

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072722\
 Data File : VU049959.D
 Acq On : 27 Jul 2022 20:39
 Operator : SY/MD
 Sample : N3873-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBJ33

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2022
 Supervised By : Mahesh Dadoda 07/28/2022

Quant Time: Jul 28 03:49:06 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR072722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jul 28 03:41:29 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	100589	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	97675	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	43721	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	45256	5.240	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	= 104.800%		
7) Chloroethane-d5	1.912	69	34057	5.490	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	= 109.800%		
11) 1,1-Dichloroethene-d2	2.562	65	17812	5.984	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	= 119.600%		
20) 2-Butanone-d5	4.655	46	106434	55.361	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	= 110.720%		
24) Chloroform-d	5.063	84	69963	4.895	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	= 98.000%		
26) 1,2-Dichloroethane-d4	5.706	65	35879	4.982	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	= 99.600%		
32) Benzene-d6	5.722	84	148030	5.129	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	= 102.600%		
36) 1,2-Dichloropropane-d6	6.693	67	47388	5.012	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	= 100.200%		
41) Toluene-d8	7.896	98	121622	4.741	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	= 94.800%		
43) trans-1,3-Dichloroprop...	8.182	79	17113	5.164	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	= 103.200%		
46) 2-Hexanone-d5	8.642	63	63648	51.305	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	= 102.620%		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	42536	5.354	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	= 107.000%		
66) 1,2-Dichlorobenzene-d4	12.192	152	43485	5.362	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	= 107.200%		
Target Compounds						Qvalue
3) Chloromethane	1.520	50	35689	3.880	ug/L	97
6) Bromomethane	1.854	94	17359	3.627	ug/L	99
9) Trichlorofluoromethane	2.134	101	88614	8.702	ug/L	99
12) 1,1-Dichloroethene	2.575	96	23560	4.244	ug/L #	73
13) Acetone	2.645	43	86469m	63.988	ug/L	
14) Carbon disulfide	2.784	76	97968	5.809	ug/L	100
16) Methylene chloride	3.041	84	23731	2.780	ug/L	97
17) Methyl tert-butyl Ether	3.372	73	167390	10.786	ug/L	99
19) 1,1-Dichloroethane	3.861	63	125990	10.065	ug/L	98
21) 2-Butanone	4.735	43	234566	120.518	ug/L	89
27) 1,2-Dichloroethane	5.796	62	65148	8.322	ug/L	99
29) 1,1,1-Trichloroethane	5.311	97	100019	9.643	ug/L	99
30) Cyclohexane	5.382	56	118290	13.512	ug/L	100
34) Trichloroethene	6.539	95	41503	5.989	ug/L	95
35) Methylcyclohexane	6.758	83	69162	7.567	ug/L	98
37) 1,2-Dichloropropane	6.793	63	18649	2.374	ug/L	99
42) Toluene	7.970	91	275416	9.501	ug/L	98
47) Tetrachloroethene	8.552	164	49394	9.904	ug/L	94
48) 2-Hexanone	8.693	43	214419	61.963	ug/L	99

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

50) 1,2-Dibromoethane	8.925	107	94620	18.152	ug/L	96
51) Chlorobenzene	9.446	112	220191	11.966	ug/L	99
52) Ethylbenzene	9.571	91	219362	7.725	ug/L	98
53) m,p-Xylene	9.697	106	165921	15.345	ug/L	99
54) o-Xylene	10.102	106	66173	6.312	ug/L	96
55) Styrene	10.115	104	114199	6.396	ug/L	98
59) Bromoform	10.291	173	21574	6.139	ug/L	100
60) Isopropylbenzene	10.484	105	104385	4.041	ug/L	99
65) 1,4-Dichlorobenzene	11.838	146	58941	4.817	ug/L	96
67) 1,2-Dichlorobenzene	12.214	146	173015	14.081	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.999	75	5053	5.038	ug/L	94
72) 1,2,3-Trichlorobenzene	14.330	180	82630	11.705	ug/L	98

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

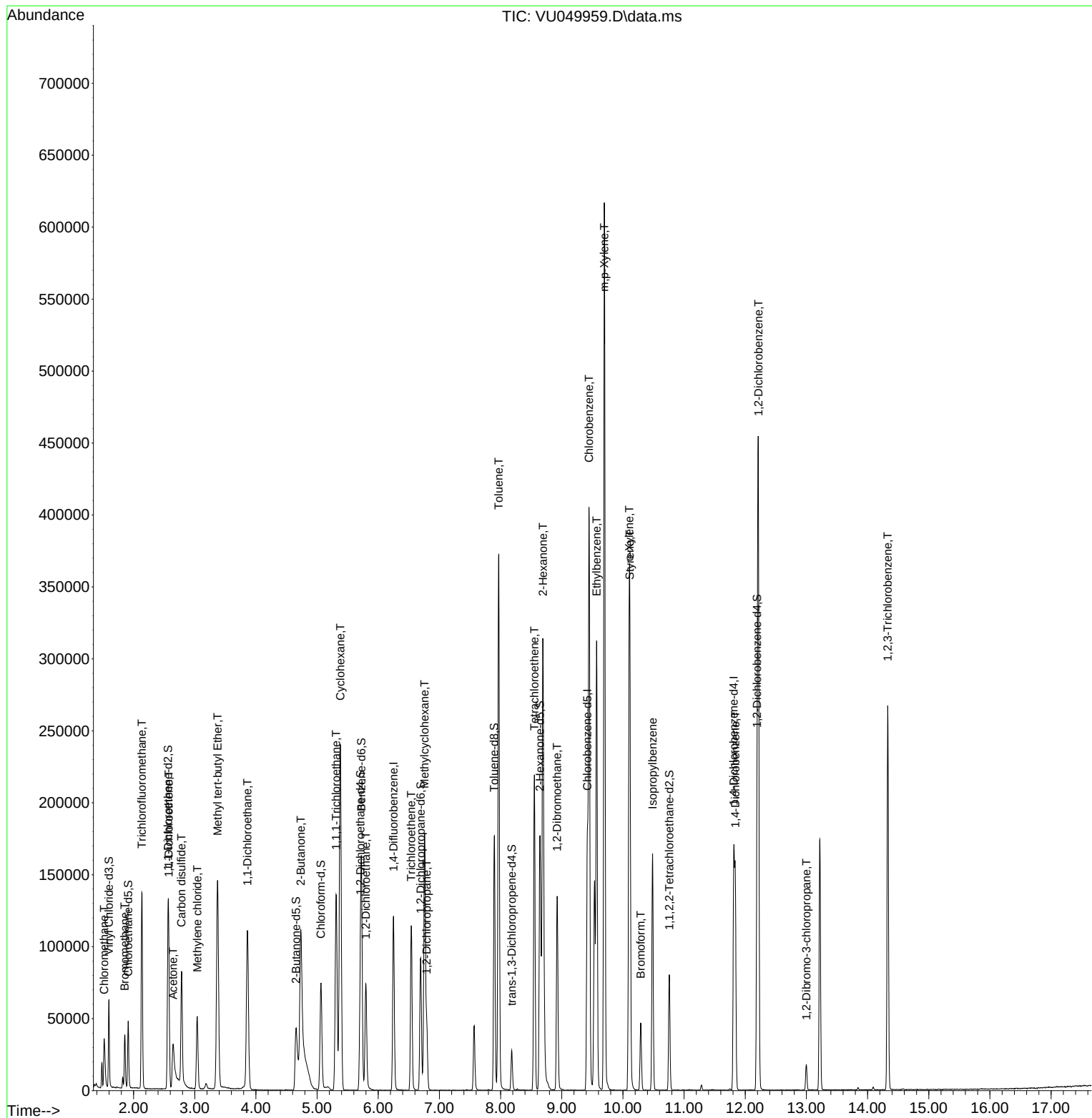
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072722\
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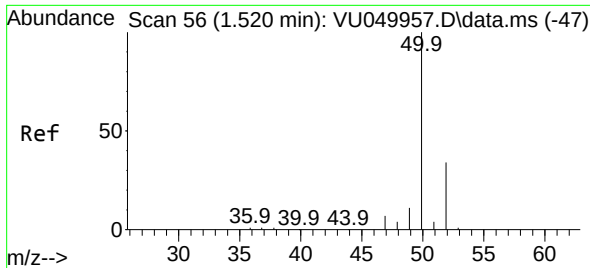
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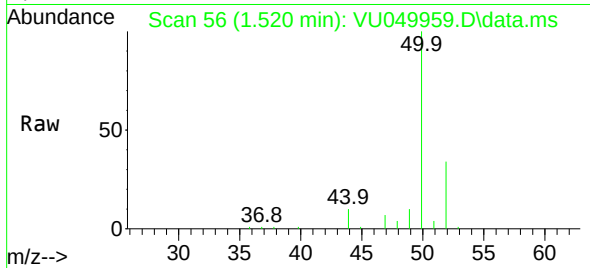
Quant Time: Jul 28 03:49:06 2022
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#3
Chloromethane
Concen: 3.880 ug/L
RT: 1.520 min Scan# 50
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

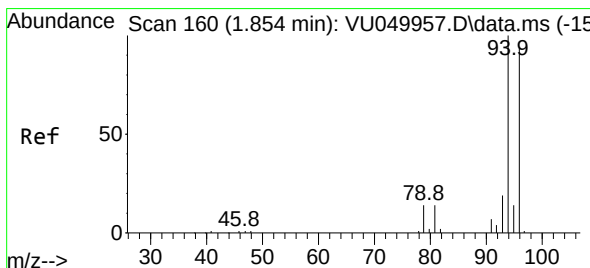
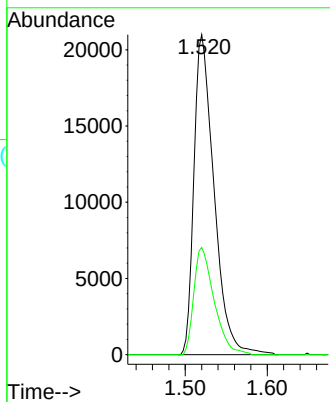
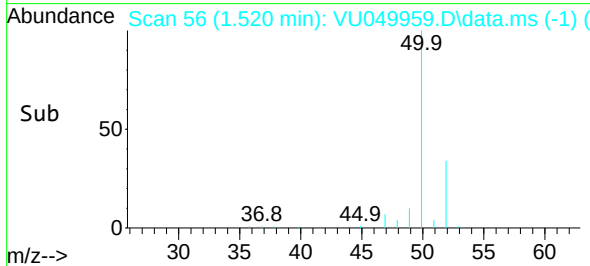
Instrument :
MSVOA_U
ClientSampleId :
GBJ33



Tgt Ion: 50 Resp: 35689
Ion Ratio Lower Upper
50 100
52 33.5 22.4 41.6

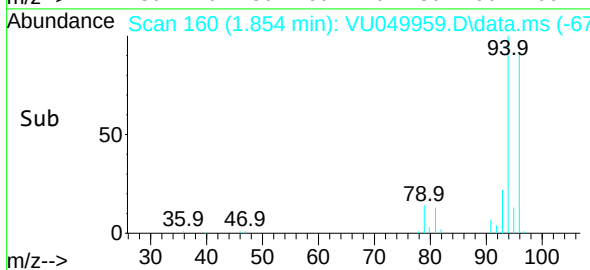
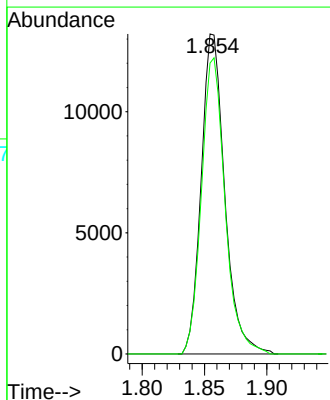
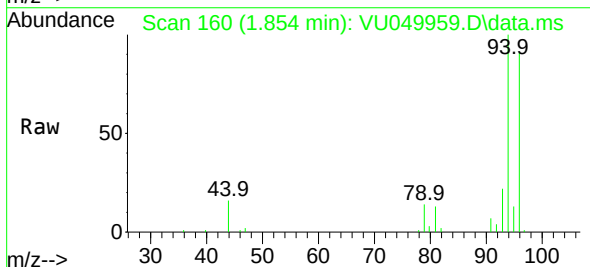
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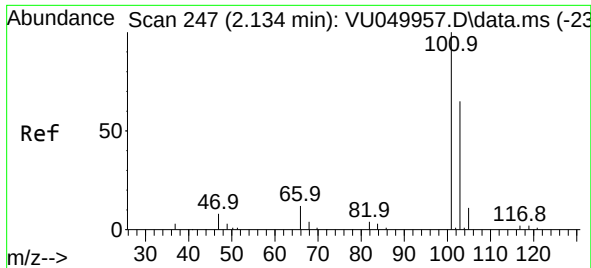
Reviewed By :John Carlone 07/28/2022
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#6
Bromomethane
Concen: 3.627 ug/L
RT: 1.854 min Scan# 160
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

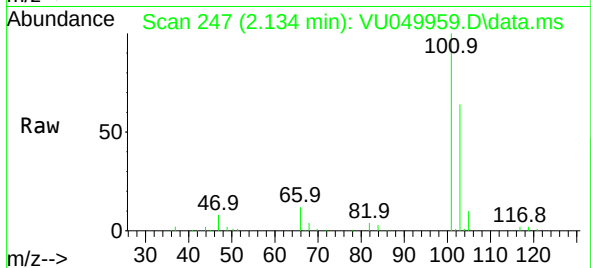
Tgt Ion: 94 Resp: 17359
Ion Ratio Lower Upper
94 100
96 90.9 64.5 119.9





#9
 Trichlorofluoromethane
 Concen: 8.702 ug/L
 RT: 2.134 min Scan# 247
 Delta R.T. -0.000 min
 Lab File: VU049959.D
 Acq: 27 Jul 2022 20:39

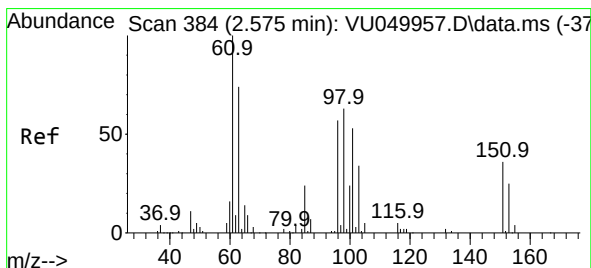
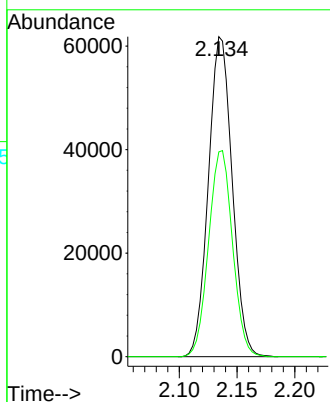
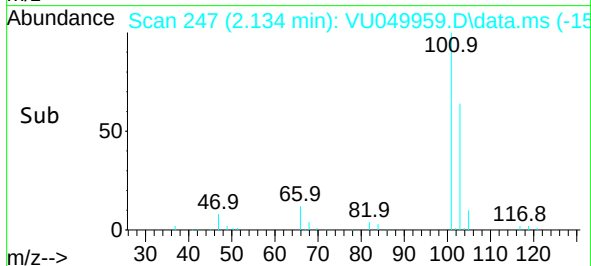
Instrument :
 MSVOA_U
 ClientSampleId :
 GBJ33



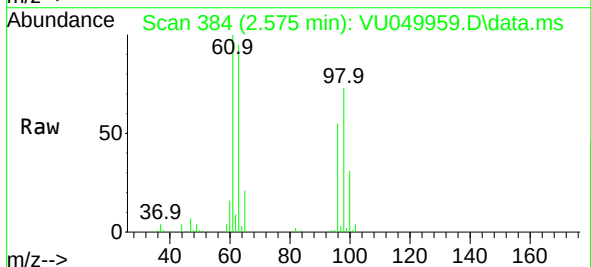
Tgt Ion:101 Resp: 88614
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.0 76.6

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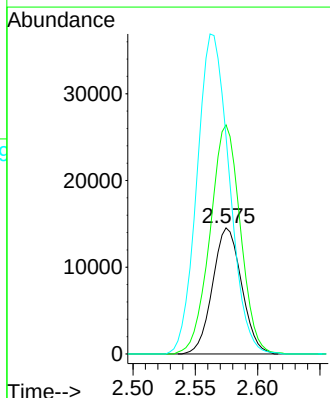
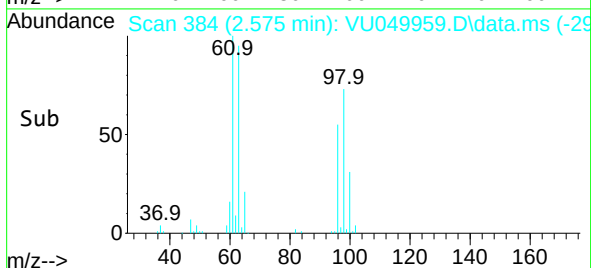
Reviewed By :John Carlone 07/28/2022
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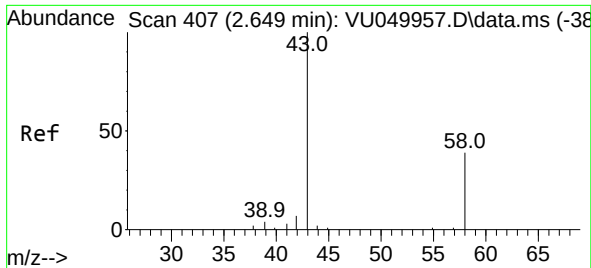


#12
 1,1-Dichloroethene
 Concen: 4.244 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.000 min
 Lab File: VU049959.D
 Acq: 27 Jul 2022 20:39



Tgt Ion: 96 Resp: 23560
 Ion Ratio Lower Upper
 96 100
 61 181.8 115.7 214.9
 63 172.5 84.8 157.4#





#13

Acetone

Concen: 63.988 ug/L m

RT: 2.645 min Scan# 407

Delta R.T. -0.003 min

Lab File: VU049959.D

Acq: 27 Jul 2022 20:39

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

Tgt Ion: 43 Resp: 86469

Ion Ratio Lower Upper

43 100

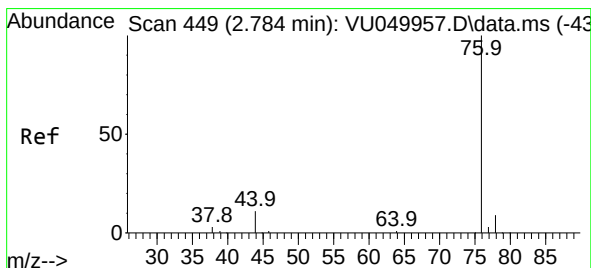
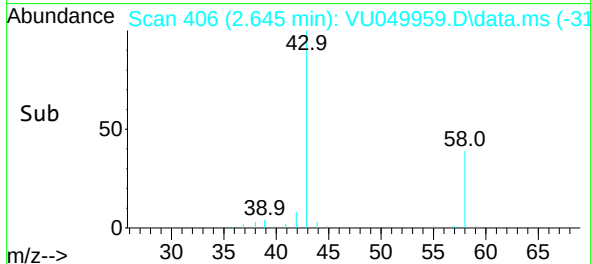
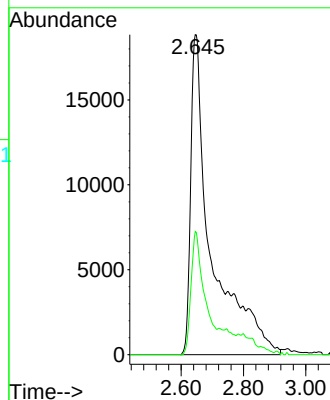
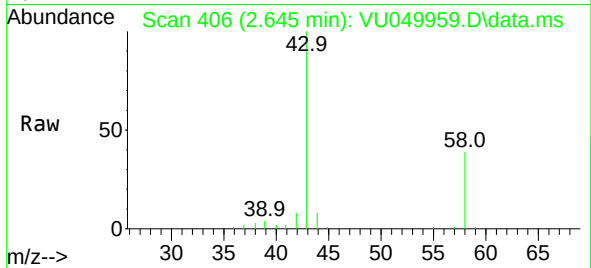
58 25.4 0.0 73.0

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#14

Carbon disulfide

Concen: 5.809 ug/L

RT: 2.784 min Scan# 449

Delta R.T. -0.000 min

Lab File: VU049959.D

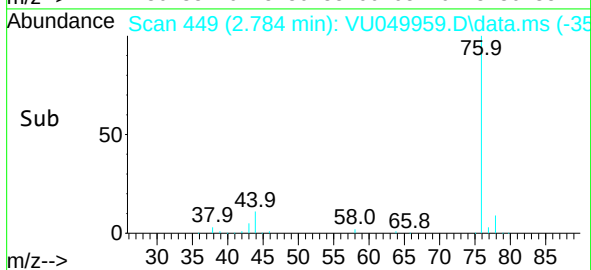
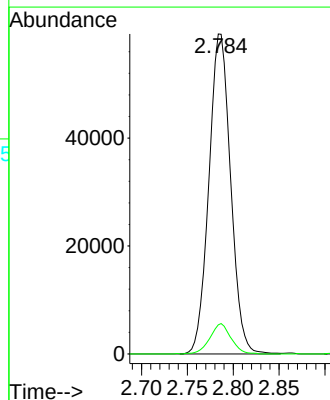
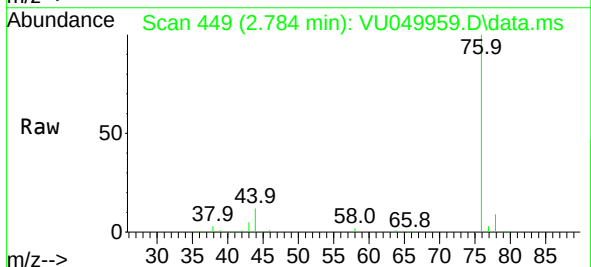
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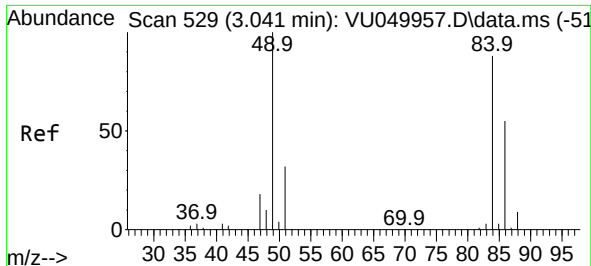
Tgt Ion: 76 Resp: 97968

Ion Ratio Lower Upper

76 100

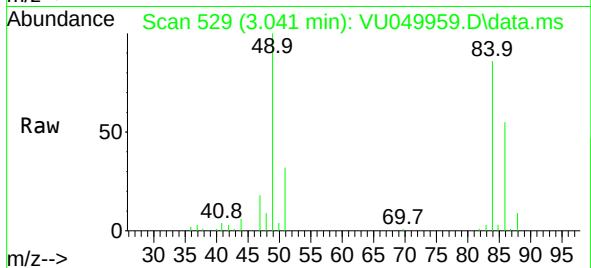
78 9.1 7.4 11.0





#16
Methylene chloride
Concen: 2.780 ug/L
RT: 3.041 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

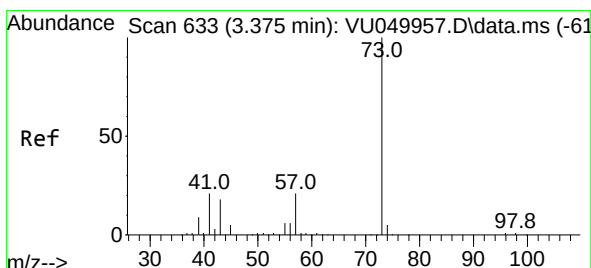
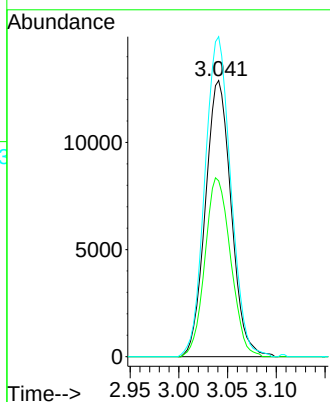
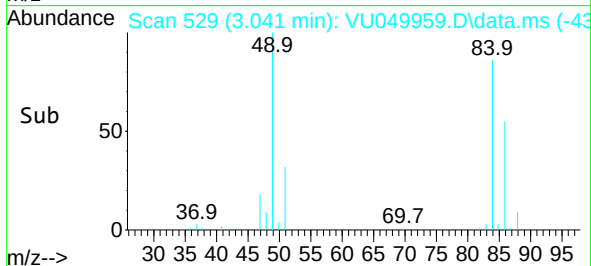
Instrument :
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ClientSampleId :
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Tgt Ion: 84 Resp: 2373
Ion Ratio Lower Upper
84 100
86 63.7 45.2 84.0
49 115.9 77.6 144.0

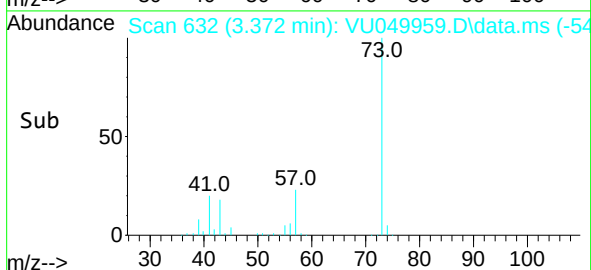
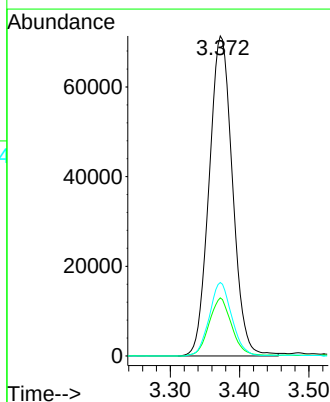
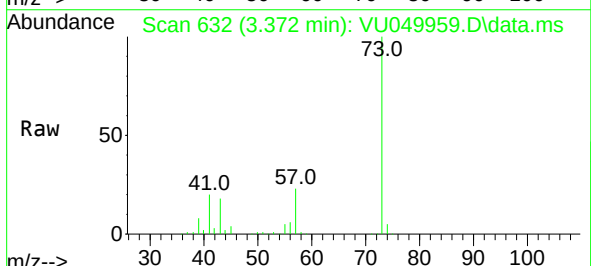
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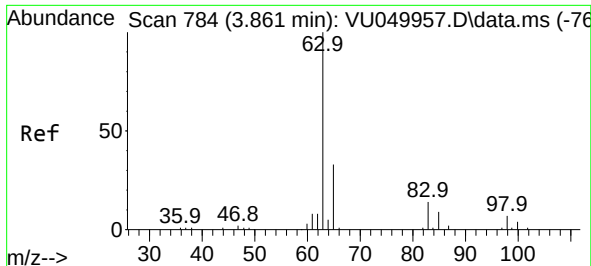
Reviewed By :John Carlone 07/28/2022
Supervised By :Mahesh Dadoda 07/28/2022



#17
Methyl tert-butyl Ether
Concen: 10.786 ug/L
RT: 3.372 min Scan# 632
Delta R.T. -0.003 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

Tgt Ion: 73 Resp: 167390
Ion Ratio Lower Upper
73 100
43 17.6 13.8 20.6
57 22.0 17.9 26.9





#19

1,1-Dichloroethane

Concen: 10.065 ug/L

RT: 3.861 min Scan# 784

Delta R.T. -0.000 min

Lab File: VU049959.D

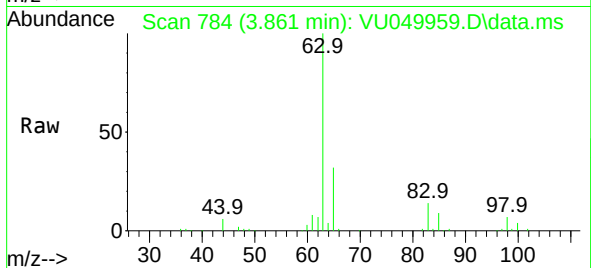
Acq: 27 Jul 2022 20:39

Instrument :

MSVOA_U

ClientSampleId :

GBJ33



Tgt Ion: 63 Resp: 125990

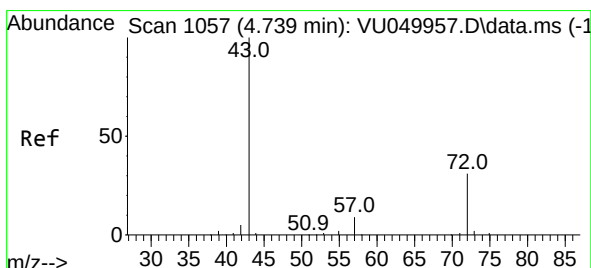
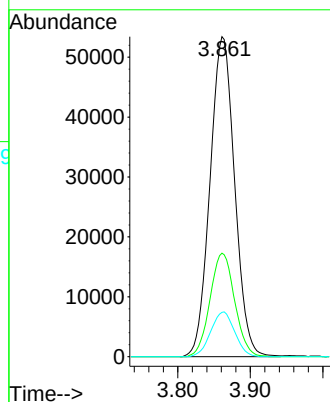
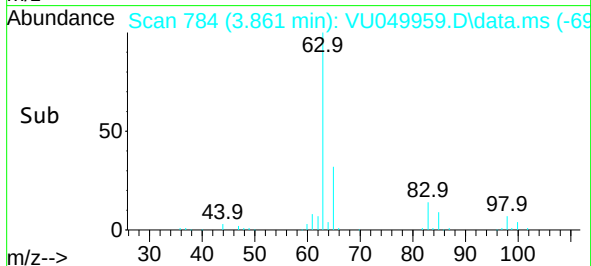
Ion	Ratio	Lower	Upper
63	100		
65	32.4	23.4	43.6
83	13.9	9.4	17.4

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#21

2-Butanone

Concen: 120.518 ug/L

RT: 4.735 min Scan# 1056

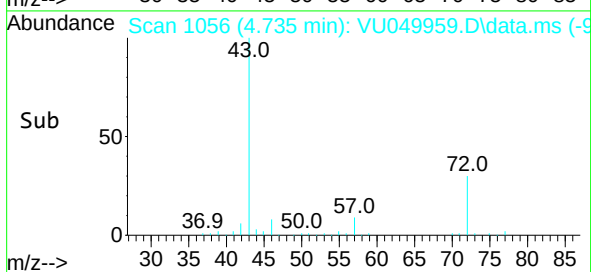
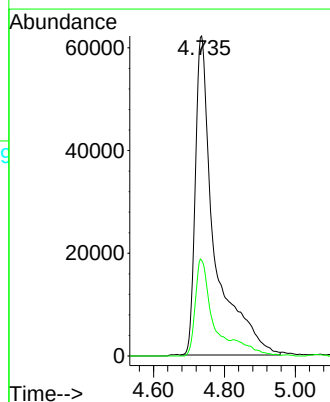
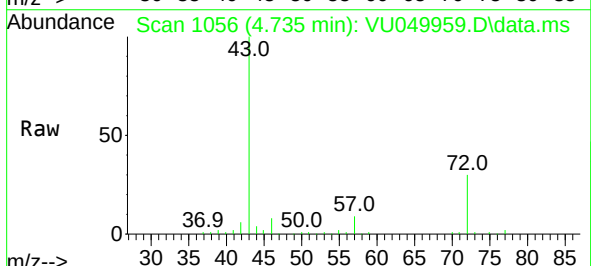
Delta R.T. -0.003 min

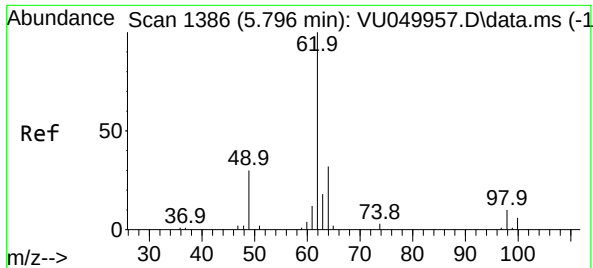
Lab File: VU049959.D

Acq: 27 Jul 2022 20:39

Tgt Ion: 43 Resp: 234566

Ion	Ratio	Lower	Upper
43	100		
72	25.3	15.8	47.3





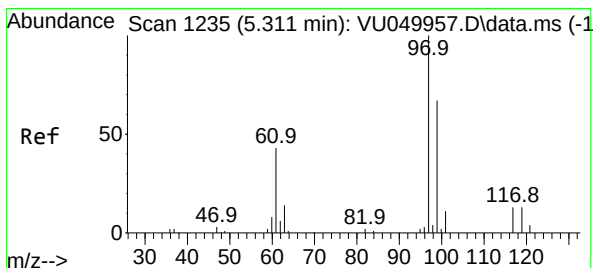
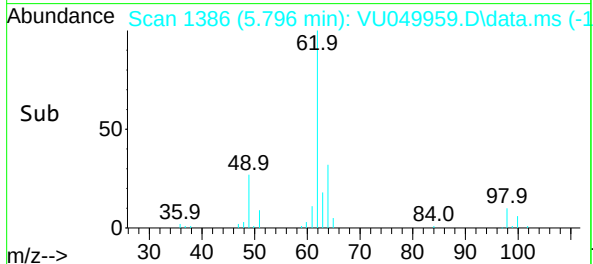
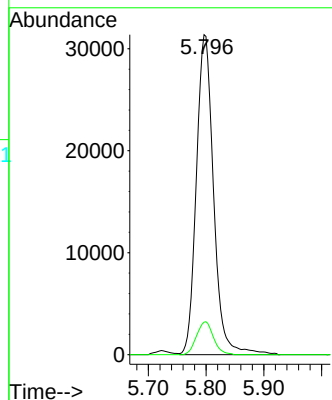
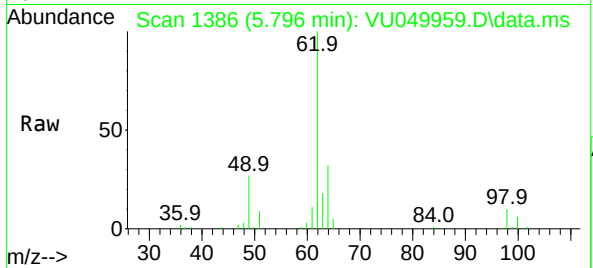
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1,2-Dichloroethane
Concen: 8.322 ug/L
RT: 5.796 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

Instrument :
MSVOA_U
ClientSampleId :
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Tgt Ion: 62 Resp: 65148
Ion Ratio Lower Upper
62 100
98 10.1 7.9 11.9

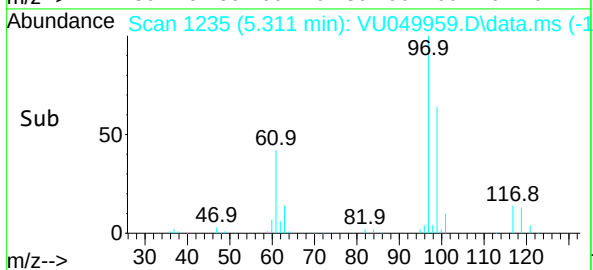
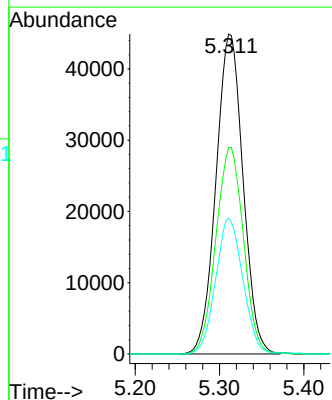
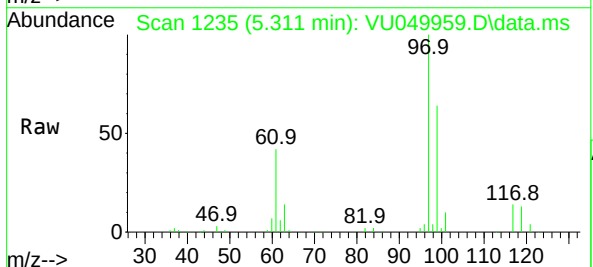
Manual Integrations
APPROVED

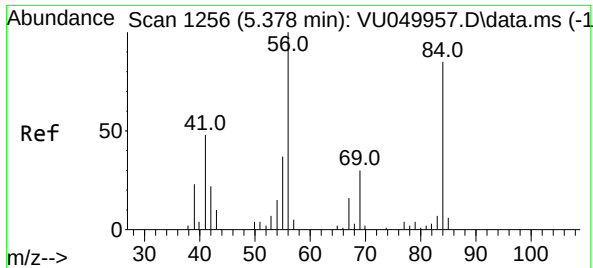
Reviewed By :John Carlone 07/28/2022
Supervised By :Mahesh Dadoda 07/28/2022



#29
1,1,1-Trichloroethane
Concen: 9.643 ug/L
RT: 5.311 min Scan# 1235
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

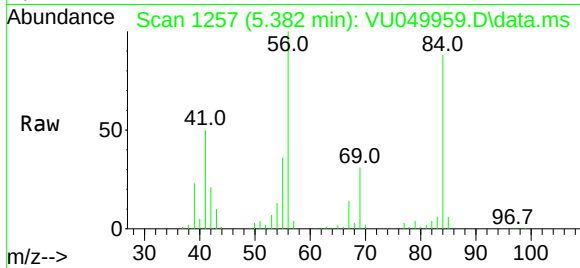
Tgt Ion: 97 Resp: 100019
Ion Ratio Lower Upper
97 100
99 65.7 52.0 78.0
61 42.7 35.0 52.6





#30
Cyclohexane
Concen: 13.512 ug/L
RT: 5.382 min Scan# 1256
Delta R.T. 0.003 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

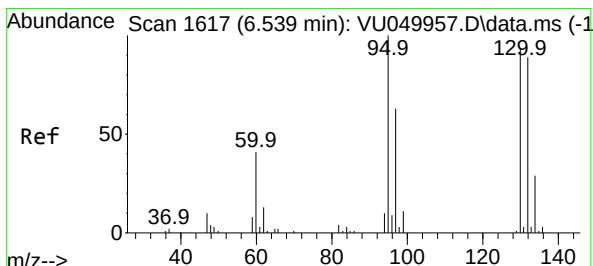
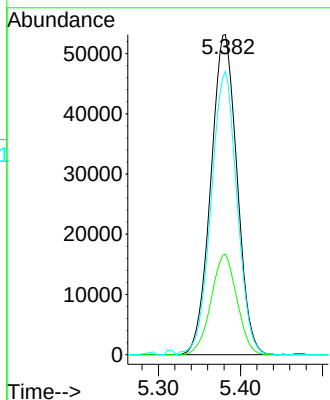
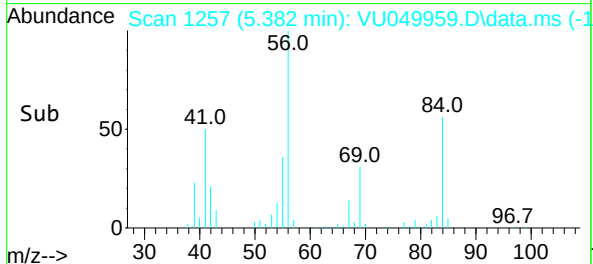
Instrument :
MSVOA_U
ClientSampleId :
GBJ33



Tgt Ion: 56 Resp: 118290
Ion Ratio Lower Upper
56 100
69 30.9 25.1 37.7
84 87.4 70.1 105.1

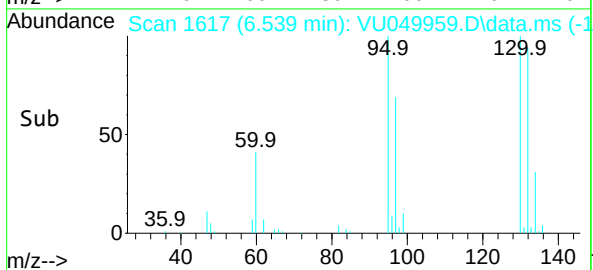
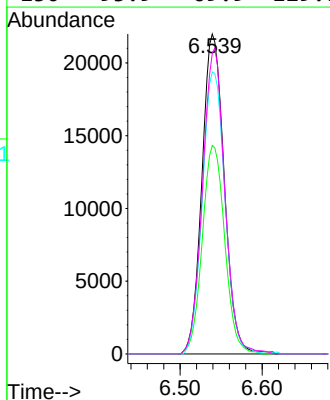
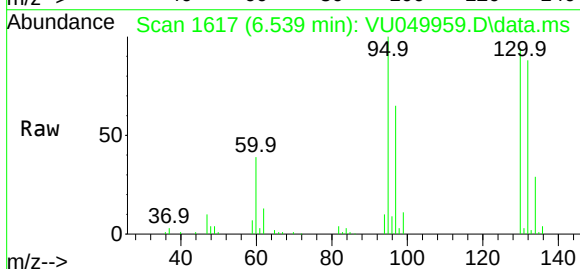
Manual Integrations
APPROVED

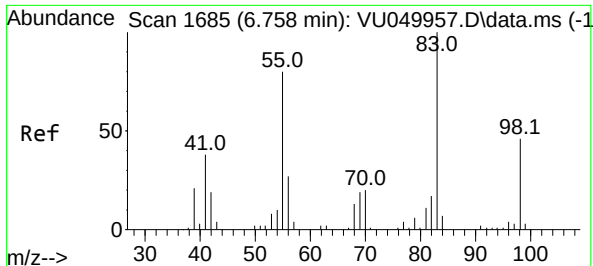
Reviewed By :John Carlone 07/28/2022
Supervised By :Mahesh Dadoda 07/28/2022



#34
Trichloroethene
Concen: 5.989 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

Tgt Ion: 95 Resp: 41503
Ion Ratio Lower Upper
95 100
97 65.2 45.6 84.8
132 88.1 66.8 124.2
130 93.9 69.9 129.7





#35

Methylcyclohexane

Concen: 7.567 ug/L

RT: 6.758 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VU049959.D

Acq: 27 Jul 2022 20:39

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

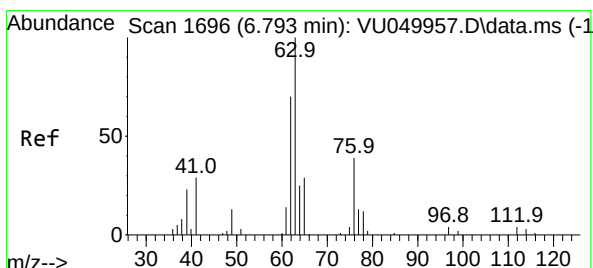
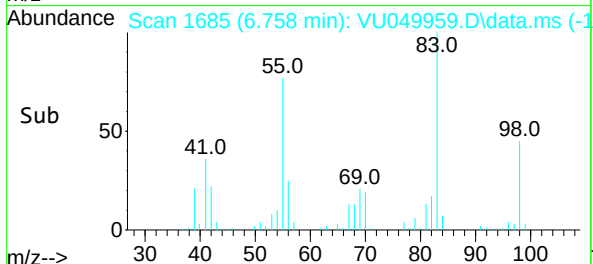
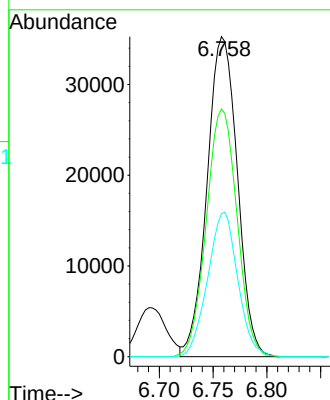
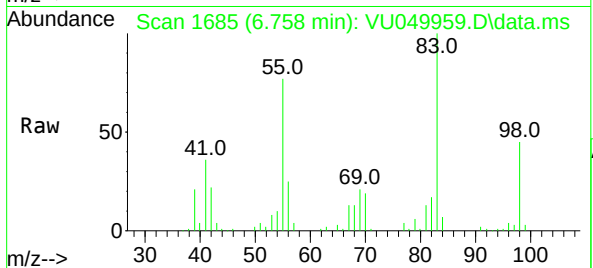
Tgt Ion: 83	Resp: 6916
Ion Ratio	Lower Upper
83 100	
55 78.5	61.6 92.4
98 44.9	34.8 52.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2022

Supervised By :Mahesh Dadoda 07/28/2022



#37

1,2-Dichloropropane

Concen: 2.374 ug/L

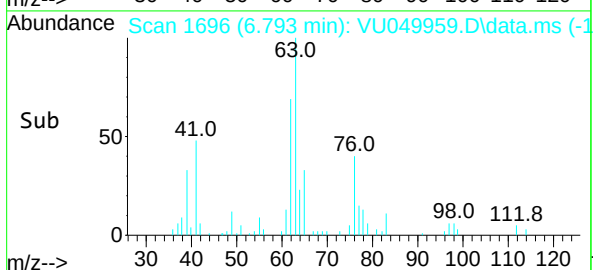
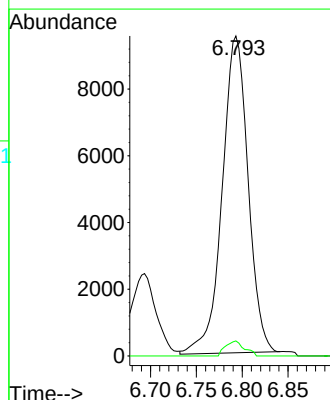
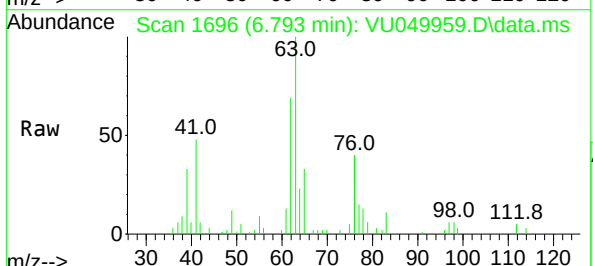
RT: 6.793 min Scan# 1696

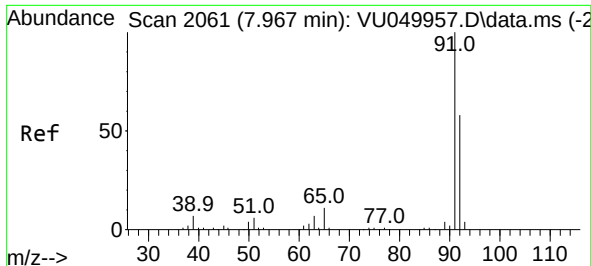
Delta R.T. -0.000 min

Lab File: VU049959.D

Acq: 27 Jul 2022 20:39

Tgt Ion: 63	Resp: 18649
Ion Ratio	Lower Upper
63 100	
112 3.5	3.0 4.6





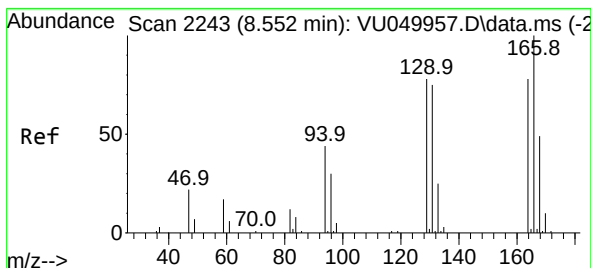
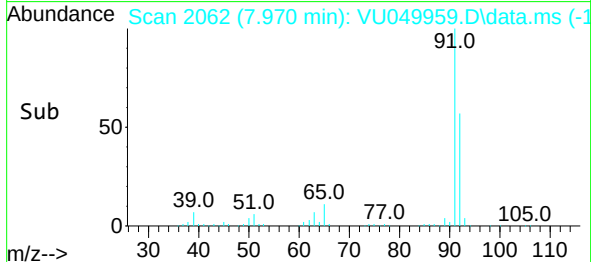
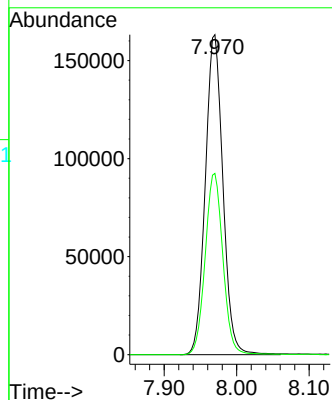
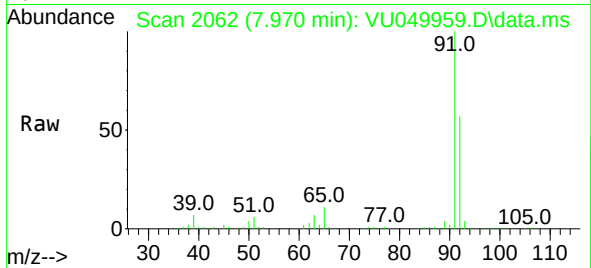
#42
Toluene
Concen: 9.501 ug/L
RT: 7.970 min Scan# 2061
Delta R.T. 0.003 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

Instrument :
MSVOA_U
ClientSampleId :
GBJ33

Tgt Ion: 91 Resp: 275410
Ion Ratio Lower Upper
91 100
92 56.7 40.5 75.3

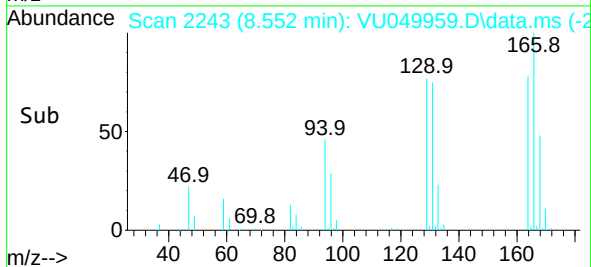
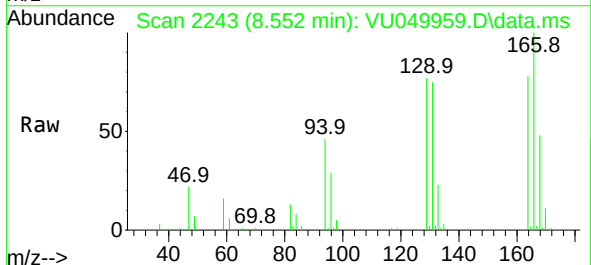
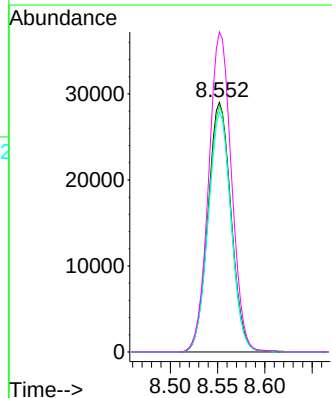
Manual Integrations
APPROVED

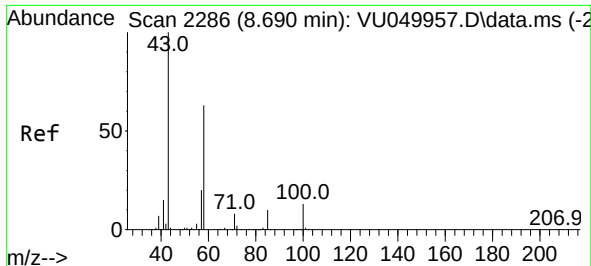
Reviewed By :John Carlone 07/28/2022
Supervised By :Mahesh Dadoda 07/28/2022



#47
Tetrachloroethene
Concen: 9.904 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

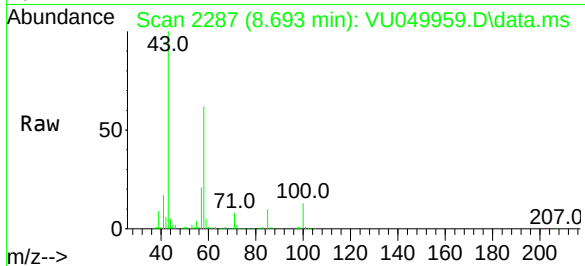
Tgt Ion:164 Resp: 49394
Ion Ratio Lower Upper
164 100
129 98.8 66.3 123.1
131 96.1 63.1 117.1
166 128.2 84.6 157.0





#48
2-Hexanone
Concen: 61.963 ug/L
RT: 8.693 min Scan# 214419
Delta R.T. 0.003 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

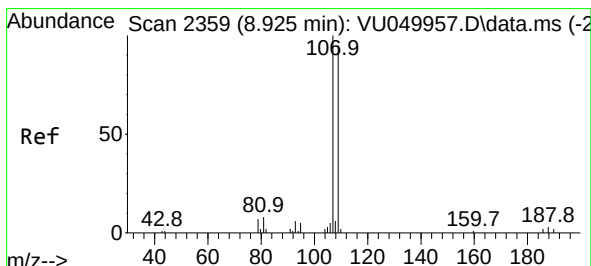
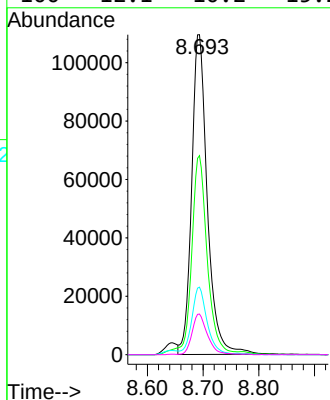
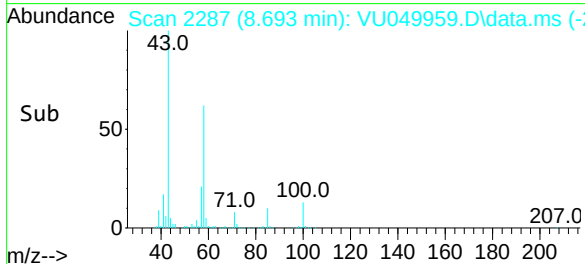
Instrument :
MSVOA_U
ClientSampleId :
GBJ33



Tgt Ion: 43 Resp: 214419
Ion Ratio Lower Upper
43 100
58 62.0 49.4 74.0
57 20.2 17.0 25.4
100 12.1 10.2 15.2

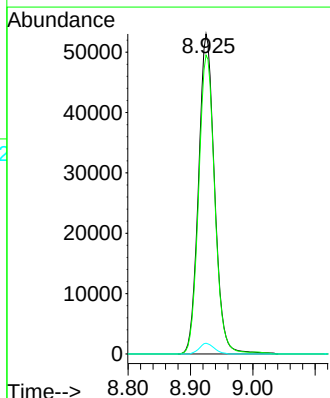
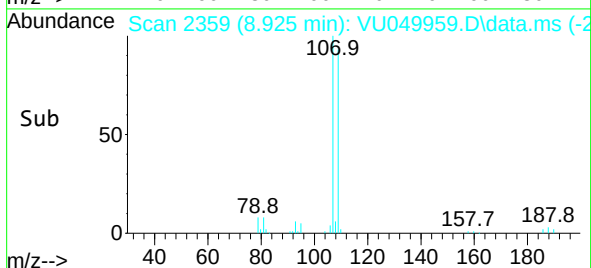
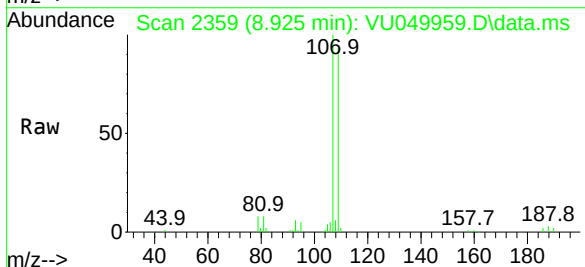
Manual Integrations
APPROVED

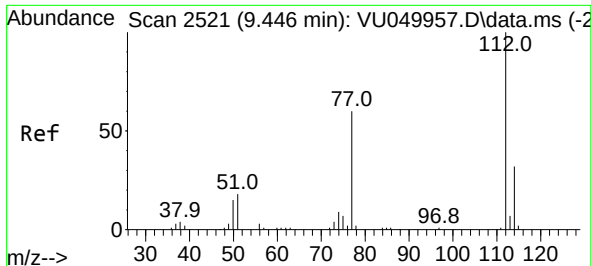
Reviewed By :John Carlone 07/28/2022
Supervised By :Mahesh Dadoda 07/28/2022



#50
1,2-Dibromoethane
Concen: 18.152 ug/L
RT: 8.925 min Scan# 2359
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

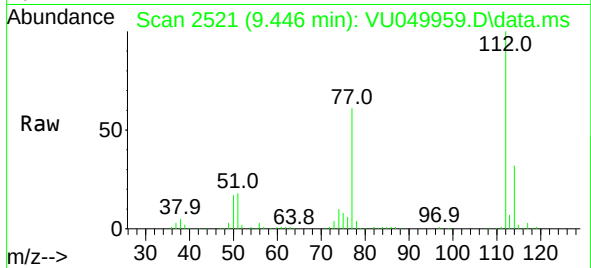
Tgt Ion:107 Resp: 94620
Ion Ratio Lower Upper
107 100
109 93.4 62.7 116.5
188 3.3 2.4 3.6





#51
Chlorobenzene
Concen: 11.966 ug/L
RT: 9.446 min Scan# 2521
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

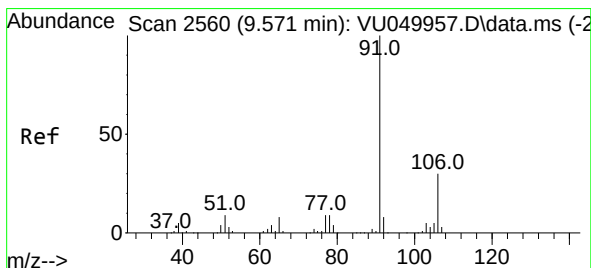
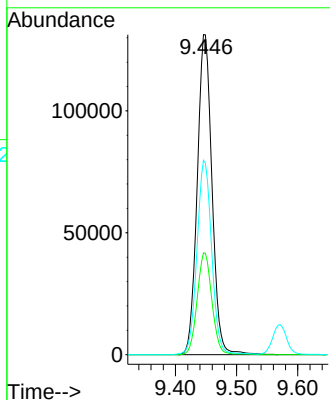
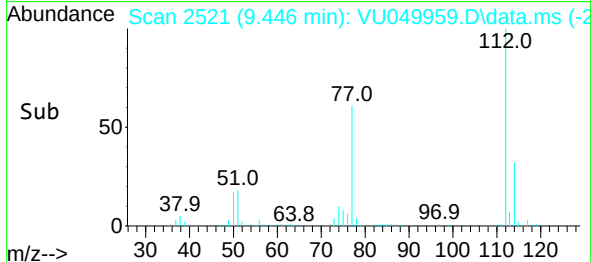
Instrument :
MSVOA_U
ClientSampleId :
GBJ33



Tgt Ion:112 Resp: 22019
Ion Ratio Lower Upper
112 100
114 31.8 22.4 41.6
77 60.7 48.2 72.4

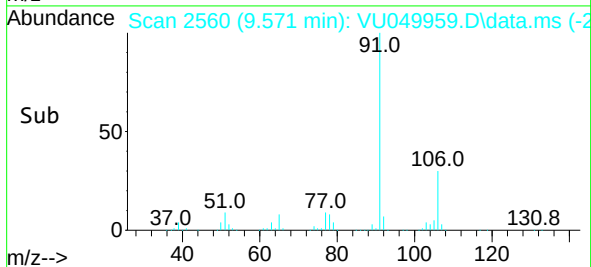
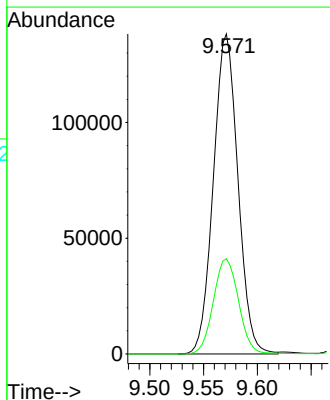
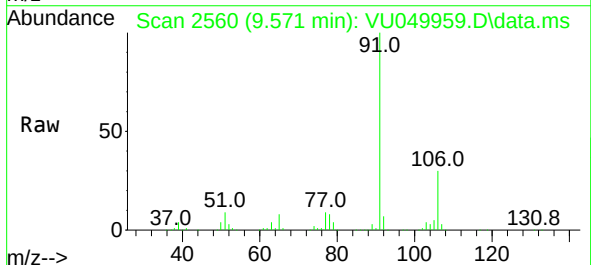
Manual Integrations
APPROVED

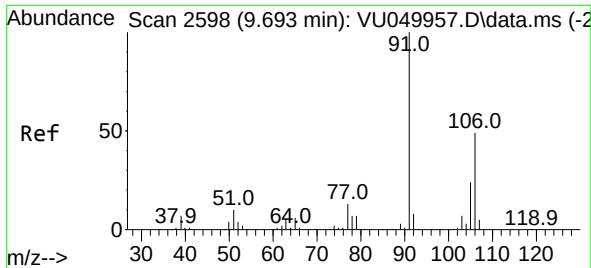
Reviewed By :John Carlone 07/28/2022
Supervised By :Mahesh Dadoda 07/28/2022



#52
Ethylbenzene
Concen: 7.725 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

Tgt Ion: 91 Resp: 219362
Ion Ratio Lower Upper
91 100
106 29.7 21.6 40.0





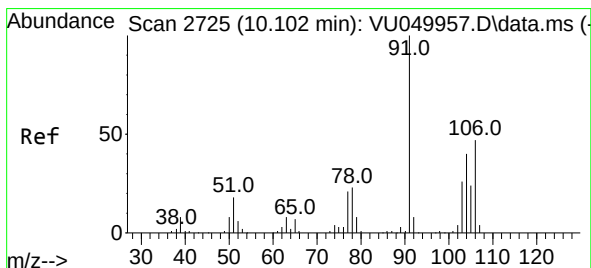
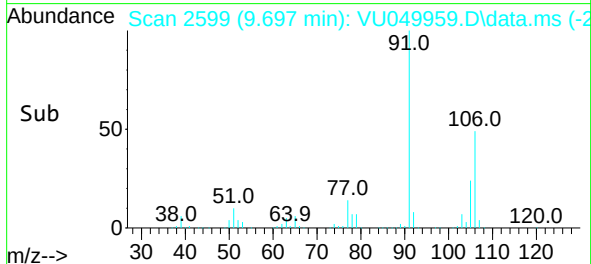
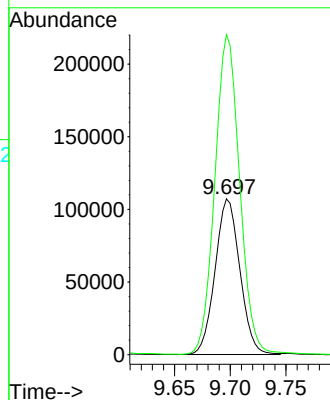
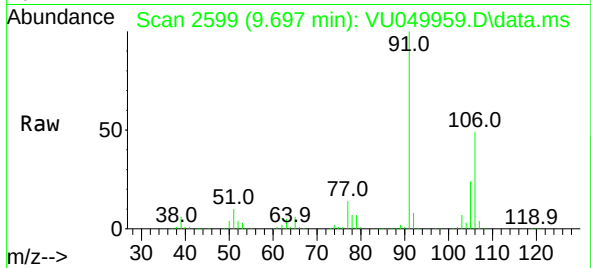
#53
m,p-Xylene
Concen: 15.345 ug/L
RT: 9.697 min Scan# 2599
Delta R.T. 0.003 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

Instrument :
MSVOA_U
ClientSampleId :
GBJ33

Tgt Ion:106 Resp: 16592
Ion Ratio Lower Upper
106 100
91 205.2 142.4 264.4

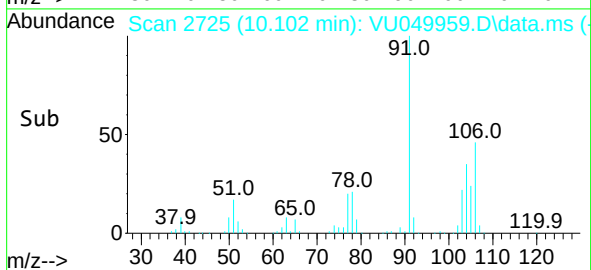
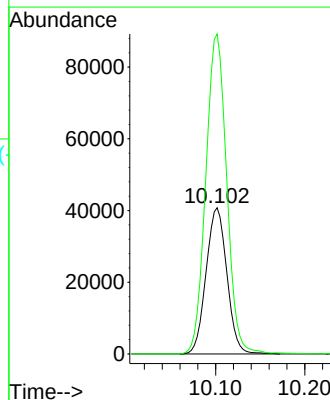
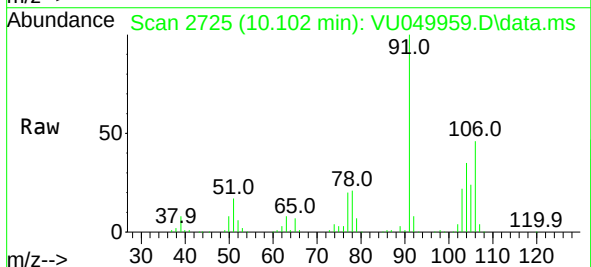
Manual Integrations
APPROVED

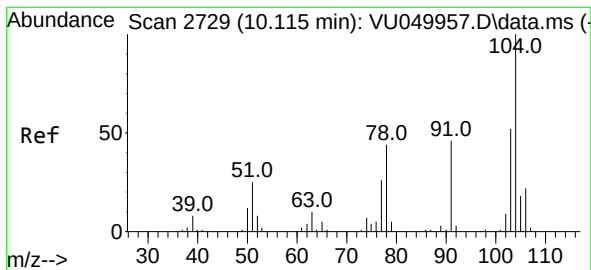
Reviewed By :John Carlone 07/28/2022
Supervised By :Mahesh Dadoda 07/28/2022



#54
o-Xylene
Concen: 6.312 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

Tgt Ion:106 Resp: 66173
Ion Ratio Lower Upper
106 100
91 218.7 148.7 276.1





#55

Styrene

Concen: 6.396 ug/L

RT: 10.115 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU049959.D

Acq: 27 Jul 2022 20:39

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

Tgt Ion:104 Resp: 114199

Ion Ratio Lower Upper

104 100

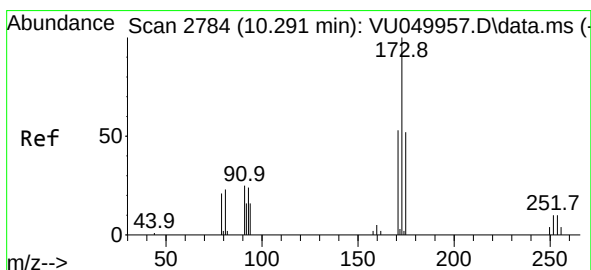
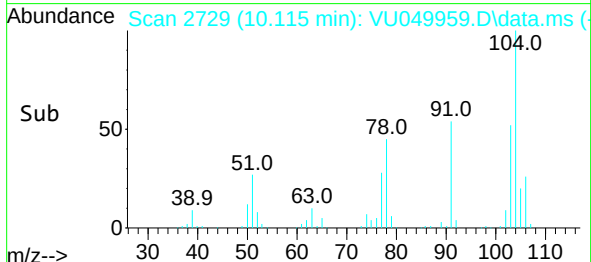
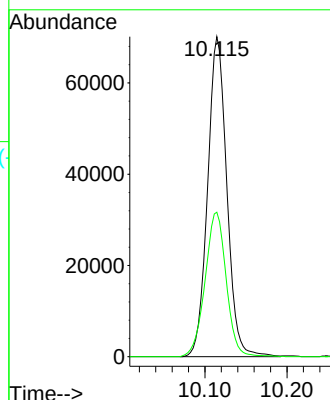
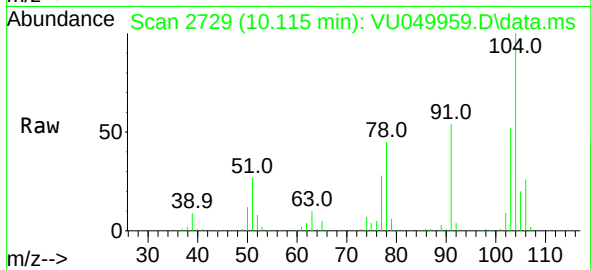
78 45.1 30.9 57.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2022

Supervised By :Mahesh Dadoda 07/28/2022



#59

Bromoform

Concen: 6.139 ug/L

RT: 10.291 min Scan# 2784

Delta R.T. -0.000 min

Lab File: VU049959.D

Acq: 27 Jul 2022 20:39

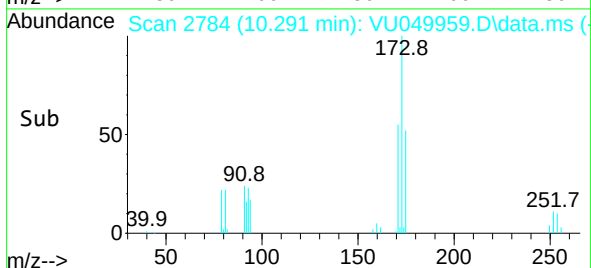
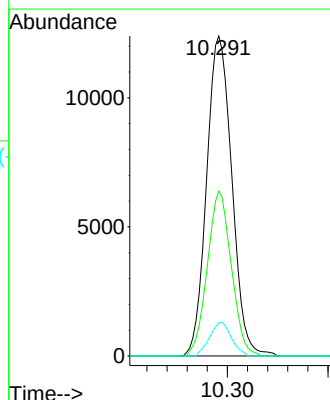
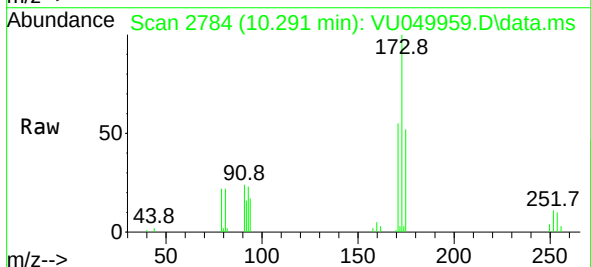
Tgt Ion:173 Resp: 21574

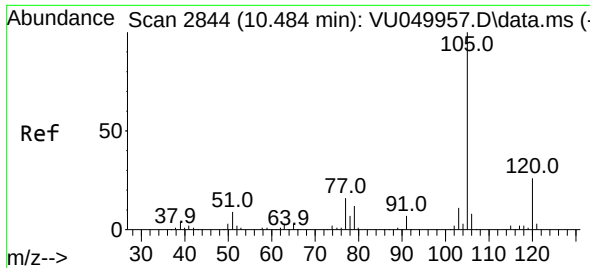
Ion Ratio Lower Upper

173 100

175 48.9 39.1 58.7

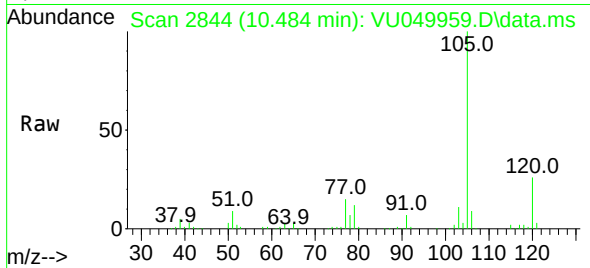
254 9.1 7.5 11.3





#60
Isopropylbenzene
Concen: 4.041 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.000 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39

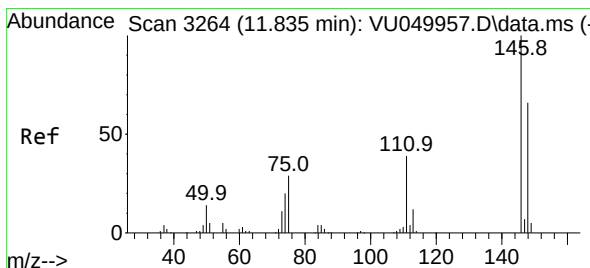
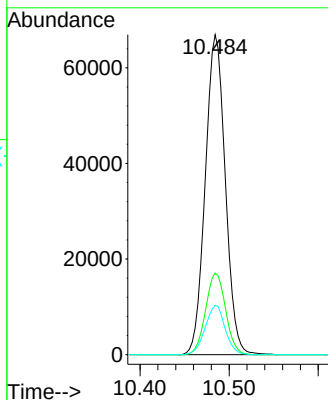
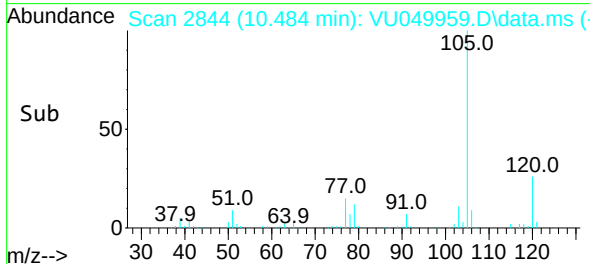
Instrument :
MSVOA_U
ClientSampleId :
GBJ33



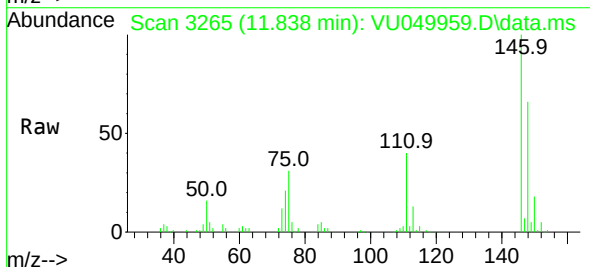
Tgt Ion:105 Resp: 10438
Ion Ratio Lower Upper
105 100
120 25.4 20.5 30.7
77 15.3 12.6 18.8

Manual Integrations
APPROVED

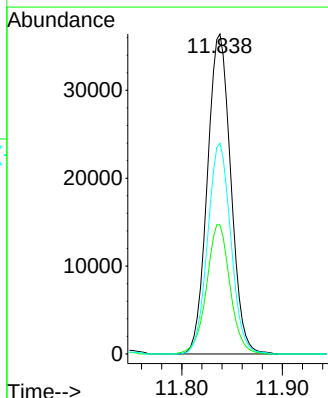
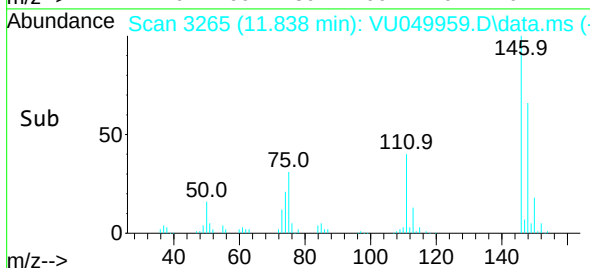
Reviewed By :John Carlone 07/28/2022
Supervised By :Mahesh Dadoda 07/28/2022

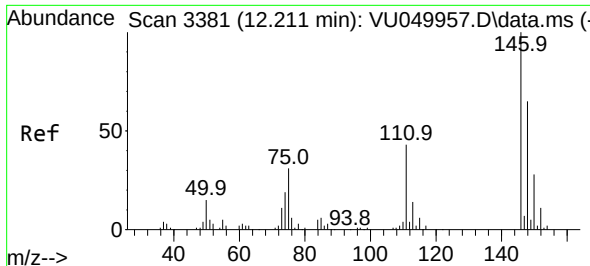


#65
1,4-Dichlorobenzene
Concen: 4.817 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. 0.003 min
Lab File: VU049959.D
Acq: 27 Jul 2022 20:39



Tgt Ion:146 Resp: 58941
Ion Ratio Lower Upper
146 100
111 40.3 26.4 49.0
148 65.9 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 14.081 ug/L

RT: 12.214 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU049959.D

Acq: 27 Jul 2022 20:39

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

Tgt Ion:146 Resp: 17301

Ion Ratio Lower Upper

146 100

111 42.2 33.4 50.2

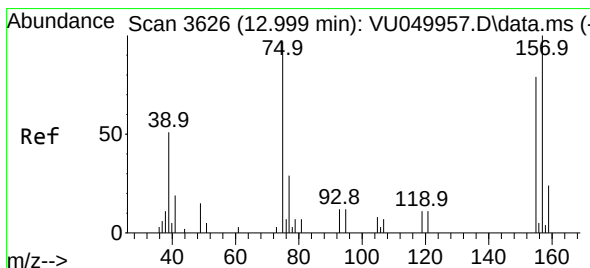
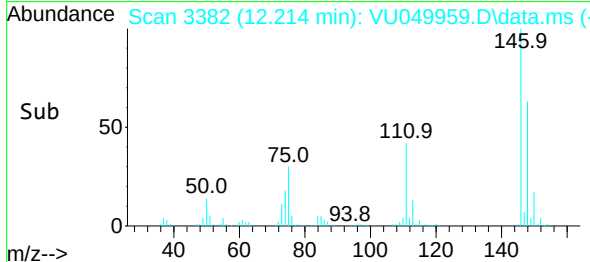
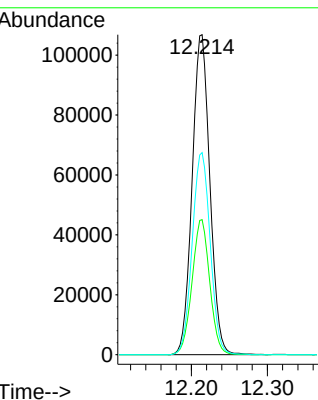
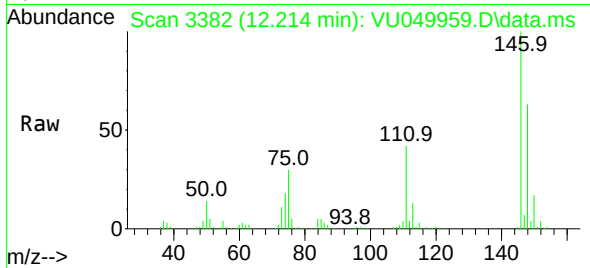
148 63.2 51.3 76.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2022

Supervised By :Mahesh Dadoda 07/28/2022



#68

1,2-Dibromo-3-chloropropane

Concen: 5.038 ug/L

RT: 12.999 min Scan# 3626

Delta R.T. -0.000 min

Lab File: VU049959.D

Acq: 27 Jul 2022 20:39

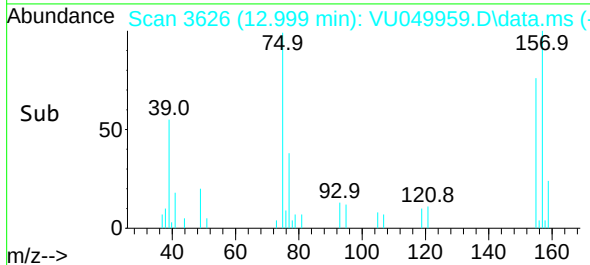
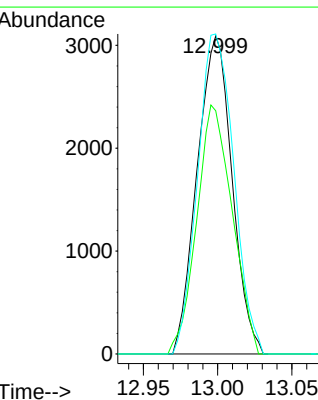
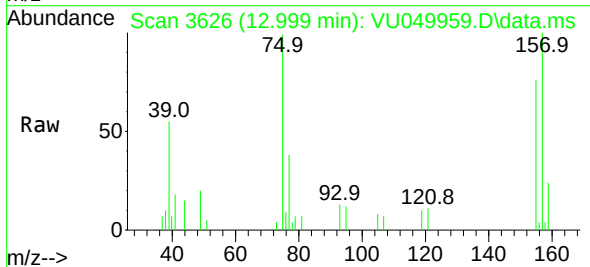
Tgt Ion: 75 Resp: 5053

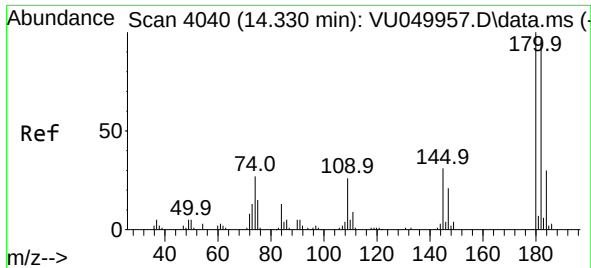
Ion Ratio Lower Upper

75 100

155 76.5 59.4 89.0

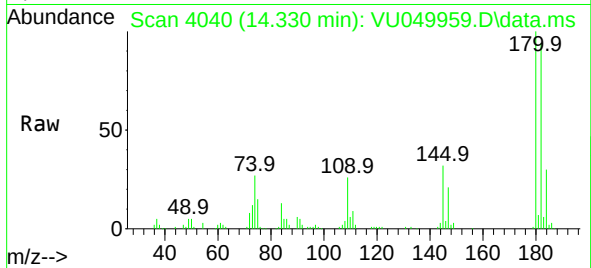
157 100.6 73.8 110.6





#72
 1,2,3-Trichlorobenzene
 Concen: 11.705 ug/L
 RT: 14.330 min Scan# 40
 Delta R.T. -0.000 min
 Lab File: VU049959.D
 Acq: 27 Jul 2022 20:39

Instrument :
 MSVOA_U
 ClientSampleId :
 GBJ33



Tgt Ion:180 Resp: 82630
 Ion Ratio Lower Upper
 180 100
 182 94.5 77.0 115.4
 145 32.1 26.3 39.5

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/28/2022
 Supervised By :Mahesh Dadoda 07/28/2022

