

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120321\
 Data File : VU046071.D
 Acq On : 03 Dec 2021 14:13
 Operator : SY/MD
 Sample : M4870-09DL 10X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BGKP6DL

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/09/2021
 Supervised By : Mahesh Dadoda 12/09/2021

Quant Time: Dec 04 03:07:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	236888	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	235050	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	125391	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	67789	34.739	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	69.480%		
7) Chloroethane-d5	1.916	69	59223	39.528	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	79.060%		
11) 1,1-Dichloroethene-d2	2.571	63	101648	29.017	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	58.040%#		
21) 2-Butanone-d5	4.639	46	152098	98.049	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	98.050%		
24) Chloroform-d	5.067	84	142353	43.684	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	87.360%		
26) 1,2-Dichloroethane-d4	5.706	65	99144	45.335	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	90.660%		
32) Benzene-d6	5.732	84	306339	45.471	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	90.940%		
36) 1,2-Dichloropropane-d6	6.693	67	99899	47.847	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	95.700%		
41) Toluene-d8	7.902	98	273538	44.594	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	89.180%		
43) trans-1,3-Dichloroprop...	8.182	79	46081	45.720	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	91.440%		
47) 2-Hexanone-d5	8.636	63	102964	104.009	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	104.010%		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	152470	48.153	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	96.300%		
66) 1,2-Dichlorobenzene-d4	12.195	152	118626	49.124	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	98.240%		
Target Compounds						Qvalue
13) Acetone	2.661	43	8232	4.246	ug/L	77
20) cis-1,2-Dichloroethene	4.671	96	73894	39.288	ug/L	97
22) 2-Butanone	4.722	43	4761m	2.256	ug/L	
33) Benzene	5.777	78	45283	6.365	ug/L	100
34) Trichloroethene	6.546	95	20058	10.702	ug/L	97
40) 4-Methyl-2-pentanone	7.796	43	4033	1.473	ug/L	100
42) Toluene	7.973	91	169823	22.247	ug/L	99
46) Tetrachloroethene	8.555	164	4095	2.973	ug/L	94
51) Chlorobenzene	9.449	112	6493	1.315	ug/L	97
52) Ethylbenzene	9.571	91	114215	13.903	ug/L	98
53) m,p-Xylene	9.693	106	152835	47.703	ug/L	96
54) o-xylene	10.102	106	56721	18.245	ug/L	98
55) Styrene	10.115	104	25845	4.869	ug/L	79
61) Isopropylbenzene	10.488	105	46035	5.643	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	32607	4.795	ug/L	96
63) 1,2,4-Trimethylbenzene	11.468	105	114672	16.855	ug/L	100
67) 1,2-Dichlorobenzene	12.214	146	14133	3.621	ug/L	96
70) 1,2,4-trichlorobenzene	13.841	180	2692	1.074	ug/L #	90

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

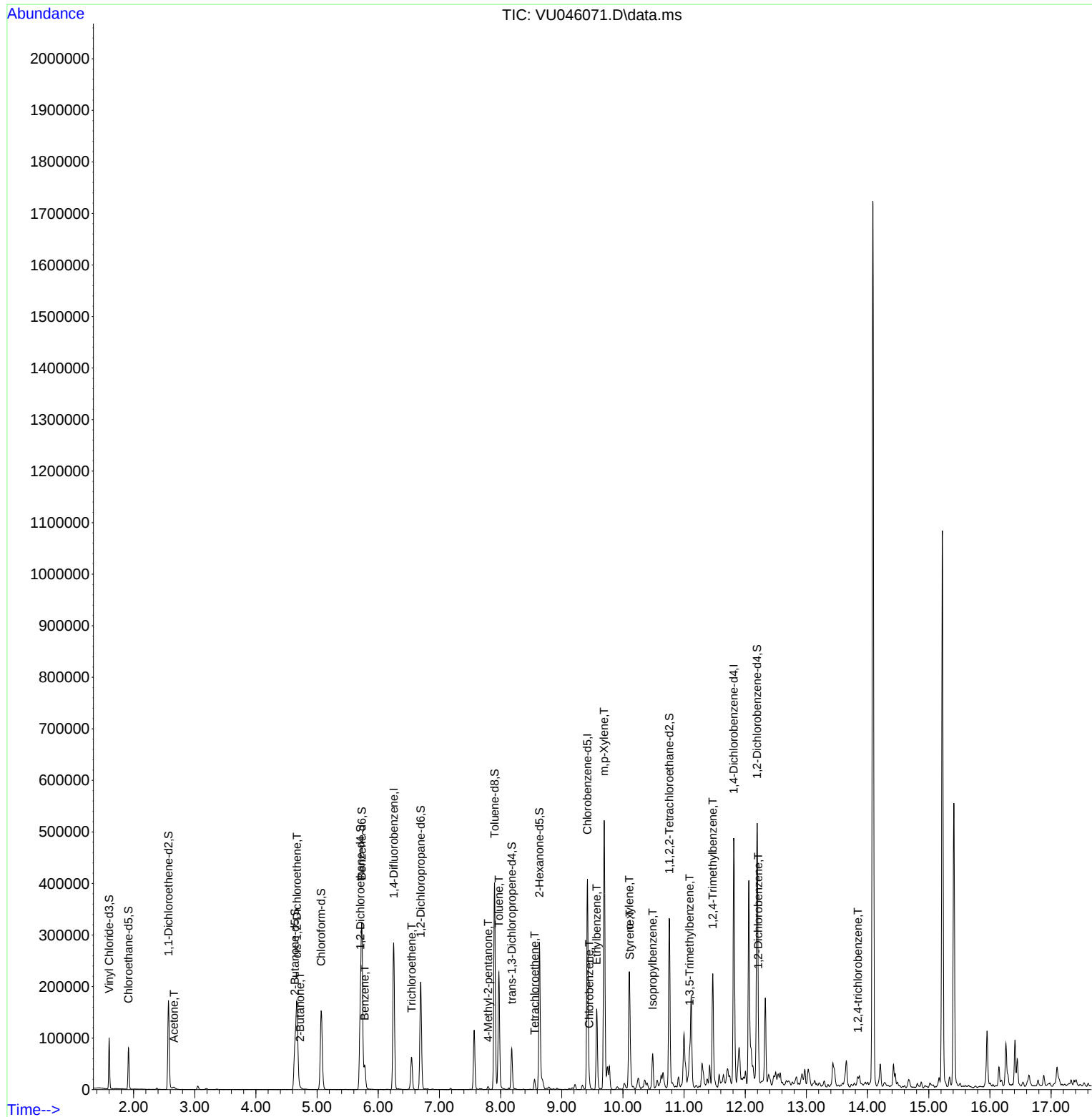
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ALS Vial : 6 Sample Multiplier: 1

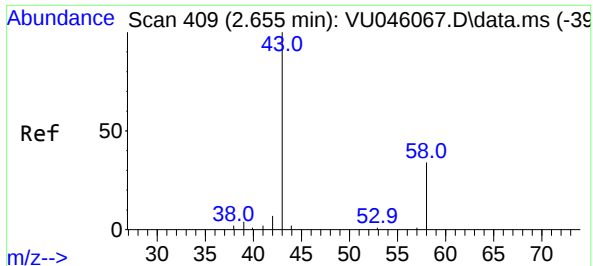
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Quant Title : VOC Analysis
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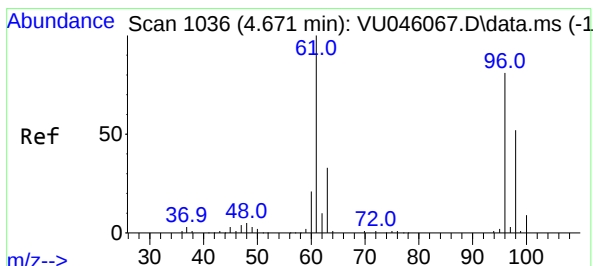
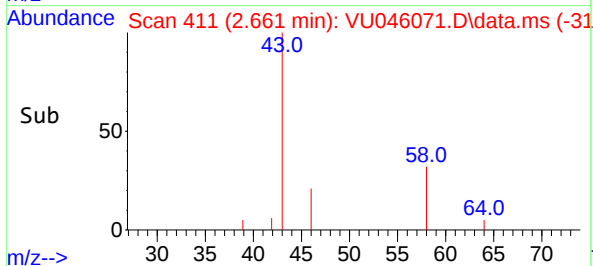
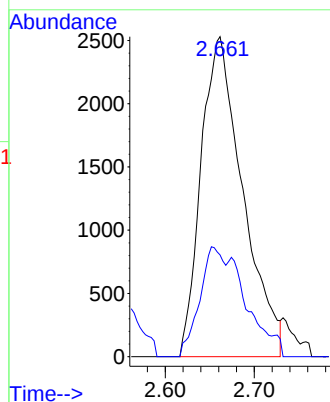
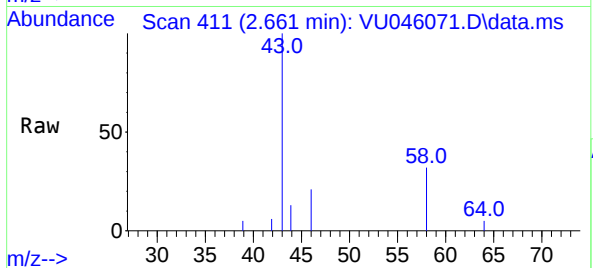
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Acetone
Concen: 4.246 ug/L
RT: 2.661 min Scan# 411
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Instrument :
MSVOA_U
ClientSampleId :
BGKP6DL

Tgt Ion: 43 Resp: 823
Ion Ratio Lower Upper
43 100
58 20.2 0.0 66.8

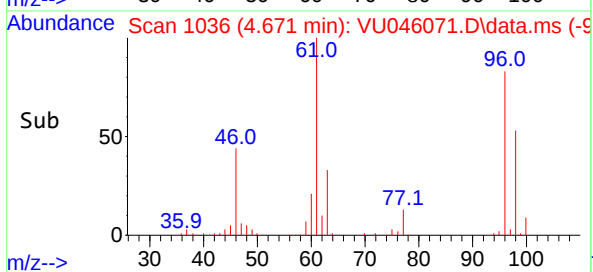
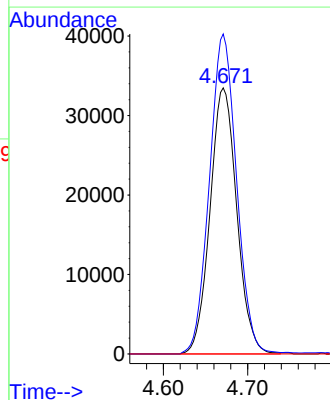
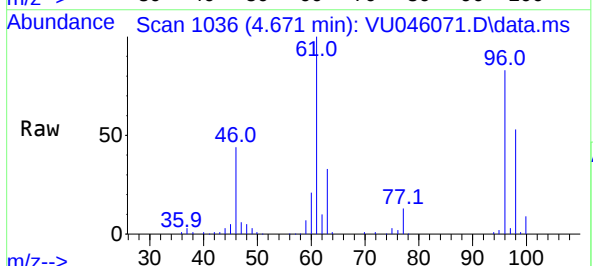
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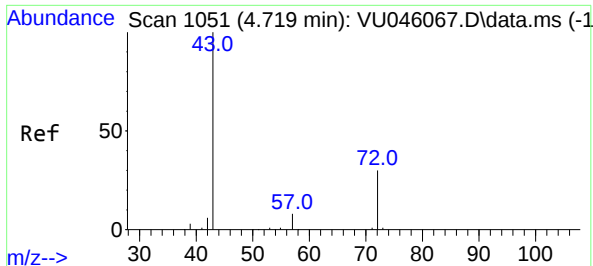
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#20
cis-1,2-Dichloroethene
Concen: 39.288 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion: 96 Resp: 73894
Ion Ratio Lower Upper
96 100
61 120.2 86.8 161.2
68 0.0 0.0 0.0





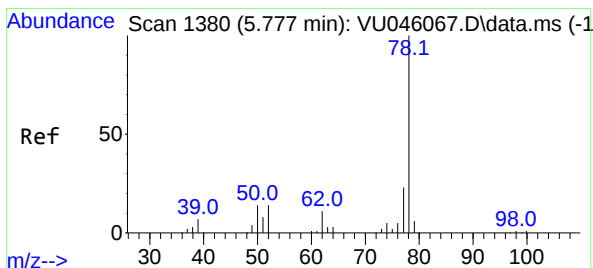
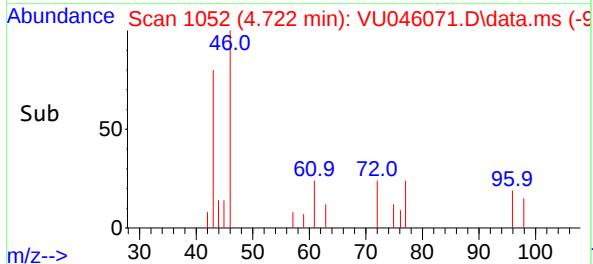
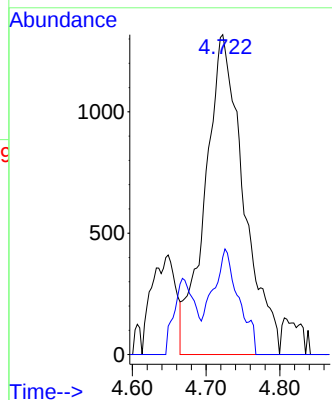
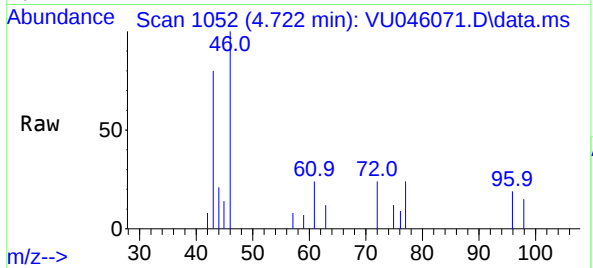
#22
2-Butanone
Concen: 2.256 ug/L m
RT: 4.722 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Instrument :
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Tgt Ion: 43 Resp: 476
Ion Ratio Lower Upper
43 100
72 13.9 14.5 43.6

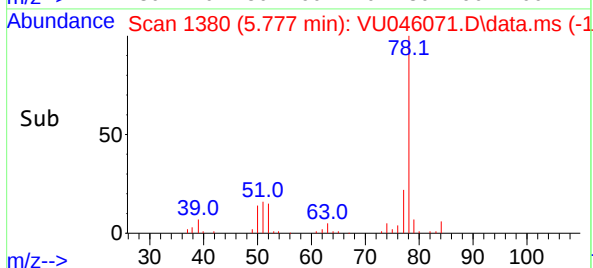
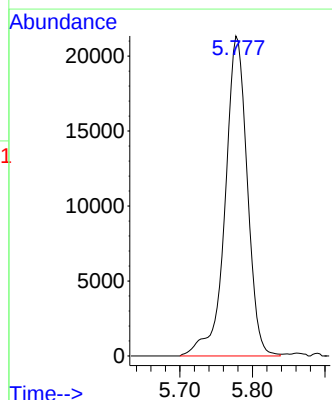
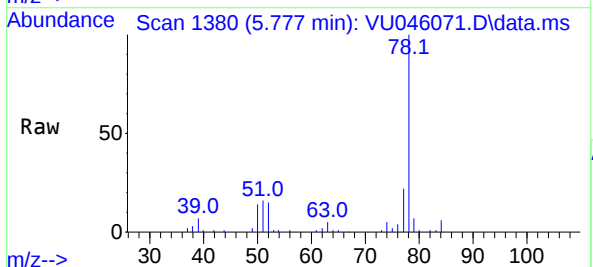
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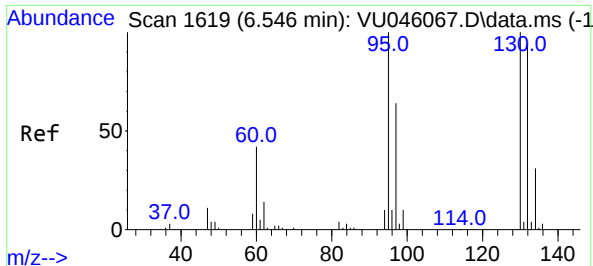
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#33
Benzene
Concen: 6.365 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

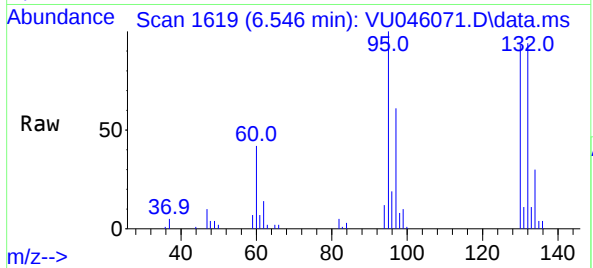
Tgt Ion: 78 Resp: 45283





#34
Trichloroethene
Concen: 10.702 ug/L
RT: 6.546 min Scan# 1005
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

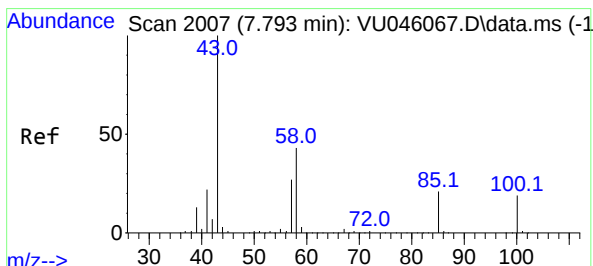
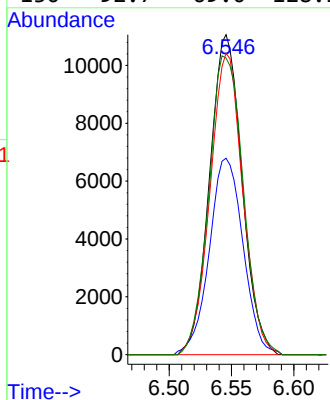
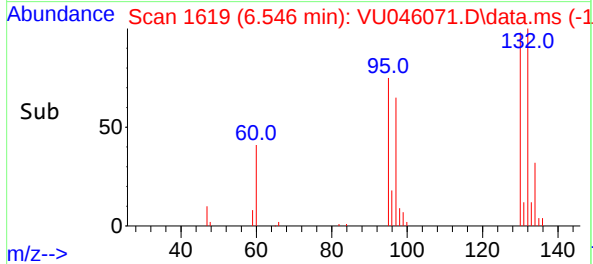
Instrument :
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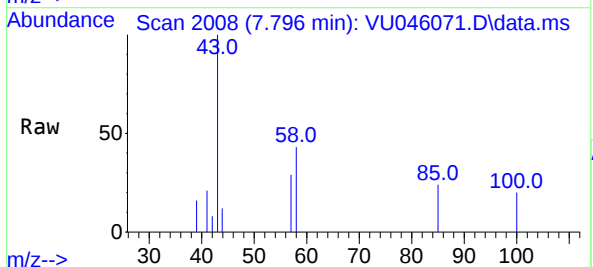
Tgt Ion: 95 Resp: 20058
Ion Ratio Lower Upper
95 100
97 61.4 44.1 81.9
132 94.2 66.8 124.0
130 92.7 69.0 128.1

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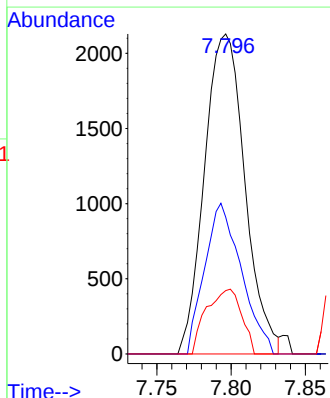
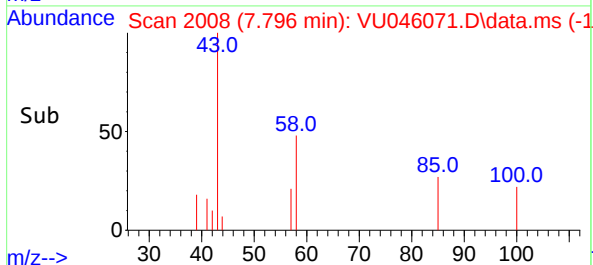
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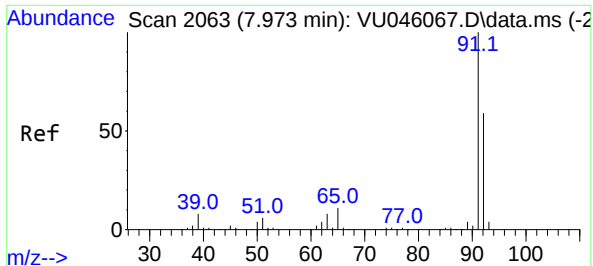


#40
4-Methyl-2-pentanone
Concen: 1.473 ug/L
RT: 7.796 min Scan# 2008
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13



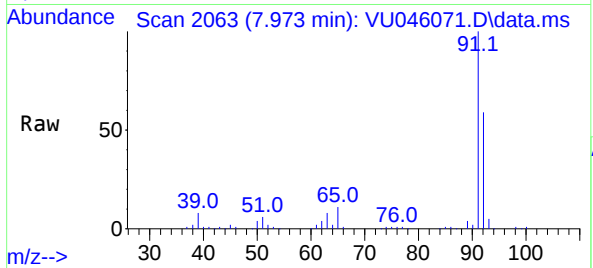
Tgt Ion: 43 Resp: 4033
Ion Ratio Lower Upper
43 100
58 42.7 34.2 51.4
100 17.5 14.5 21.7





#42
Toluene
Concen: 22.247 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

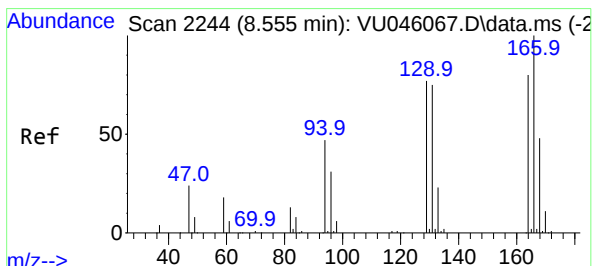
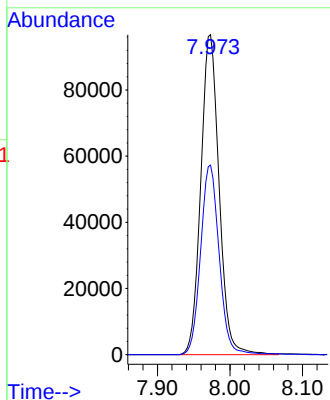
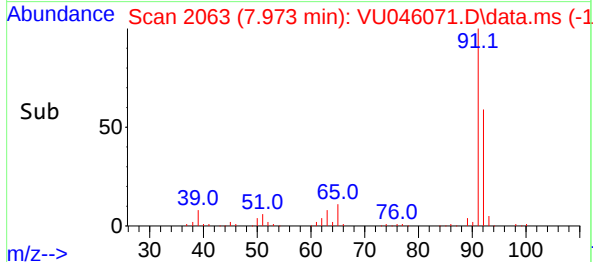
Instrument :
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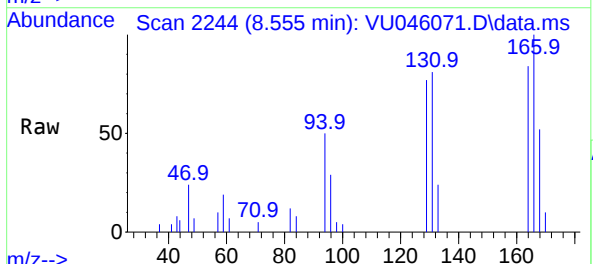
Tgt Ion: 91 Resp: 16982
Ion Ratio Lower Upper
91 100
92 59.3 41.9 77.7

Manual Integrations
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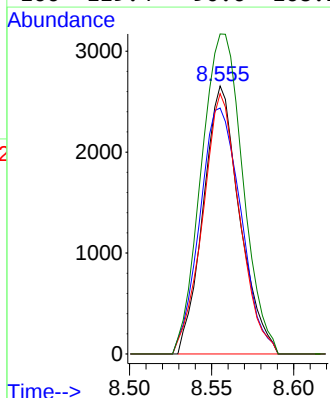
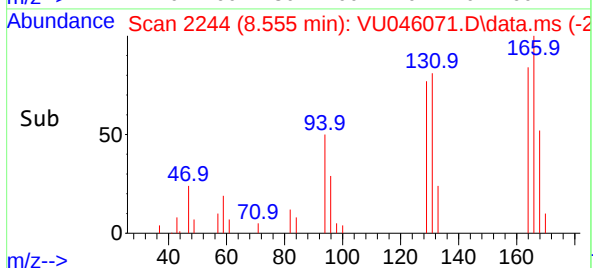
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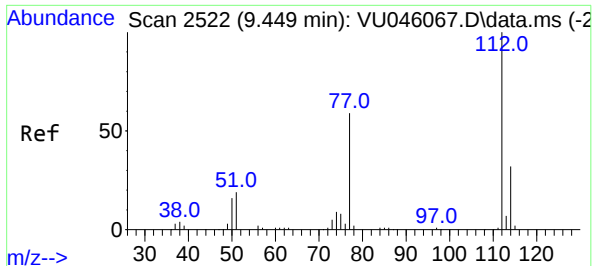


#46
Tetrachloroethene
Concen: 2.973 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13



Tgt Ion:164 Resp: 4095
Ion Ratio Lower Upper
164 100
129 91.8 71.1 132.1
131 97.1 67.8 126.0
166 119.4 90.6 168.2





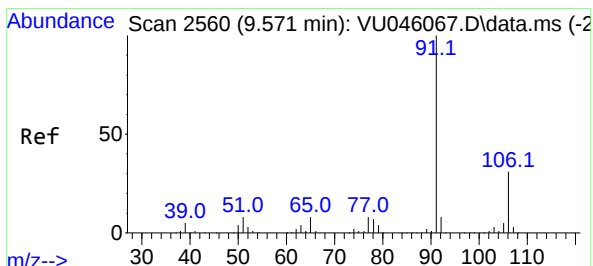
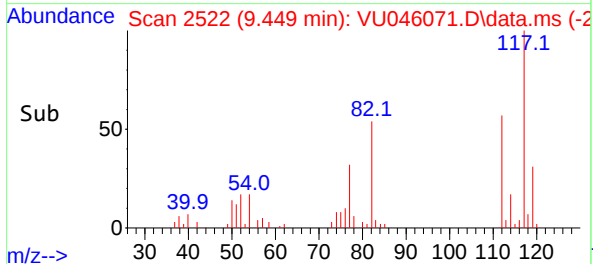
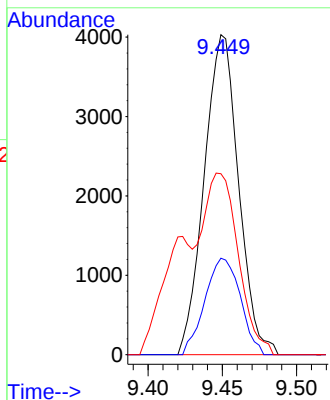
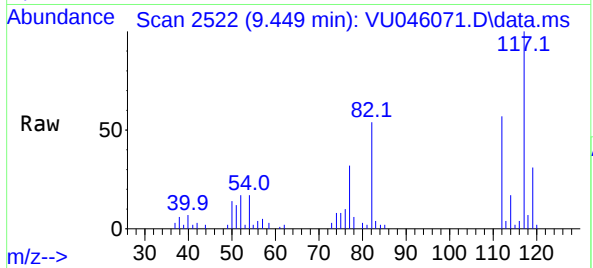
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Chlorobenzene
Concen: 1.315 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Instrument :
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Tgt Ion:112 Resp: 649
Ion Ratio Lower Upper
112 100
114 30.2 22.2 41.2
77 56.6 47.4 71.0

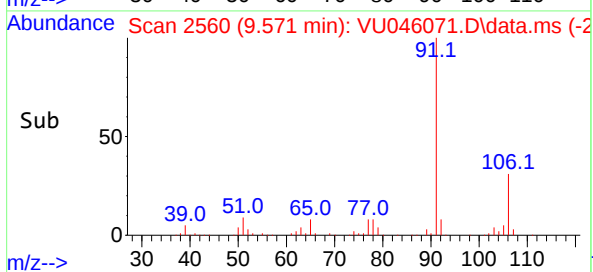
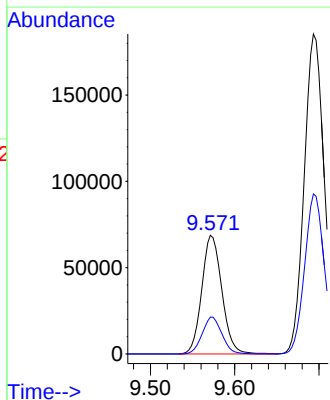
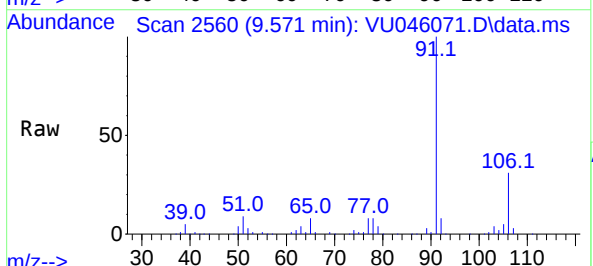
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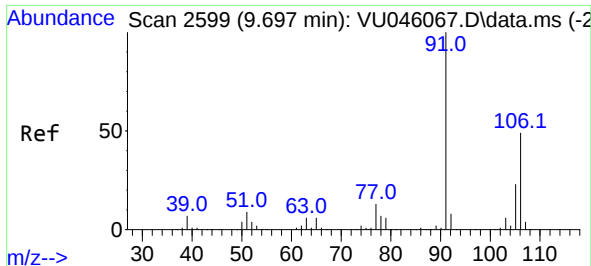
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#52
Ethylbenzene
Concen: 13.903 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion: 91 Resp: 114215
Ion Ratio Lower Upper
91 100
106 31.0 21.1 39.3





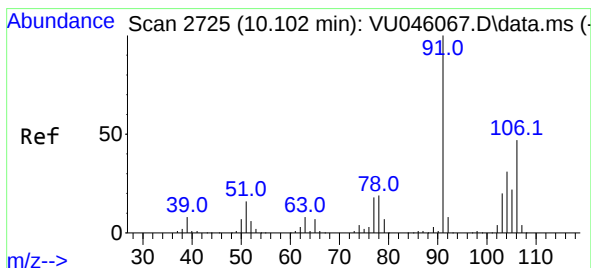
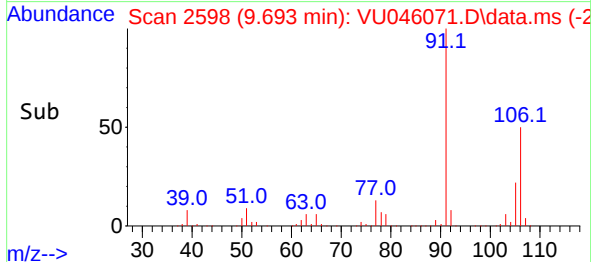
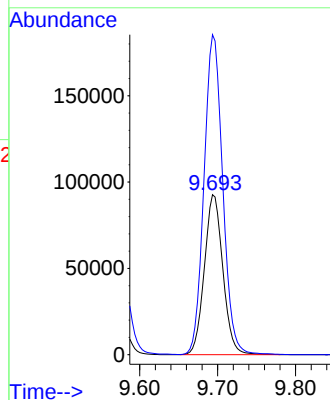
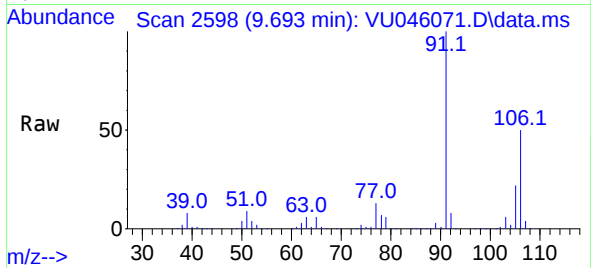
#53
m,p-Xylene
Concen: 47.703 ug/L
RT: 9.693 min Scan# 2599
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Instrument :
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ClientSampleId :
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Tgt Ion:106 Resp: 15283
Ion Ratio Lower Upper
106 100
91 199.9 144.3 268.1

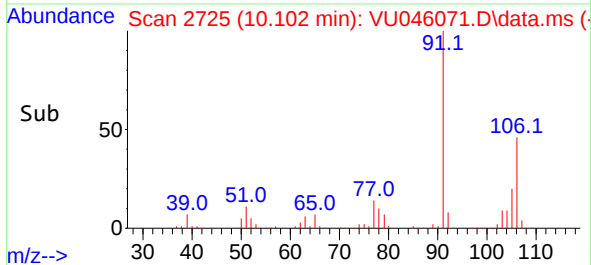
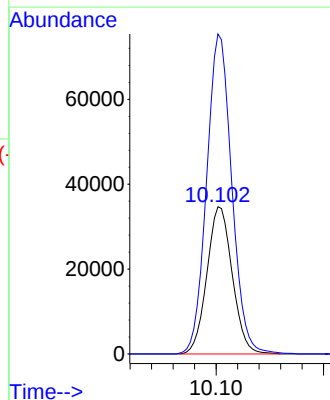
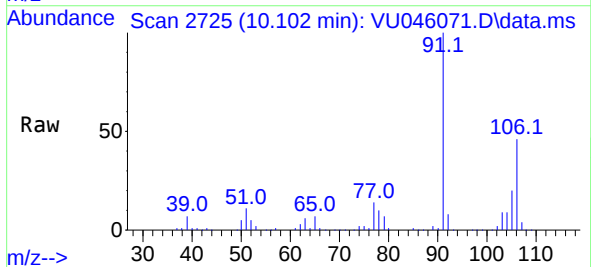
Manual Integrations
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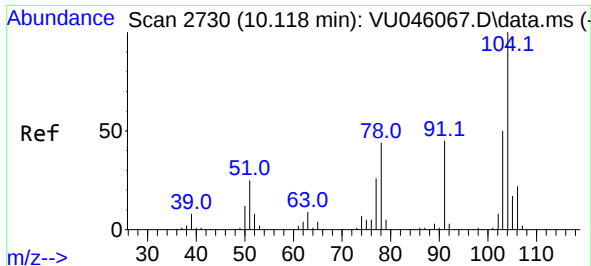
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#54
o-xylene
Concen: 18.245 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion:106 Resp: 56721
Ion Ratio Lower Upper
106 100
91 217.3 154.2 286.4





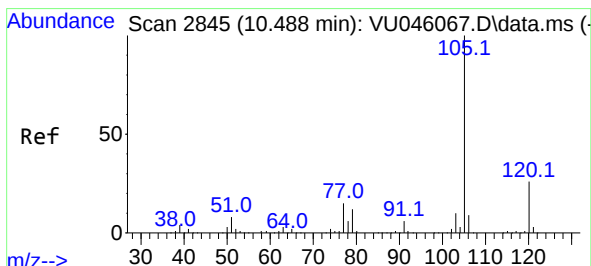
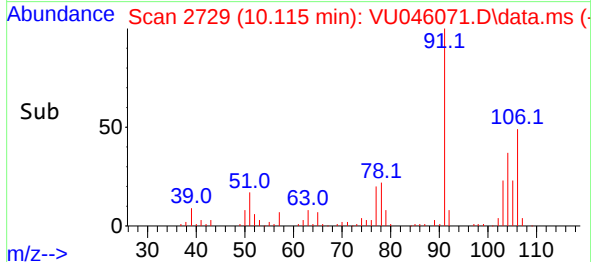
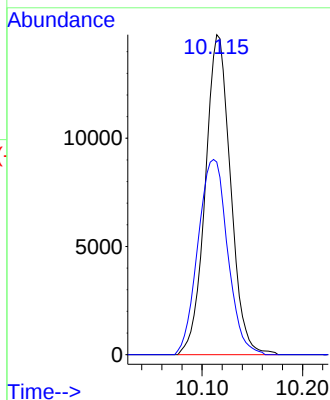
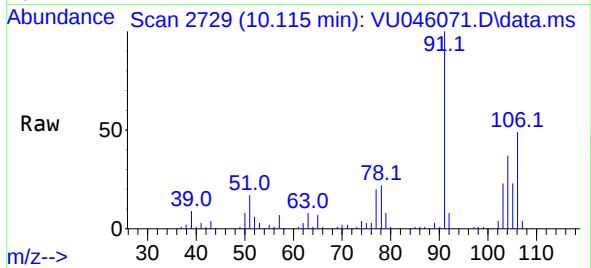
#55
Styrene
Concen: 4.869 ug/L
RT: 10.115 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Instrument :
MSVOA_U
ClientSampleId :
BGKP6DL

Tgt Ion:104 Resp: 2584
Ion Ratio Lower Upper
104 100
78 60.2 32.6 60.5

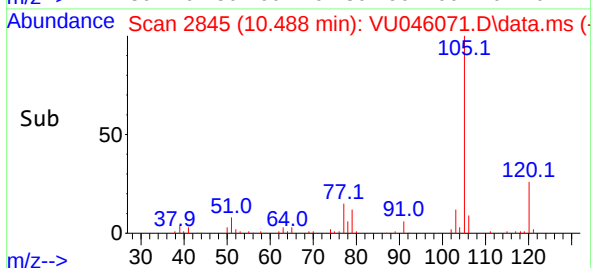
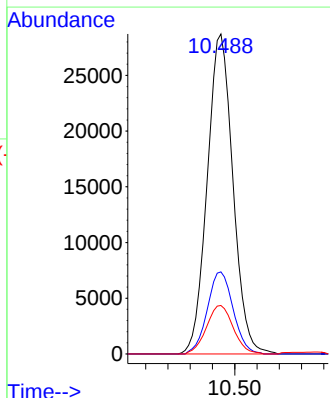
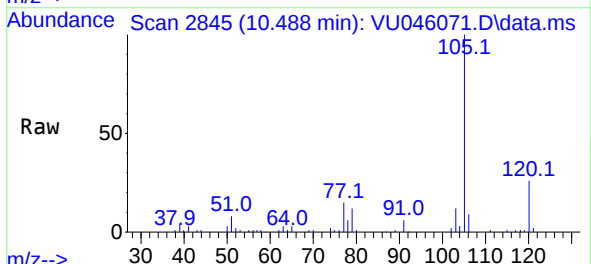
Manual Integrations
APPROVED

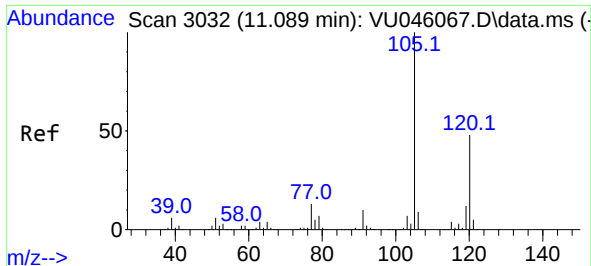
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#61
Isopropylbenzene
Concen: 5.643 ug/L
RT: 10.488 min Scan# 2845
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion:105 Resp: 46035
Ion Ratio Lower Upper
105 100
120 25.8 20.7 31.1
77 15.8 12.2 18.4





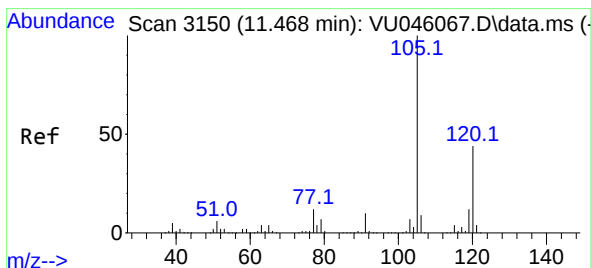
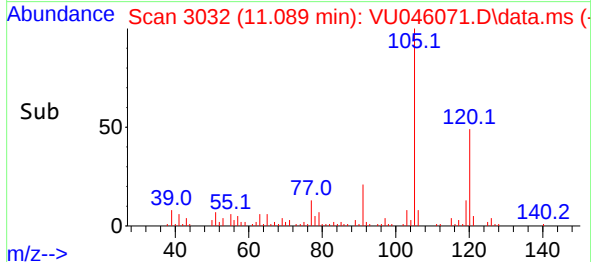
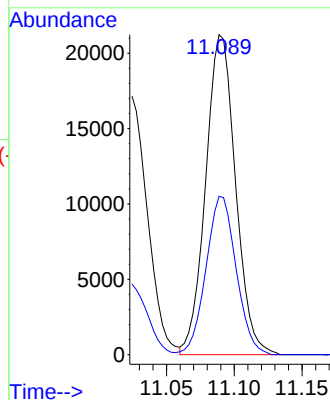
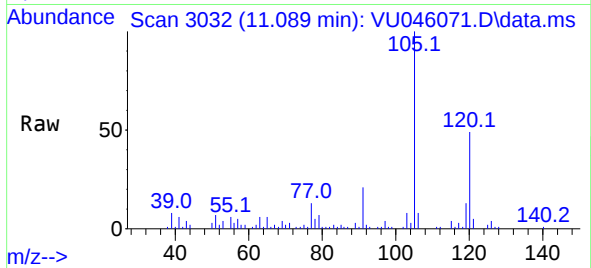
#62
1,3,5-Trimethylbenzene
Concen: 4.795 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Instrument :
MSVOA_U
ClientSampleId :
BGKP6DL

Tgt Ion:105 Resp: 3260
Ion Ratio Lower Upper
105 100
120 49.9 37.8 56.6

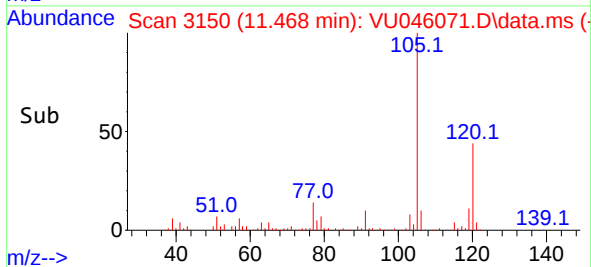
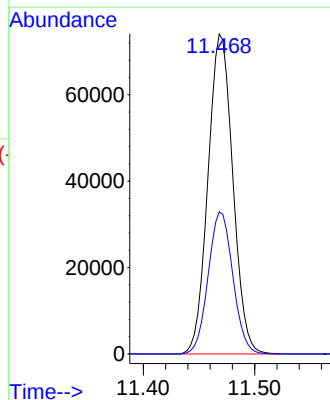
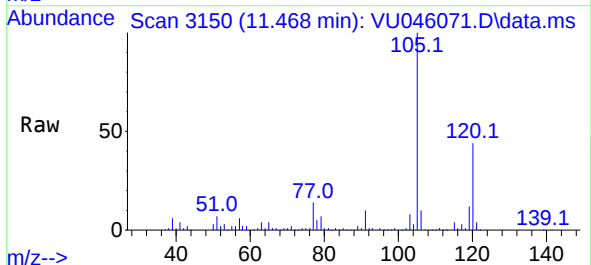
Manual Integrations
APPROVED

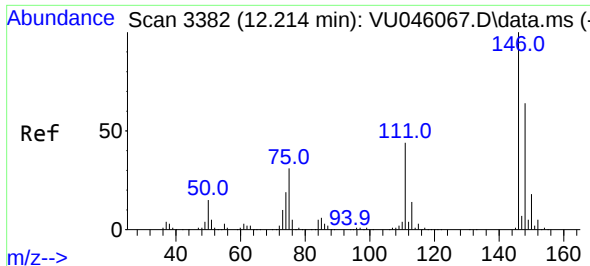
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#63
1,2,4-Trimethylbenzene
Concen: 16.855 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion:105 Resp: 114672
Ion Ratio Lower Upper
105 100
120 44.1 35.2 52.8





#67

1,2-Dichlorobenzene

Concen: 3.621 ug/L

RT: 12.214 min Scan# 3382

Delta R.T. -0.000 min

Lab File: VU046071.D

Acq: 03 Dec 2021 14:13

Instrument :

MSVOA_U

ClientSampleId :

BGKP6DL

Tgt Ion:146 Resp: 1413

Ion Ratio Lower Upper

146 100

111 47.2 35.7 53.5

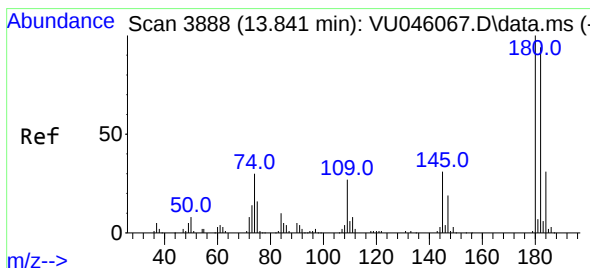
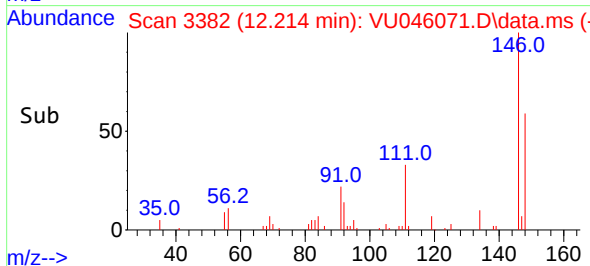
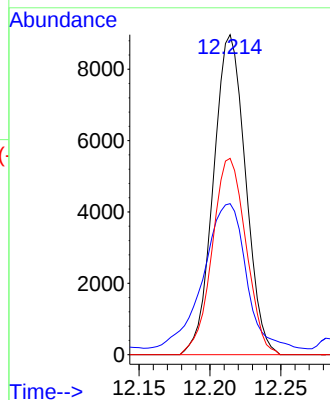
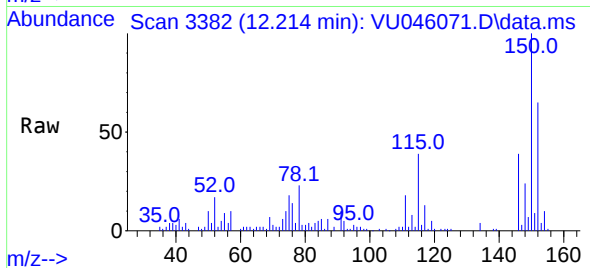
148 61.4 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/09/2021

Supervised By :Mahesh Dadoda 12/09/2021



#70

1,2,4-trichlorobenzene

Concen: 1.074 ug/L

RT: 13.841 min Scan# 3888

Delta R.T. -0.000 min

Lab File: VU046071.D

Acq: 03 Dec 2021 14:13

Tgt Ion:180 Resp: 2692

Ion Ratio Lower Upper

180 100

182 88.9 76.7 115.1

145 42.3 26.0 39.0#

