22) cis-1,2-Dichloroethene	4.640	96	176124367m	13951.151	ug/L	
25) Chloroform	5.174	83	317016	13.657	ug/L	98
27) 1,2-Dichloroethane	5.846	62	223037	15.742	ug/L	95
30) Cyclohexane	5.451	56	107042	5.985	ug/L	97
33) Benzene	5.833	78	854545	17.269	ug/L	100
34) Trichloroethene	6.553	95	87969932m	6396.592	ug/L	
35) Methylcyclohexane	6.824	83	370661m	19.209	ug/L	
40) 4-Methyl-2-pentanone	7.817	43	16559	2.155	ug/L #	90
42) Toluene	7.991	91	262911	4.984	ug/L	97
45) 1,1,2-Trichloroethane	8.412	97	865573	95.389	ug/L	97
47) Tetrachloroethene	8.566	164	174494	18.358	ug/L	97
51) Chlorobenzene	9.454	112	178129	5.098	ug/L	97
52) Ethylbenzene	9.579	91	191878	3.251	ug/L	99
53) m,p-Xylene	9.704	106	58706	2.688	ug/L	96
54) o-Xylene	10.106	106	437086	20.338	ug/L	97

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

60) Isopropylbenzene	10.486	105	84723	1.346	ug/L	98
61) 1,2,3-Trichloropropane	10.823	75	13733	1.533	ug/L	99
62) 1,3,5-Trimethylbenzene	11.090	105	114837	2.193	ug/L	99
63) 1,2,4-Trimethylbenzene	11.470	105	475603	9.215	ug/L	98
64) 1,3-Dichlorobenzene	11.746	146	48509	1.605	ug/L	97
65) 1,4-Dichlorobenzene	11.836	146	713441	23.686	ug/L	98
67) 1,2-Dichlorobenzene	12.212	146	156073	5.508	ug/L	98
70) 1,2,4-trichlorobenzene	13.839	180	2697851	125.976	ug/L	97
72) 1,2,3-Trichlorobenzene	14.328	180	804660	43.289	ug/L	99

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

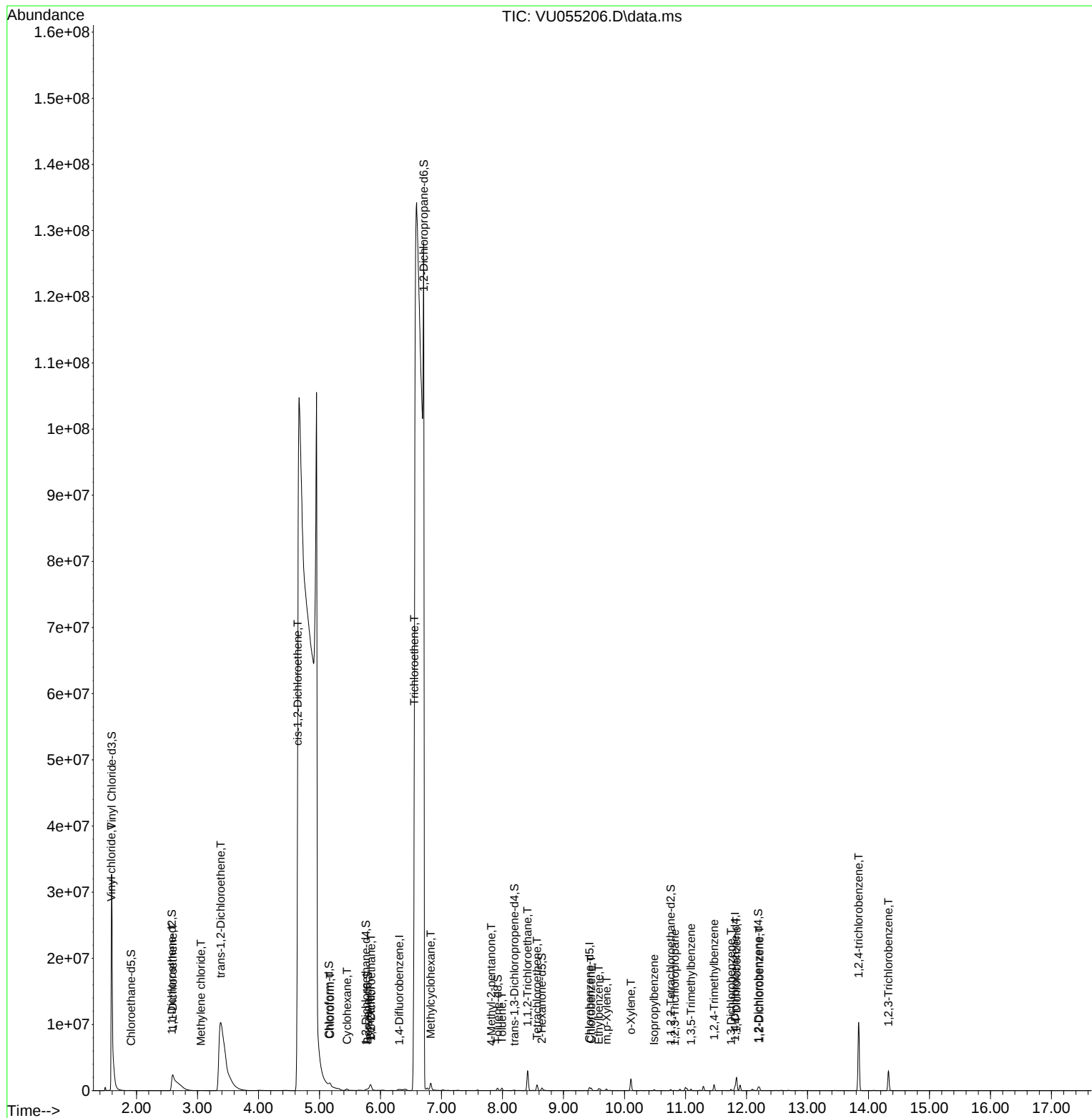
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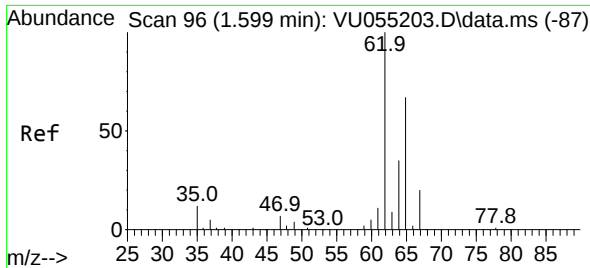
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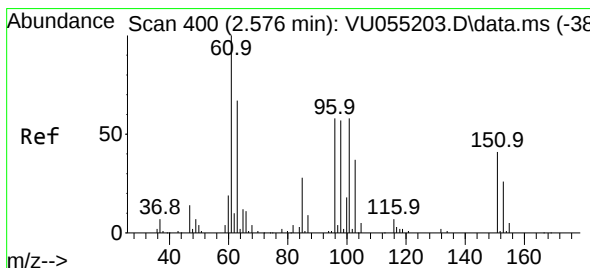
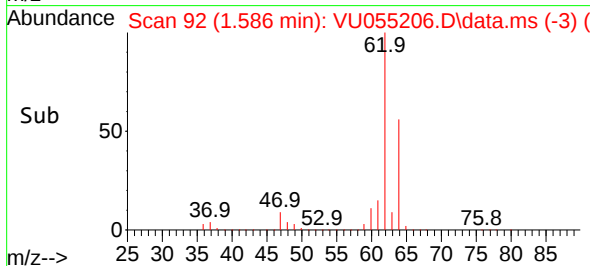
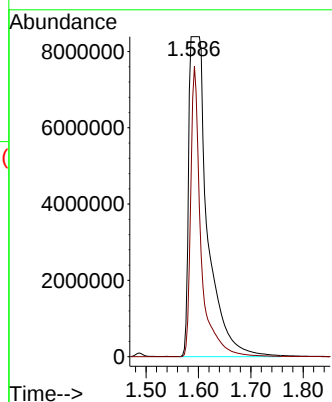
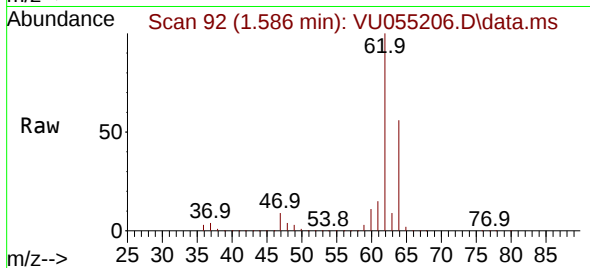
#5
 Vinyl chloride
 Concen: 1530.089 ug/L m
 RT: 1.586 min Scan# 91
 Delta R.T. -0.013 min
 Lab File: VU055206.D
 Acq: 07 Sep 2023 23:44

Instrument :
 MSVOA_U
 ClientSampleId :
 BH4H7

Tgt Ion: 62 Resp: 2099586
 Ion Ratio Lower Upper
 62 100
 64 55.8 24.2 45.0

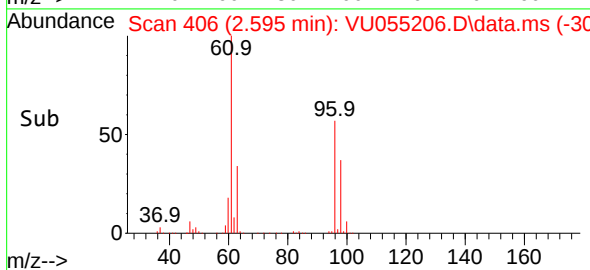
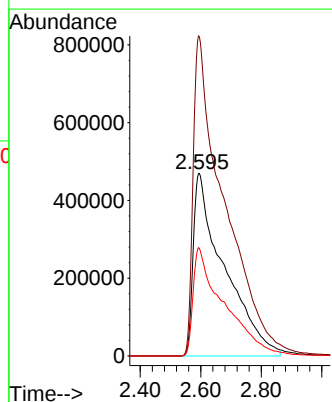
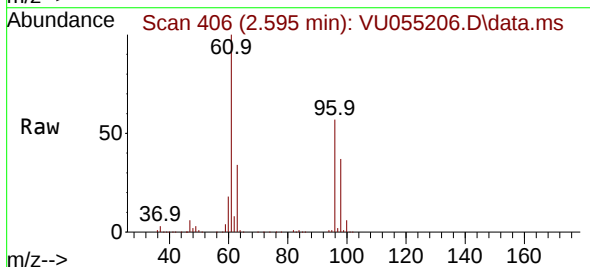
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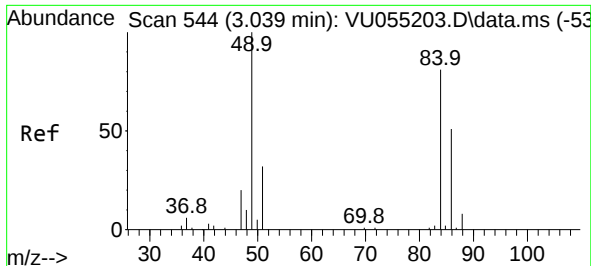
Reviewed By : John Carlone 09/08/2023
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#12
 1,1-Dichloroethene
 Concen: 326.507 ug/L
 RT: 2.595 min Scan# 406
 Delta R.T. 0.019 min
 Lab File: VU055206.D
 Acq: 07 Sep 2023 23:44

Tgt Ion: 96 Resp: 3318933
 Ion Ratio Lower Upper
 96 100
 61 174.9 120.8 224.4
 63 59.0 94.5 175.5





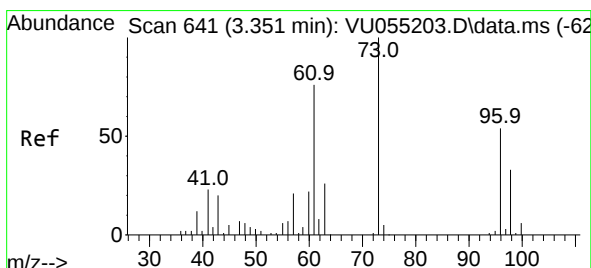
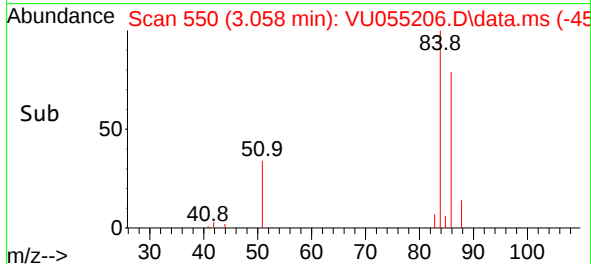
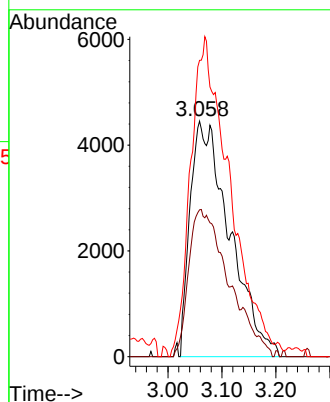
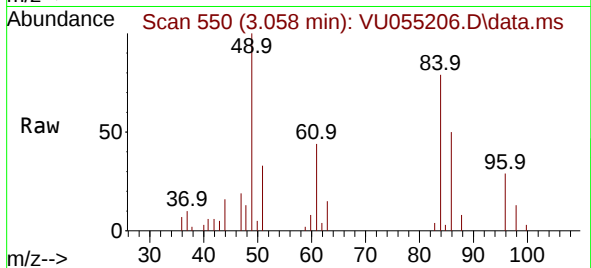
#16
Methylene chloride
Concen: 1.455 ug/L m
RT: 3.058 min Scan# 51
Delta R.T. 0.019 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

Instrument :
MSVOA_U
ClientSampleId :
BH4H7

Tgt Ion: 84 Resp: 22600
Ion Ratio Lower Upper
84 100
86 62.4 43.4 80.6
49 125.8 87.7 162.9

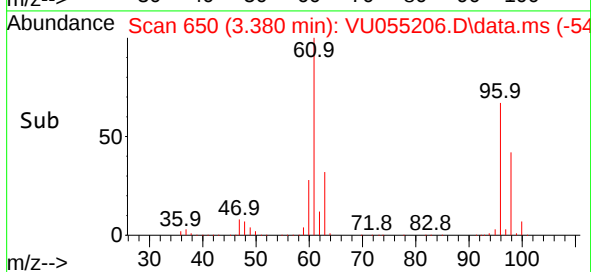
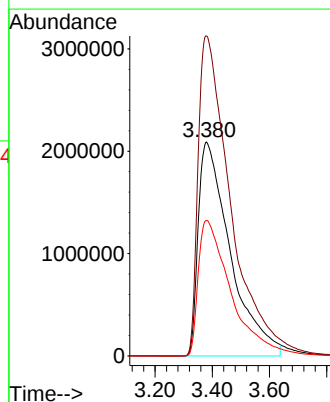
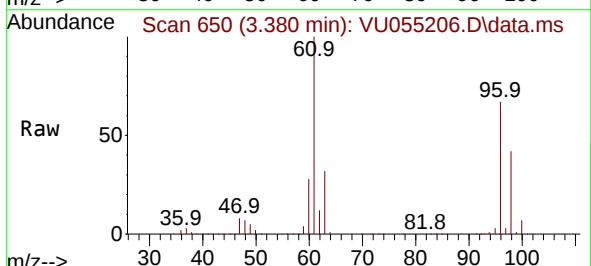
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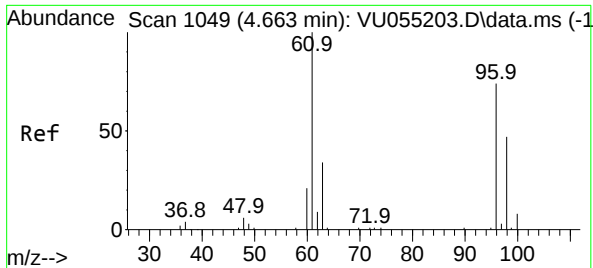
Reviewed By :John Carlone 09/08/2023
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#18
trans-1,2-Dichloroethene
Concen: 1574.424 ug/L
RT: 3.380 min Scan# 650
Delta R.T. 0.029 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

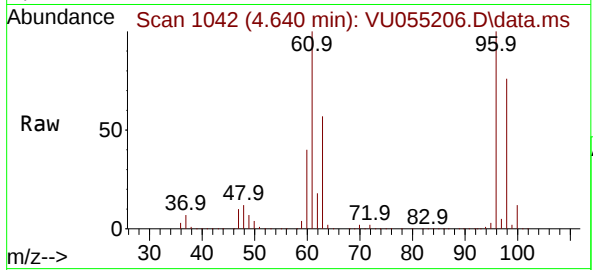
Tgt Ion: 96 Resp:16237271
Ion Ratio Lower Upper
96 100
61 149.6 108.1 200.9
98 63.3 45.4 84.4





#22
cis-1,2-Dichloroethene
Concen: 13951.151 ug/L m
RT: 4.640 min Scan# 110
Delta R.T. -0.023 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

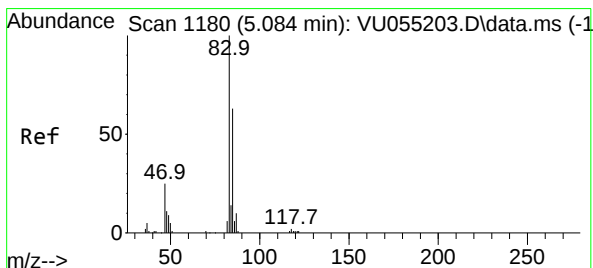
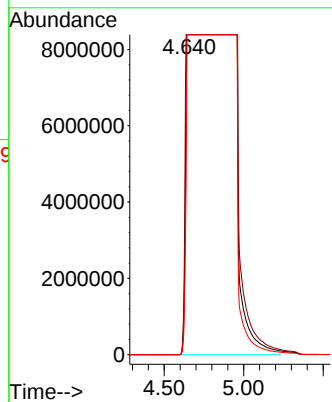
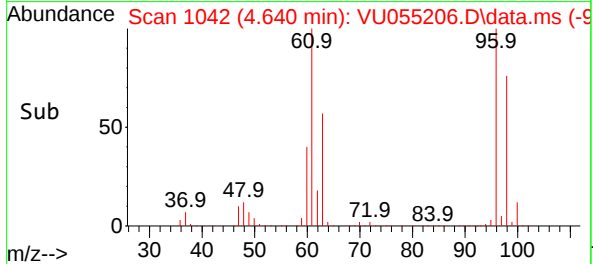
Instrument :
MSVOA_U
ClientSampleId :
BH4H7



Tgt Ion: 96 Resp:17612430
Ion Ratio Lower Upper
96 100
61 100.0 97.2 180.4
98 75.8 46.1 85.7

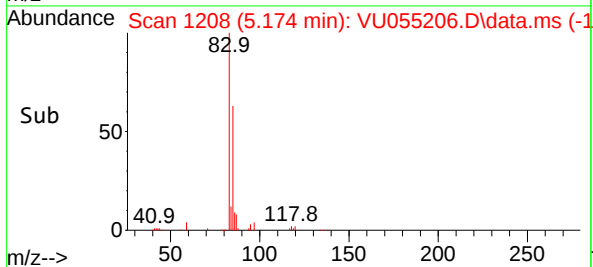
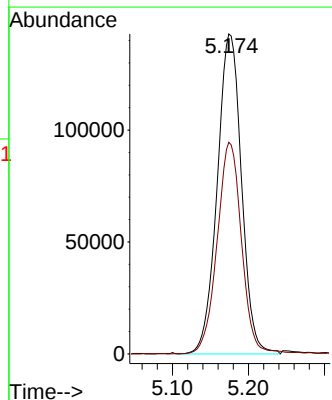
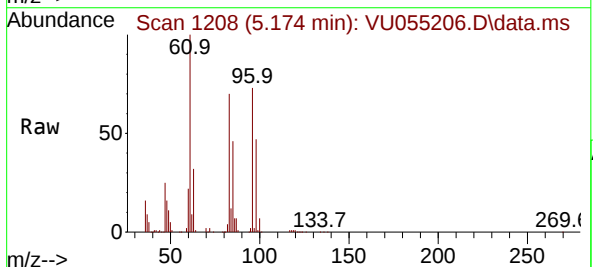
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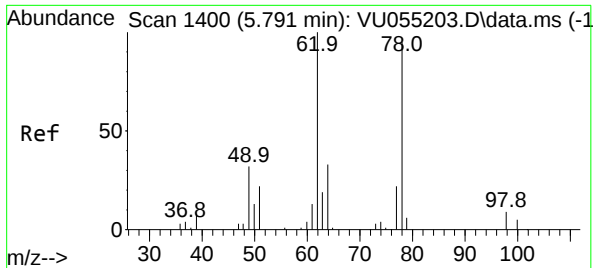
Reviewed By :John Carlone 09/08/2023
Supervised By :Mahesh Dadoda 09/14/2023



#25
Chloroform
Concen: 13.657 ug/L
RT: 5.174 min Scan# 1208
Delta R.T. 0.090 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

Tgt Ion: 83 Resp: 317016
Ion Ratio Lower Upper
83 100
85 66.1 47.2 87.6





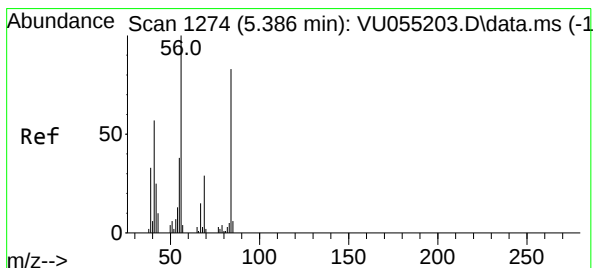
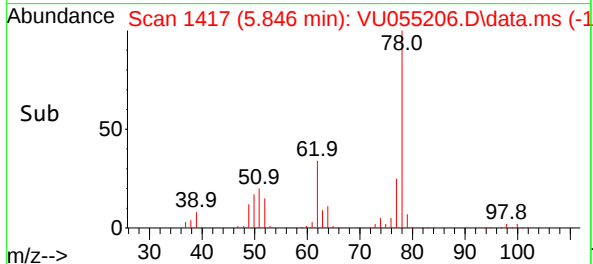
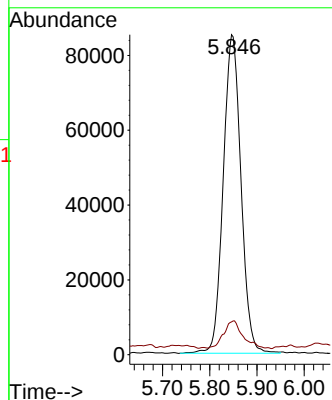
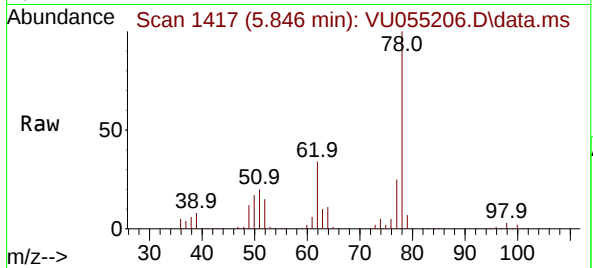
#27
1,2-Dichloroethane
Concen: 15.742 ug/L
RT: 5.846 min Scan# 1400
Delta R.T. 0.055 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

Instrument :
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ClientSampleId :
BH4H7

Tgt Ion: 62 Resp: 22303
Ion Ratio Lower Upper
62 100
98 10.2 6.9 10.3

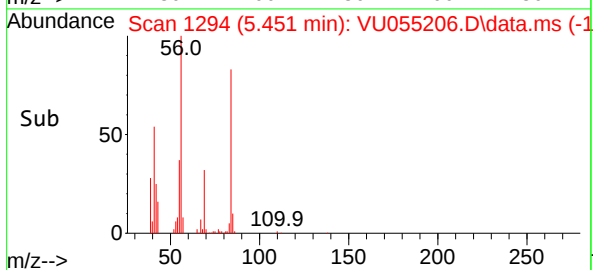
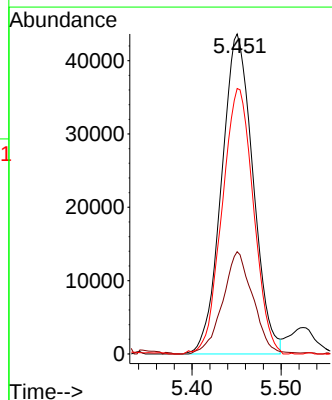
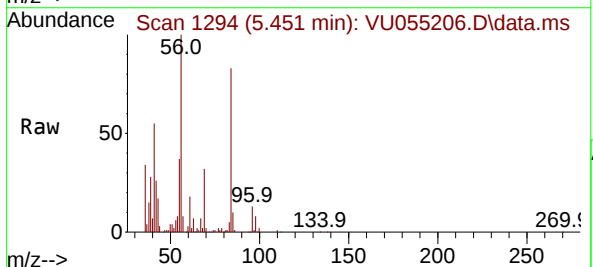
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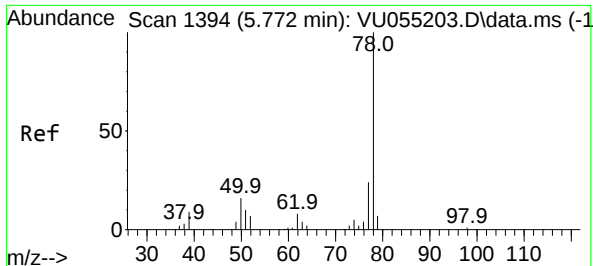
Reviewed By :John Carlone 09/08/2023
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#30
Cyclohexane
Concen: 5.985 ug/L
RT: 5.451 min Scan# 1294
Delta R.T. 0.064 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

Tgt Ion: 56 Resp: 107042
Ion Ratio Lower Upper
56 100
69 30.7 24.6 37.0
84 82.5 68.8 103.2





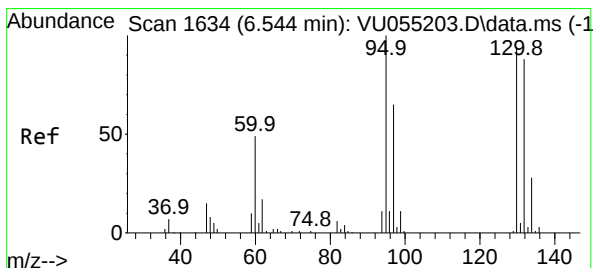
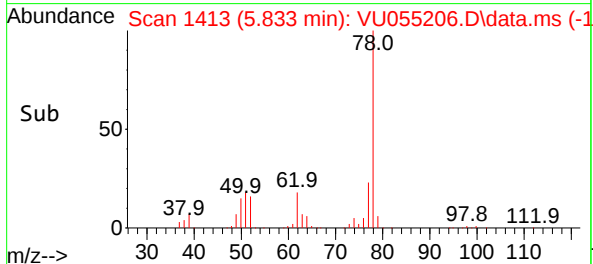
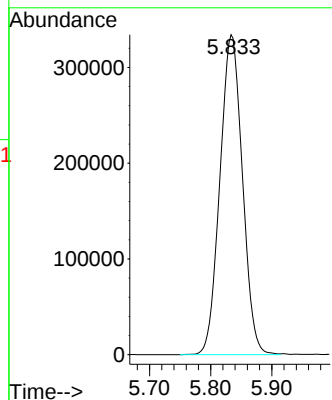
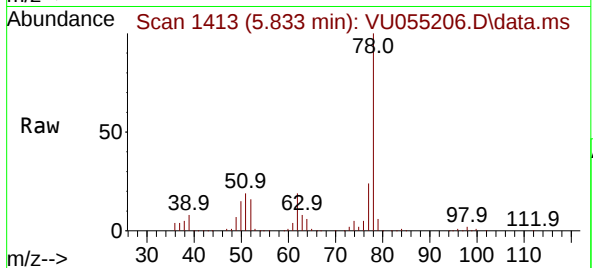
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Benzene
Concen: 17.269 ug/L
RT: 5.833 min Scan# 1413
Delta R.T. 0.061 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

Instrument :
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Tgt Ion: 78 Resp: 85454

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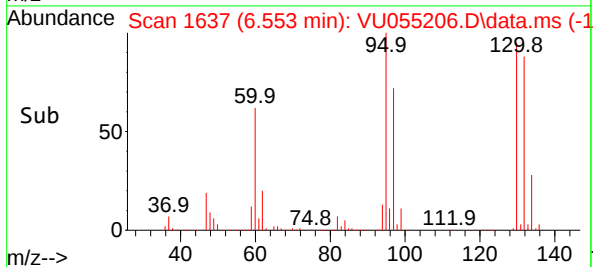
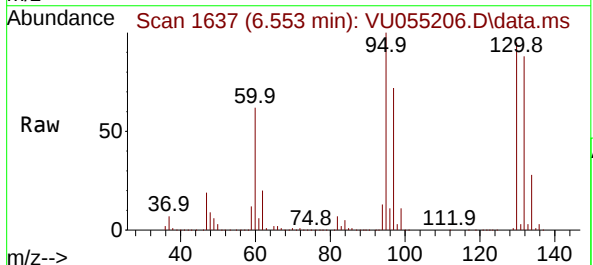
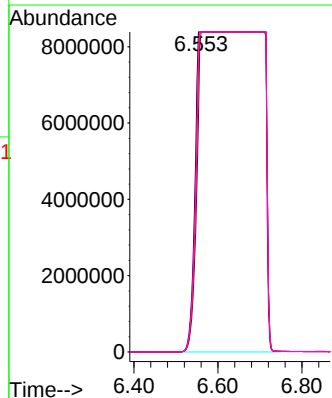
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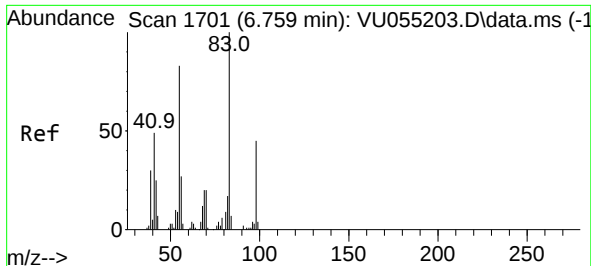


#34
Trichloroethene
Concen: 6396.592 ug/L m
RT: 6.553 min Scan# 1637
Delta R.T. 0.010 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

Tgt Ion: 95 Resp:87969932

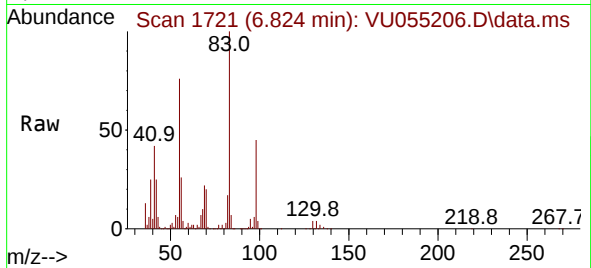
Ion	Ratio	Lower	Upper
95	100		
97	72.5	44.7	83.1
132	88.0	66.6	123.6
130	95.1	66.5	123.5





#35
Methylcyclohexane
Concen: 19.209 ug/L m
RT: 6.824 min Scan# 1
Delta R.T. 0.064 min
Lab File: VU055206.D
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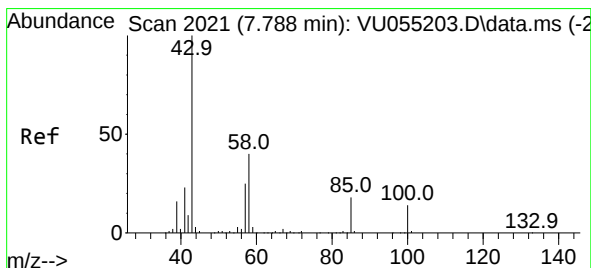
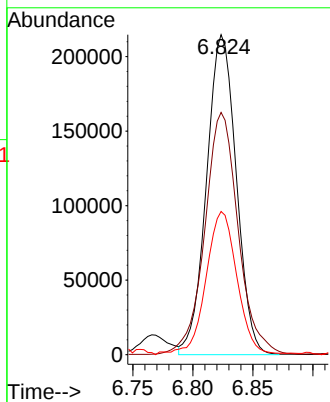
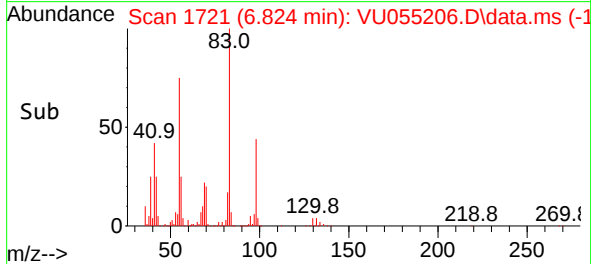
Instrument :
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ClientSampleId :
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Tgt Ion: 83 Resp: 37066
Ion Ratio Lower Upper
83 100
55 0.0 60.4 90.6
98 231.1 35.3 52.9

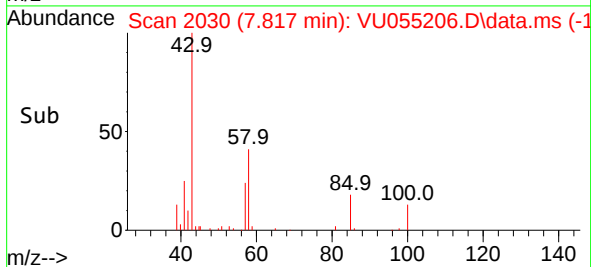
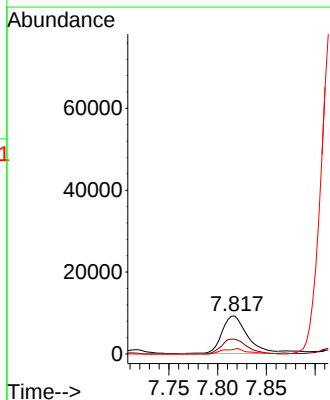
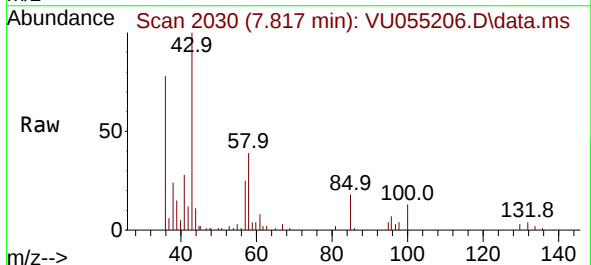
Manual Integrations
APPROVED

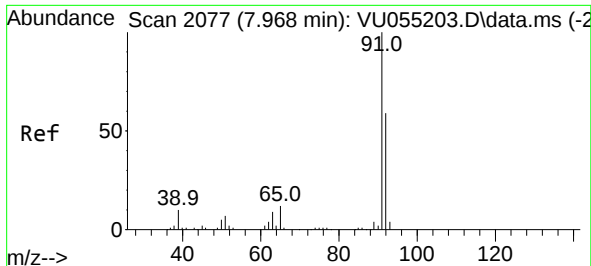
Reviewed By :John Carlone 09/08/2023
Supervised By :Mahesh Dadoda 09/14/2023



#40
4-Methyl-2-pentanone
Concen: 2.155 ug/L
RT: 7.817 min Scan# 2030
Delta R.T. 0.029 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

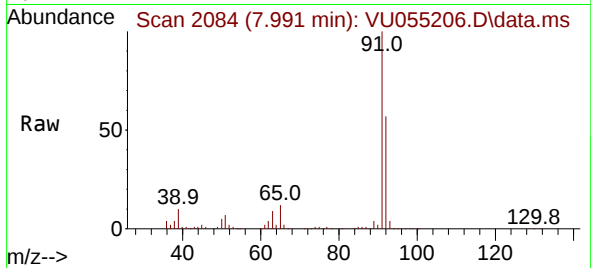
Tgt Ion: 43 Resp: 16559
Ion Ratio Lower Upper
43 100
58 39.4 31.5 47.3
100 0.0 11.8 17.8





#42
Toluene
Concen: 4.984 ug/L
RT: 7.991 min Scan# 2077
Delta R.T. 0.022 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

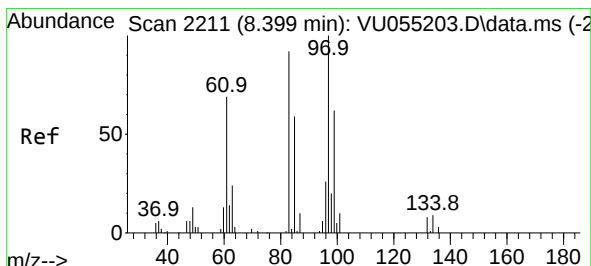
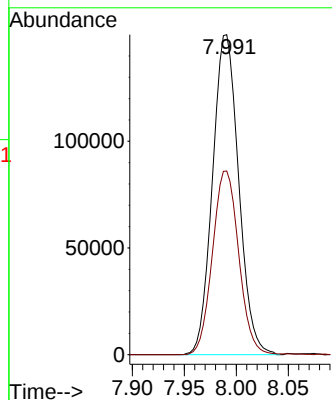
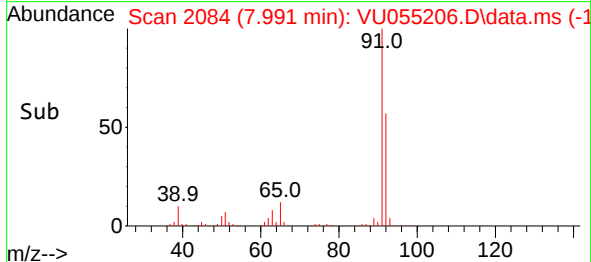
Instrument :
MSVOA_U
ClientSampleId :
BH4H7



Tgt Ion: 91 Resp: 262911
Ion Ratio Lower Upper
91 100
92 57.4 41.9 77.9

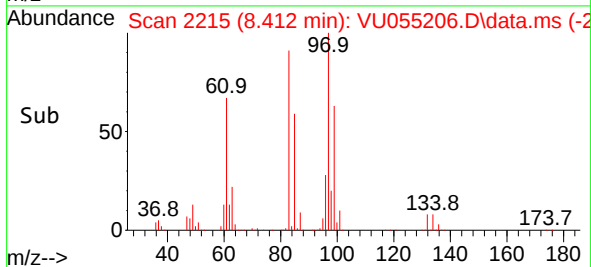
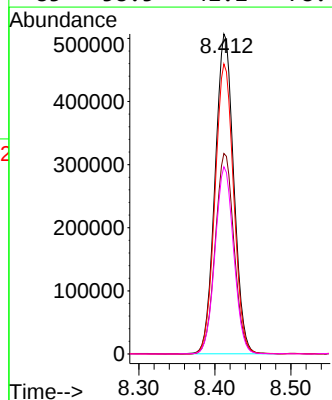
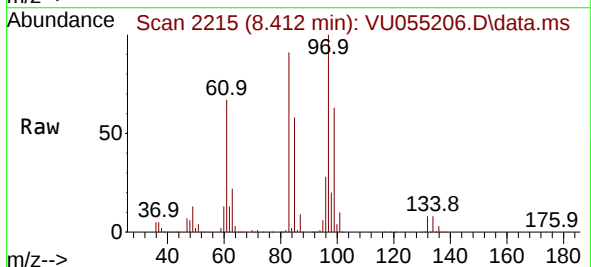
Manual Integrations
APPROVED

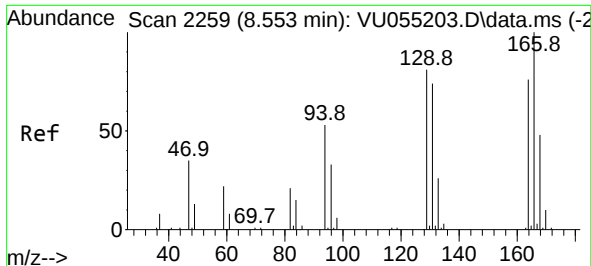
Reviewed By :John Carlone 09/08/2023
Supervised By :Mahesh Dadoda 09/14/2023



#45
1,1,2-Trichloroethane
Concen: 95.389 ug/L
RT: 8.412 min Scan# 2215
Delta R.T. 0.013 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

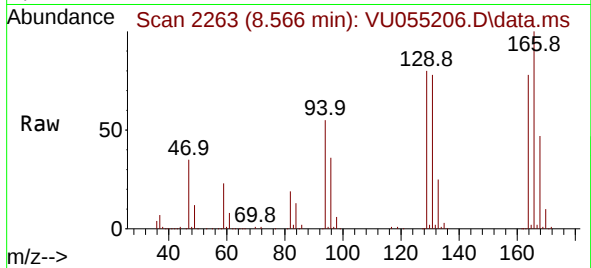
Tgt Ion: 97 Resp: 865573
Ion Ratio Lower Upper
97 100
99 62.6 44.9 83.5
83 90.7 66.9 124.3
85 58.5 42.2 78.4





#47
Tetrachloroethene
Concen: 18.358 ug/L
RT: 8.566 min Scan# 21
Delta R.T. 0.013 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

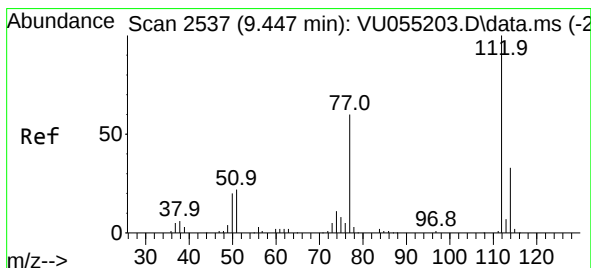
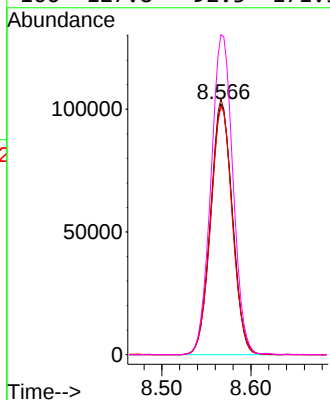
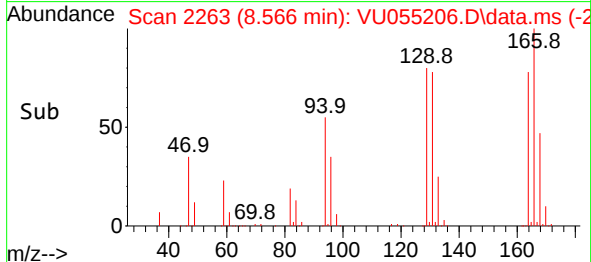
Instrument :
MSVOA_U
ClientSampleId :
BH4H7



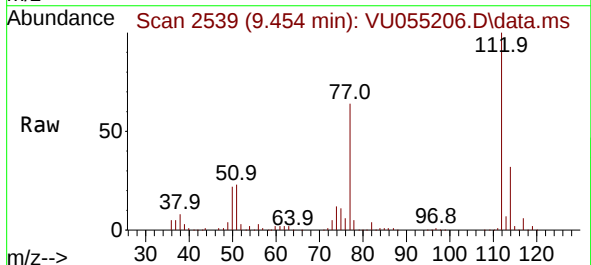
Tgt Ion:164 Resp: 174494
Ion Ratio Lower Upper
164 100
129 102.1 69.2 128.6
131 99.1 68.8 127.8
166 127.8 92.3 171.5

Manual Integrations
APPROVED

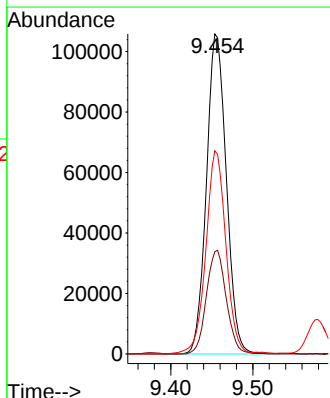
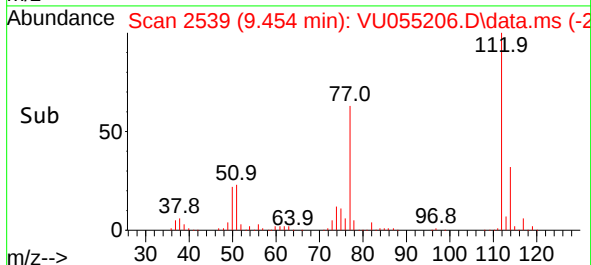
Reviewed By :John Carlone 09/08/2023
Supervised By :Mahesh Dadoda 09/14/2023

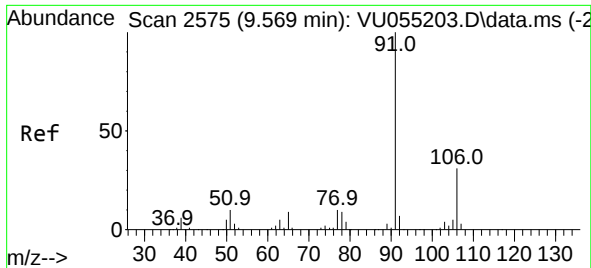


#51
Chlorobenzene
Concen: 5.098 ug/L
RT: 9.454 min Scan# 2539
Delta R.T. 0.006 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44



Tgt Ion:112 Resp: 178129
Ion Ratio Lower Upper
112 100
114 32.0 21.7 40.3
77 63.5 48.6 72.8





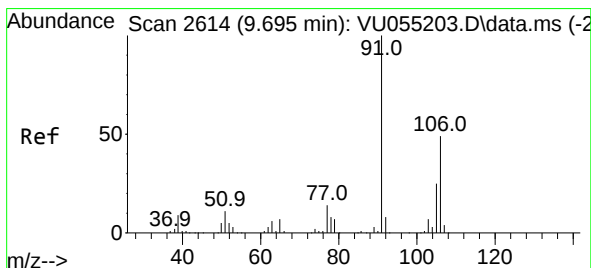
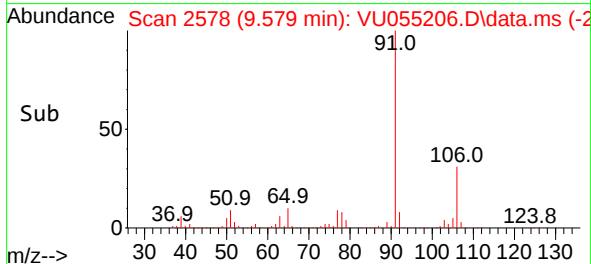
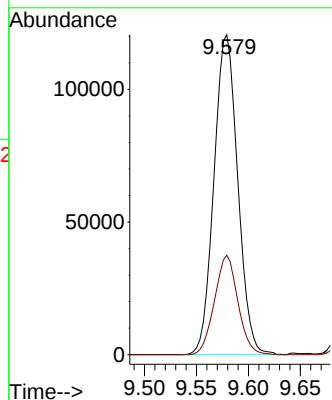
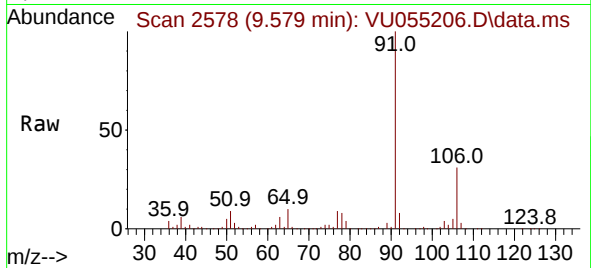
#52
Ethylbenzene
Concen: 3.251 ug/L
RT: 9.579 min Scan# 2187
Delta R.T. 0.010 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

Instrument :
MSVOA_U
ClientSampleId :
BH4H7

Tgt Ion: 91 Resp: 191878
Ion Ratio Lower Upper
91 100
106 31.1 21.5 39.9

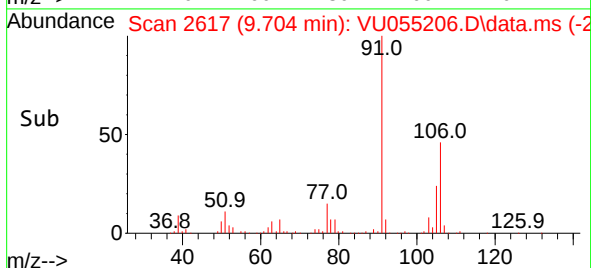
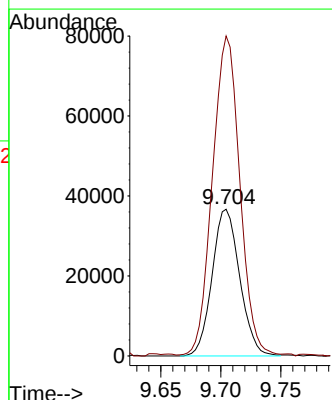
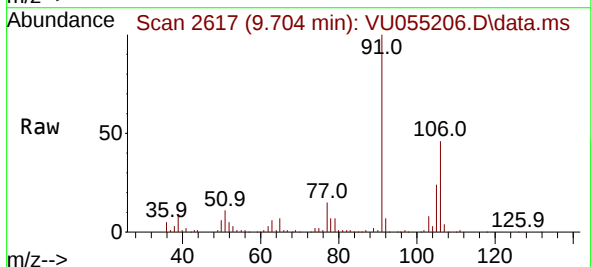
Manual Integrations
APPROVED

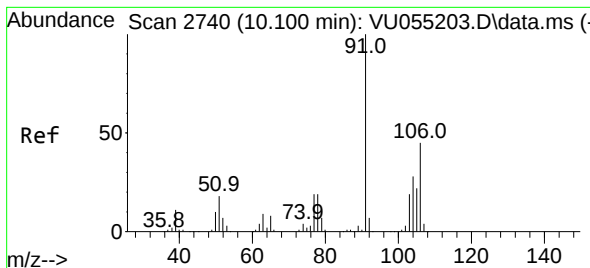
Reviewed By :John Carlone 09/08/2023
Supervised By :Mahesh Dadoda 09/14/2023



#53
m,p-Xylene
Concen: 2.688 ug/L
RT: 9.704 min Scan# 2617
Delta R.T. 0.010 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

Tgt Ion:106 Resp: 58706
Ion Ratio Lower Upper
106 100
91 218.1 148.3 275.5





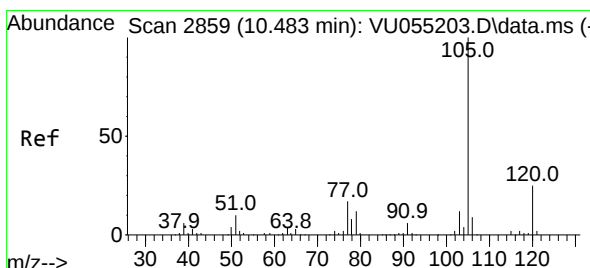
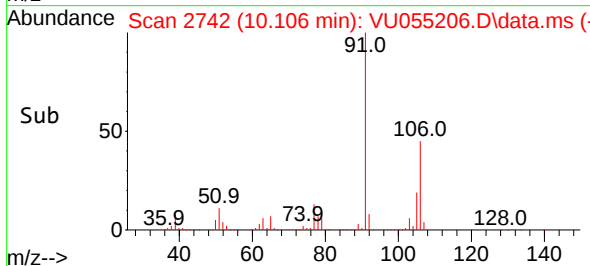
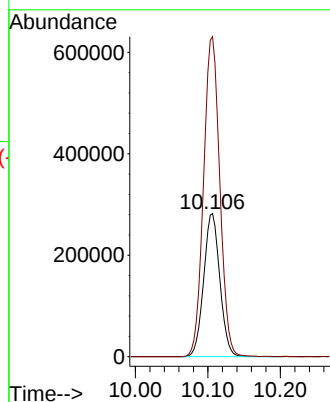
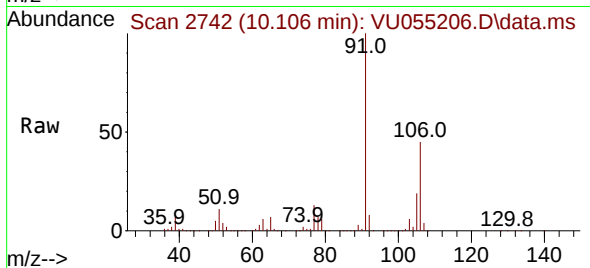
#54
o-Xylene
Concen: 20.338 ug/L
RT: 10.106 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

Instrument :
MSVOA_U
ClientSampleId :
BH4H7

Tgt Ion:106 Resp: 437080
Ion Ratio Lower Upper
106 100
91 223.5 152.9 284.1

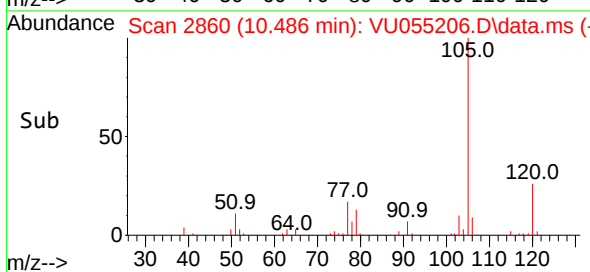
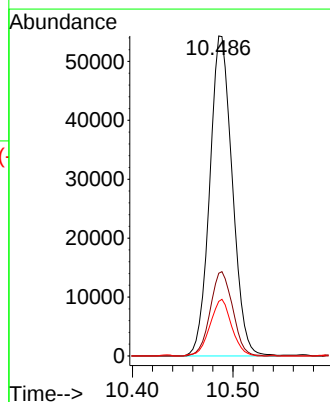
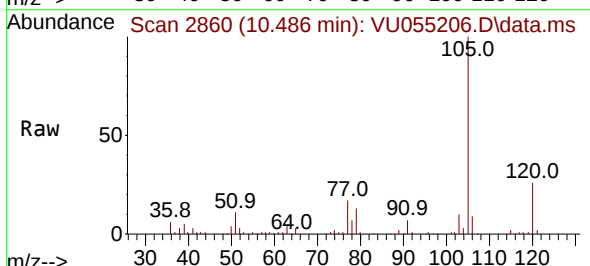
Manual Integrations
APPROVED

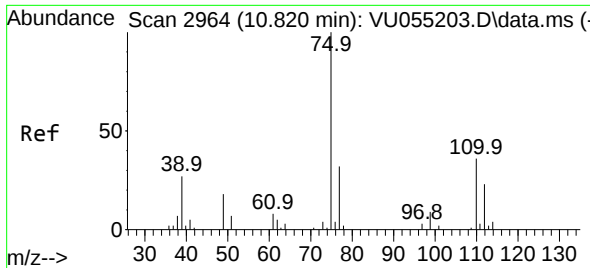
Reviewed By :John Carlone 09/08/2023
Supervised By :Mahesh Dadoda 09/14/2023



#60
Isopropylbenzene
Concen: 1.346 ug/L
RT: 10.486 min Scan# 2860
Delta R.T. 0.003 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

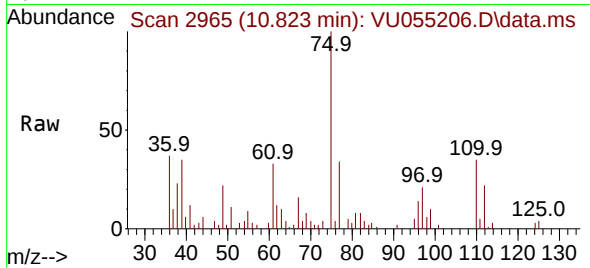
Tgt Ion:105 Resp: 84723
Ion Ratio Lower Upper
105 100
120 26.2 20.1 30.1
77 17.0 13.4 20.0





#61
1,2,3-Trichloropropane
Concen: 1.533 ug/L
RT: 10.823 min Scan# 2964
Delta R.T. 0.003 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

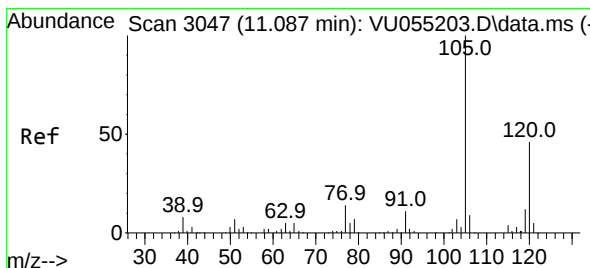
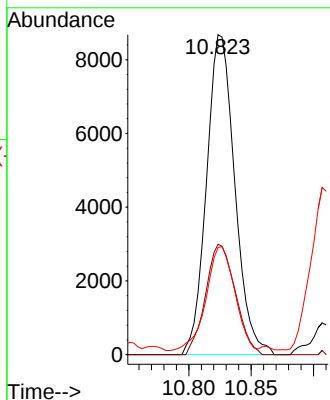
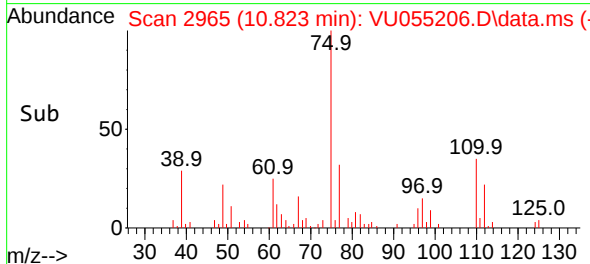
Instrument :
MSVOA_U
ClientSampleId :
BH4H7



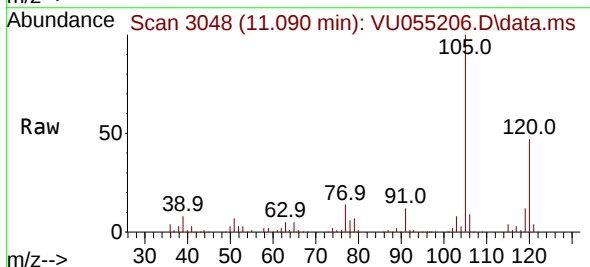
Tgt Ion: 75 Resp: 1373
Ion Ratio Lower Upper
75 100
110 36.1 28.2 42.2
77 32.7 26.2 39.4

Manual Integrations
APPROVED

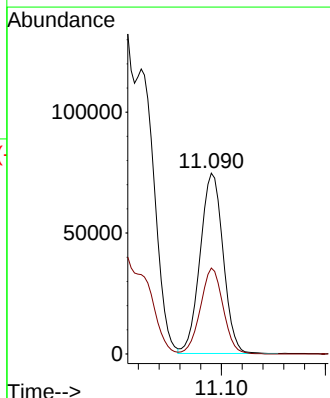
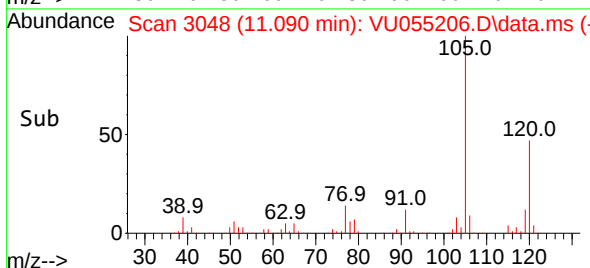
Reviewed By :John Carlone 09/08/2023
Supervised By :Mahesh Dadoda 09/14/2023

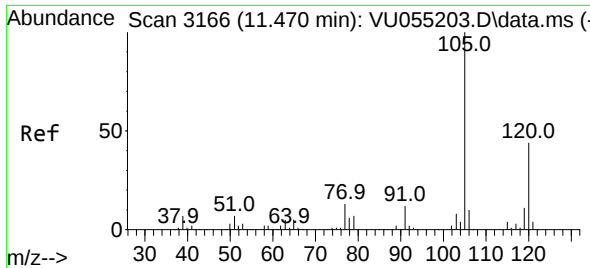


#62
1,3,5-Trimethylbenzene
Concen: 2.193 ug/L
RT: 11.090 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44



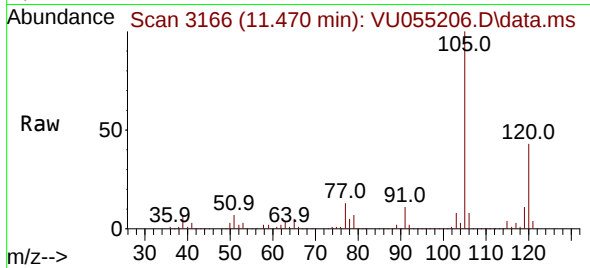
Tgt Ion:105 Resp: 114837
Ion Ratio Lower Upper
105 100
120 46.9 37.9 56.9





#63
 1,2,4-Trimethylbenzene
 Concen: 9.215 ug/L
 RT: 11.470 min Scan# 3166
 Delta R.T. -0.000 min
 Lab File: VU055206.D
 Acq: 07 Sep 2023 23:44

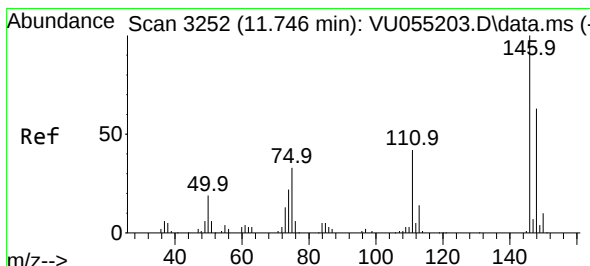
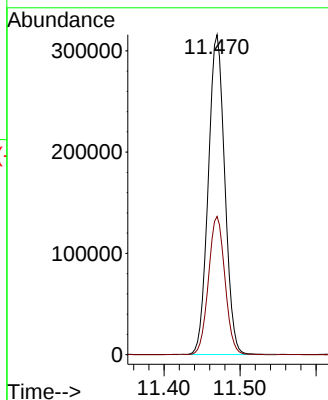
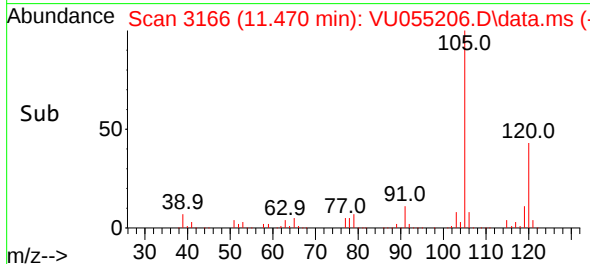
Instrument :
 MSVOA_U
 ClientSampleId :
 BH4H7



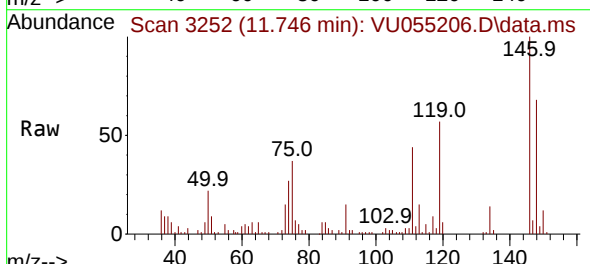
Tgt Ion:105 Resp: 47560
 Ion Ratio Lower Upper
 105 100
 120 43.2 35.4 53.0

Manual Integrations
 APPROVED

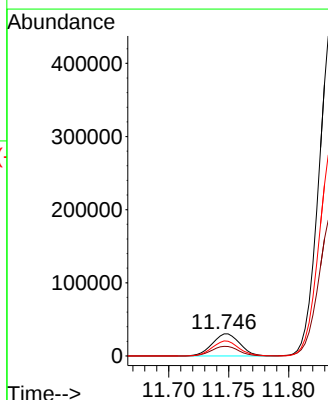
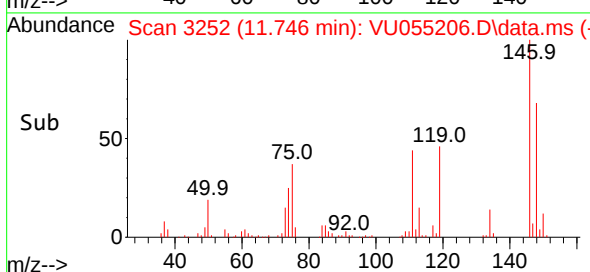
Reviewed By :John Carlone 09/08/2023
 Supervised By :Mahesh Dadoda 09/14/2023

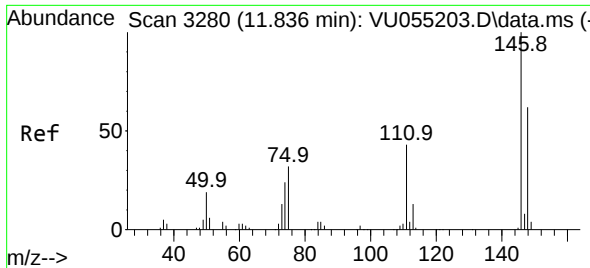


#64
 1,3-Dichlorobenzene
 Concen: 1.605 ug/L
 RT: 11.746 min Scan# 3252
 Delta R.T. -0.000 min
 Lab File: VU055206.D
 Acq: 07 Sep 2023 23:44



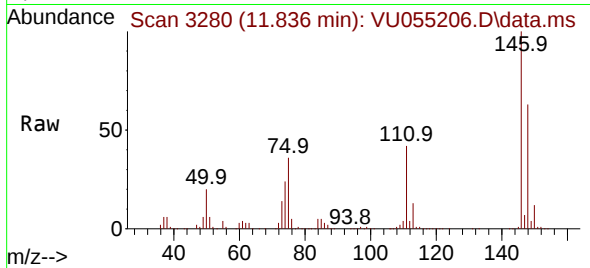
Tgt Ion:146 Resp: 48509
 Ion Ratio Lower Upper
 146 100
 111 43.5 30.0 55.6
 148 67.8 45.2 84.0





#65
1,4-Dichlorobenzene
Concen: 23.686 ug/L
RT: 11.836 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

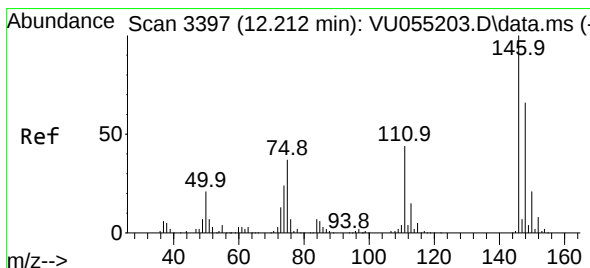
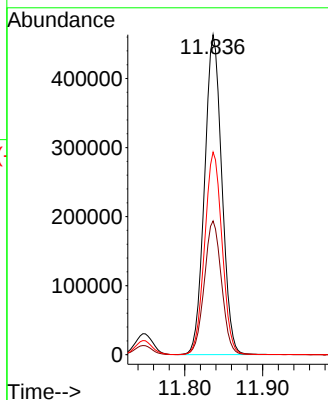
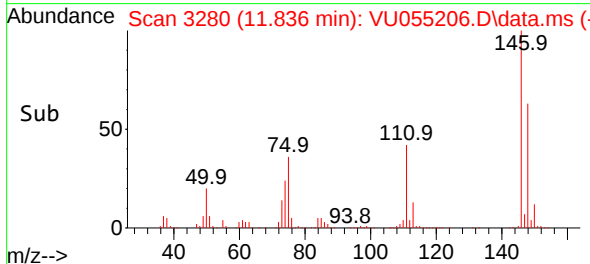
Instrument :
MSVOA_U
ClientSampleId :
BH4H7



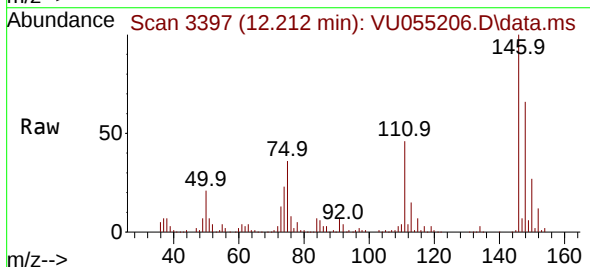
Tgt Ion:146 Resp: 71344
Ion Ratio Lower Upper
146 100
111 41.8 28.1 52.1
148 63.3 43.8 81.3

Manual Integrations
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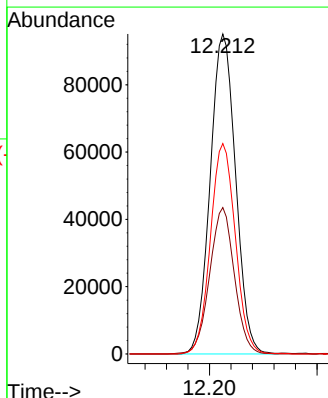
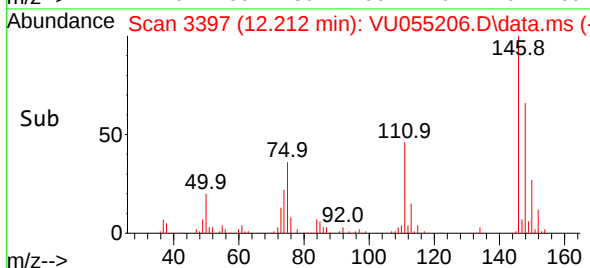
Reviewed By :John Carlone 09/08/2023
Supervised By :Mahesh Dadoda 09/14/2023

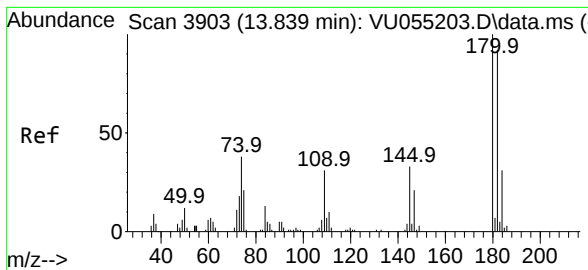


#67
1,2-Dichlorobenzene
Concen: 5.508 ug/L
RT: 12.212 min Scan# 3397
Delta R.T. -0.000 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44



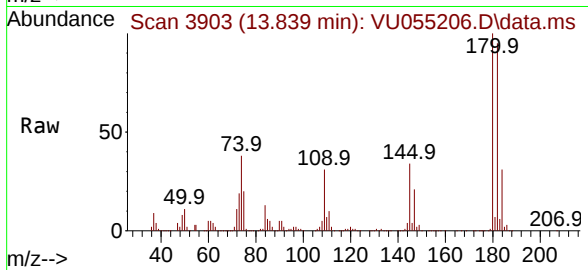
Tgt Ion:146 Resp: 156073
Ion Ratio Lower Upper
146 100
111 45.7 35.6 53.4
148 65.8 51.3 76.9





#70
1,2,4-trichlorobenzene
Concen: 125.976 ug/L
RT: 13.839 min Scan# 3903
Delta R.T. -0.000 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44

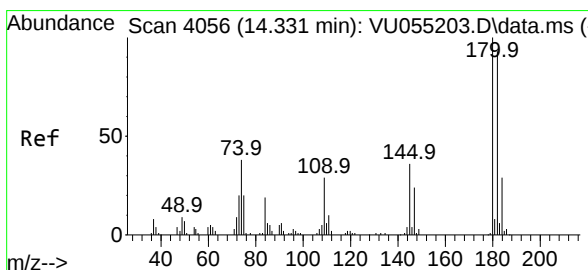
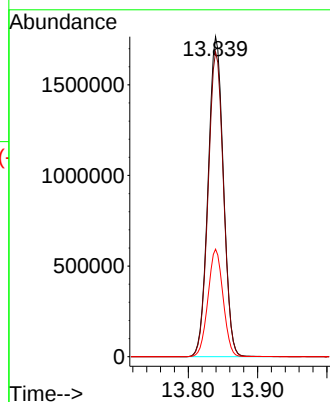
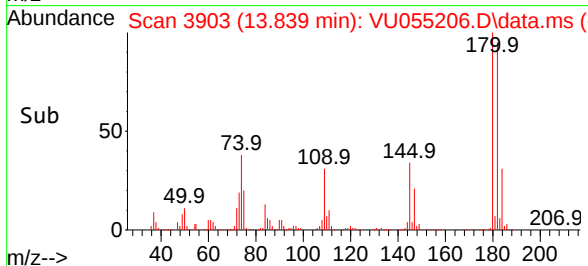
Instrument :
MSVOA_U
ClientSampleId :
BH4H7



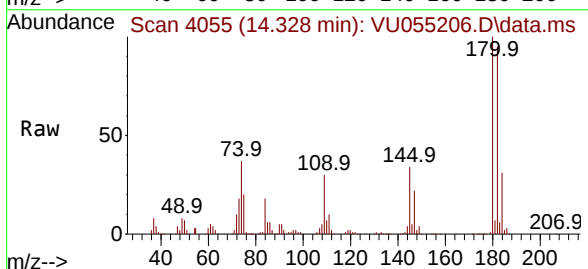
Tgt Ion:180 Resp: 269785
Ion Ratio Lower Upper
180 100
182 95.8 73.6 110.4
145 33.2 25.8 38.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/08/2023
Supervised By :Mahesh Dadoda 09/14/2023



#72
1,2,3-Trichlorobenzene
Concen: 43.289 ug/L
RT: 14.328 min Scan# 4055
Delta R.T. -0.003 min
Lab File: VU055206.D
Acq: 07 Sep 2023 23:44



Tgt Ion:180 Resp: 804660
Ion Ratio Lower Upper
180 100
182 95.1 75.6 113.4
145 34.3 27.0 40.6

