

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032422\
 Data File : VU047647.D
 Acq On : 24 Mar 2022 21:08
 Operator : SY/MD
 Sample : N2081-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EW5X5

Manual Integrations
 APPROVED

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

Quant Time: Mar 24 23:50:05 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	172860	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	180903	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	112935	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	74608	59.519	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery = 119.040%			
7) Chloroethane-d5	1.919	69	58208	58.891	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 117.780%			
11) 1,1-Dichloroethene-d2	2.571	63	106656	46.505	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 93.020%			
21) 2-Butanone-d5	4.639	46	137581	127.872	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery = 127.870%			
24) Chloroform-d	5.066	84	136299	59.426	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 118.860%			
26) 1,2-Dichloroethane-d4	5.703	65	86808	61.710	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 123.420%			
32) Benzene-d6	5.729	84	278710	61.228	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 122.460%			
36) 1,2-Dichloropropane-d6	6.693	67	86205	61.665	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 123.320%#			
41) Toluene-d8	7.899	98	254594	57.405	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 114.820%			
43) trans-1,3-Dichloroprop...	8.179	79	40700	57.467	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 114.940%			
47) 2-Hexanone-d5	8.635	63	95915	117.202	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery = 117.200%			
56) 1,1,2,2-Tetrachloroeth...	10.758	84	138635	57.785	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery = 115.560%			
66) 1,2-Dichlorobenzene-d4	12.192	152	121800	60.620	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 121.240%#			
Target Compounds						Qvalue
5) Vinyl chloride	1.607	62	205145	131.244	ug/L	97
8) Chloroethane	1.938	64	58146	59.258	ug/L	97
12) 1,1-Dichloroethene	2.584	96	14004	11.810	ug/L #	1
13) Acetone	2.652	43	3571m	3.567	ug/L	
17) trans-1,2-Dichloroethene	3.359	96	7378	5.769	ug/L	94
19) 1,1-Dichloroethane	3.874	63	834767	378.453	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	885500	631.544	ug/L	96
27) 1,2-Dichloroethane	5.800	62	6440	3.510	ug/L	99
29) Cyclohexane	5.388	56	1716	0.935	ug/L #	38
30) 1,1,1-Trichloroethane	5.320	97	429008	209.144	ug/L	99
33) Benzene	5.780	78	4376	0.836	ug/L	100
34) Trichloroethene	6.542	95	33887	24.685	ug/L	97
35) Methylcyclohexane	6.764	83	13274	6.356	ug/L	97
40) 4-Methyl-2-pentanone	7.796	43	3669	1.744	ug/L #	97
42) Toluene	7.970	91	95984	16.706	ug/L	99
46) Tetrachloroethene	8.555	164	70786	57.379	ug/L	99
52) Ethylbenzene	9.571	91	157865	26.132	ug/L	100
53) m,p-Xylene	9.693	106	65970	27.830	ug/L	99
54) o-Xylene	10.102	106	71187	30.598	ug/L	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Isopropylbenzene	10.484	105	50304	8.242	ug/L	98
62) 1,3,5-Trimethylbenzene	11.089	105	464245	140.186	ug/L	100
63) 1,2,4-Trimethylbenzene	11.468	105	1979953	393.605	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	8280	2.439	ug/L	97

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

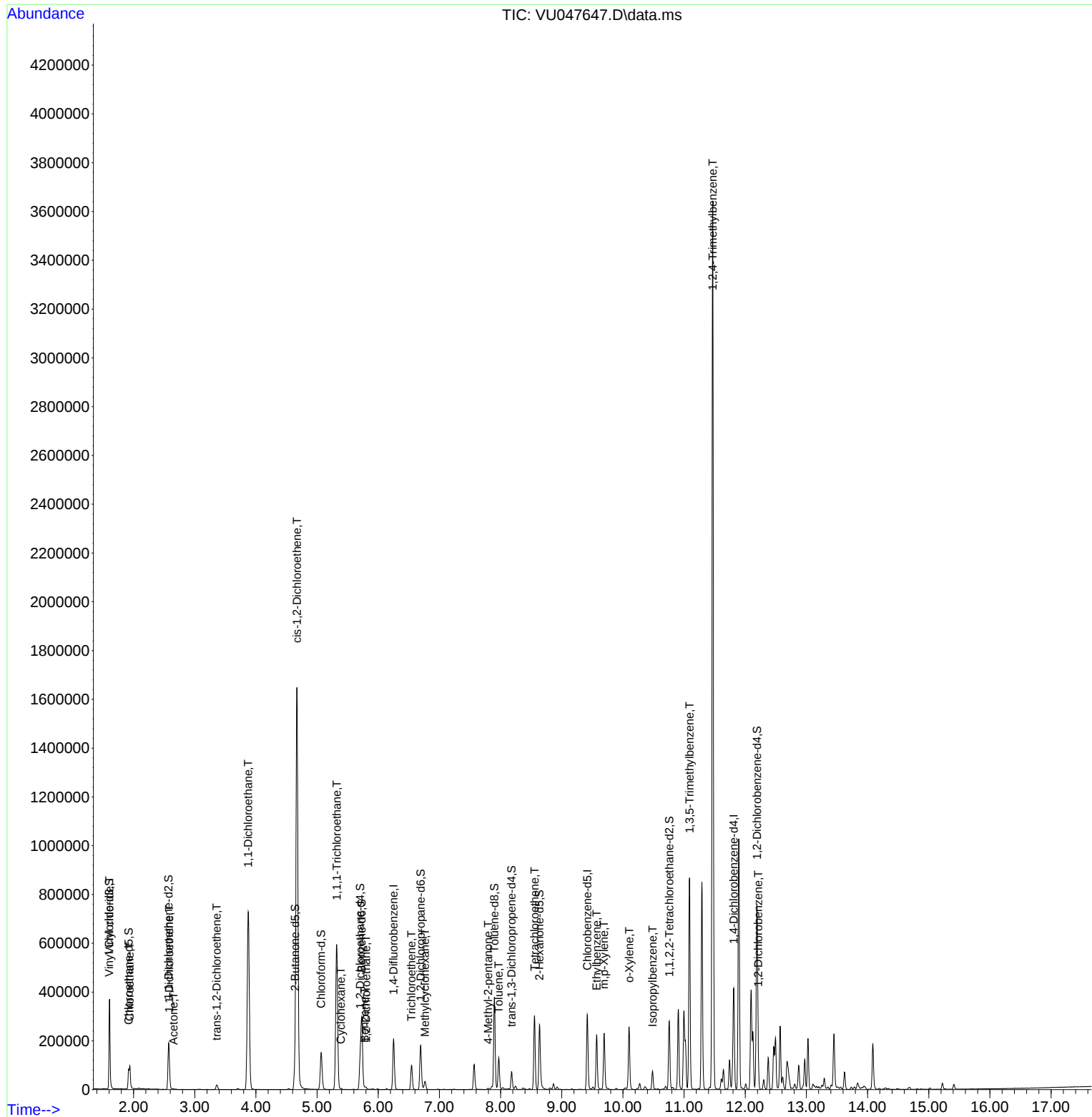
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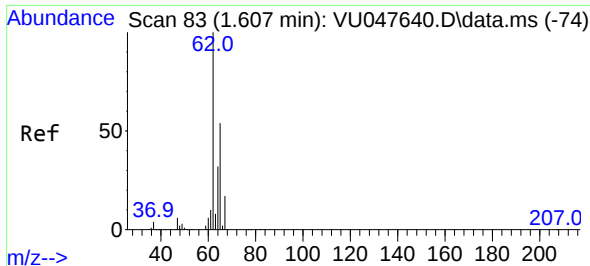
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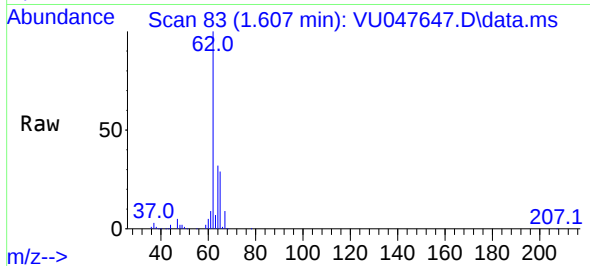
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Quant Title : VOC Analysis
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#5
 Vinyl chloride
 Concen: 131.244 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. -0.000 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

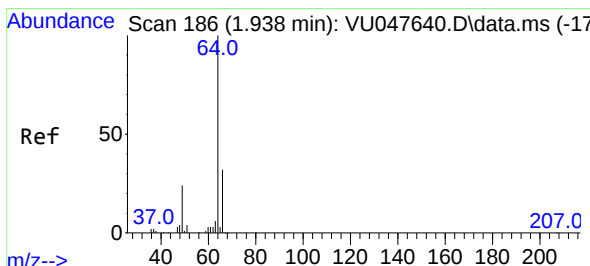
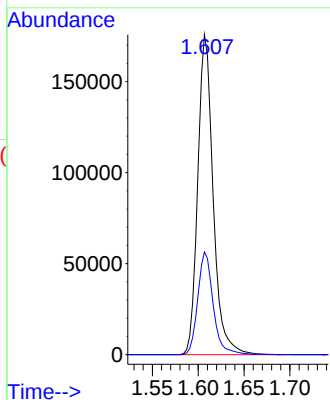
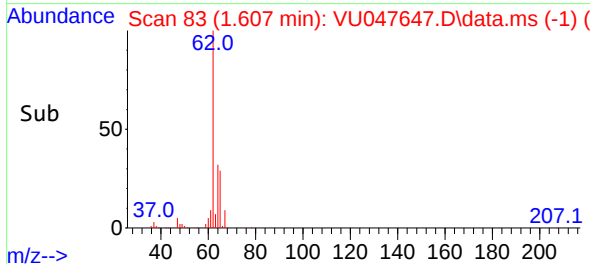
Instrument :
 MSVOA_U
 ClientSampleId :
 EW5X5



Tgt Ion: 62 Resp: 20514
 Ion Ratio Lower Upper
 62 100
 64 32.1 23.7 43.9

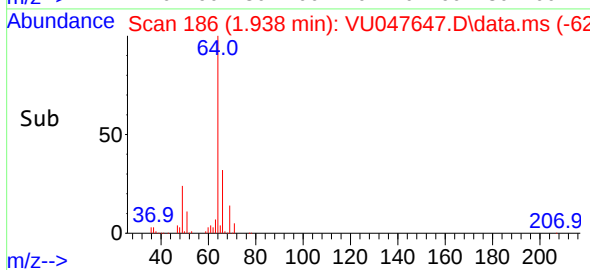
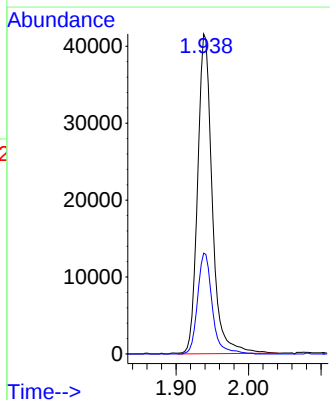
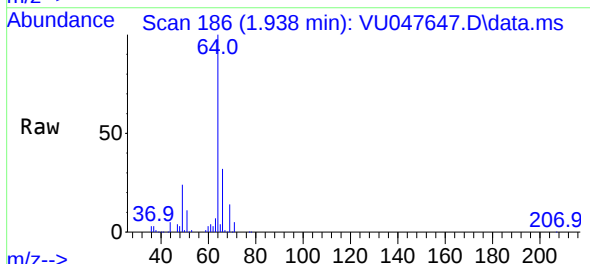
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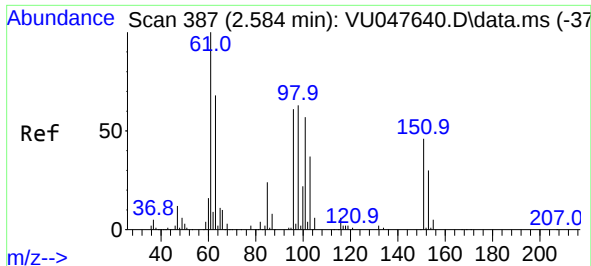
Reviewed By :John Carlone 03/25/2022
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#8
 Chloroethane
 Concen: 59.258 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. -0.000 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

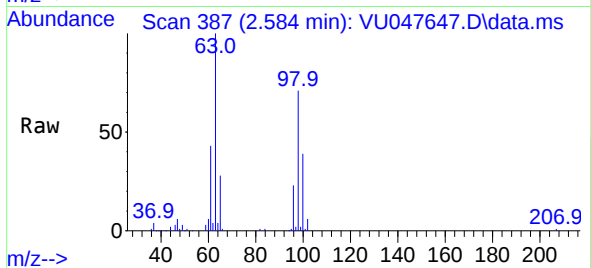
Tgt Ion: 64 Resp: 58146
 Ion Ratio Lower Upper
 64 100
 66 31.5 23.3 43.3





#12
1,1-Dichloroethene
Concen: 11.810 ug/L
RT: 2.584 min Scan# 387
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

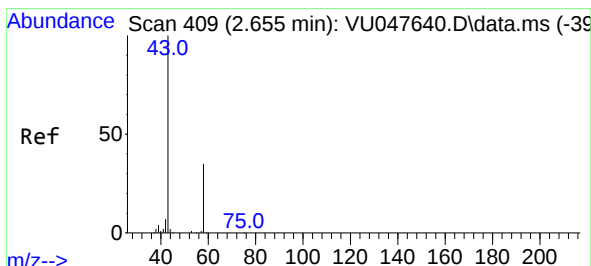
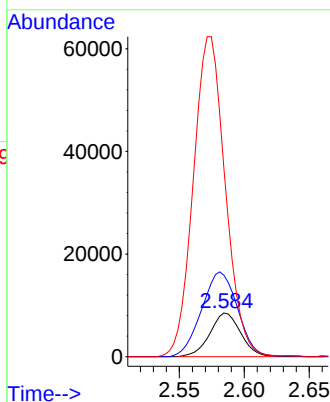
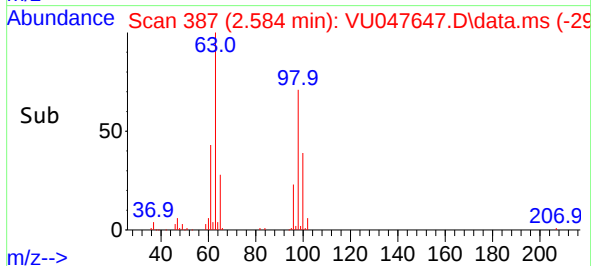
Instrument :
MSVOA_U
ClientSampleId :
EW5X5



Tgt Ion: 96 Resp: 14004
Ion Ratio Lower Upper
96 100
61 187.1 113.1 210.1
63 434.7 94.8 176.0

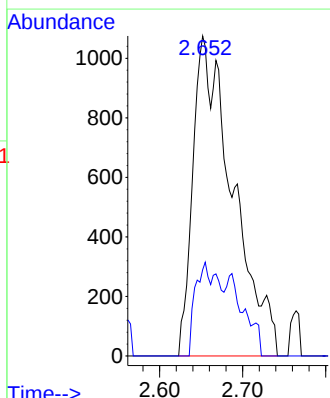
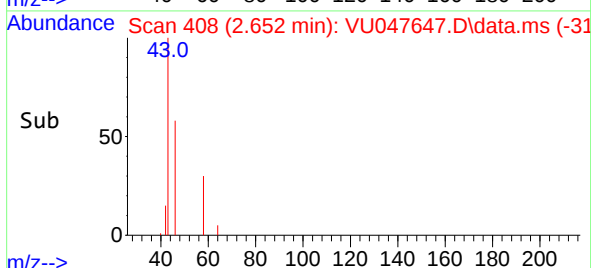
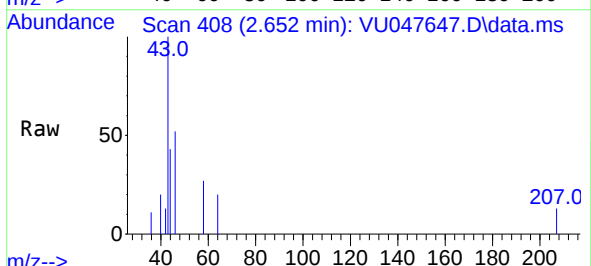
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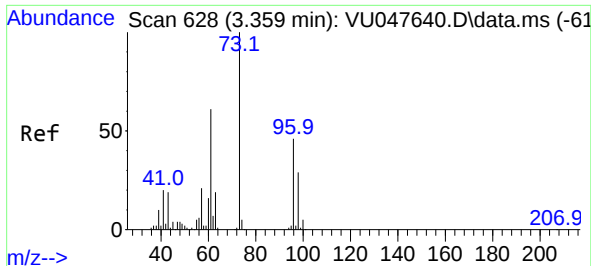
Reviewed By :John Carlone 03/25/2022
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#13
Acetone
Concen: 3.567 ug/L m
RT: 2.652 min Scan# 408
Delta R.T. -0.003 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

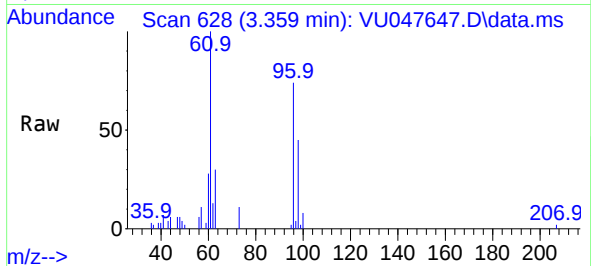
Tgt Ion: 43 Resp: 3571
Ion Ratio Lower Upper
43 100
58 10.8 0.0 70.0





#17
trans-1,2-Dichloroethene
Concen: 5.769 ug/L
RT: 3.359 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

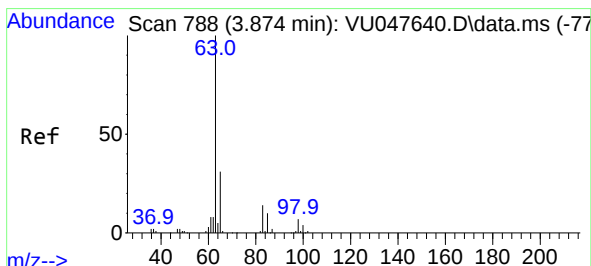
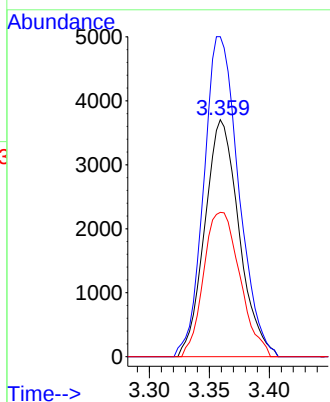
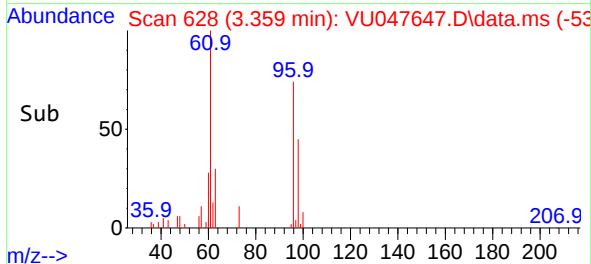
Instrument :
MSVOA_U
ClientSampleId :
EW5X5



Tgt Ion: 96 Resp: 7378
Ion Ratio Lower Upper
96 100
61 135.0 88.4 164.2
98 60.9 43.3 80.5

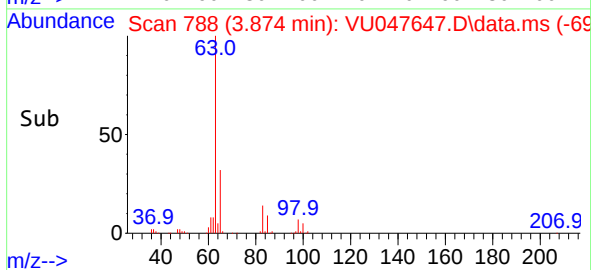
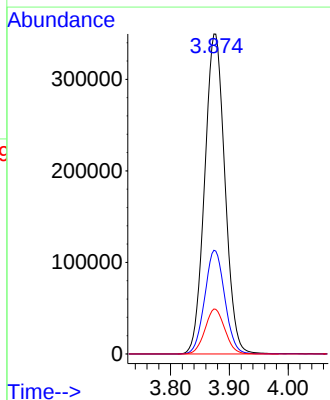
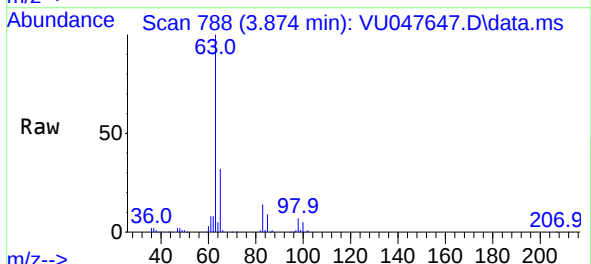
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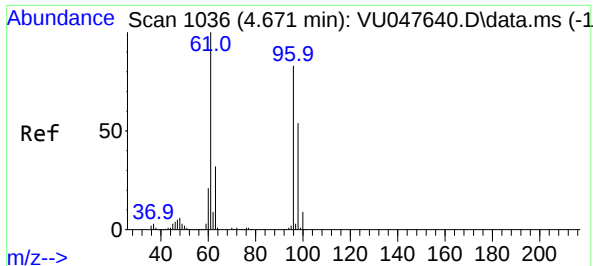
Reviewed By :John Carlone 03/25/2022
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#19
1,1-Dichloroethane
Concen: 378.453 ug/L
RT: 3.874 min Scan# 788
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

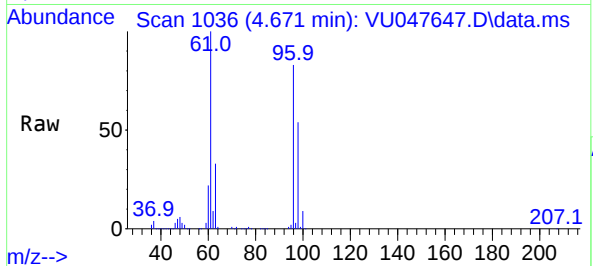
Tgt Ion: 63 Resp: 834767
Ion Ratio Lower Upper
63 100
65 32.4 22.0 41.0
83 14.1 9.7 18.1





#20
cis-1,2-Dichloroethene
Concen: 631.544 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

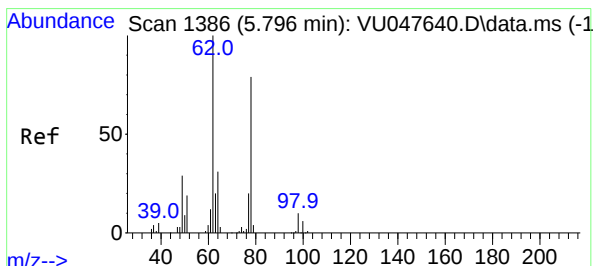
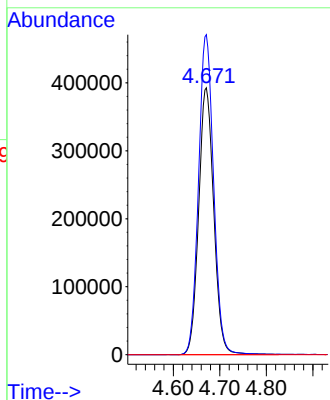
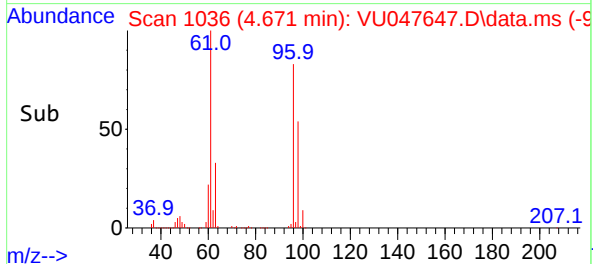
Instrument :
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Tgt Ion: 96 Resp: 885500
Ion Ratio Lower Upper
96 100
61 119.9 80.7 149.9
68 0.0 0.0 0.0

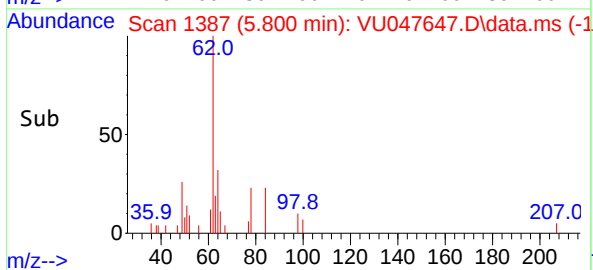
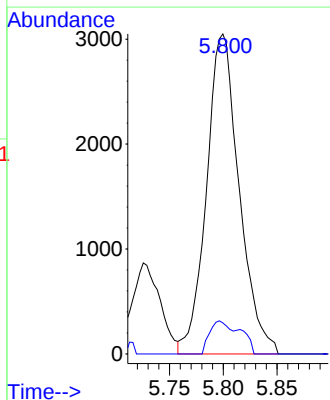
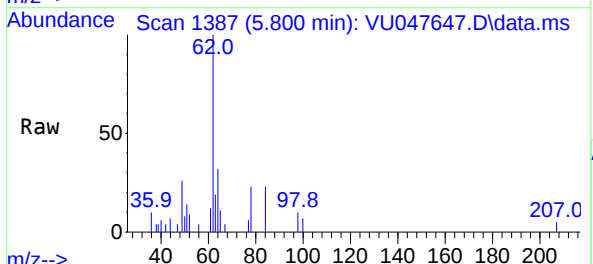
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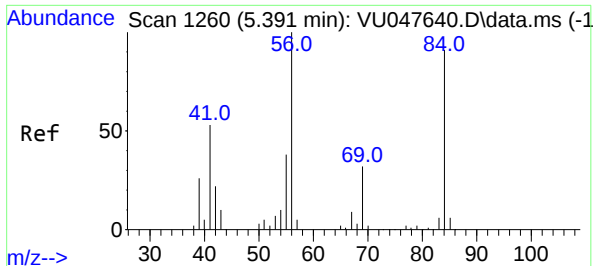
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022



#27
1,2-Dichloroethane
Concen: 3.510 ug/L
RT: 5.800 min Scan# 1387
Delta R.T. 0.003 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion: 62 Resp: 6440
Ion Ratio Lower Upper
62 100
98 9.7 7.4 11.0





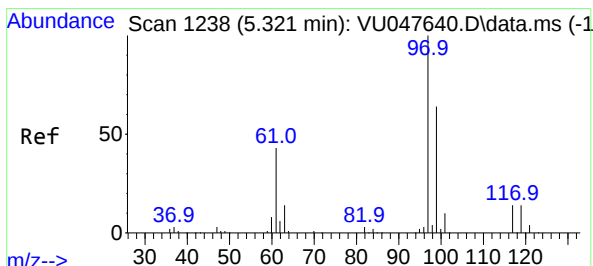
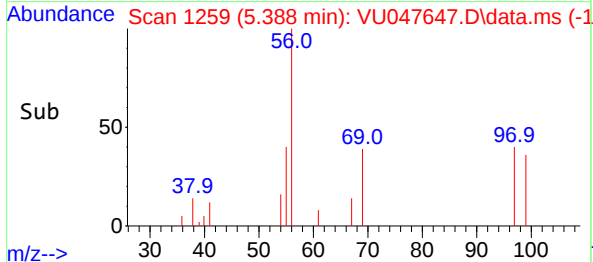
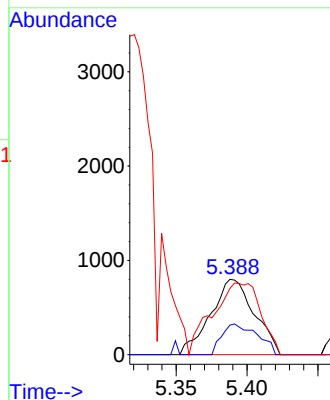
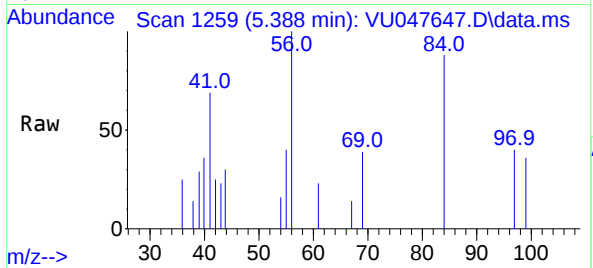
#29
Cyclohexane
Concen: 0.935 ug/L
RT: 5.388 min Scan# 1259
Delta R.T. -0.003 min
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Tgt Ion: 56 Resp: 1710
Ion Ratio Lower Upper
56 100
69 22.8 25.4 38.2
84 20.3 77.0 115.6

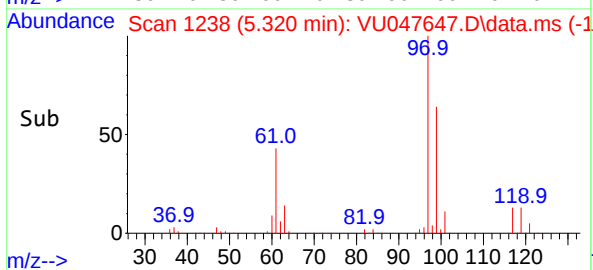
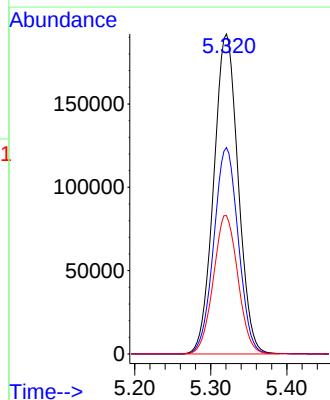
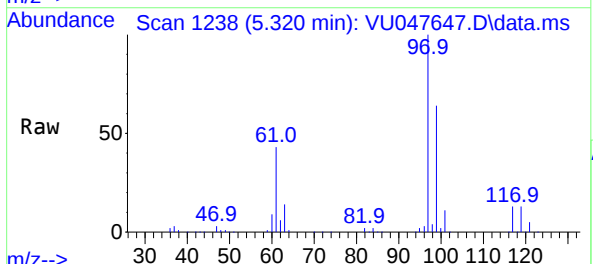
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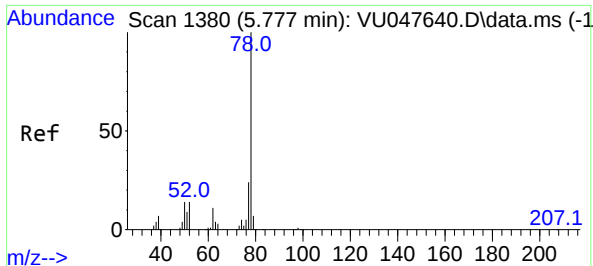
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022



#30
1,1,1-Trichloroethane
Concen: 209.144 ug/L
RT: 5.320 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion: 97 Resp: 429008
Ion Ratio Lower Upper
97 100
99 64.9 51.6 77.4
61 43.6 34.2 51.4





#33

Benzene

Concen: 0.836 ug/L

RT: 5.780 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU047647.D

Acq: 24 Mar 2022 21:08

Instrument :

MSVOA_U

ClientSampleId :

EW5X5

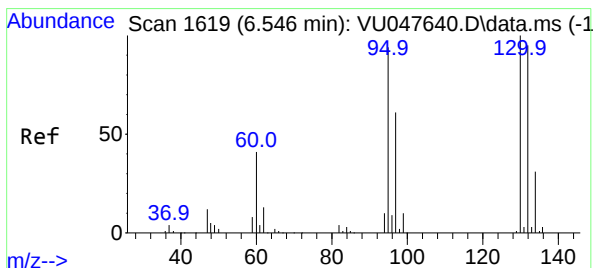
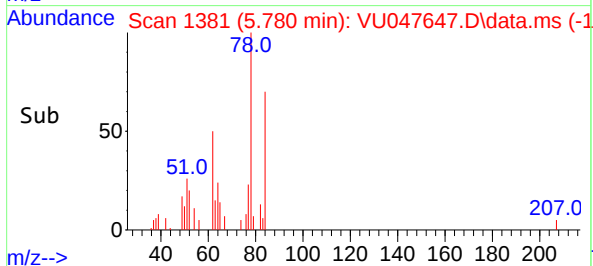
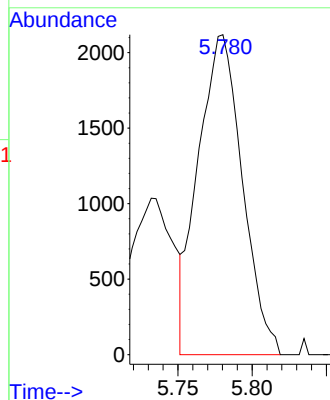
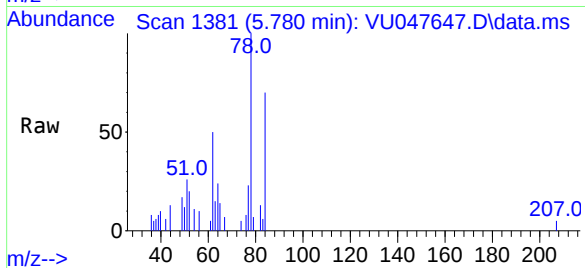
Tgt Ion: 78 Resp: 4370

Manual Integrations

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Supervised By :Mahesh Dadoda 03/29/2022



#34

Trichloroethene

Concen: 24.685 ug/L

RT: 6.542 min Scan# 1618

Delta R.T. -0.003 min

Lab File: VU047647.D

Acq: 24 Mar 2022 21:08

Tgt Ion: 95 Resp: 33887

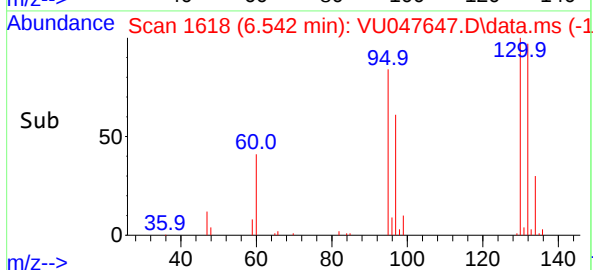
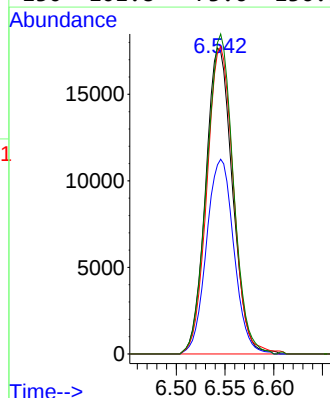
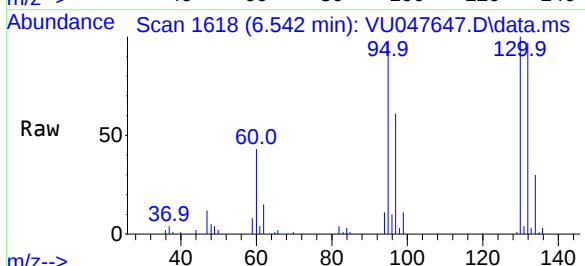
Ion Ratio Lower Upper

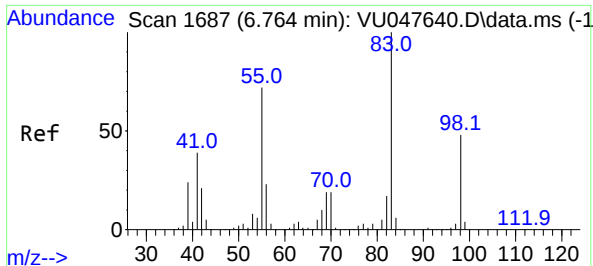
95 100

97 61.8 44.7 82.9

132 98.5 70.4 130.8

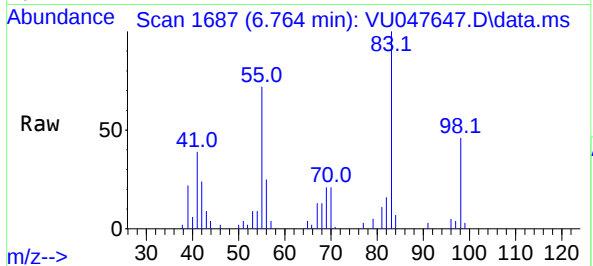
130 101.8 73.6 136.8





#35
Methylcyclohexane
Concen: 6.356 ug/L
RT: 6.764 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

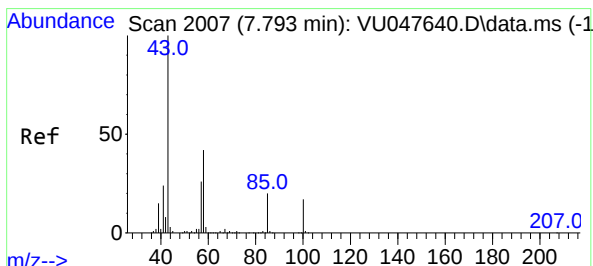
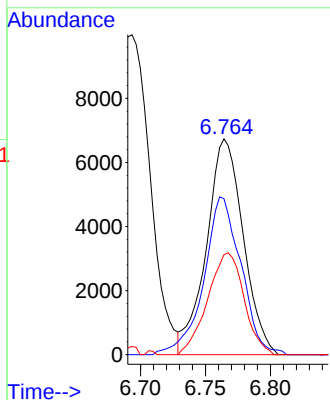
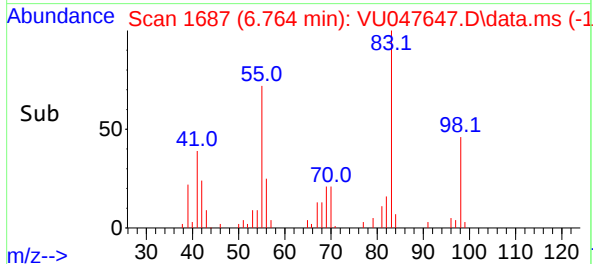
Instrument :
MSVOA_U
ClientSampleId :
EW5X5



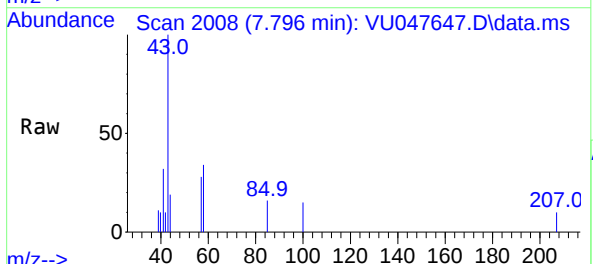
Tgt Ion: 83 Resp: 13274
Ion Ratio Lower Upper
83 100
55 73.7 56.8 85.2
98 46.6 38.1 57.1

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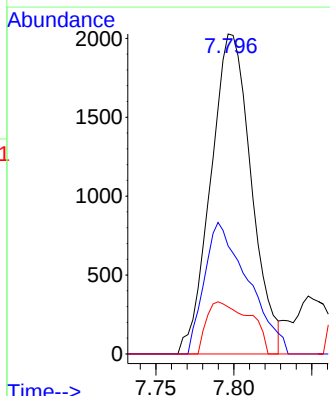
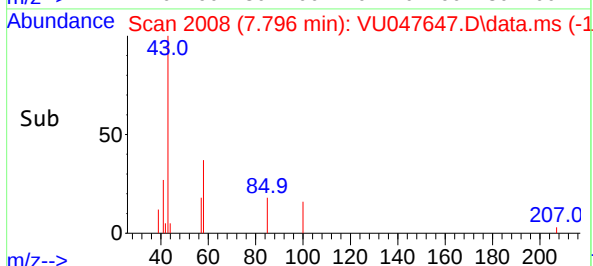
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022

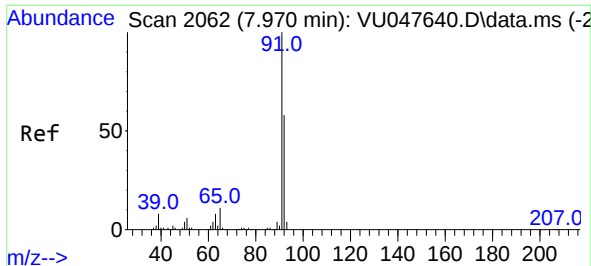


#40
4-Methyl-2-pentanone
Concen: 1.744 ug/L
RT: 7.796 min Scan# 2008
Delta R.T. 0.003 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08



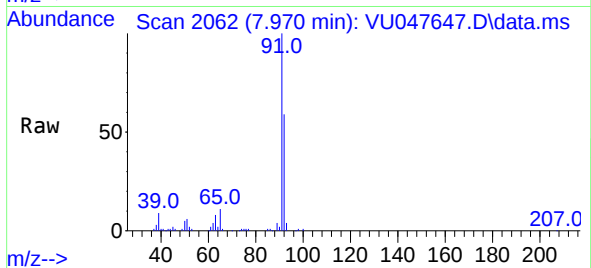
Tgt Ion: 43 Resp: 3669
Ion Ratio Lower Upper
43 100
58 44.2 34.7 52.1
100 14.1 14.2 21.2#





#42
Toluene
Concen: 16.706 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

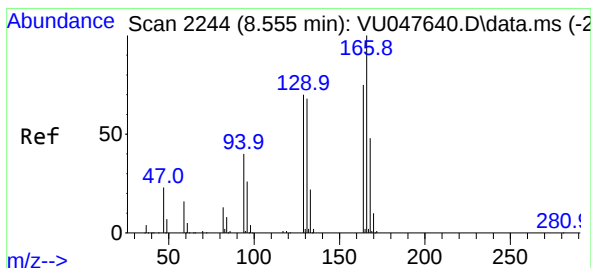
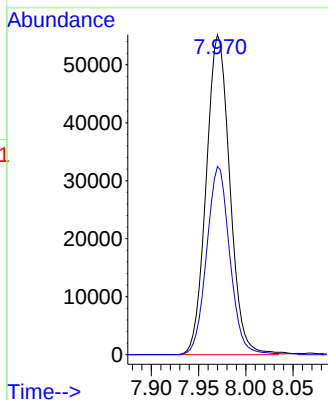
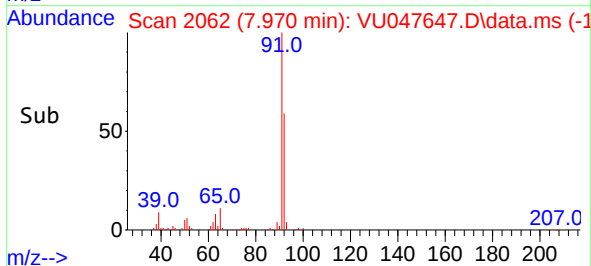
Instrument :
MSVOA_U
ClientSampleId :
EW5X5



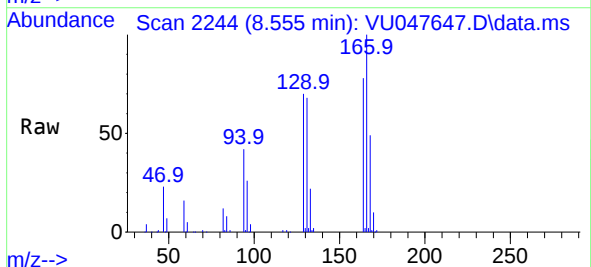
Tgt Ion: 91 Resp: 95984
Ion Ratio Lower Upper
91 100
92 58.8 40.4 75.0

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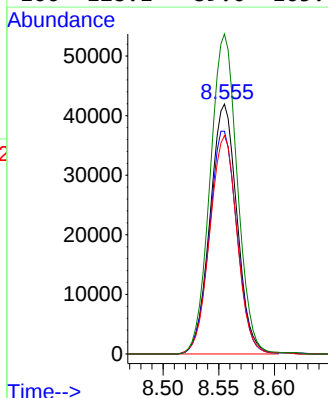
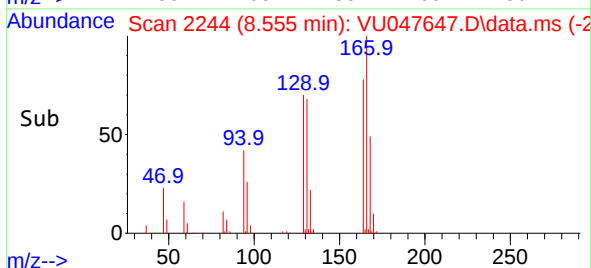
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022

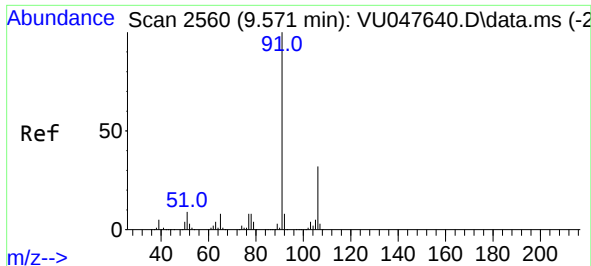


#46
Tetrachloroethene
Concen: 57.379 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08



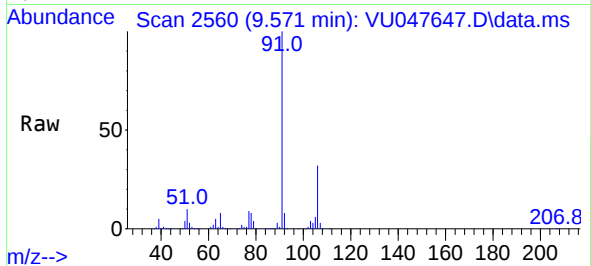
Tgt Ion:164 Resp: 70786
Ion Ratio Lower Upper
164 100
129 89.1 62.4 116.0
131 87.3 60.7 112.7
166 128.1 89.0 165.4





#52
Ethylbenzene
Concen: 26.132 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

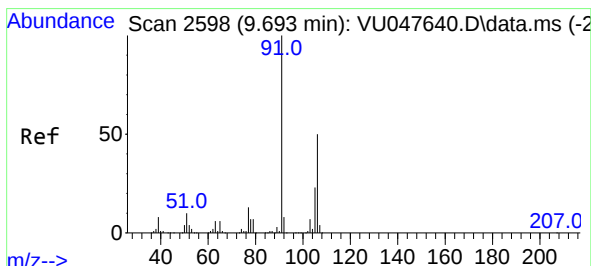
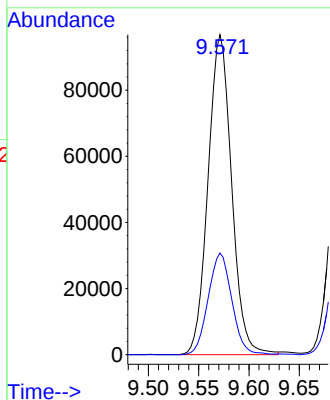
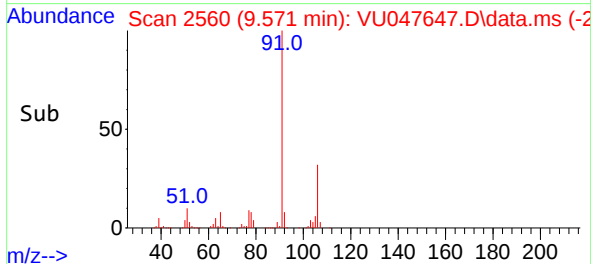
Instrument :
MSVOA_U
ClientSampleId :
EW5X5



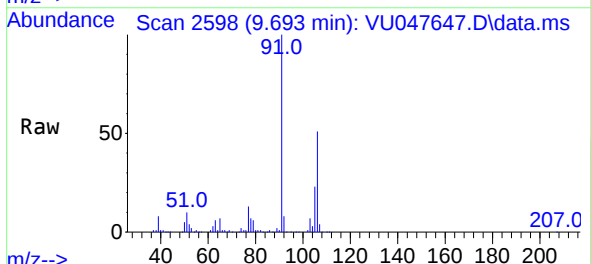
Tgt Ion: 91 Resp: 15786
Ion Ratio Lower Upper
91 100
106 31.7 22.4 41.6

Manual Integrations
APPROVED

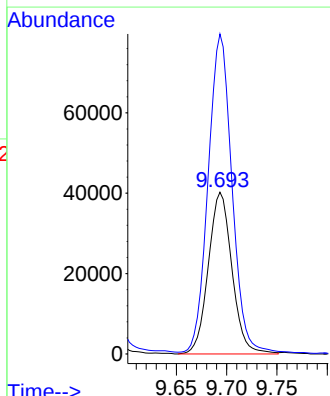
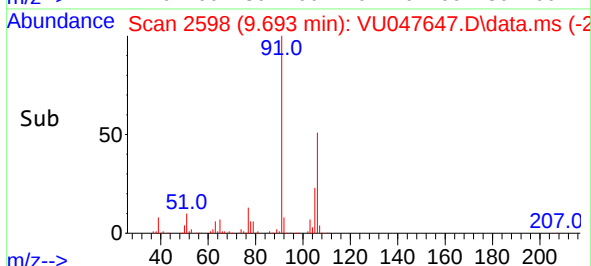
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022

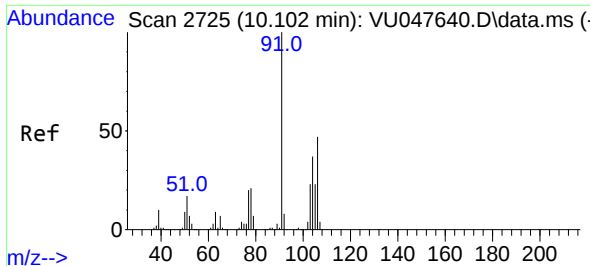


#53
m,p-Xylene
Concen: 27.830 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08



Tgt Ion:106 Resp: 65970
Ion Ratio Lower Upper
106 100
91 197.9 137.7 255.7





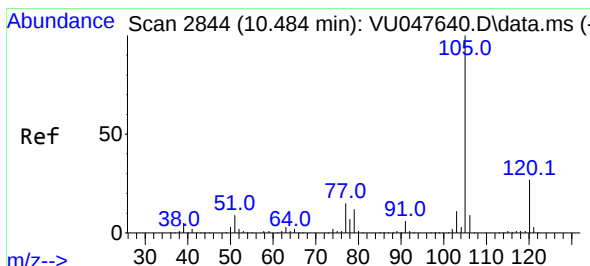
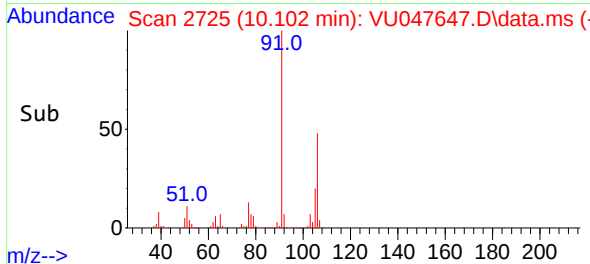
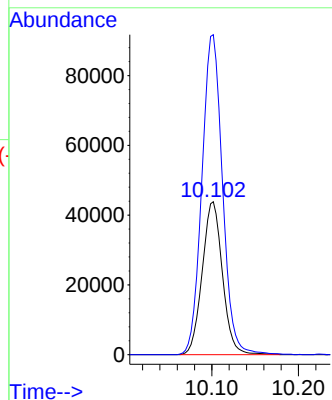
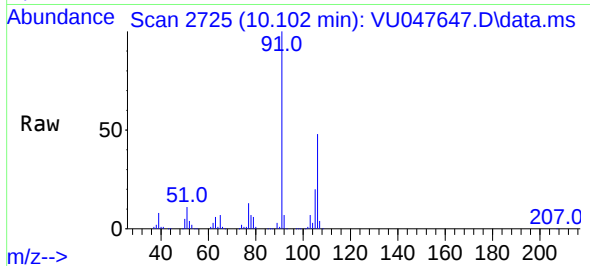
#54
o-Xylene
Concen: 30.598 ug/L
RT: 10.102 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Instrument :
MSVOA_U
ClientSampleId :
EW5X5

Tgt Ion:106 Resp: 7118
Ion Ratio Lower Upper
106 100
91 209.3 146.7 272.5

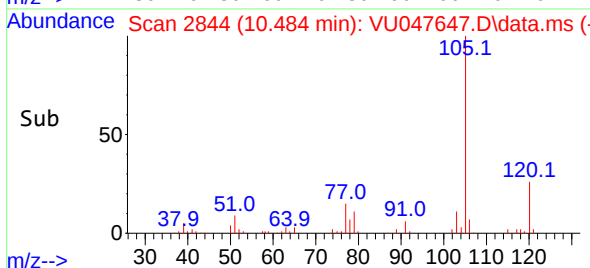
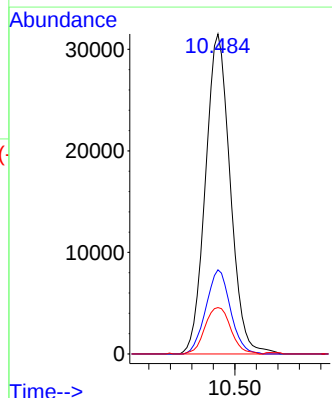
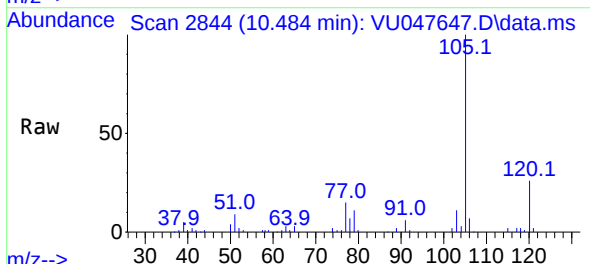
Manual Integrations
APPROVED

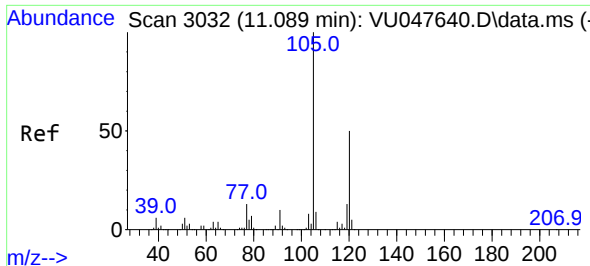
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022



#61
Isopropylbenzene
Concen: 8.242 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

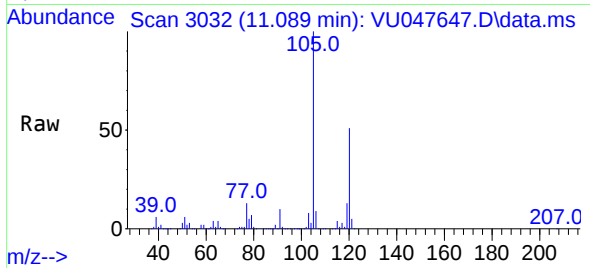
Tgt Ion:105 Resp: 50304
Ion Ratio Lower Upper
105 100
120 26.1 21.9 32.9
77 15.2 12.1 18.1





#62
1,3,5-Trimethylbenzene
Concen: 140.186 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

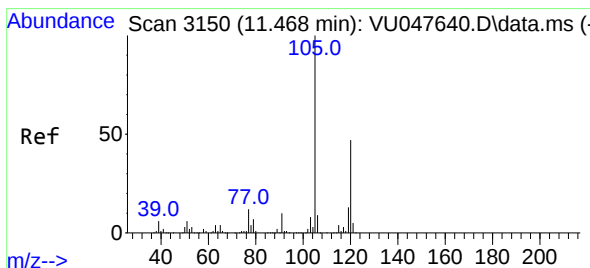
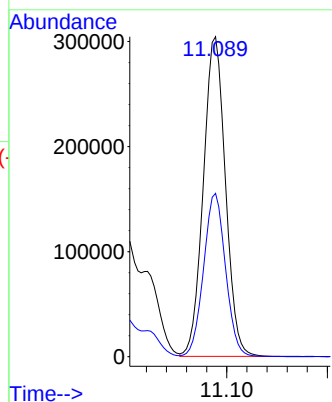
Instrument :
MSVOA_U
ClientSampleId :
EW5X5



Tgt Ion:105 Resp: 464245
Ion Ratio Lower Upper
105 100
120 50.8 40.8 61.2

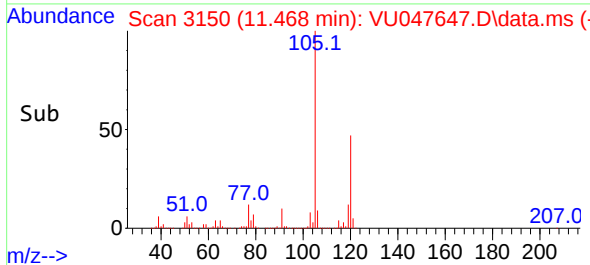
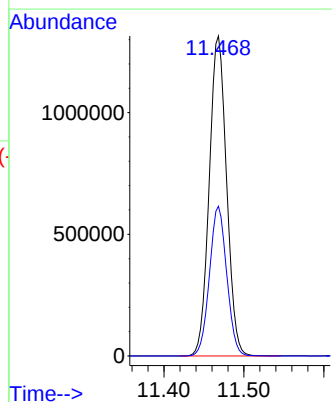
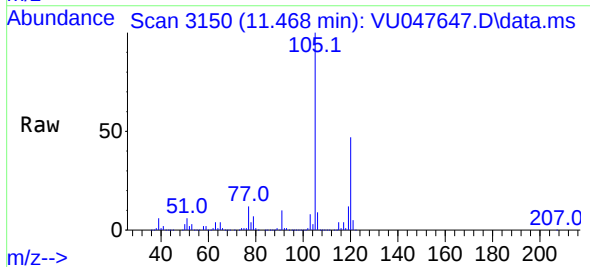
Manual Integrations
APPROVED

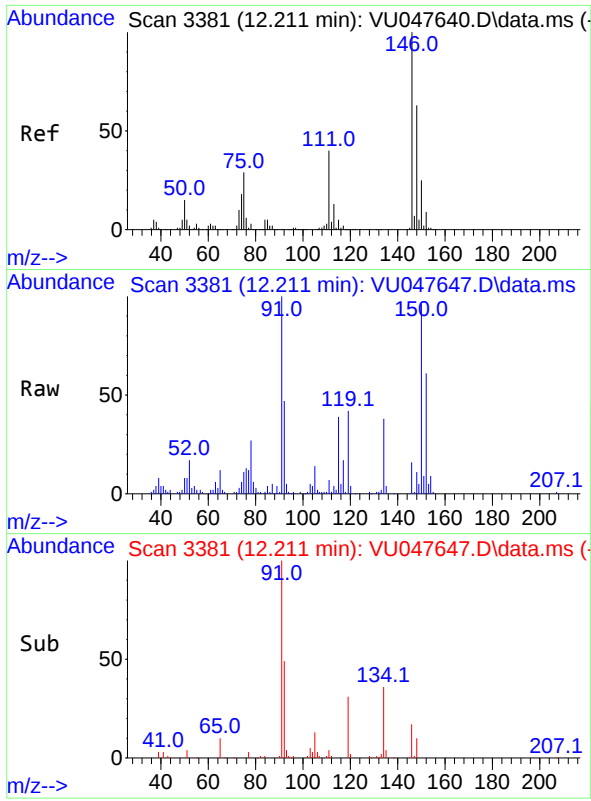
Reviewed By :John Carlone 03/25/2022
Supervised By :Mahesh Dadoda 03/29/2022



#63
1,2,4-Trimethylbenzene
Concen: 393.605 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion:105 Resp: 1979953
Ion Ratio Lower Upper
105 100
120 46.5 37.6 56.4





#67
1,2-Dichlorobenzene
Concen: 2.439 ug/L
RT: 12.211 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Instrument :
MSVOA_U
ClientSampleId :
EW5X5

Tgt Ion:146 Resp: 8280
Ion Ratio Lower Upper
146 100
111 44.0 31.7 47.5
148 65.3 51.4 77.2

Manual Integrations
APPROVED

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

