

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032422\
 Data File : VU047651.D
 Acq On : 24 Mar 2022 22:39
 Operator : SY/MD
 Sample : N2081-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EW5X7

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/25/2022
 Supervised By : Mahesh Dadoda 03/29/2022

Quant Time: Mar 24 23:51:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 24 23:34:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	303132	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	312574	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	193498	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	100680	45.801	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.600%
7) Chloroethane-d5	1.919	69	79753	46.013	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.020%
11) 1,1-Dichloroethene-d2	2.584	63	344318	85.613	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	171.220%#
21) 2-Butanone-d5	4.658	46	247447	131.149	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	131.150%#
24) Chloroform-d	5.070	84	187246	46.554	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.100%
26) 1,2-Dichloroethane-d4	5.707	65	119877	48.595	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.200%
32) Benzene-d6	5.732	84	385968	49.073	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.140%
36) 1,2-Dichloropropane-d6	6.694	67	123005	50.924	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.840%
41) Toluene-d8	7.899	98	380179	49.612	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.220%
43) trans-1,3-Dichloroprop...	8.179	79	61664	50.390	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.780%
47) 2-Hexanone-d5	8.636	63	153159	108.314	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.310%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	206239	49.751	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.500%
66) 1,2-Dichlorobenzene-d4	12.192	152	181709	52.784	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.560%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	316536	115.480	ug/L	99
8) Chloroethane	1.938	64	100973	58.681	ug/L	98
9) Trichlorofluoromethane	2.144	101	14135	3.657	ug/L	89
12) 1,1-Dichloroethene	2.588	96	404507	194.535	ug/L #	74
13) Acetone	2.655	43	11666	6.644	ug/L	64
15) Methyl Acetate	2.964	43	3373	1.205	ug/L #	81
16) Methylene chloride	3.054	84	10037	4.206	ug/L	98
17) trans-1,2-Dichloroethene	3.363	96	362453	161.608	ug/L	95
19) 1,1-Dichloroethane	3.877	63	15457161	3996.128	ug/L	99
20) cis-1,2-Dichloroethene	4.662	96	29598207m	12037.697	ug/L	
27) 1,2-Dichloroethane	5.797	62	140478	43.662	ug/L	97
29) Cyclohexane	5.391	56	8677	2.736	ug/L	87
30) 1,1,1-Trichloroethane	5.324	97	9985395	2817.338	ug/L	99
33) Benzene	5.777	78	128146	14.164	ug/L	100
34) Trichloroethene	6.546	95	22399	9.443	ug/L	95
35) Methylcyclohexane	6.764	83	27473	7.613	ug/L	96
40) 4-Methyl-2-pentanone	7.793	43	147228	40.501	ug/L	98
42) Toluene	7.970	91	2212137	222.834	ug/L	99
45) 1,1,2-Trichloroethane	8.401	97	16874	6.917	ug/L	99

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

46) Tetrachloroethene	8.555	164	16543	7.761	ug/L	95
52) Ethylbenzene	9.571	91	1137582	108.982	ug/L	99
53) m,p-Xylene	9.693	106	1554675	379.583	ug/L	99
54) o-Xylene	10.102	106	905842	225.343	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.783	83	4107	0.898	ug/L	96
61) Isopropylbenzene	10.484	105	192137	18.373	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	1488004	262.248	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	6773271	785.879	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	20925	3.598	ug/L	97

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

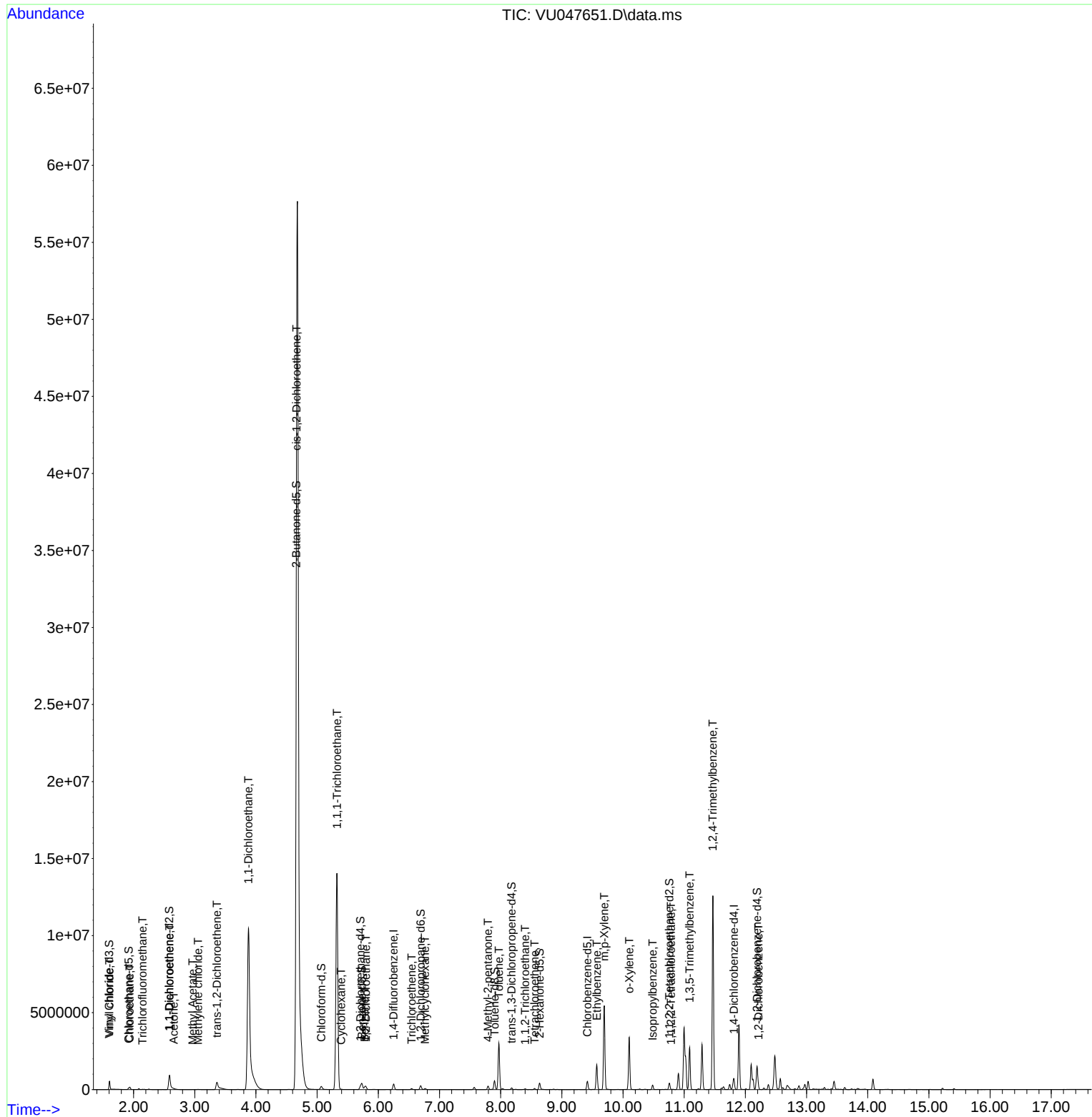
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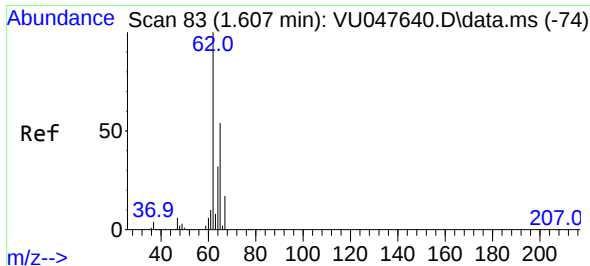
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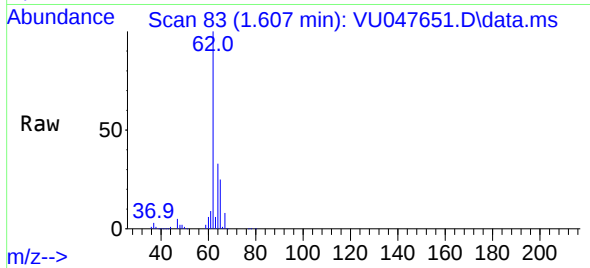
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
Quant Title : VOC Analysis
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#5
 Vinyl chloride
 Concen: 115.480 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU047651.D
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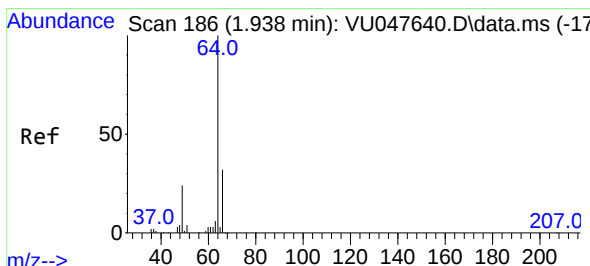
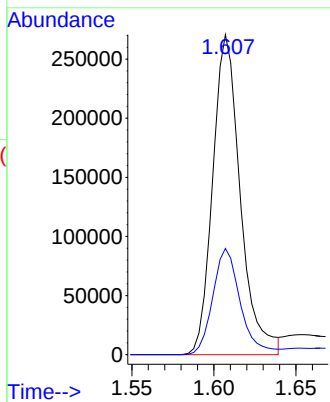
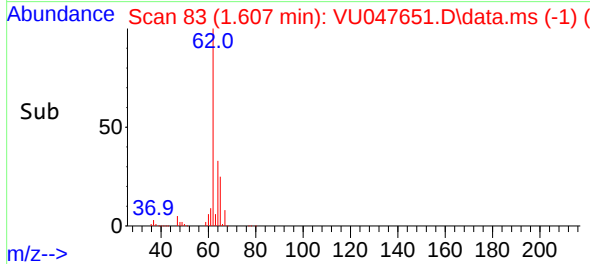
Instrument :
 MSVOA_U
 ClientSampleId :
 EW5X7



Tgt Ion: 62 Resp: 316530
 Ion Ratio Lower Upper
 62 100
 64 33.2 23.7 43.9

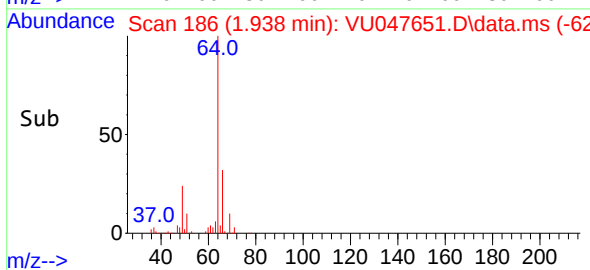
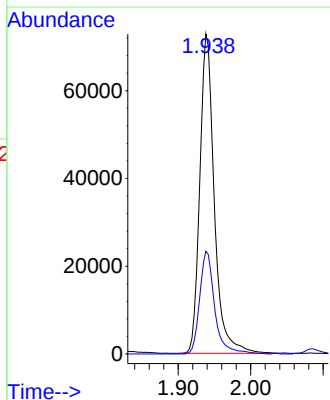
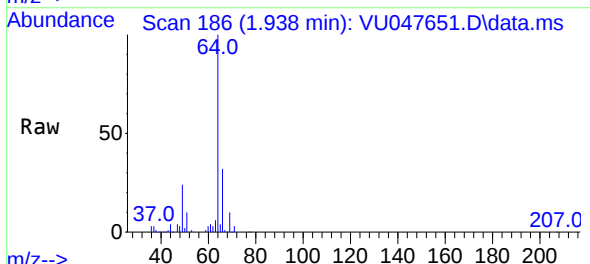
Manual Integrations
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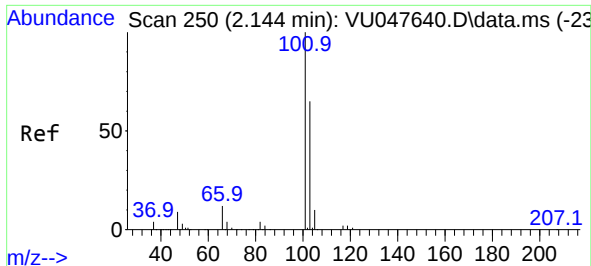
Reviewed By :John Carlone 03/25/2022
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#8
 Chloroethane
 Concen: 58.681 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. 0.000 min
 Lab File: VU047651.D
 Acq: 24 Mar 2022 22:39

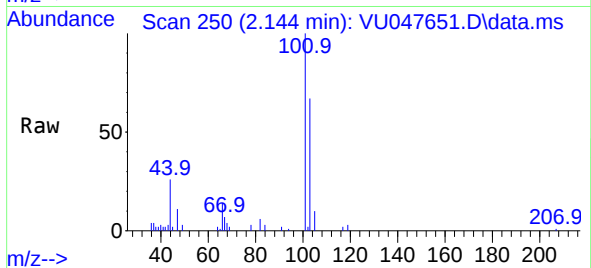
Tgt Ion: 64 Resp: 100973
 Ion Ratio Lower Upper
 64 100
 66 32.1 23.3 43.3





#9
 Trichlorofluoromethane
 Concen: 3.657 ug/L
 RT: 2.144 min Scan# 2143
 Delta R.T. 0.000 min
 Lab File: VU047651.D
 Acq: 24 Mar 2022 22:39

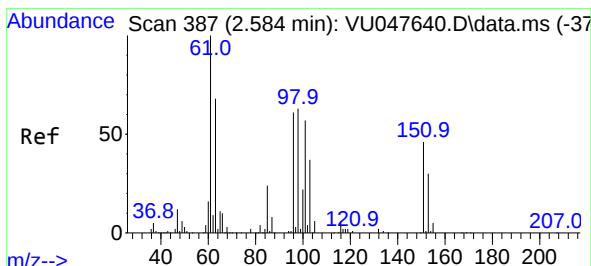
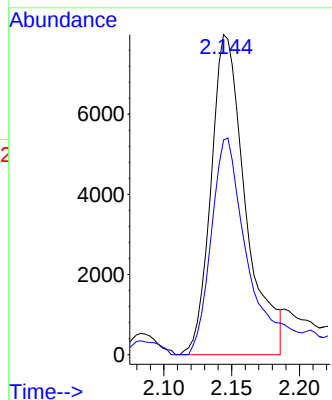
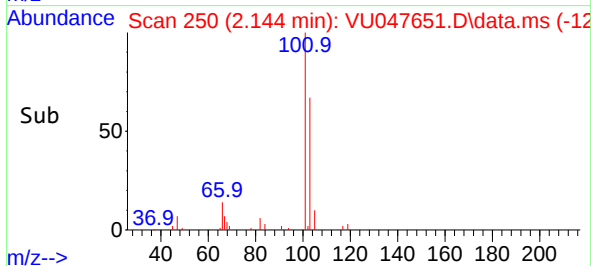
Instrument :
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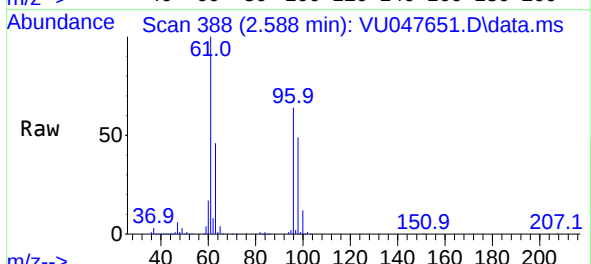
Tgt Ion:101 Resp: 14135
 Ion Ratio Lower Upper
 101 100
 103 72.7 51.4 77.2

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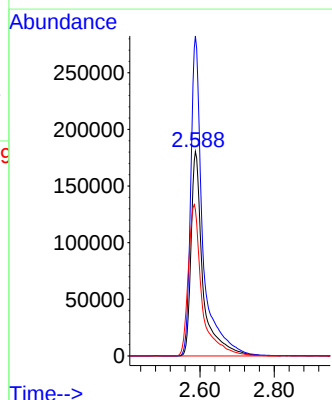
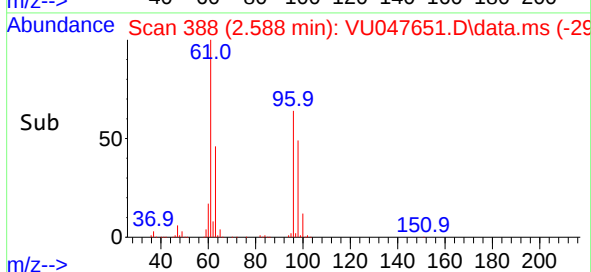
Reviewed By :John Carlone 03/25/2022
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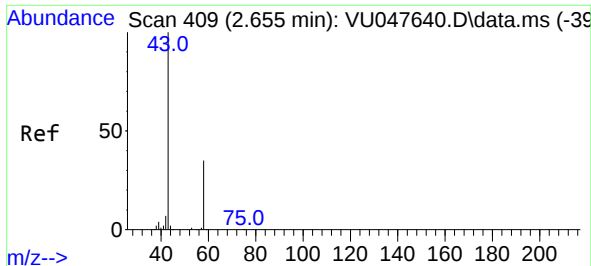


#12
 1,1-Dichloroethene
 Concen: 194.535 ug/L
 RT: 2.588 min Scan# 388
 Delta R.T. 0.003 min
 Lab File: VU047651.D
 Acq: 24 Mar 2022 22:39



Tgt Ion: 96 Resp: 404507
 Ion Ratio Lower Upper
 96 100
 61 156.5 113.1 210.1
 63 71.6 94.8 176.0#





#13

Acetone

Concen: 6.644 ug/L

RT: 2.655 min Scan# 409

Delta R.T. 0.000 min

Lab File: VU047651.D

Acq: 24 Mar 2022 22:39

Instrument :

MSVOA_U

ClientSampleId :

EW5X7

Tgt Ion: 43 Resp: 1166

Ion Ratio Lower Upper

43 100

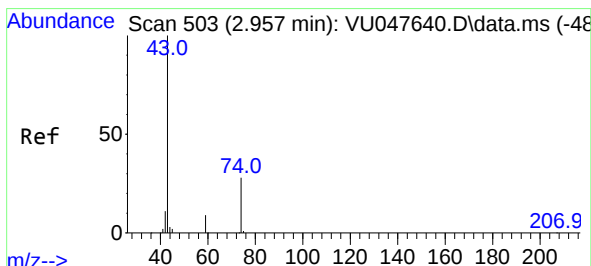
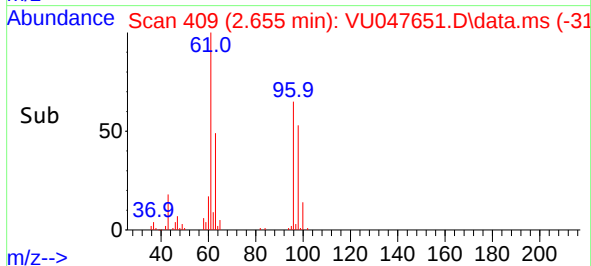
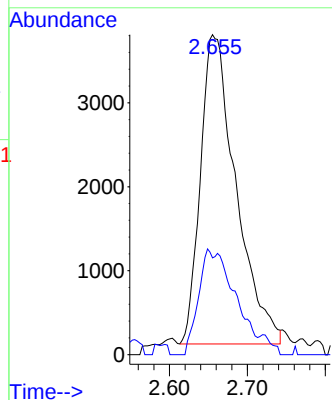
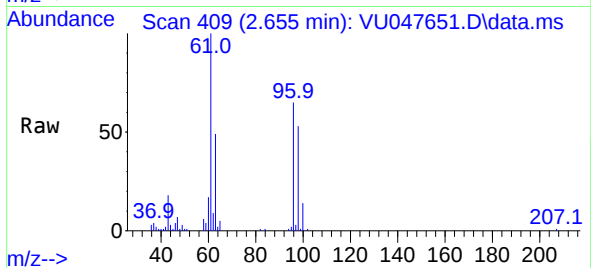
58 13.9 0.0 70.0

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#15

Methyl Acetate

Concen: 1.205 ug/L

RT: 2.964 min Scan# 505

Delta R.T. 0.007 min

Lab File: VU047651.D

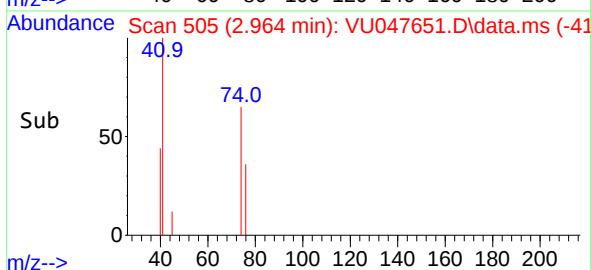
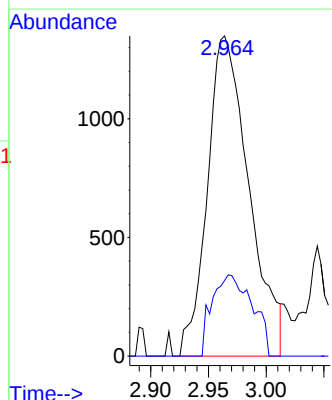
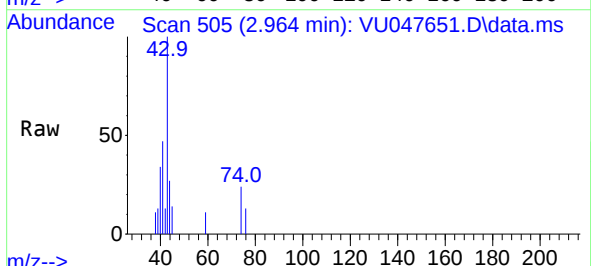
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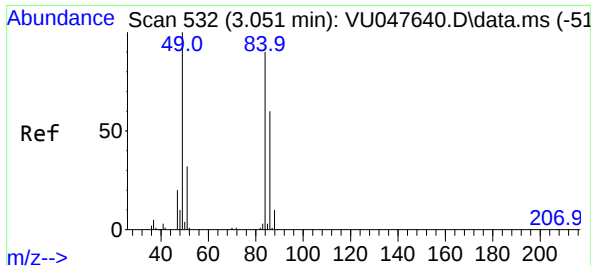
Tgt Ion: 43 Resp: 3373

Ion Ratio Lower Upper

43 100

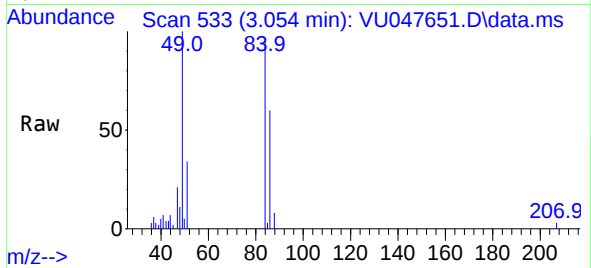
74 17.6 22.2 33.2#





#16
Methylene chloride
Concen: 4.206 ug/L
RT: 3.054 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

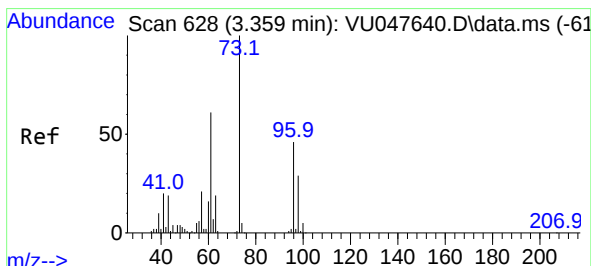
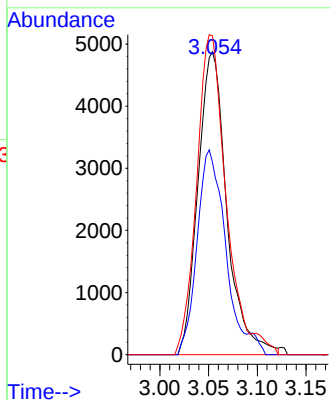
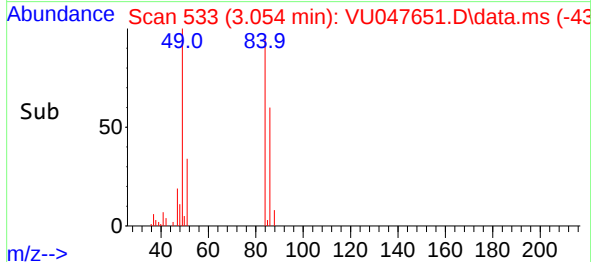
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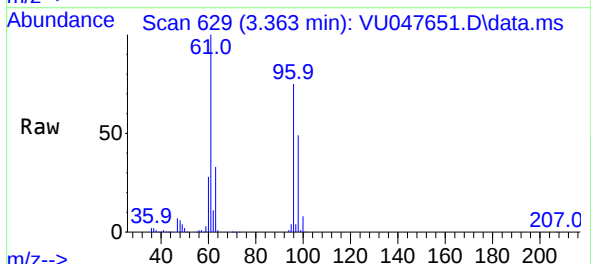
Tgt Ion: 84 Resp: 1003
Ion Ratio Lower Upper
84 100
86 63.6 46.0 85.4
49 105.3 75.3 139.8

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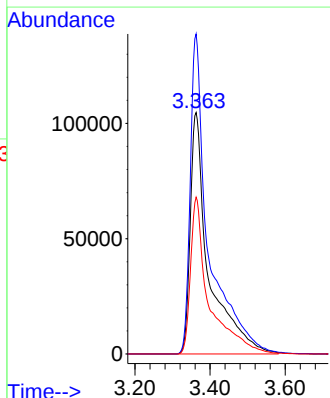
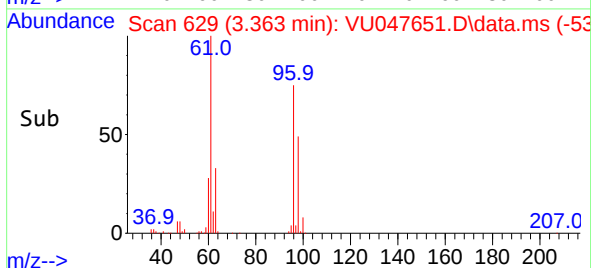
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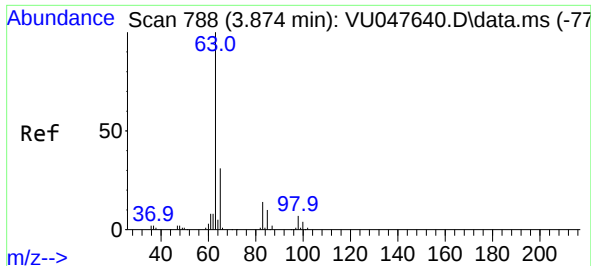


#17
trans-1,2-Dichloroethene
Concen: 161.608 ug/L
RT: 3.363 min Scan# 629
Delta R.T. 0.003 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39



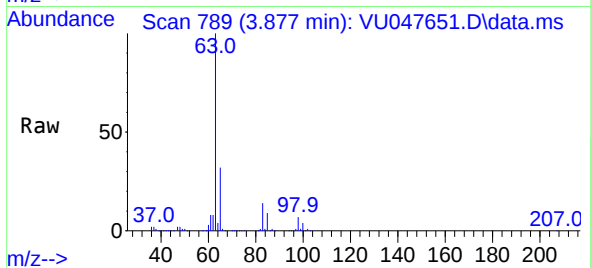
Tgt Ion: 96 Resp: 362453
Ion Ratio Lower Upper
96 100
61 132.5 88.4 164.2
98 65.0 43.3 80.5





#19
1,1-Dichloroethane
Concen: 3996.128 ug/L
RT: 3.877 min Scan# 788
Delta R.T. 0.003 min
Lab File: VU047651.D
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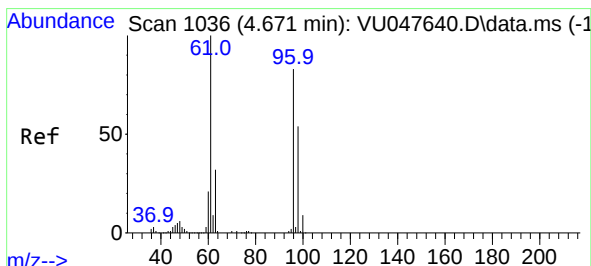
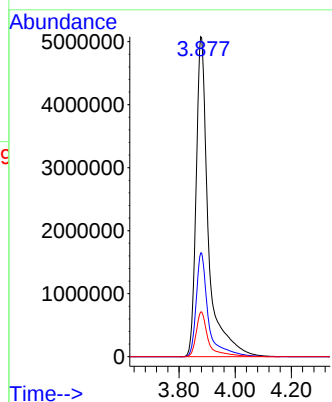
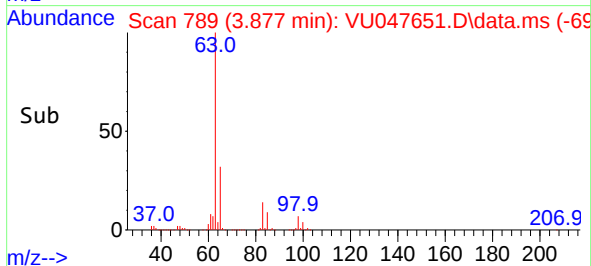
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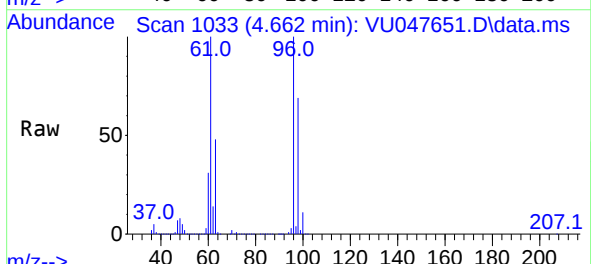
Tgt Ion: 63 Resp:1545716
Ion Ratio Lower Upper
63 100
65 32.4 22.0 41.0
83 14.0 9.7 18.1

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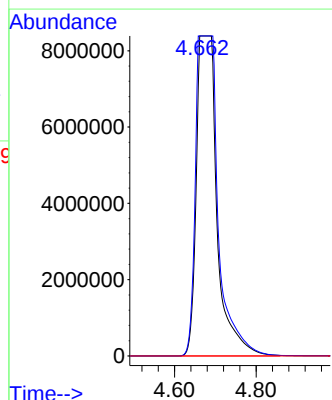
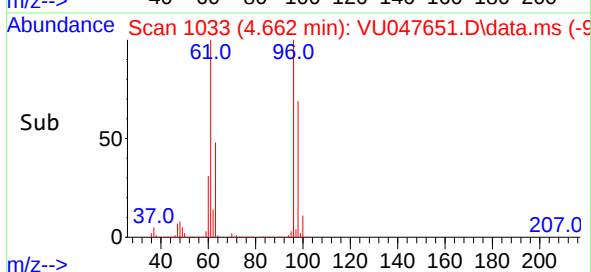
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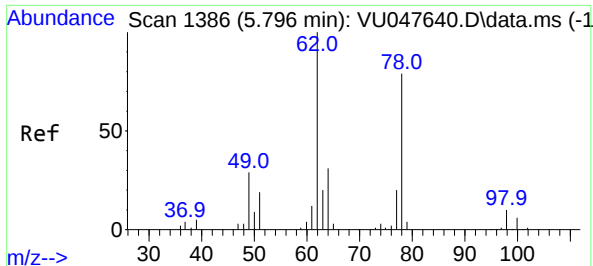


#20
cis-1,2-Dichloroethene
Concen: 12037.697 ug/L m
RT: 4.662 min Scan# 1033
Delta R.T. -0.010 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39



Tgt Ion: 96 Resp:29598207
Ion Ratio Lower Upper
96 100
61 100.0 80.7 149.9
68 0.0 0.0 0.0





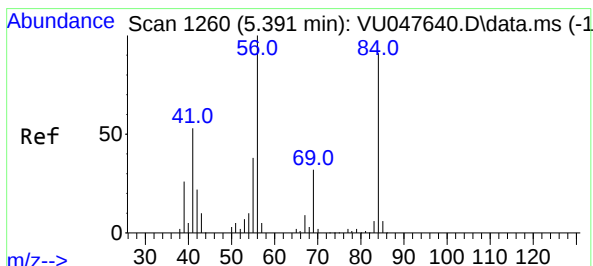
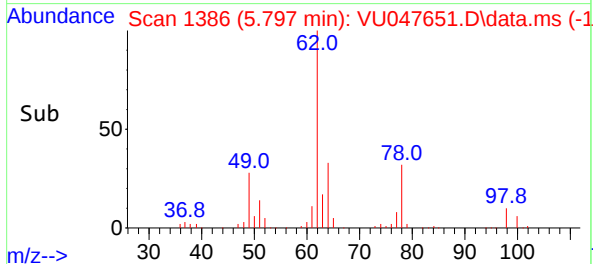
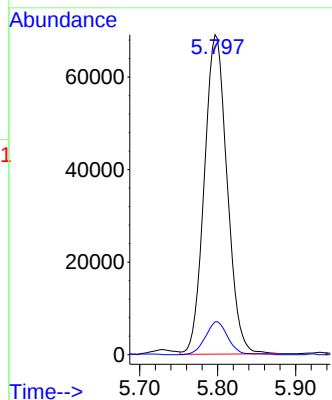
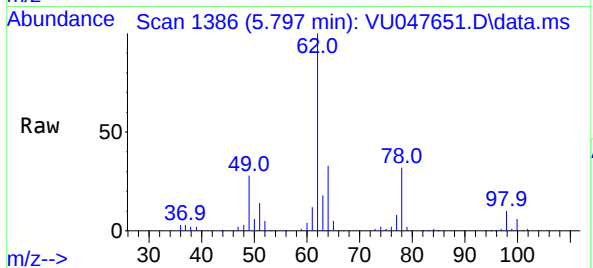
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1,2-Dichloroethane
Concen: 43.662 ug/L
RT: 5.797 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

Instrument :
MSVOA_U
ClientSampleId :
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Tgt Ion: 62 Resp: 140478
Ion Ratio Lower Upper
62 100
98 10.2 7.4 11.0

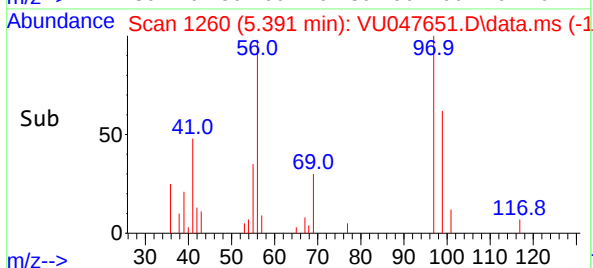
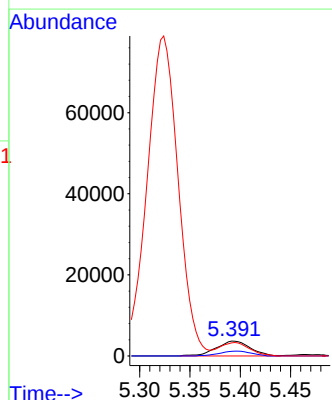
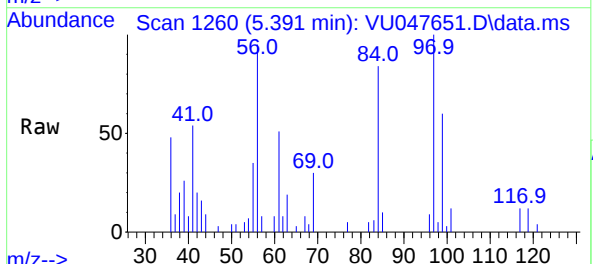
Manual Integrations
APPROVED

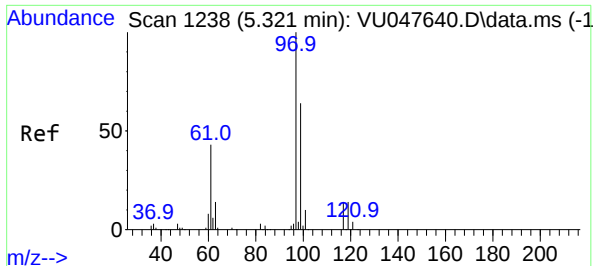
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022



#29
Cyclohexane
Concen: 2.736 ug/L
RT: 5.391 min Scan# 1260
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

Tgt Ion: 56 Resp: 8677
Ion Ratio Lower Upper
56 100
69 29.7 25.4 38.2
84 80.7 77.0 115.6





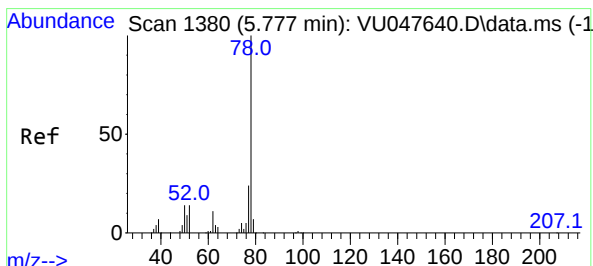
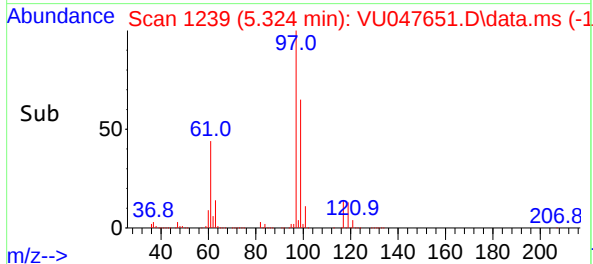
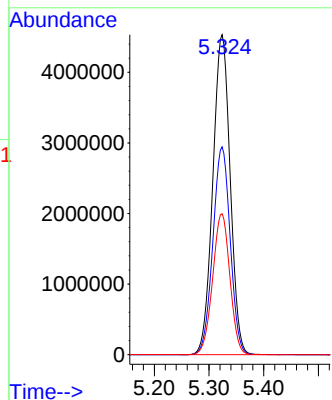
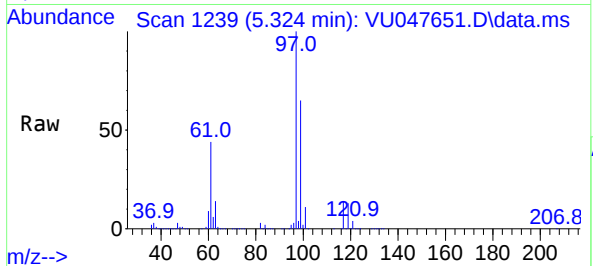
#30
1,1,1-Trichloroethane
Concen: 2817.338 ug/L
RT: 5.324 min Scan# 1238
Delta R.T. 0.003 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

Instrument :
MSVOA_U
ClientSampleId :
EW5X7

Tgt Ion: 97 Resp: 998539
Ion Ratio Lower Upper
97 100
99 64.9 51.6 77.4
61 43.7 34.2 51.4

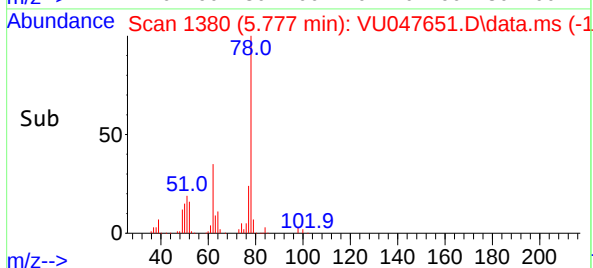
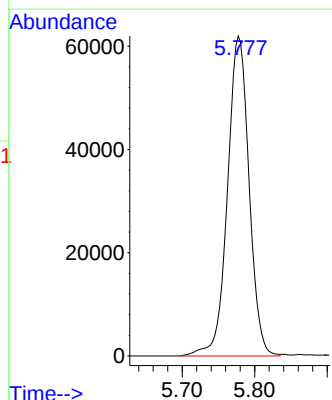
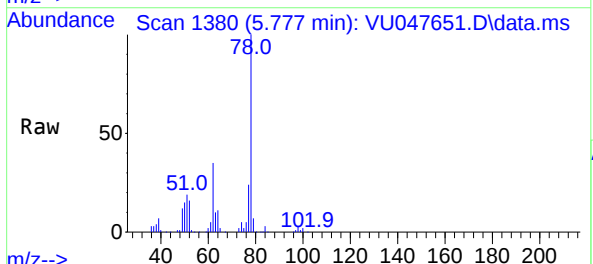
Manual Integrations
APPROVED

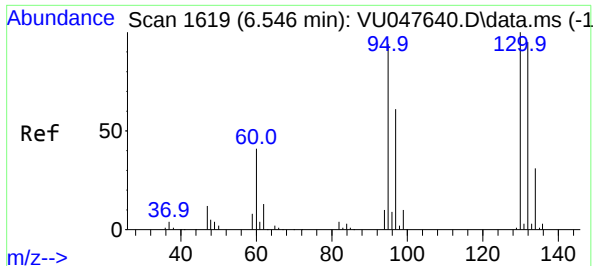
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022



#33
Benzene
Concen: 14.164 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

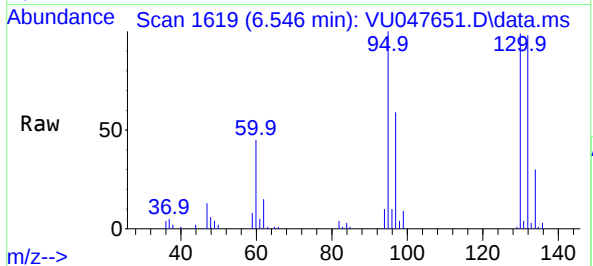
Tgt Ion: 78 Resp: 128146





#34
Trichloroethene
Concen: 9.443 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

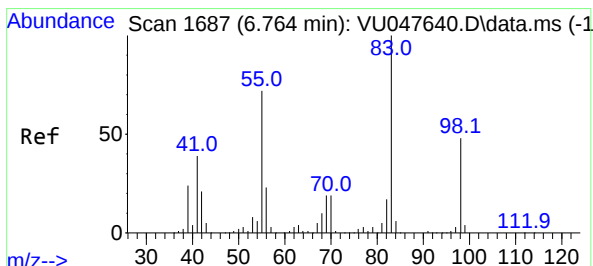
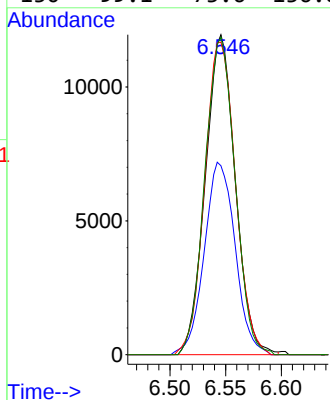
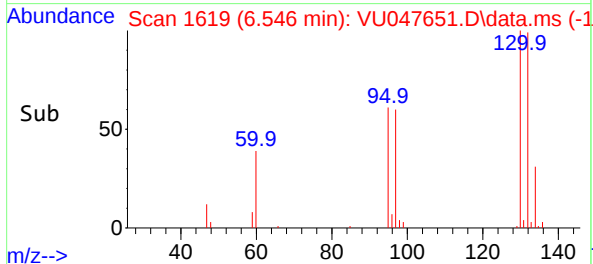
Instrument :
MSVOA_U
ClientSampleId :
EW5X7



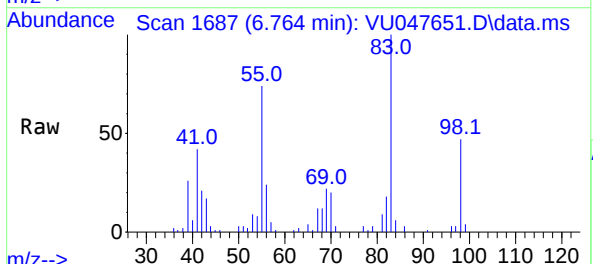
Tgt Ion: 95 Resp: 22395
Ion Ratio Lower Upper
95 100
97 59.1 44.7 82.9
132 97.7 70.4 130.8
130 99.1 73.6 136.8

Manual Integrations
APPROVED

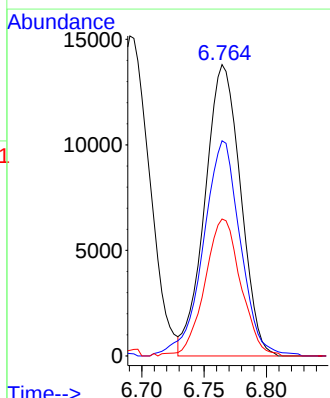
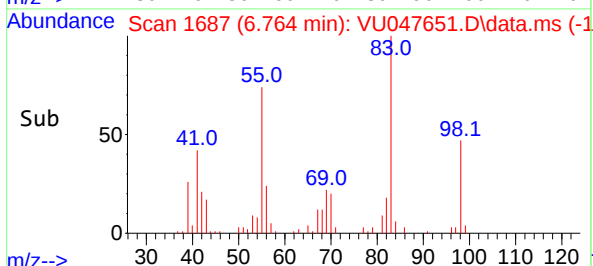
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022

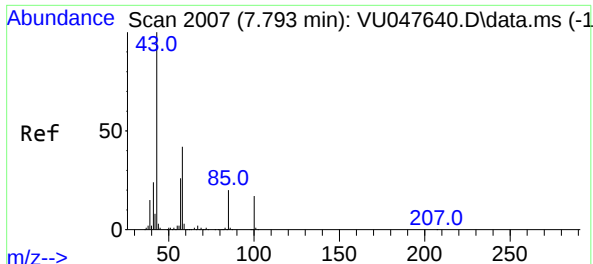


#35
Methylcyclohexane
Concen: 7.613 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39



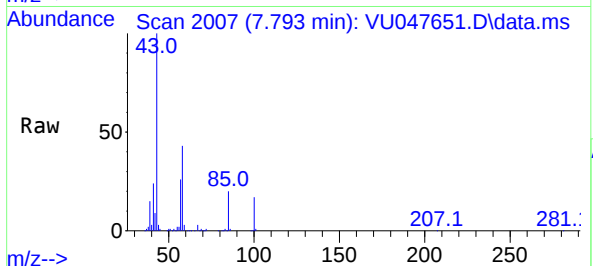
Tgt Ion: 83 Resp: 27473
Ion Ratio Lower Upper
83 100
55 77.0 56.8 85.2
98 47.4 38.1 57.1





#40
4-Methyl-2-pentanone
Concen: 40.501 ug/L
RT: 7.793 min Scan# 2007
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

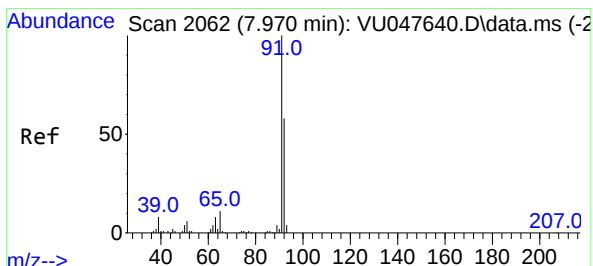
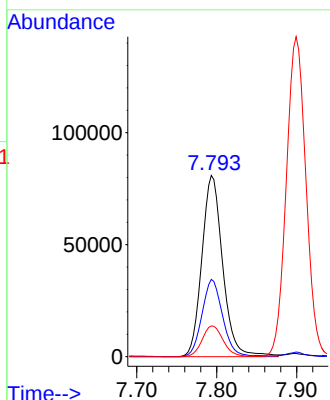
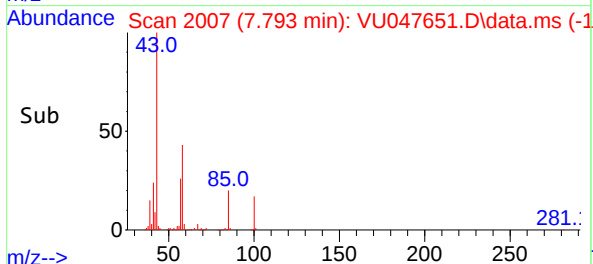
Instrument :
MSVOA_U
ClientSampleId :
EW5X7



Tgt Ion: 43 Resp: 147228
Ion Ratio Lower Upper
43 100
58 41.9 34.7 52.1
100 17.1 14.2 21.2

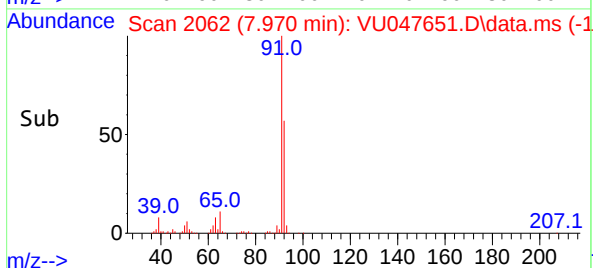
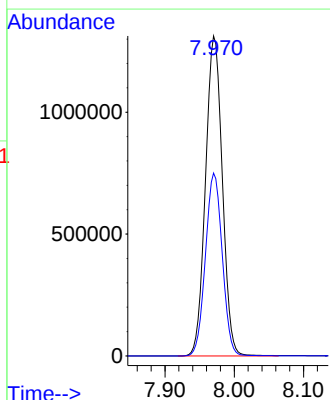
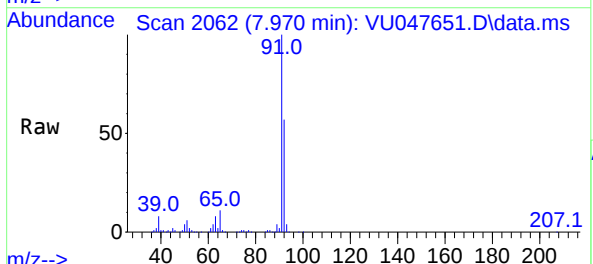
Manual Integrations
APPROVED

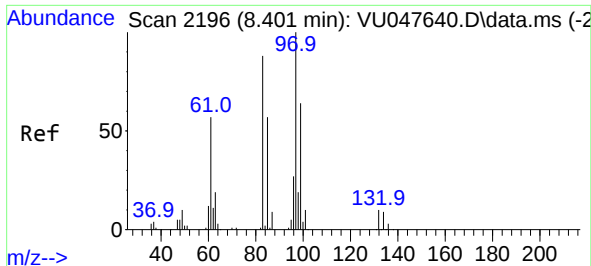
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022



#42
Toluene
Concen: 222.834 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

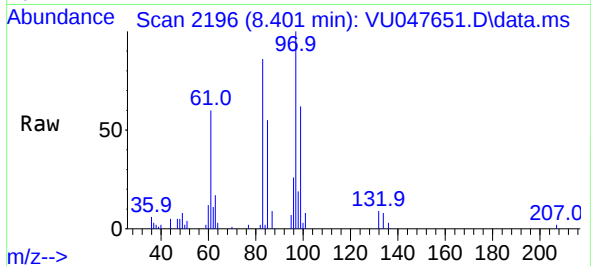
Tgt Ion: 91 Resp: 2212137
Ion Ratio Lower Upper
91 100
92 57.2 40.4 75.0





#45
1,1,2-Trichloroethane
Concen: 6.917 ug/L
RT: 8.401 min Scan# 2196
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

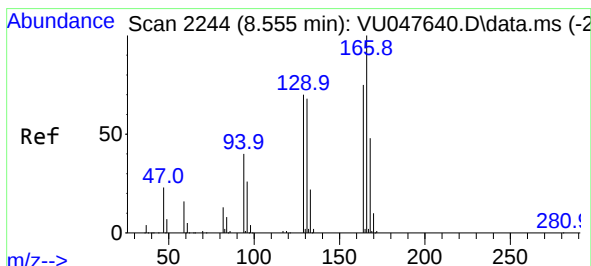
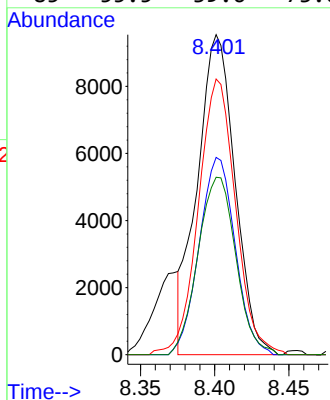
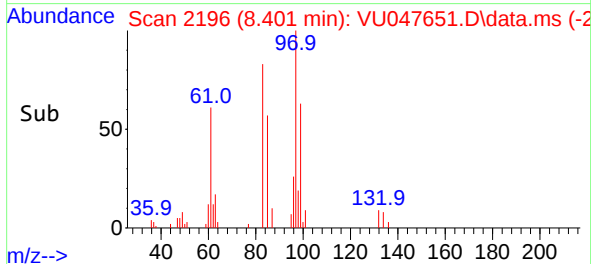
Instrument :
MSVOA_U
ClientSampleId :
EW5X7



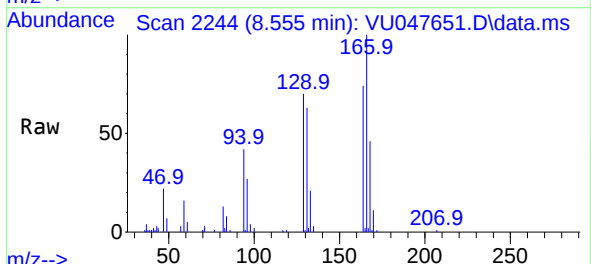
Tgt Ion: 97 Resp: 16874
Ion Ratio Lower Upper
97 100
99 61.6 43.3 80.3
83 86.2 61.0 113.4
85 55.5 39.6 73.6

Manual Integrations
APPROVED

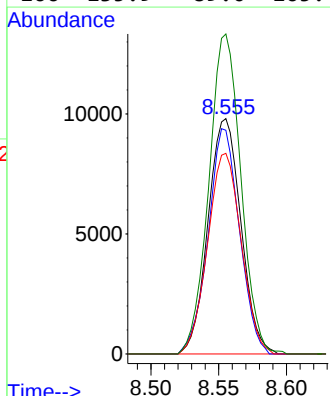
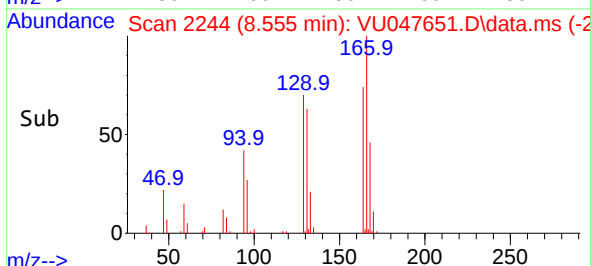
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022

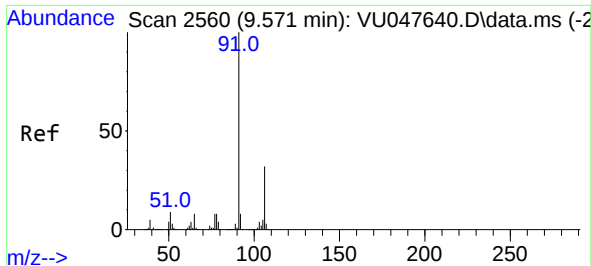


#46
Tetrachloroethene
Concen: 7.761 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39



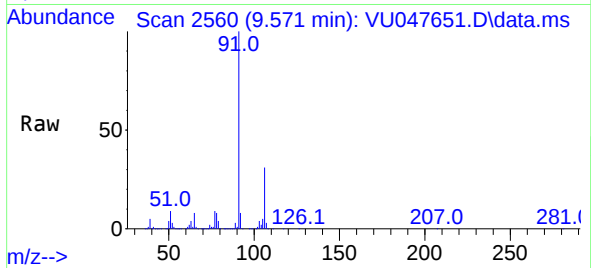
Tgt Ion:164 Resp: 16543
Ion Ratio Lower Upper
164 100
129 95.0 62.4 116.0
131 85.2 60.7 112.7
166 135.9 89.0 165.4





#52
Ethylbenzene
Concen: 108.982 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

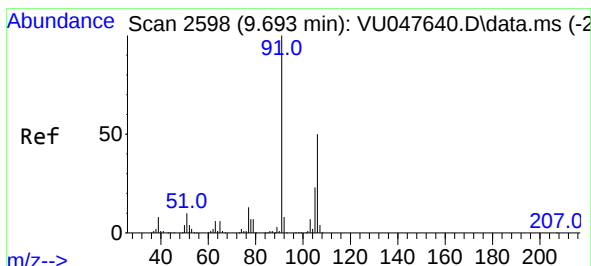
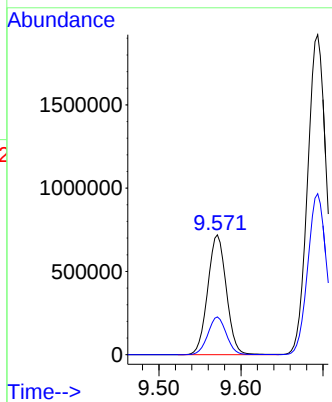
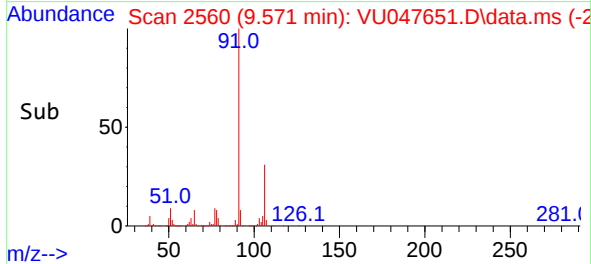
Instrument :
MSVOA_U
ClientSampleId :
EW5X7



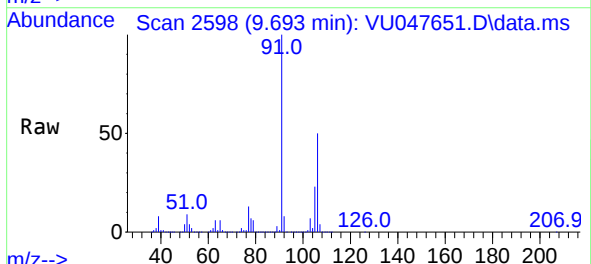
Tgt Ion: 91 Resp: 1137582
Ion Ratio Lower Upper
91 100
106 31.4 22.4 41.6

Manual Integrations
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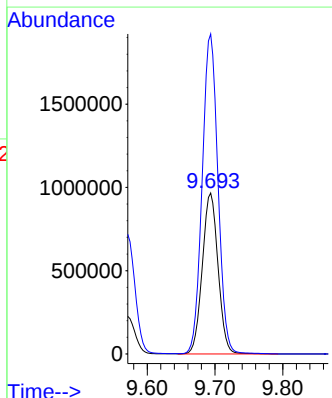
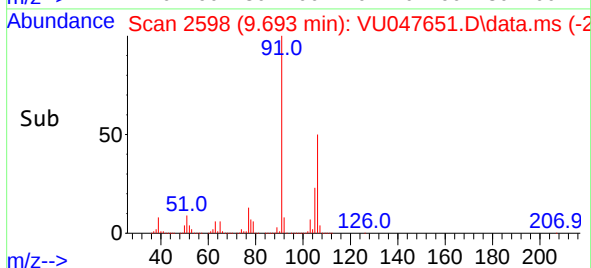
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022

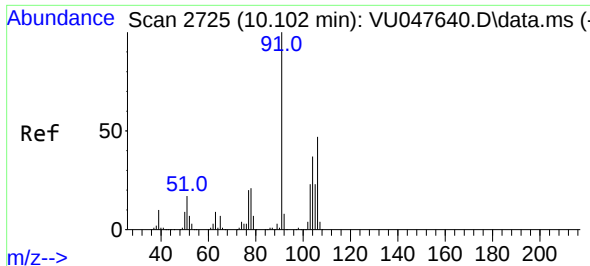


#53
m,p-Xylene
Concen: 379.583 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39



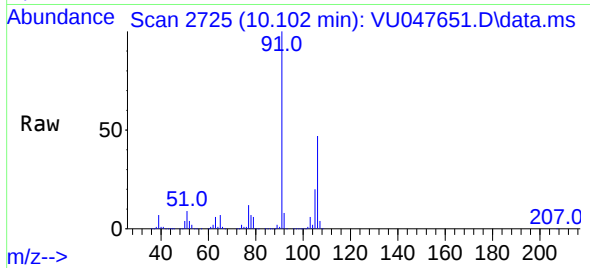
Tgt Ion:106 Resp: 1554675
Ion Ratio Lower Upper
106 100
91 198.8 137.7 255.7





#54
o-Xylene
Concen: 225.343 ug/L
RT: 10.102 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

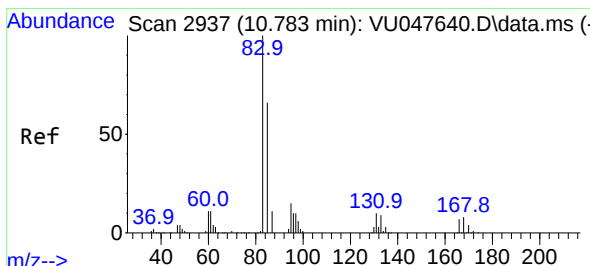
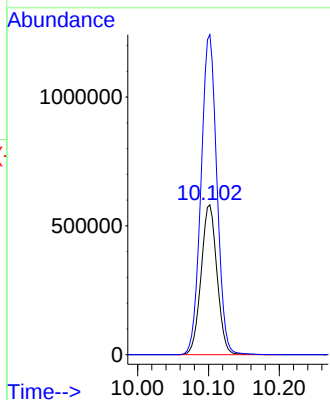
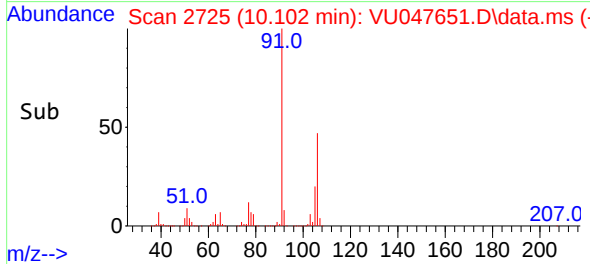
Instrument :
MSVOA_U
ClientSampleId :
EW5X7



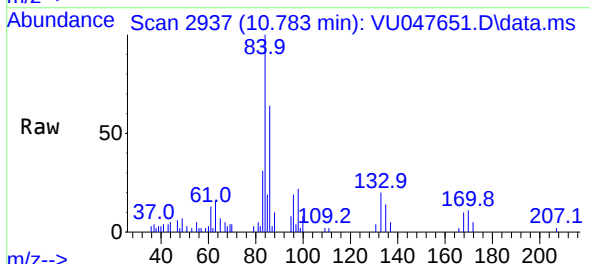
Tgt Ion:106 Resp: 90584
Ion Ratio Lower Upper
106 100
91 213.3 146.7 272.5

Manual Integrations
APPROVED

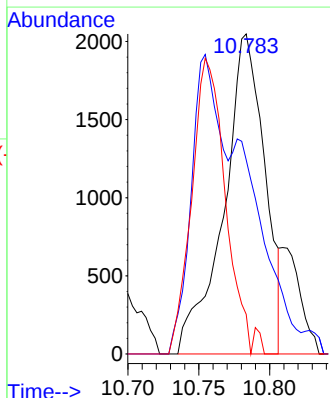
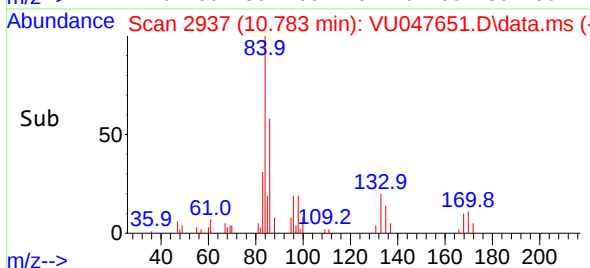
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022

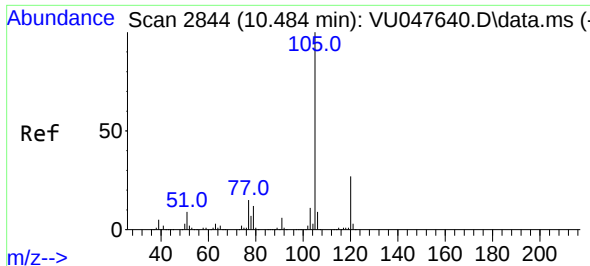


#57
1,1,2,2-Tetrachloroethane
Concen: 0.898 ug/L
RT: 10.783 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39



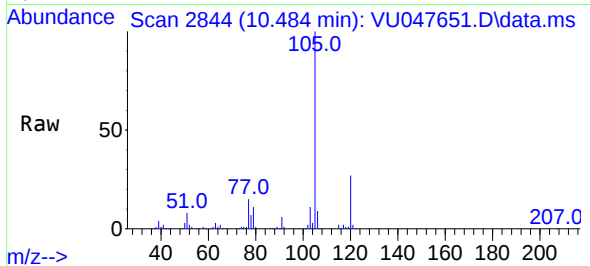
Tgt Ion: 83 Resp: 4107
Ion Ratio Lower Upper
83 100
85 60.6 44.9 83.3
131 12.4 8.6 13.0





#61
Isopropylbenzene
Concen: 18.373 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

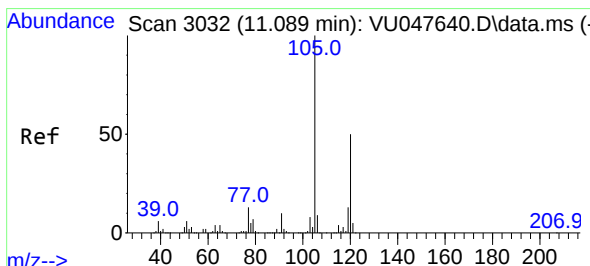
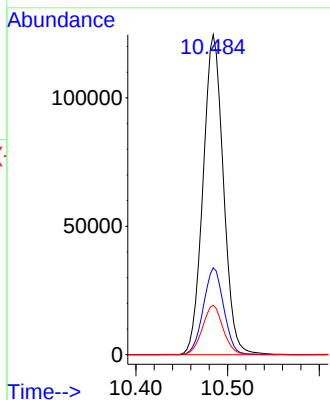
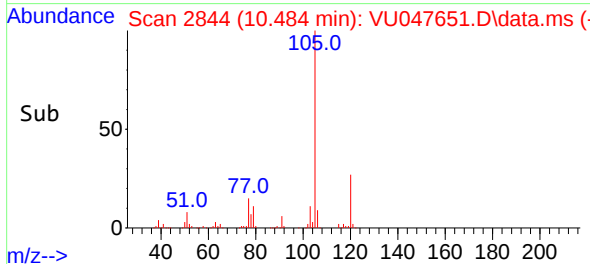
Instrument :
MSVOA_U
ClientSampleId :
EW5X7



Tgt Ion:105 Resp: 192137
Ion Ratio Lower Upper
105 100
120 27.2 21.9 32.9
77 15.7 12.1 18.1

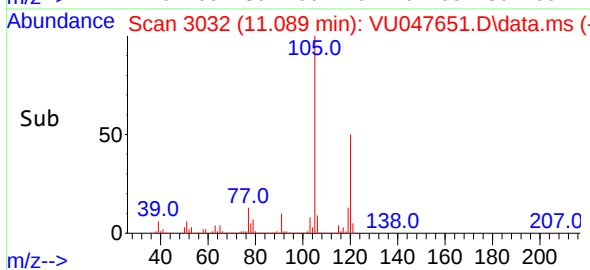
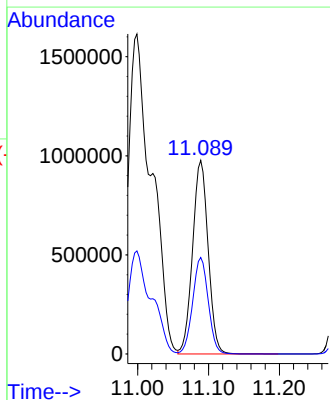
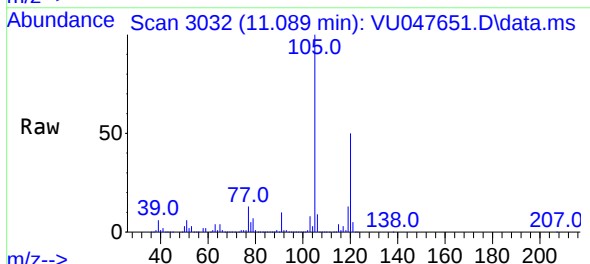
Manual Integrations
APPROVED

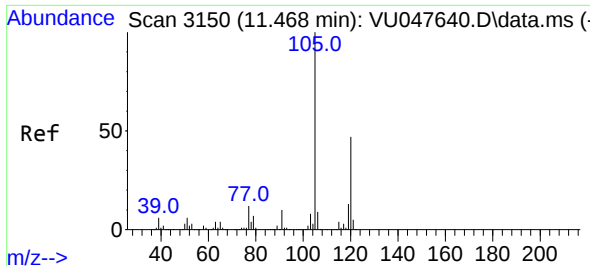
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022



#62
1,3,5-Trimethylbenzene
Concen: 262.248 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

Tgt Ion:105 Resp: 1488004
Ion Ratio Lower Upper
105 100
120 49.7 40.8 61.2





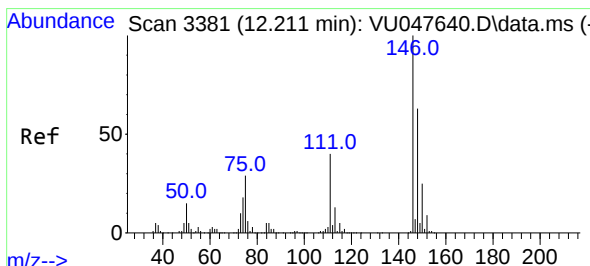
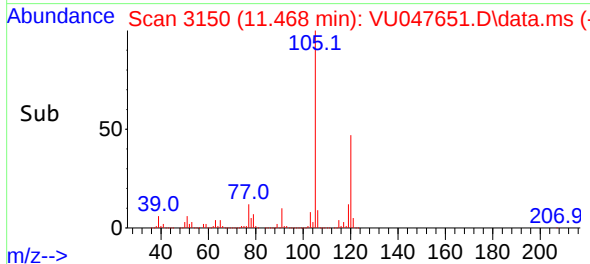
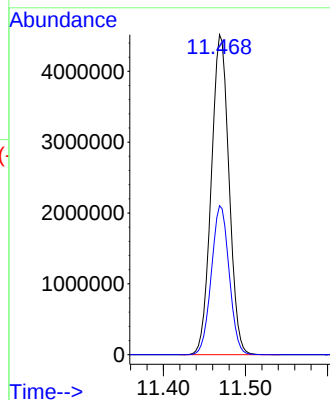
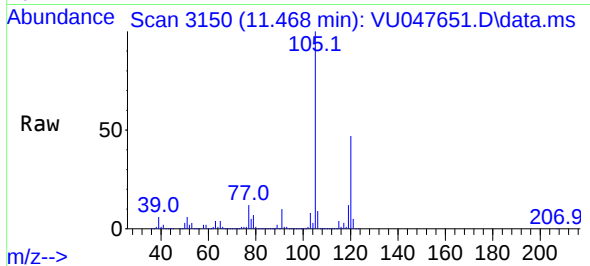
#63
1,2,4-Trimethylbenzene
Concen: 785.879 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

Instrument :
MSVOA_U
ClientSampleId :
EW5X7

Tgt Ion:105 Resp: 677327
Ion Ratio Lower Upper
105 100
120 46.7 37.6 56.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022



#67
1,2-Dichlorobenzene
Concen: 3.598 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU047651.D
Acq: 24 Mar 2022 22:39

Tgt Ion:146 Resp: 20925
Ion Ratio Lower Upper
146 100
111 37.1 31.7 47.5
148 62.5 51.4 77.2

