

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032224\
 Data File : VX040778.D
 Acq On : 22 Mar 2024 14:20
 Operator : JC/MD
 Sample : P1836-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 240308028-06

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/25/2024
 Supervised By : Semsettin Yesilyurt 03/25/2024

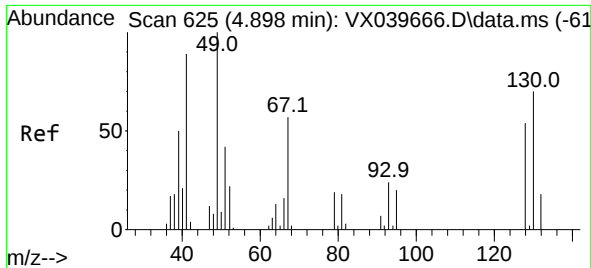
Quant Time: Mar 23 05:05:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	15895	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	88080	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	78520	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	44654	28.128	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.767%	
60) 4-Bromofluorobenzene	11.079	95	39747	29.511	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.367%	
63) Toluene-d8	8.647	98	107006	30.837	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.800%	
Target Compounds						
8) Diethyl Ether	2.136	74	1326	2.149	ug/l	90
26) Cyclohexane	5.483	56	6619m	4.074	ug/l	
38) Methylcyclohexane	7.379	83	3583	2.183	ug/l	77
64) Chlorobenzene	10.079	112	12928	4.891	ug/l	97
67) m/p-Xylenes	10.299	106	1153	0.626	ug/l #	66
70) Isopropylbenzene	10.963	105	6208	1.296	ug/l	95
74) n-propylbenzene	11.305	91	2626	0.444	ug/l	95
79) tert-butylbenzene	11.713	119	911	0.231	ug/l	81
80) 1,2,4-Trimethylbenzene	11.750	105	1941	0.467	ug/l	93
81) sec-Butylbenzene	11.890	105	2358	0.454	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	1192	0.528	ug/l	95
85) n-Butylbenzene	12.329	91	1530m	0.370	ug/l	
87) 1,2-Dichlorobenzene	12.335	146	1496	0.698	ug/l	92

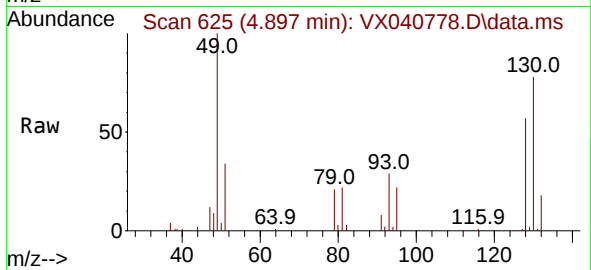
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Reviewed By :John Carlone 03/25/2024
Supervised By :Semsettin Yesilyurt 03/25/2024



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.001 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

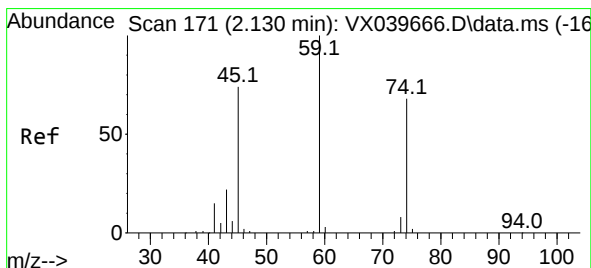
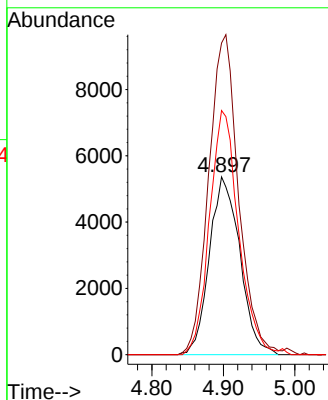
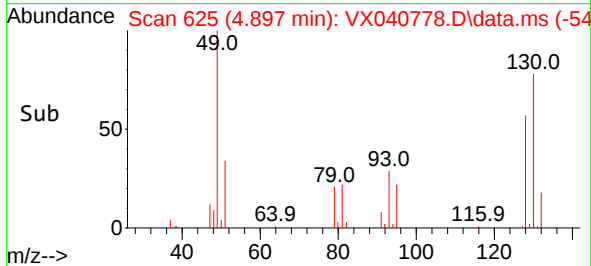
Instrument :
MSVOA_X
ClientSampleId :
240308028-06



Tgt Ion:128 Resp: 1589
Ion Ratio Lower Upper
128 100
49 176.2 0.0 444.0
130 130.8 0.0 297.8

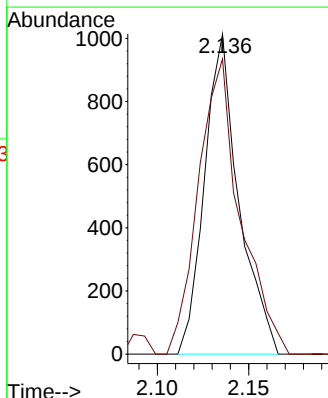
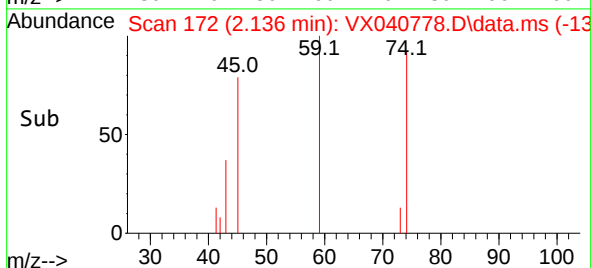
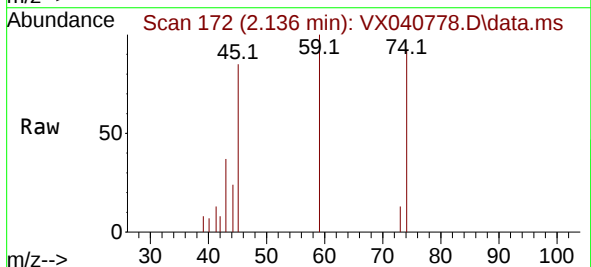
Manual Integrations
APPROVED

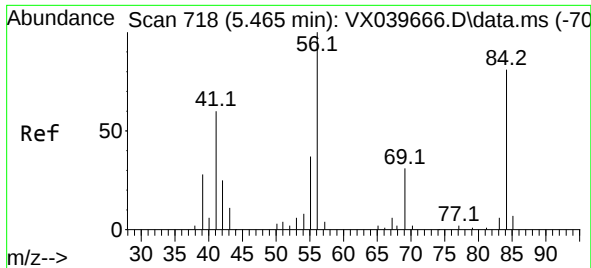
Reviewed By :John Carlone 03/25/2024
Supervised By :Semsettin Yesilyurt 03/25/2024



#8
Diethyl Ether
Concen: 2.149 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

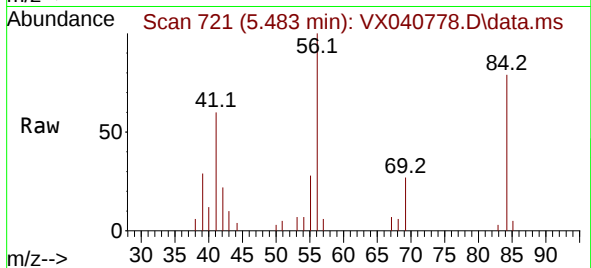
Tgt Ion: 74 Resp: 1326
Ion Ratio Lower Upper
74 100
45 112.6 20.5 184.5





#26
Cyclohexane
Concen: 4.074 ug/l m
RT: 5.483 min Scan# 718
Delta R.T. 0.018 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

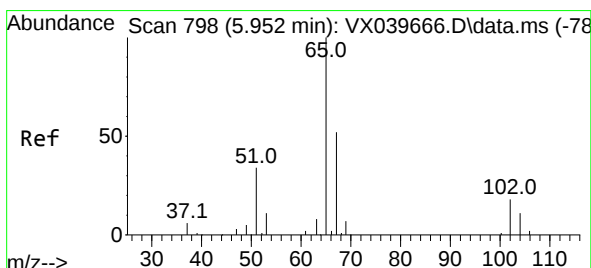
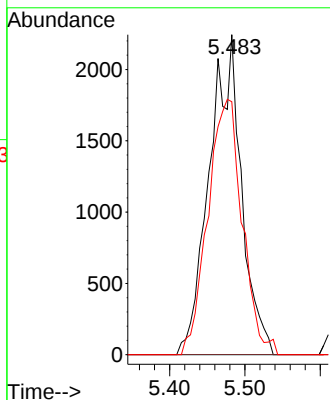
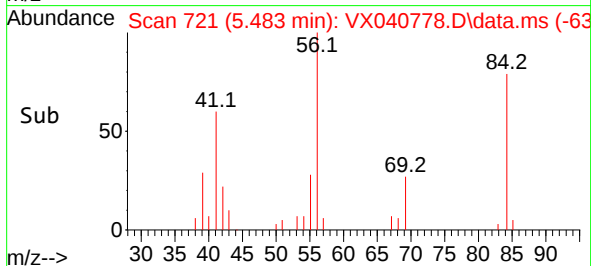
Instrument :
MSVOA_X
ClientSampleId :
240308028-06



Tgt Ion: 56 Resp: 6619
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 0.0 67.2 100.8

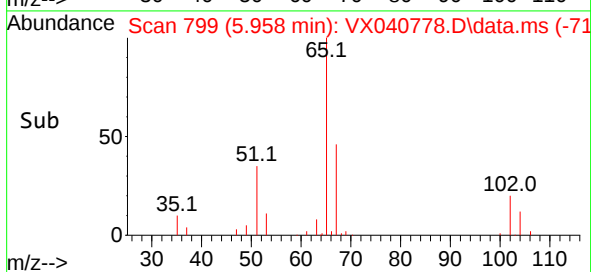
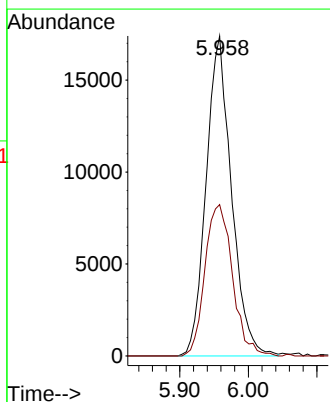
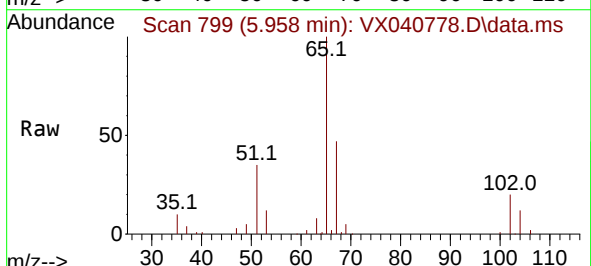
Manual Integrations
APPROVED

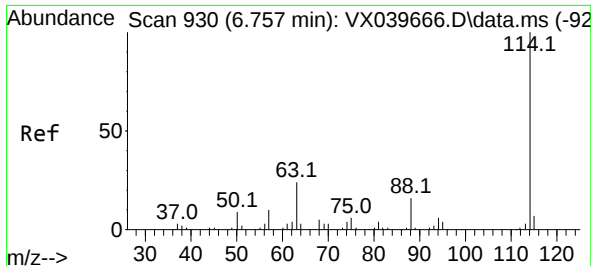
Reviewed By :John Carlone 03/25/2024
Supervised By :Semsettin Yesilyurt 03/25/2024



#27
1,2-Dichloroethane-d4
Concen: 28.128 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

Tgt Ion: 65 Resp: 44654
Ion Ratio Lower Upper
65 100
67 50.2 42.5 63.7





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.006 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

Instrument :

MSVOA_X

ClientSampleId :

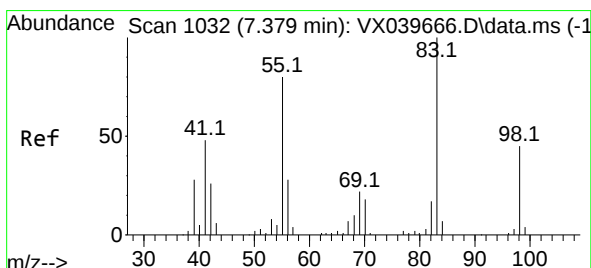
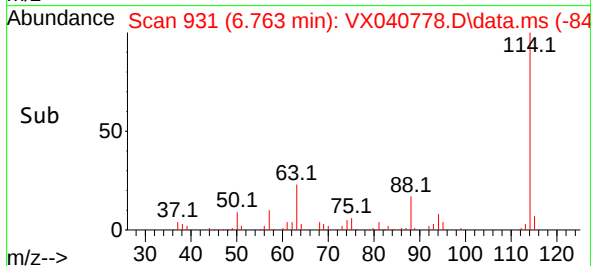
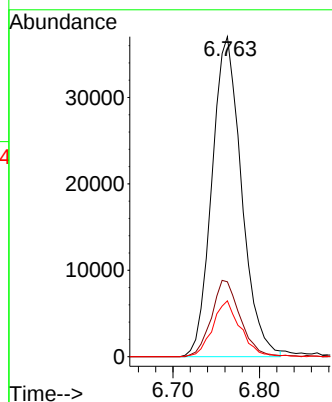
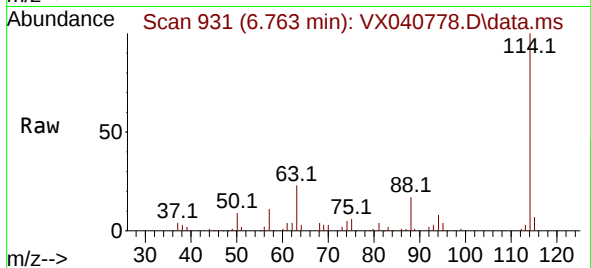
240308028-06

Tgt Ion:114 Resp: 88080
Ion Ratio Lower Upper
114 100
63 23.2 17.0 25.4
88 16.4 12.7 19.1

Manual Integrations

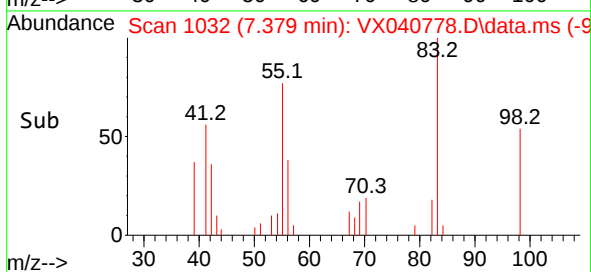
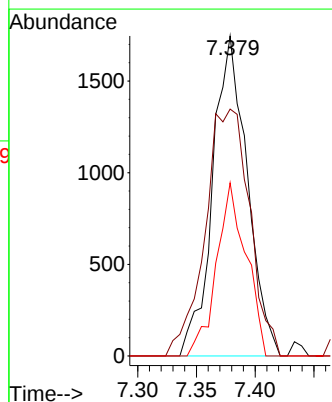
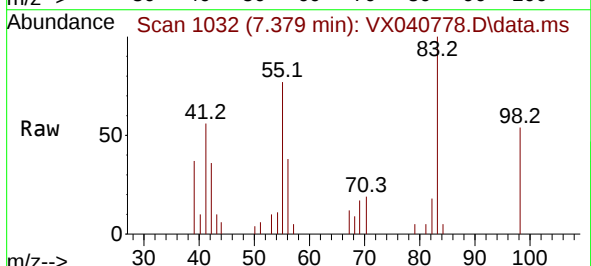
APPROVED

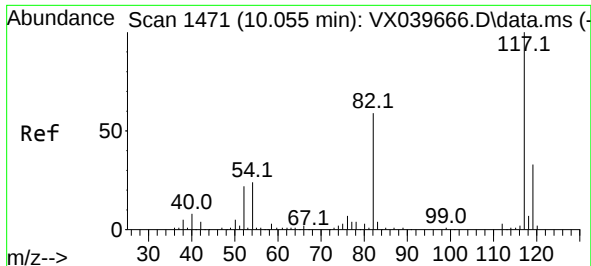
Reviewed By :John Carlone 03/25/2024
Supervised By :Semsettin Yesilyurt 03/25/2024



#38
Methylcyclohexane
Concen: 2.183 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. -0.000 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

Tgt Ion: 83 Resp: 3583
Ion Ratio Lower Upper
83 100
55 47.5 38.6 116.0
98 46.2 22.3 66.8





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX040778.D

Acq: 22 Mar 2024 14:20

Instrument :

MSVOA_X

ClientSampleId :

240308028-06

Tgt Ion:117 Resp: 78520

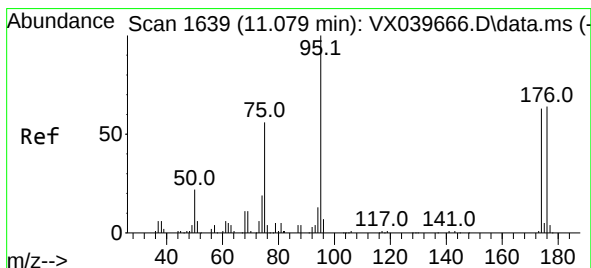
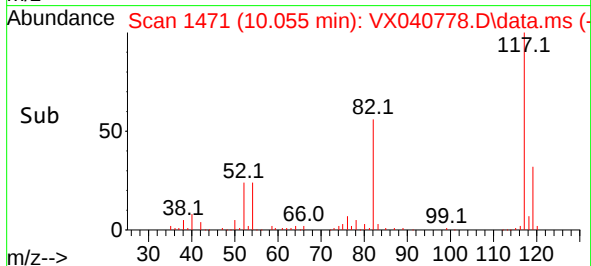
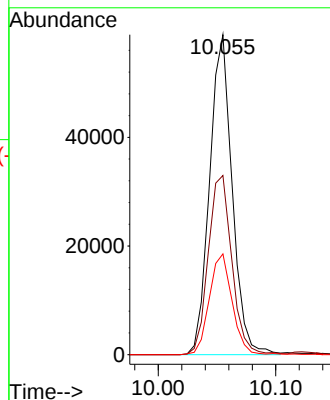
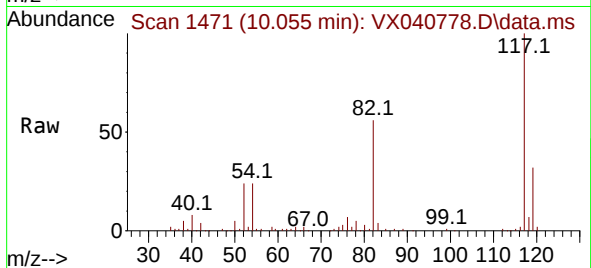
Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.0	70.6
119	31.6	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/25/2024

Supervised By :Semsettin Yesilyurt 03/25/2024



#60

4-Bromofluorobenzene

Concen: 29.511 ug/l

RT: 11.079 min Scan# 1639

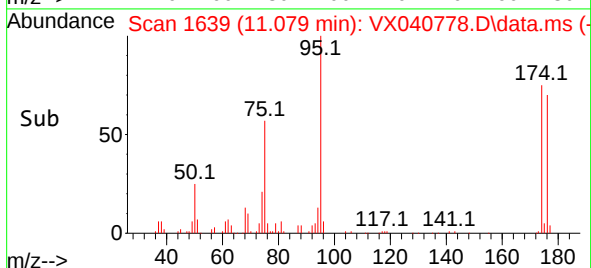
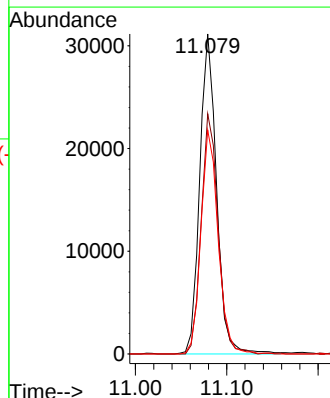
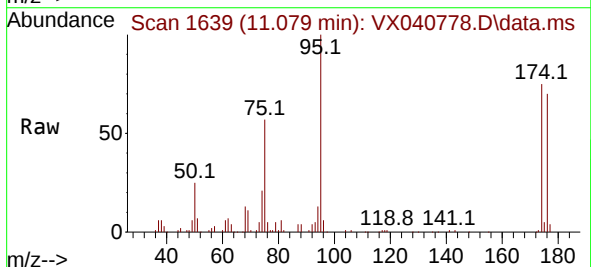
Delta R.T. 0.000 min

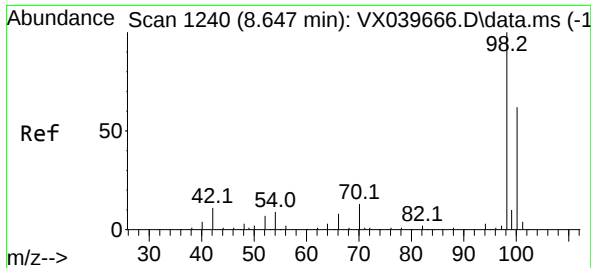
Lab File: VX040778.D

Acq: 22 Mar 2024 14:20

Tgt Ion: 95 Resp: 39747

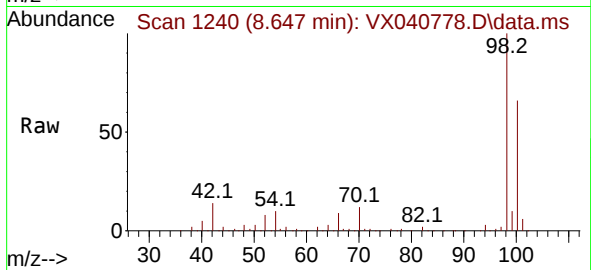
Ion	Ratio	Lower	Upper
95	100		
174	74.9	55.4	83.2
176	71.7	52.6	78.8





#63
Toluene-d8
Concen: 30.837 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

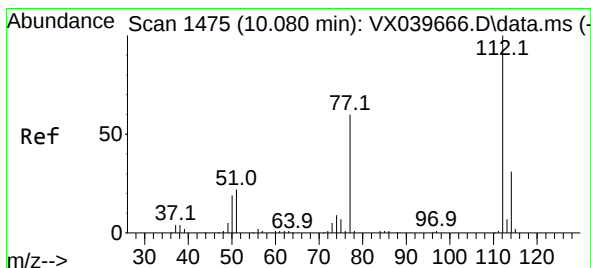
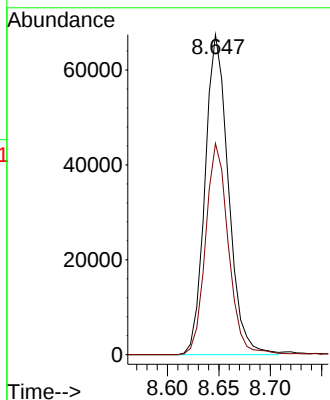
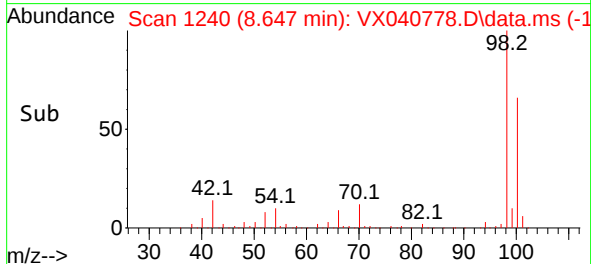
Instrument :
MSVOA_X
ClientSampleId :
240308028-06



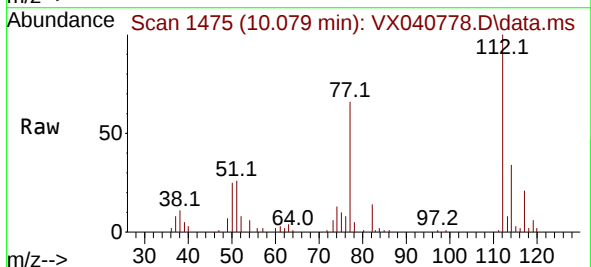
Tgt Ion: 98 Resp: 107000
Ion Ratio Lower Upper
98 100
100 64.3 51.0 76.4

Manual Integrations
APPROVED

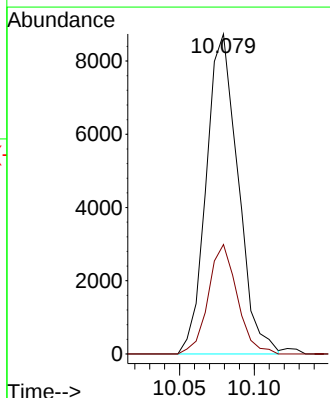
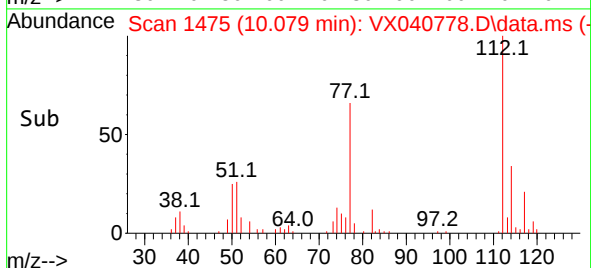
Reviewed By :John Carlone 03/25/2024
Supervised By :Semsettin Yesilyurt 03/25/2024

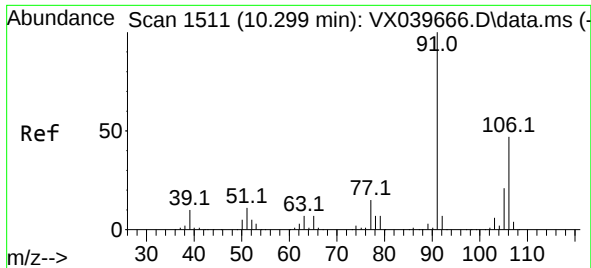


#64
Chlorobenzene
Concen: 4.891 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.001 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20



Tgt Ion:112 Resp: 12928
Ion Ratio Lower Upper
112 100
114 34.2 25.9 38.9





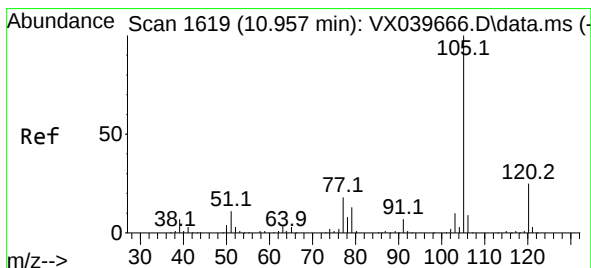
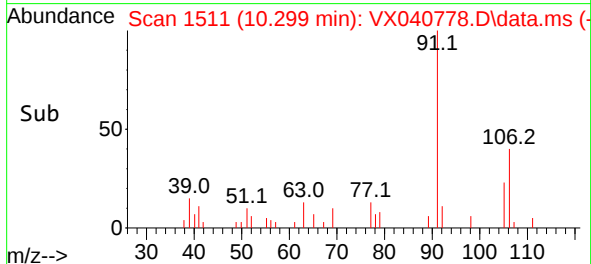
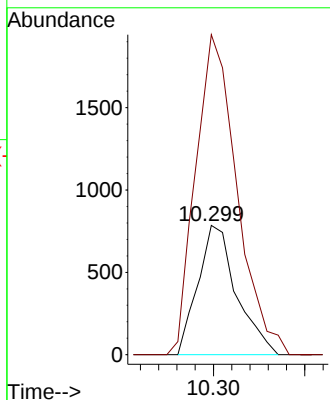
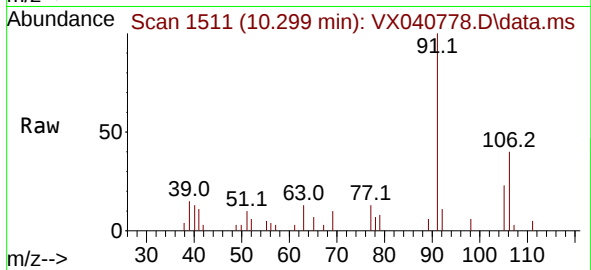
#67
m/p-Xylenes
Concen: 0.626 ug/l
RT: 10.299 min Scan# 1151
Delta R.T. -0.000 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

Instrument :
MSVOA_X
ClientSampleId :
240308028-06

Tgt Ion:106 Resp: 1151
Ion Ratio Lower Upper
106 100
91 265.6 169.4 254.0

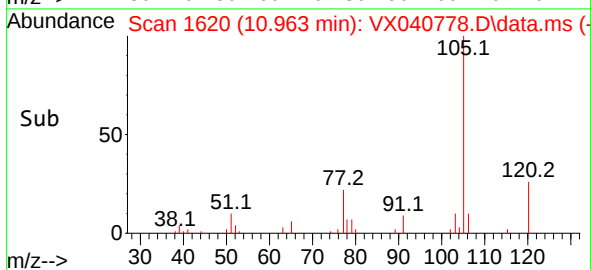
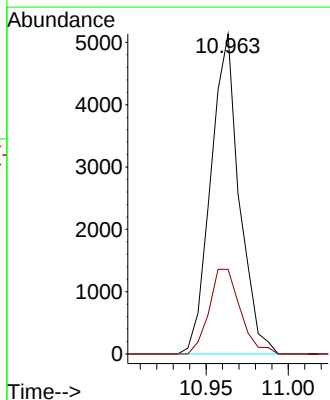
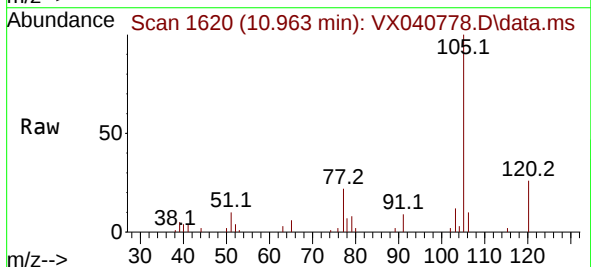
Manual Integrations
APPROVED

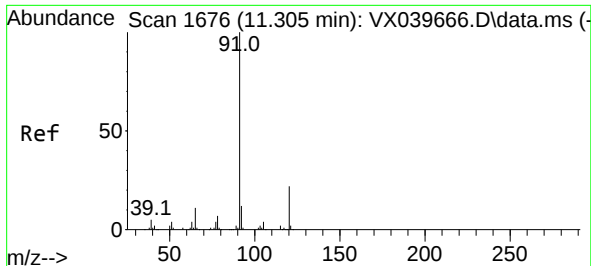
Reviewed By :John Carlone 03/25/2024
Supervised By :Semsettin Yesilyurt 03/25/2024



#70
Isopropylbenzene
Concen: 1.296 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

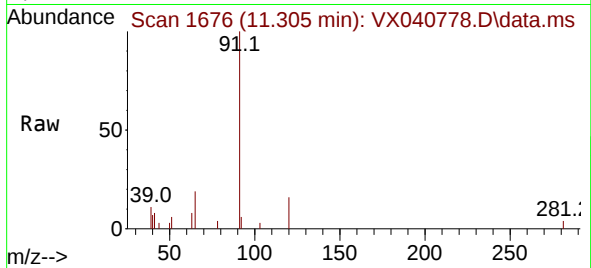
Tgt Ion:105 Resp: 6208
Ion Ratio Lower Upper
105 100
120 28.9 18.5 34.3





#74
n-propylbenzene
Concen: 0.444 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

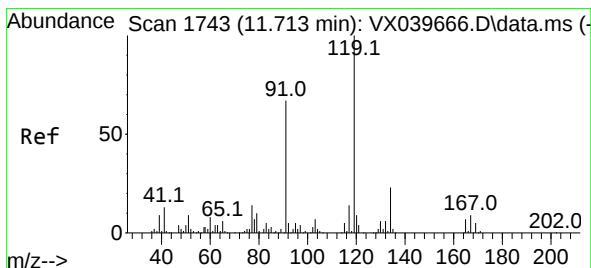
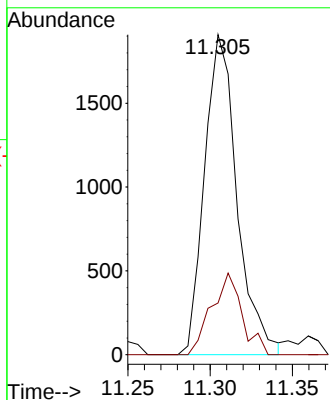
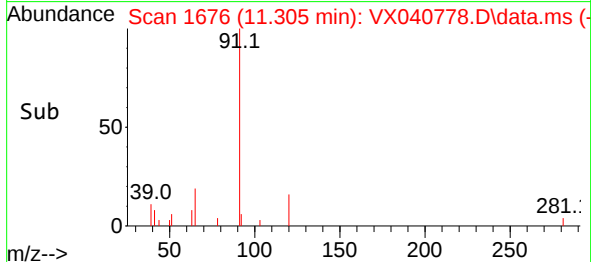
Instrument :
MSVOA_X
ClientSampleId :
240308028-06



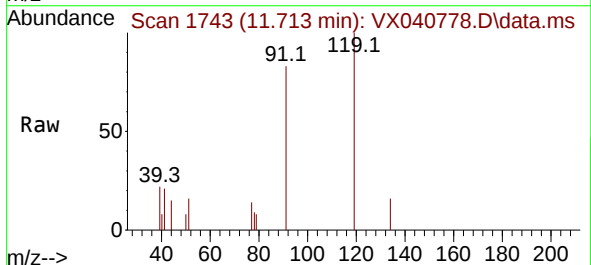
Tgt Ion: 91 Resp: 2620
Ion Ratio Lower Upper
91 100
120 23.9 0.0 43.4

Manual Integrations
APPROVED

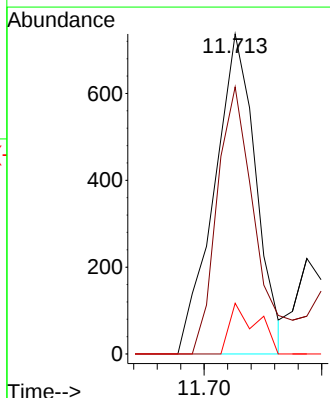
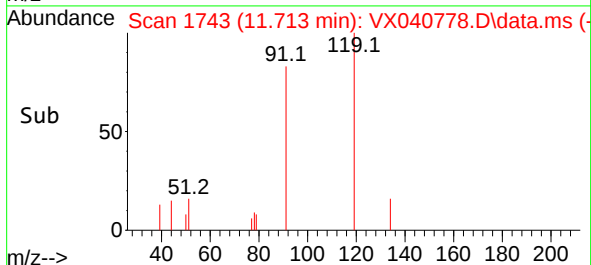
Reviewed By :John Carlone 03/25/2024
Supervised By :Semsettin Yesilyurt 03/25/2024

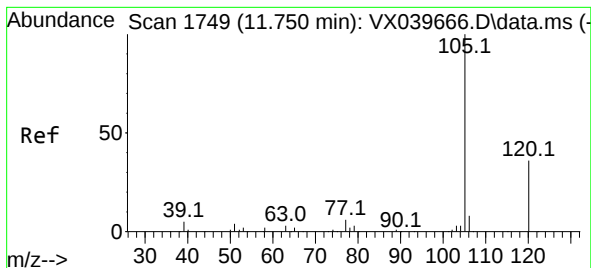


#79
tert-butylbenzene
Concen: 0.231 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20



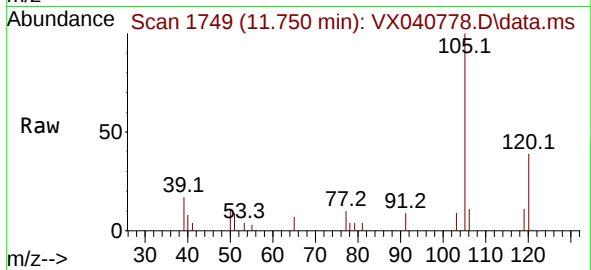
Tgt Ion:119 Resp: 911
Ion Ratio Lower Upper
119 100
91 76.5 0.0 125.6
134 10.5 0.0 43.8





#80
1,2,4-Trimethylbenzene
Concen: 0.467 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

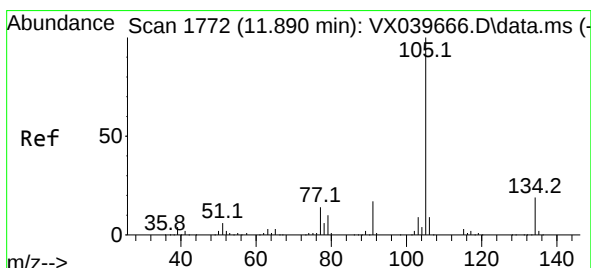
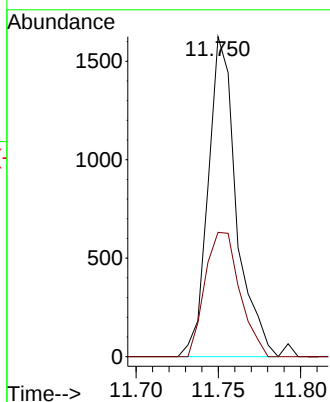
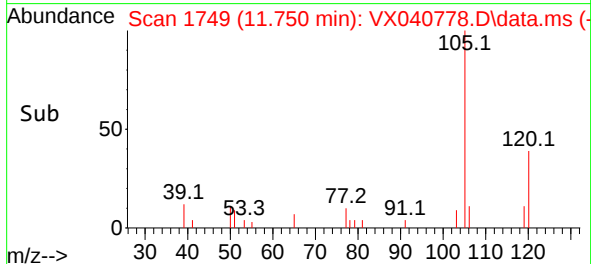
Instrument :
MSVOA_X
ClientSampleId :
240308028-06



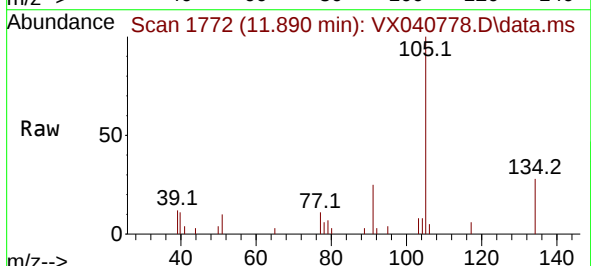
Tgt Ion:105 Resp: 194
Ion Ratio Lower Upper
105 100
120 47.8 0.0 86.4

Manual Integrations
APPROVED

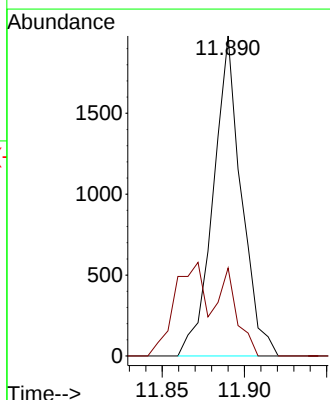
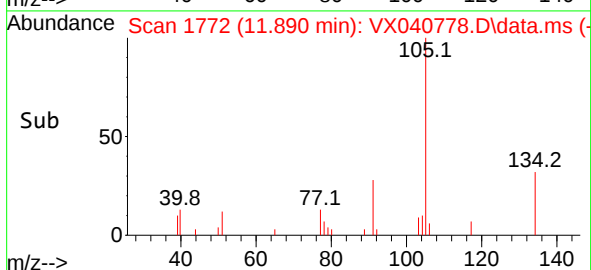
Reviewed By :John Carlone 03/25/2024
Supervised By :Semsettin Yesilyurt 03/25/2024

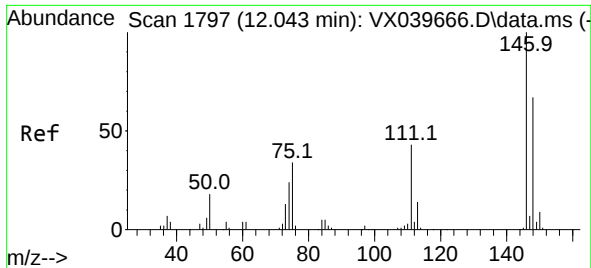


#81
sec-Butylbenzene
Concen: 0.454 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20



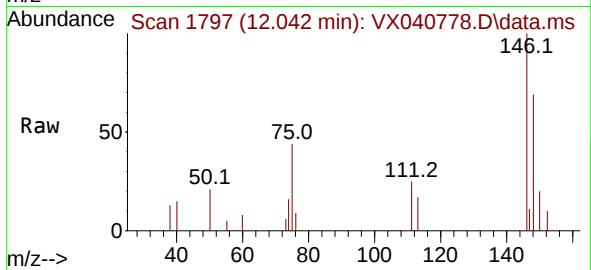
Tgt Ion:105 Resp: 2358
Ion Ratio Lower Upper
105 100
134 18.7 0.0 38.4





#84
1,4-Dichlorobenzene
Concen: 0.528 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.001 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20

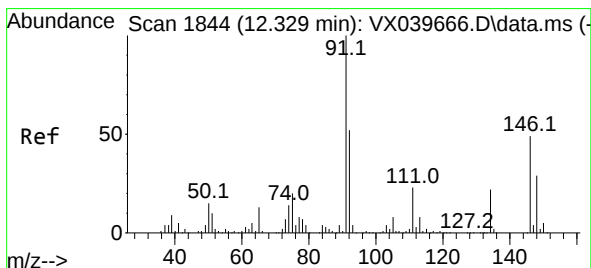
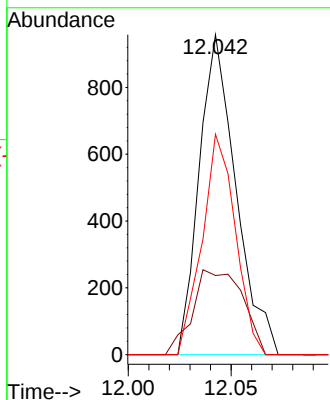
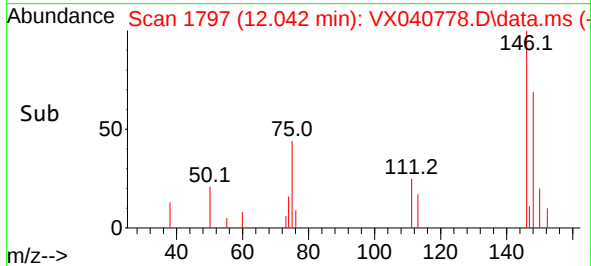
Instrument :
MSVOA_X
ClientSampleId :
240308028-06



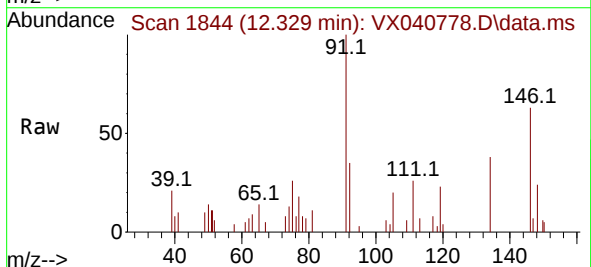
Tgt Ion:146 Resp: 1192
Ion Ratio Lower Upper
146 100
111 35.9 21.4 64.2
148 62.6 31.8 95.4

Manual Integrations
APPROVED

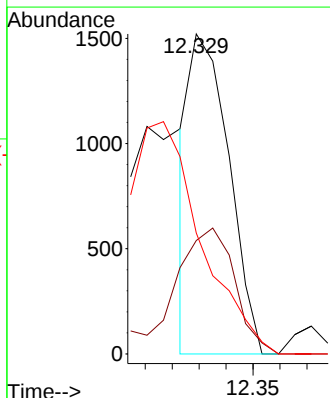
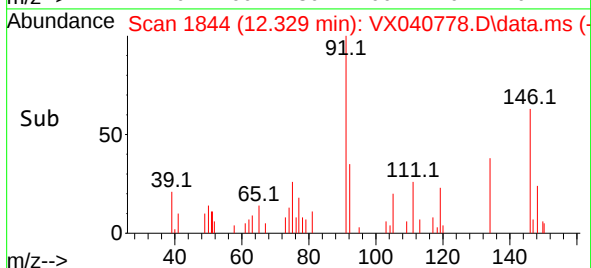
Reviewed By :John Carlone 03/25/2024
Supervised By :Semsettin Yesilyurt 03/25/2024

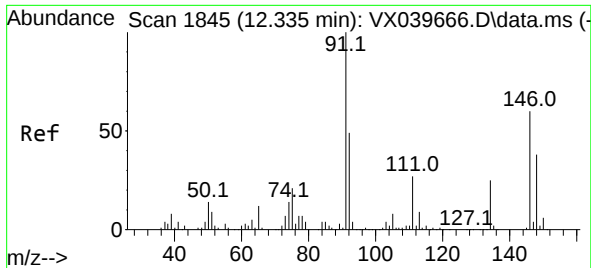


#85
n-Butylbenzene
Concen: 0.370 ug/l m
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX040778.D
Acq: 22 Mar 2024 14:20



Tgt Ion: 91 Resp: 1530
Ion Ratio Lower Upper
91 100
92 41.8 0.0 106.2
134 174.5 0.0 48.8#





#87

1,2-Dichlorobenzene

Concen: 0.698 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX040778.D

Acq: 22 Mar 2024 14:20

Instrument :

MSVOA_X

ClientSampleId :

240308028-06

Tgt Ion:146	Resp:	1490
Ion	Ratio	Lower Upper
146	100	
111	40.8	22.4 67.2
148	56.0	31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/25/2024

Supervised By :Semsettin Yesilyurt 03/25/2024

