

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090623\
 Data File : VX037550.D
 Acq On : 06 Sep 2023 13:21
 Operator : JC/MD
 Sample : 04220-03 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW7

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/07/2023
 Supervised By : Mahesh Dadoda 09/07/2023

Quant Time: Sep 06 22:45:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 18 09:30:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	131448	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	216527	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	195511	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88588	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	75063	39.610	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	79.220%		
35) Dibromofluoromethane	5.385	113	65117	45.409	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.820%		
50) Toluene-d8	8.647	98	253886	48.808	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	97.620%		
62) 4-Bromofluorobenzene	11.079	95	93260	45.622	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.240%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.971	59	132873	298.902	ug/l #	93
16) Acetone	2.386	43	2220	2.994	ug/l #	75
19) Methyl tert-butyl Ether	3.117	73	926705	180.578	ug/l	98
20) Methylene Chloride	2.782	84	667	0.402	ug/l #	68
22) Diisopropyl ether	3.770	45	4924	1.146	ug/l #	65
29) Tetrahydrofuran	5.013	42	21953	30.838	ug/l #	81
39) Methylcyclohexane	7.379	83	755	0.353	ug/l #	81
40) Benzene	6.038	78	34390	5.886	ug/l	98
49) 1,4-Dioxane	7.677	88	693	15.969	ug/l #	78
52) Toluene	8.720	92	912	0.236	ug/l	97
65) Chlorobenzene	10.079	112	24702	5.978	ug/l	97
67) Ethyl Benzene	10.195	91	18466	2.540	ug/l	98
68) m/p-Xylenes	10.305	106	3987	1.420	ug/l	98
69) o-Xylene	10.646	106	1120	0.404	ug/l	88
73) Isopropylbenzene	10.963	105	17804	2.765	ug/l	96
78) n-propylbenzene	11.305	91	16917	2.359	ug/l	99
84) 1,2,4-Trimethylbenzene	11.756	105	2961	0.545	ug/l	100
87) 1,3-Dichlorobenzene	11.975	146	1209	0.411	ug/l	96
88) 1,4-Dichlorobenzene	12.043	146	2707m	0.890	ug/l	
89) n-Butylbenzene	12.335	91	1834	0.429	ug/l #	78
91) 1,2-Dichlorobenzene	12.335	146	2275	0.789	ug/l	94
95) Naphthalene	13.774	128	47020	6.363	ug/l	99

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

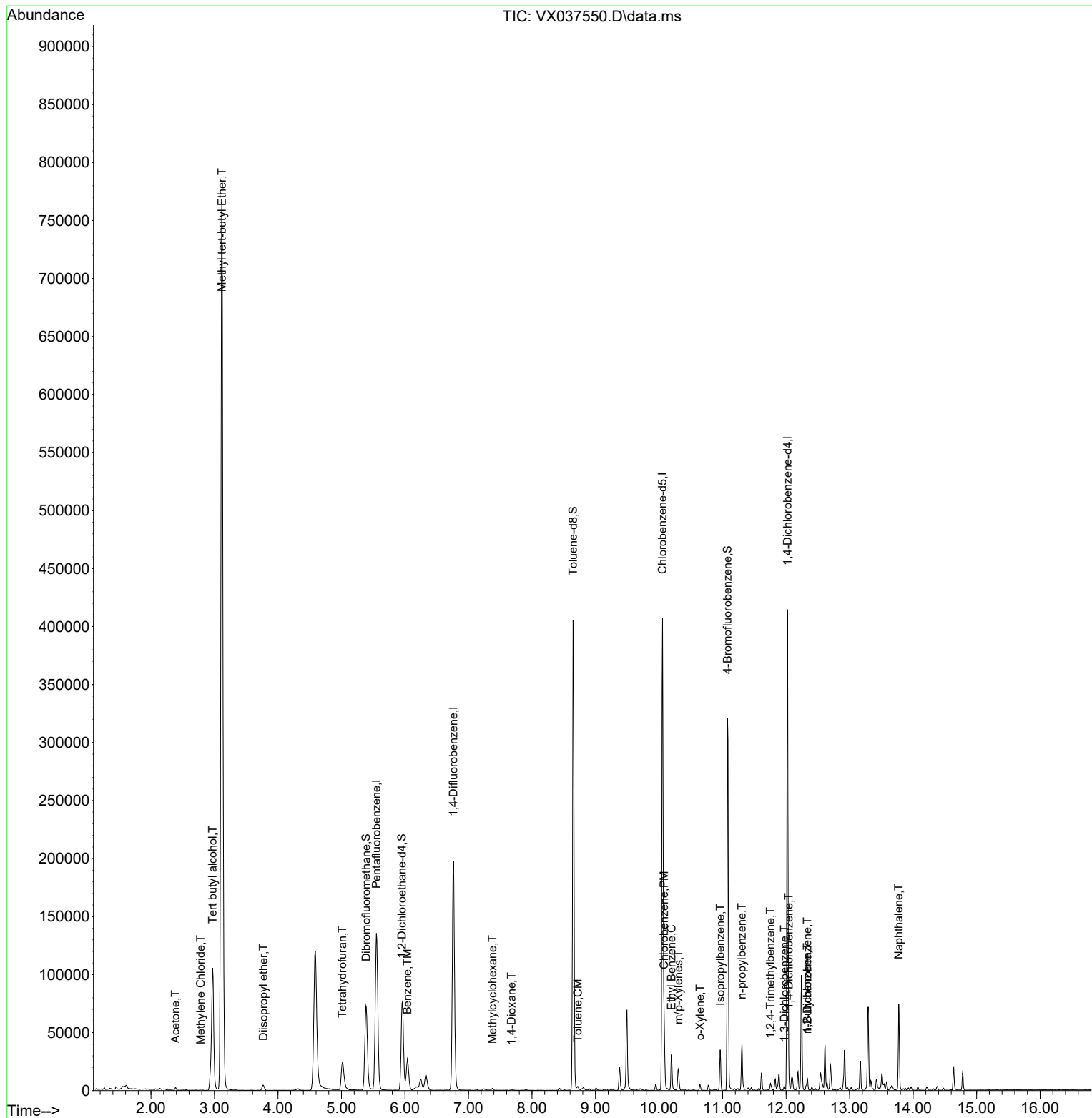
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090623\
Data File : VX037550.D
Acq On : 06 Sep 2023 13:21
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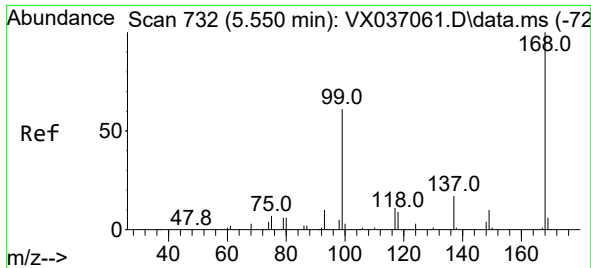
Instrument :
MSVOA_X
ClientSampleId :
MW7

Quant Time: Sep 06 22:45:35 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 18 09:30:38 2023
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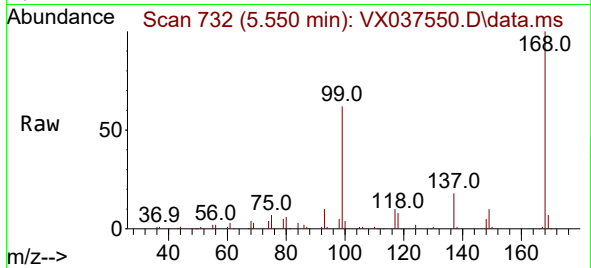
Reviewed By : John Carlone 09/07/2023
Supervised By : Mahesh Dadoda 09/07/2023





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

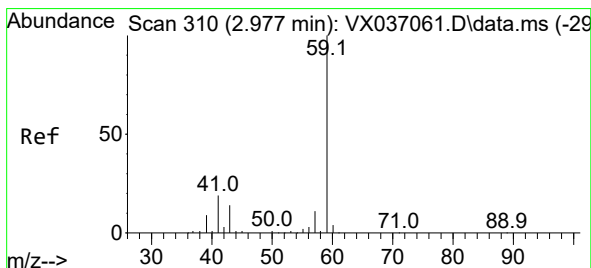
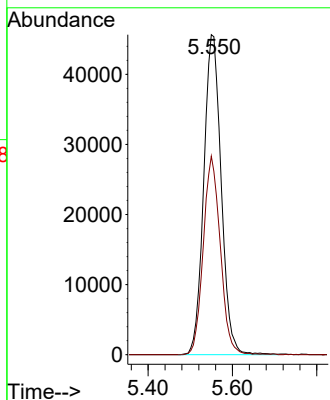
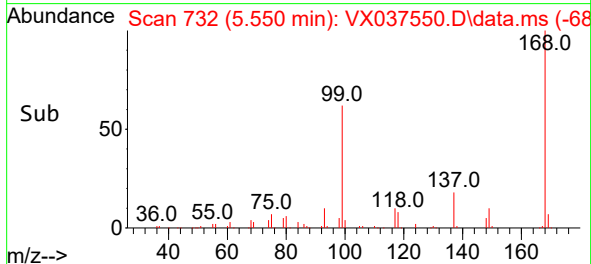
Instrument :
MSVOA_X
ClientSampleId :
MW7



Tgt Ion:168 Resp: 131448
Ion Ratio Lower Upper
168 100
99 62.0 56.6 85.0

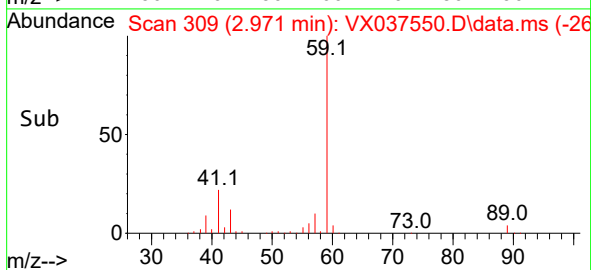
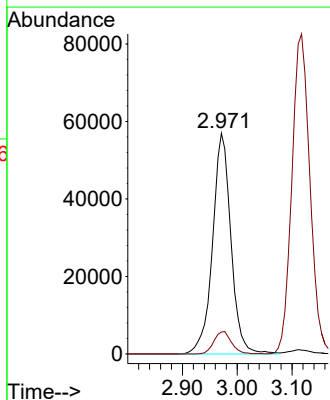
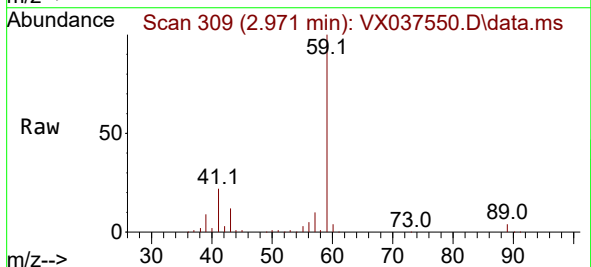
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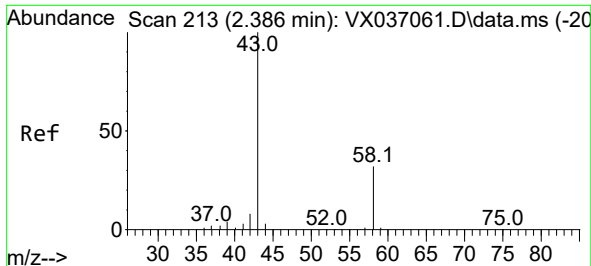
Reviewed By :John Carlone 09/07/2023
Supervised By :Mahesh Dadoda 09/07/2023



#11
Tert butyl alcohol
Concen: 298.902 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.006 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

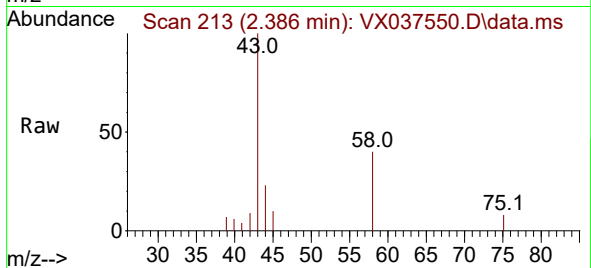
Tgt Ion: 59 Resp: 132873
Ion Ratio Lower Upper
59 100
57 9.8 6.0 9.0#





#16
Acetone
Concen: 2.994 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

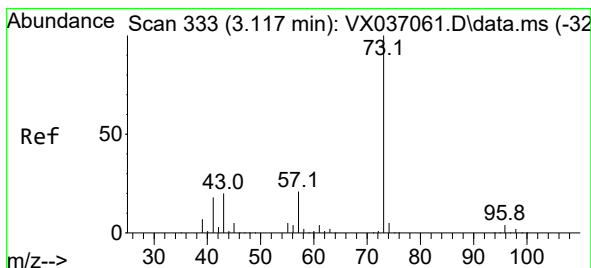
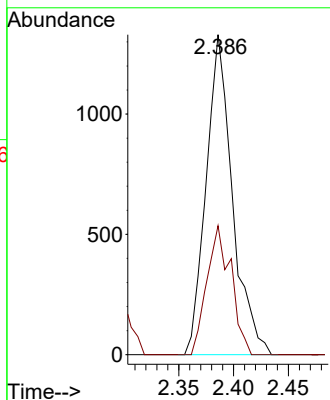
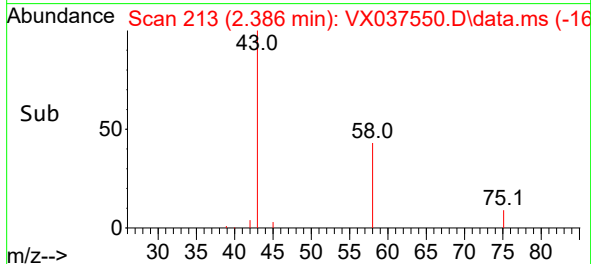
Instrument :
MSVOA_X
ClientSampleId :
MW7



Tgt Ion: 43 Resp: 2220
Ion Ratio Lower Upper
43 100
58 40.3 21.9 32.9

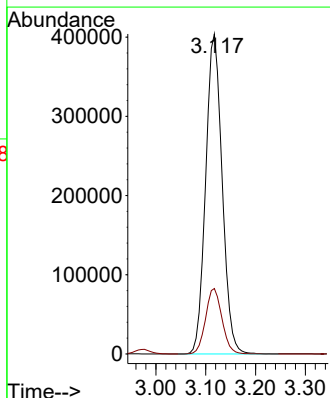
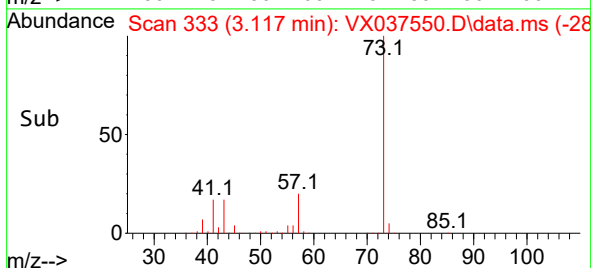
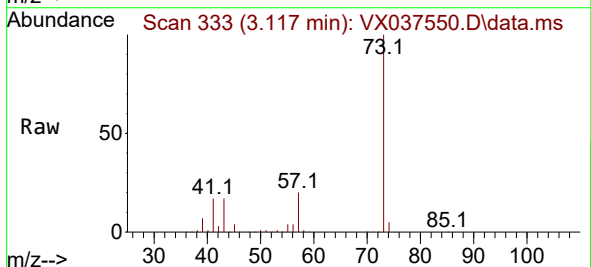
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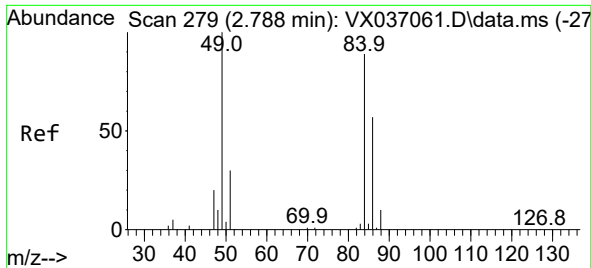
Reviewed By :John Carlone 09/07/2023
Supervised By :Mahesh Dadoda 09/07/2023



#19
Methyl tert-butyl Ether
Concen: 180.578 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

Tgt Ion: 73 Resp: 926705
Ion Ratio Lower Upper
73 100
57 20.4 17.3 25.9





#20

Methylene Chloride

Concen: 0.402 ug/l

RT: 2.782 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX037550.D

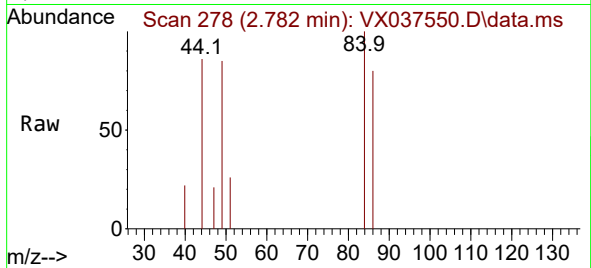
Acq: 06 Sep 2023 13:21

Instrument :

MSVOA_X

ClientSampleId :

MW7



Tgt Ion: 84 Resp: 66

Ion Ratio Lower Upper

84 100

49 85.0 103.6 155.4

51 26.3 33.8 50.6

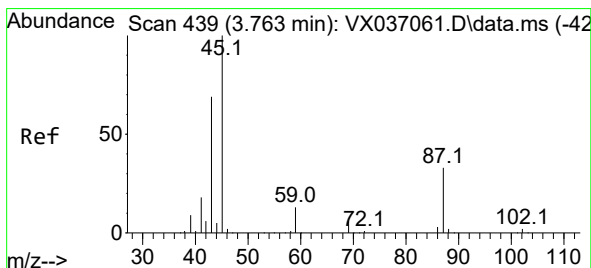
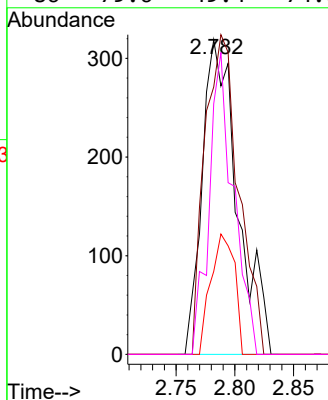
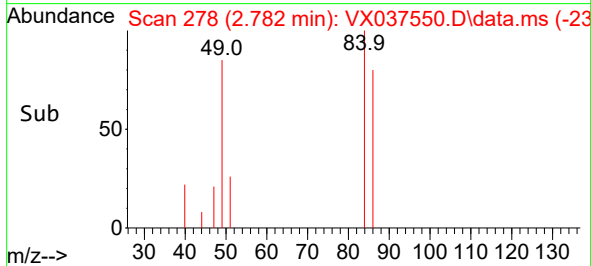
86 79.6 49.4 74.0

Manual Integrations

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Reviewed By :John Carlone 09/07/2023

Supervised By :Mahesh Dadoda 09/07/2023



#22

Diisopropyl ether

Concen: 1.146 ug/l

RT: 3.770 min Scan# 440

Delta R.T. 0.006 min

Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

Tgt Ion: 45 Resp: 4924

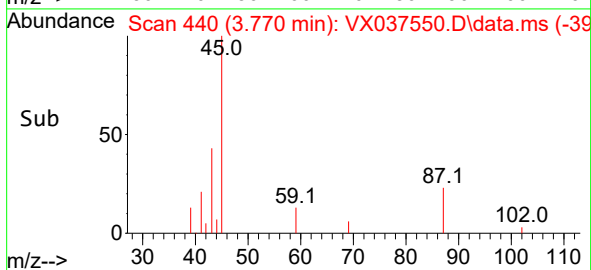
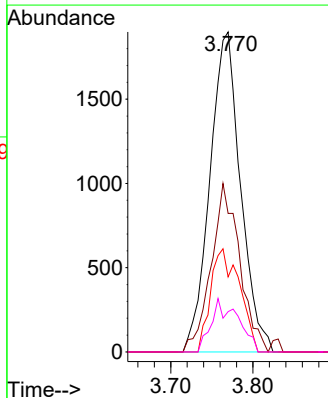
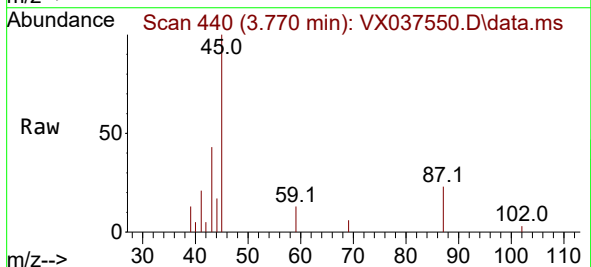
Ion Ratio Lower Upper

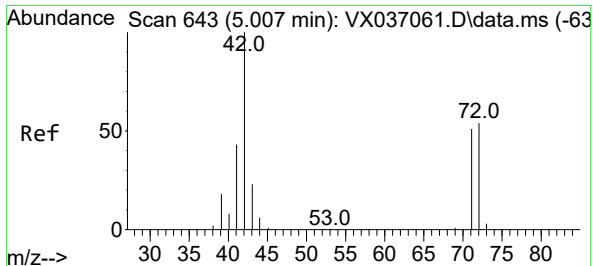
45 100

43 43.3 69.7 104.5

87 23.4 20.8 31.2

59 12.6 9.0 13.4





#29

Tetrahydrofuran

Concen: 30.838 ug/l

RT: 5.013 min Scan# 643

Delta R.T. 0.006 min

Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

Instrument :

MSVOA_X

ClientSampleId :

MW7

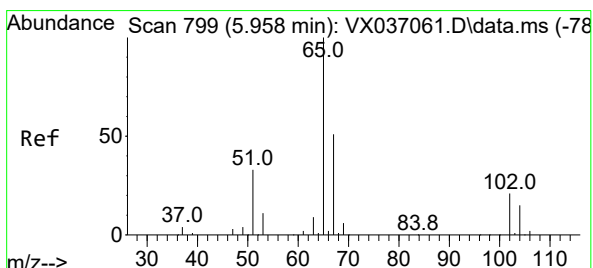
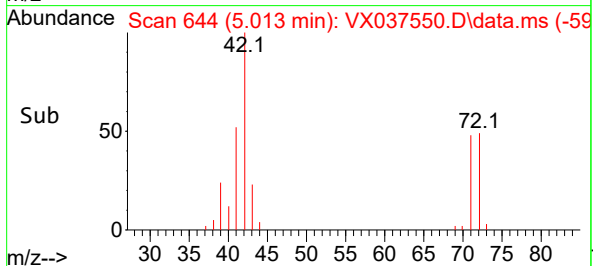
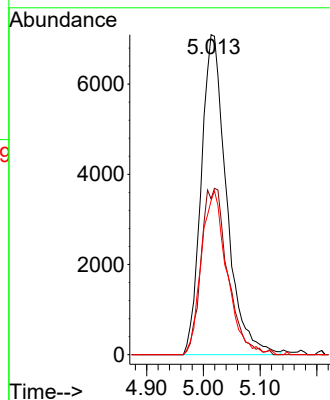
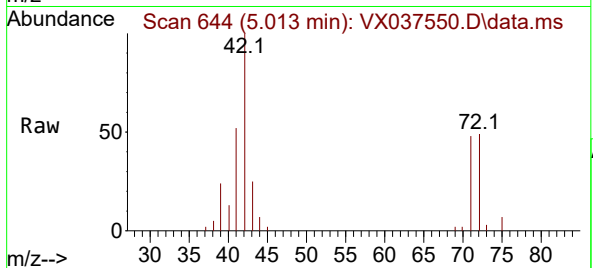
Tgt Ion:	42	Resp:	2195
Ion Ratio	Lower	Upper	
42	100		
72	54.9	34.2	51.4
71	52.2	32.2	48.2

Manual Integrations

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Reviewed By :John Carlone 09/07/2023

Supervised By :Mahesh Dadoda 09/07/2023



#33

1,2-Dichloroethane-d4

Concen: 39.610 ug/l

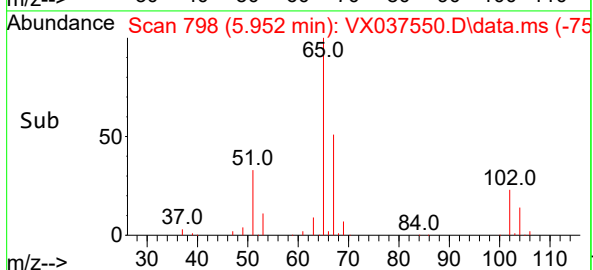
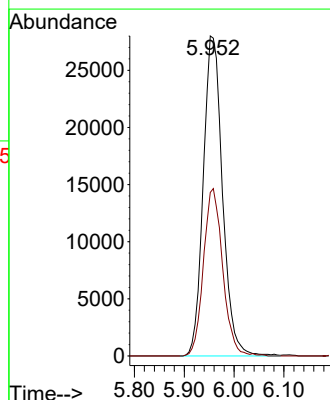
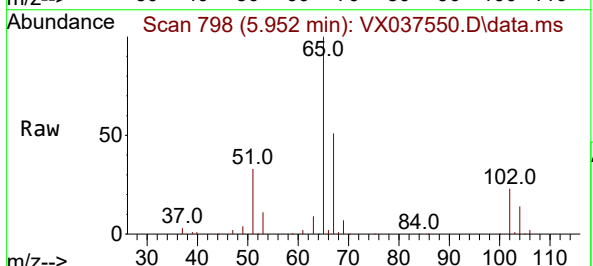
RT: 5.952 min Scan# 798

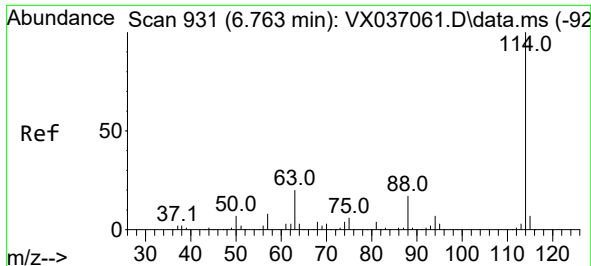
Delta R.T. -0.006 min

Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

Tgt Ion:	65	Resp:	75063
Ion Ratio	Lower	Upper	
65	100		
67	52.4	0.0	100.2





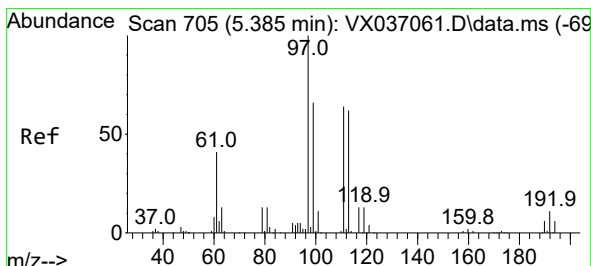
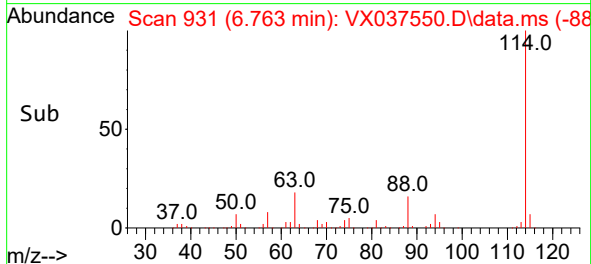
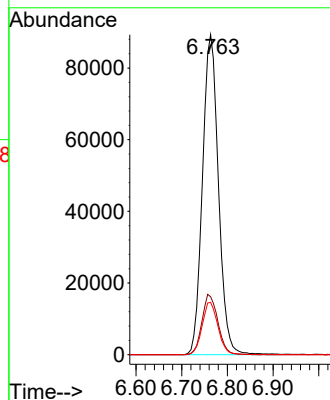
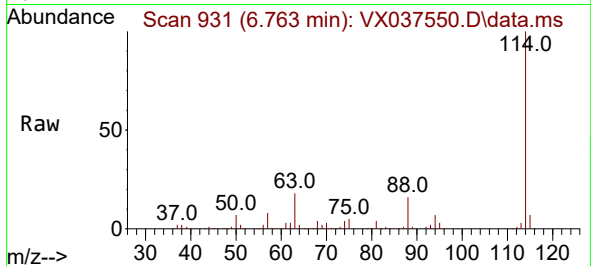
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW7

Tgt Ion:114 Resp: 21652
Ion Ratio Lower Upper
114 100
63 18.1 0.0 45.0
88 16.3 0.0 36.6

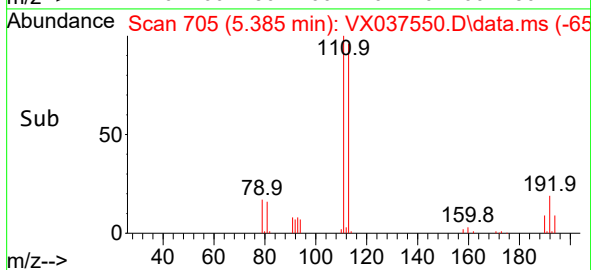
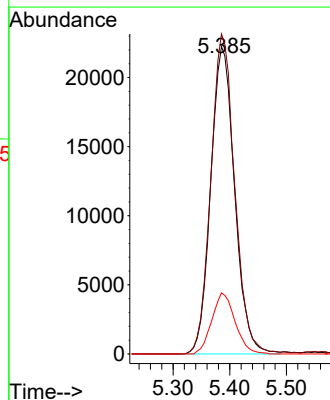
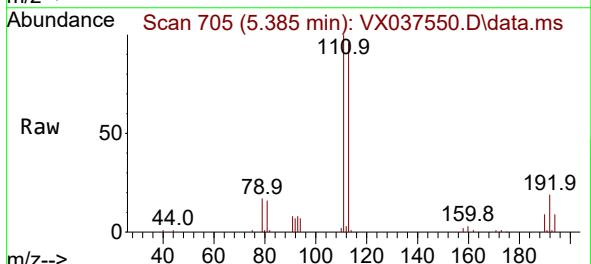
Manual Integrations
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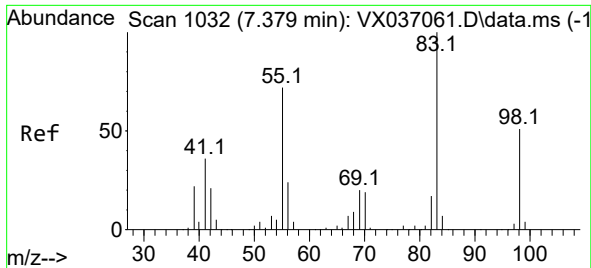
Reviewed By :John Carlone 09/07/2023
Supervised By :Mahesh Dadoda 09/07/2023



#35
Dibromofluoromethane
Concen: 45.409 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

Tgt Ion:113 Resp: 65117
Ion Ratio Lower Upper
113 100
111 104.1 82.9 124.3
192 19.3 13.3 19.9





#39

Methylcyclohexane

Concen: 0.353 ug/l

RT: 7.379 min Scan# 1032

Delta R.T. 0.000 min

Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

Instrument :

MSVOA_X

ClientSampleId :

MW7

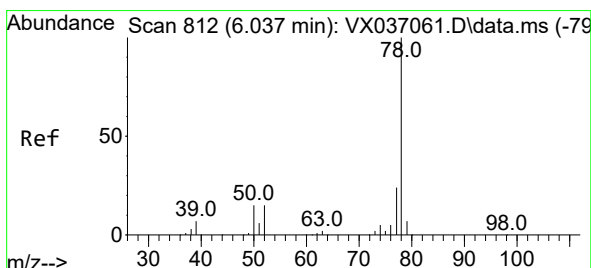
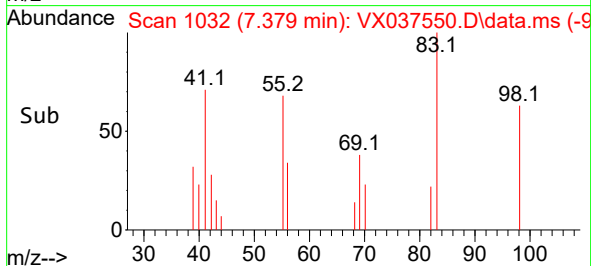
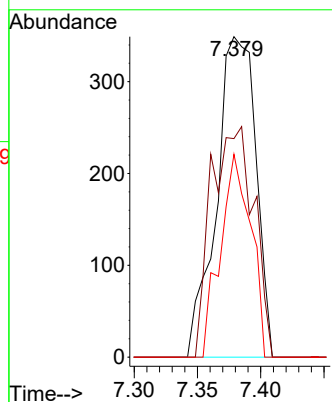
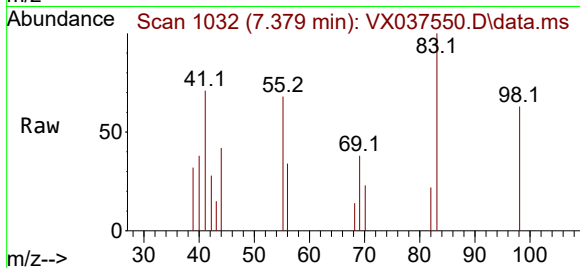
Tgt Ion: 83	Resp: 75
Ion Ratio	Lower Upper
83	100
55	68.2 64.6 97.0
98	63.3 36.7 55.1

Manual Integrations

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Supervised By :Mahesh Dadoda 09/07/2023



#40

Benzene

Concen: 5.886 ug/l

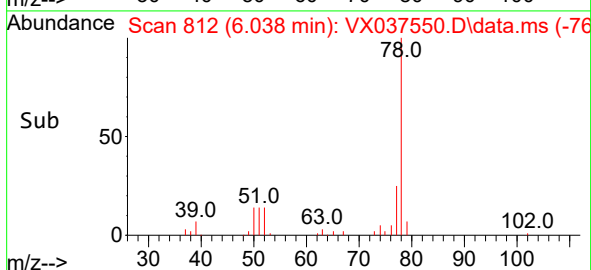
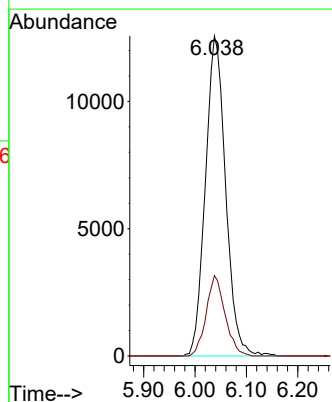
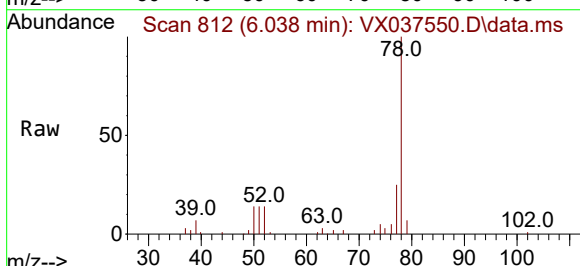
RT: 6.038 min Scan# 812

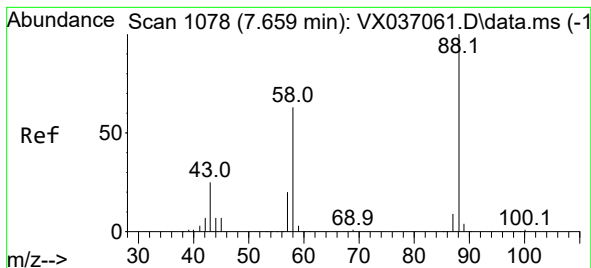
Delta R.T. 0.000 min

Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

Tgt Ion: 78	Resp: 34390
Ion Ratio	Lower Upper
78	100
77	25.1 19.3 28.9





#49

1,4-Dioxane

Concen: 15.969 ug/l

RT: 7.677 min Scan# 1081

Delta R.T. 0.018 min

Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

Instrument :

MSVOA_X

ClientSampleId :

MW7

Tgt Ion: 88 Resp: 69

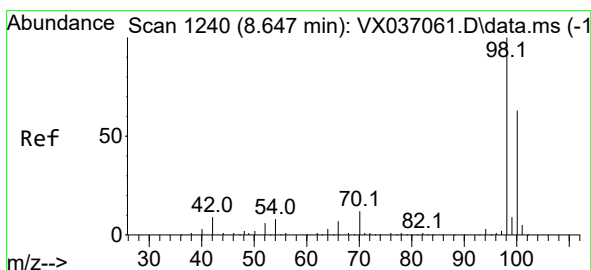
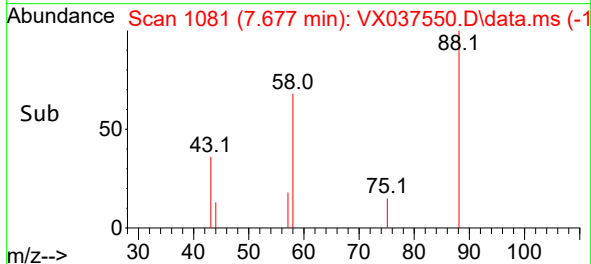
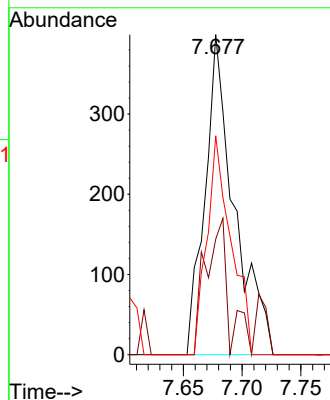
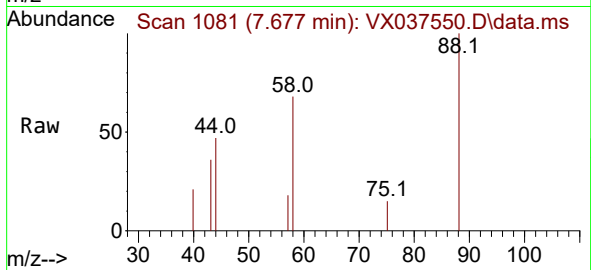
Ion	Ratio	Lower	Upper
88	100		
43	34.1	0.0	0.0
58	56.4	60.1	90.1

Manual Integrations

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Reviewed By :John Carlone 09/07/2023

Supervised By :Mahesh Dadoda 09/07/2023



#50

Toluene-d8

Concen: 48.808 ug/l

RT: 8.647 min Scan# 1240

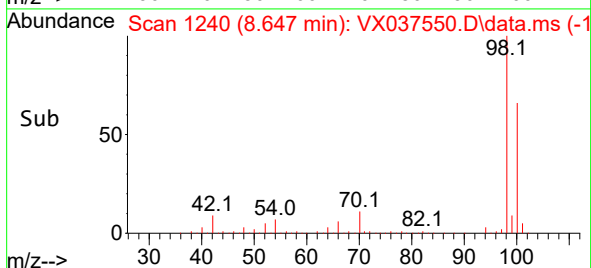
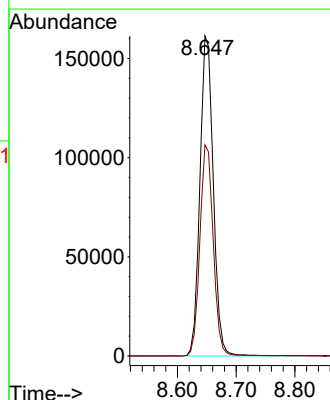
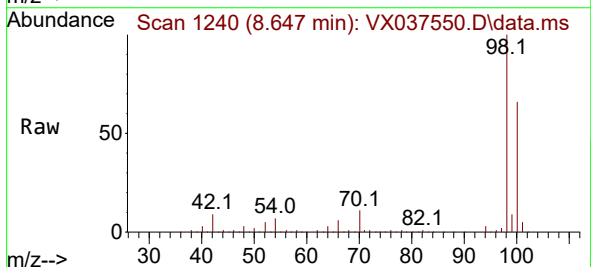
Delta R.T. 0.000 min

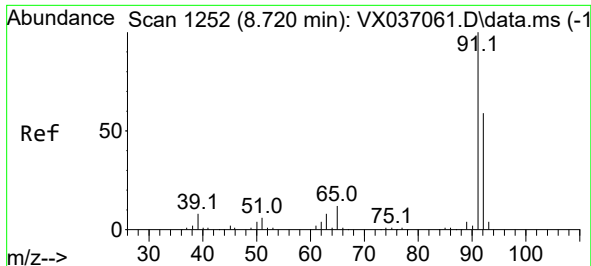
Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

Tgt Ion: 98 Resp: 253886

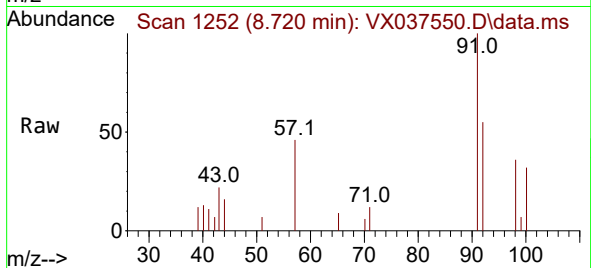
Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.1	79.7





#52
Toluene
Concen: 0.236 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

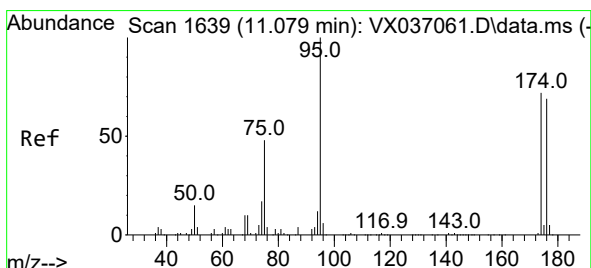
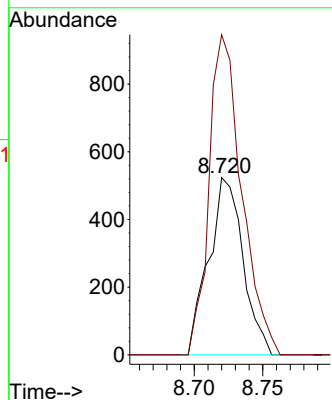
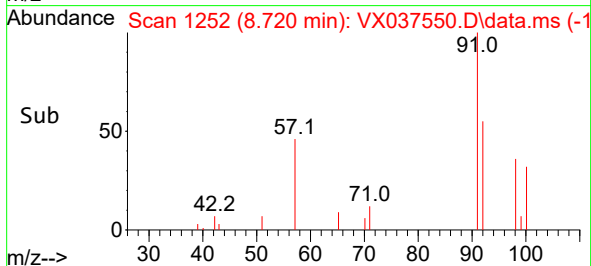
Instrument :
MSVOA_X
ClientSampleId :
MW7



Tgt Ion: 92 Resp: 912
Ion Ratio Lower Upper
92 100
91 172.1 134.2 201.2

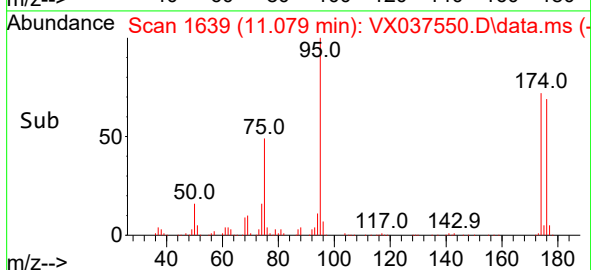
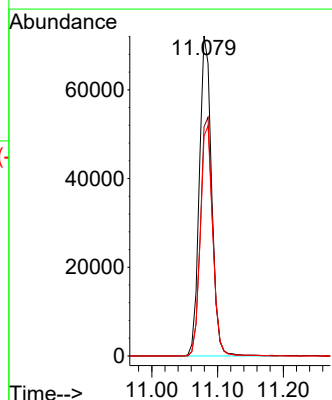
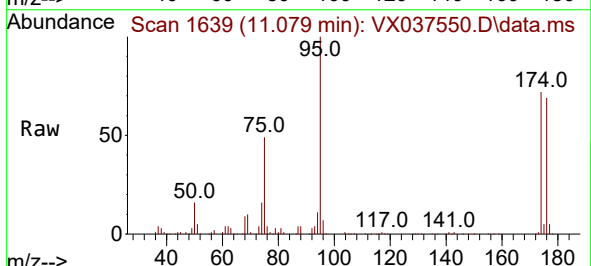
Manual Integrations
APPROVED

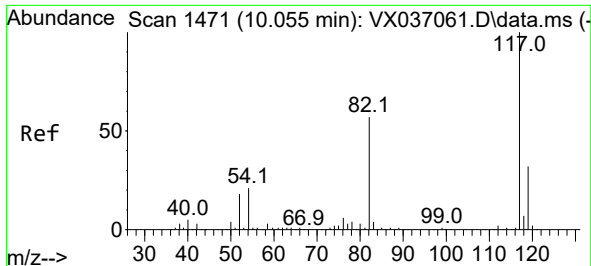
Reviewed By :John Carlone 09/07/2023
Supervised By :Mahesh Dadoda 09/07/2023



#62
4-Bromofluorobenzene
Concen: 45.622 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

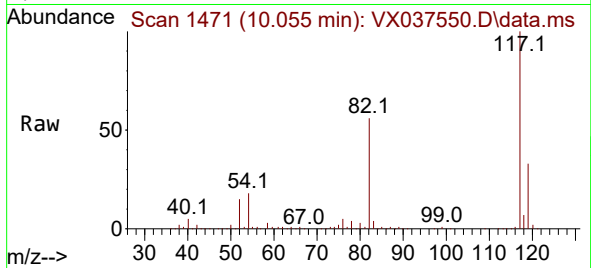
Tgt Ion: 95 Resp: 93260
Ion Ratio Lower Upper
95 100
174 75.0 0.0 135.6
176 72.6 0.0 131.0





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

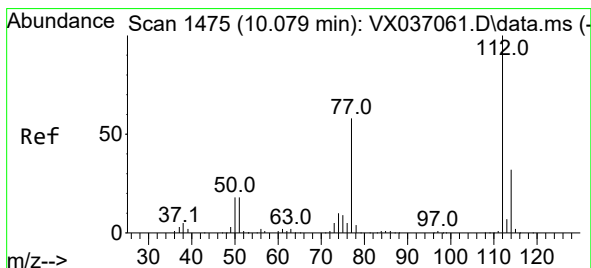
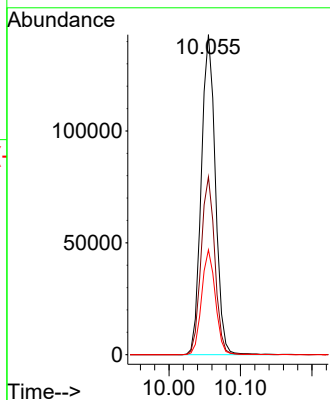
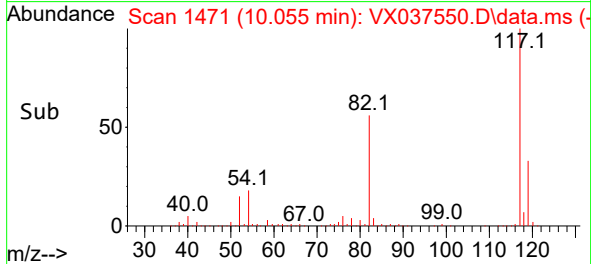
Instrument :
MSVOA_X
ClientSampleId :
MW7



Tgt Ion:117 Resp: 19551
Ion Ratio Lower Upper
117 100
82 55.5 46.2 69.4
119 32.7 25.5 38.3

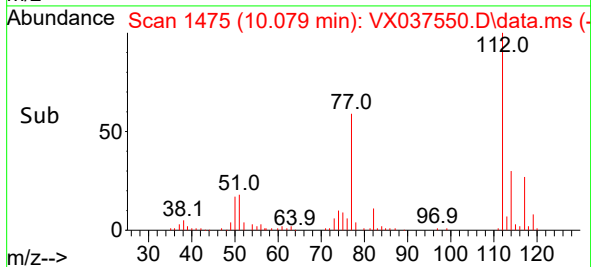
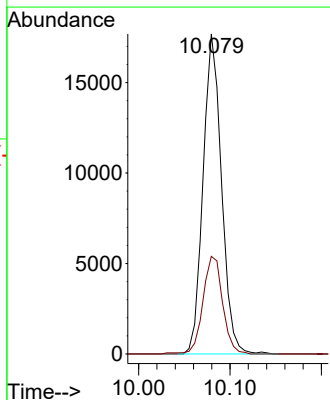
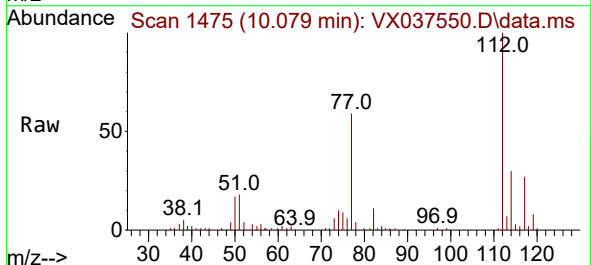
Manual Integrations
APPROVED

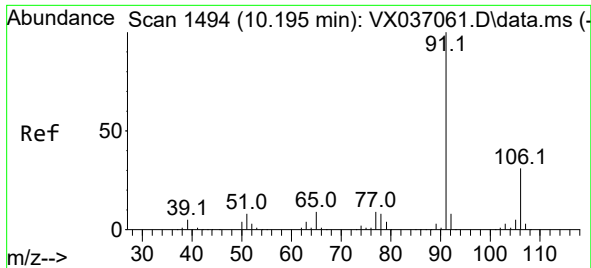
Reviewed By :John Carlone 09/07/2023
Supervised By :Mahesh Dadoda 09/07/2023



#65
Chlorobenzene
Concen: 5.978 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

Tgt Ion:112 Resp: 24702
Ion Ratio Lower Upper
112 100
114 30.5 25.7 38.5





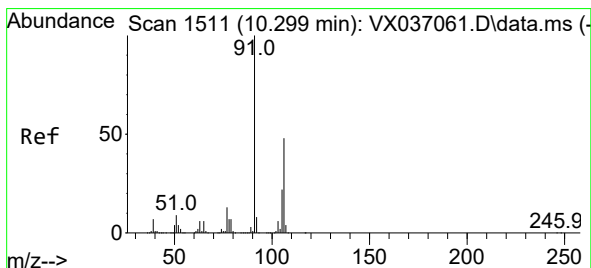
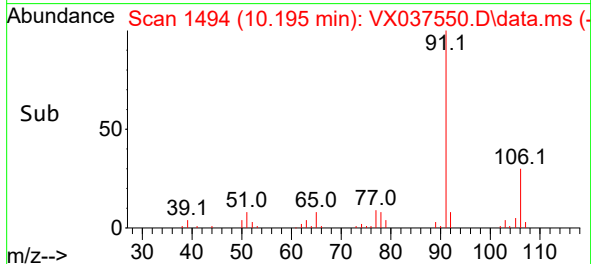
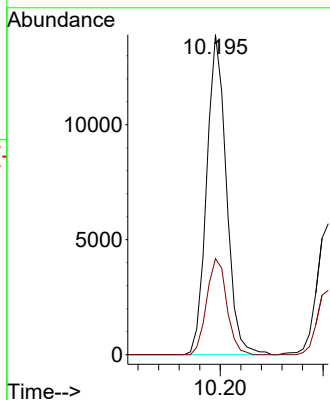
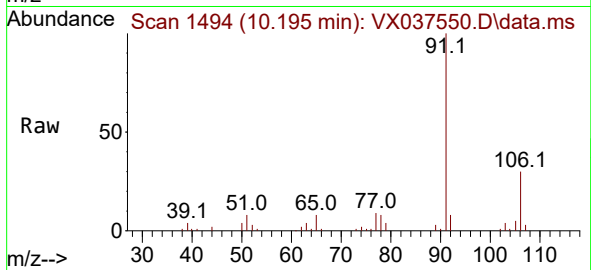
#67
Ethyl Benzene
Concen: 2.540 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW7

Tgt Ion: 91 Resp: 1846
Ion Ratio Lower Upper
91 100
106 30.0 24.9 37.3

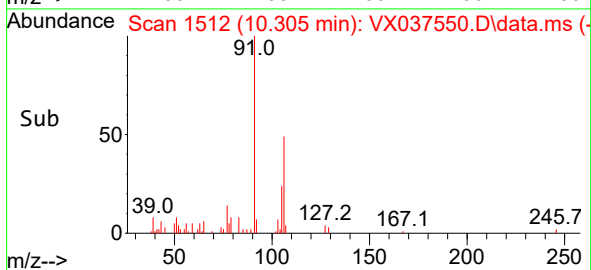
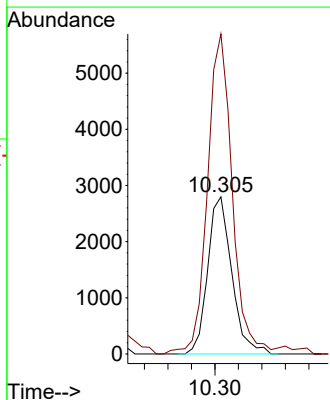
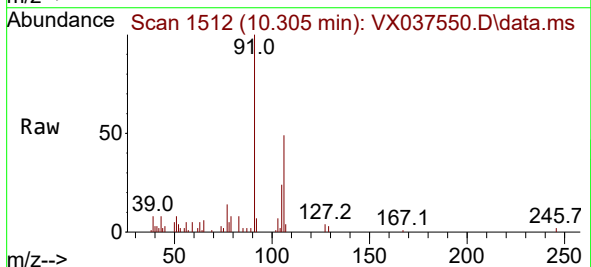
Manual Integrations
APPROVED

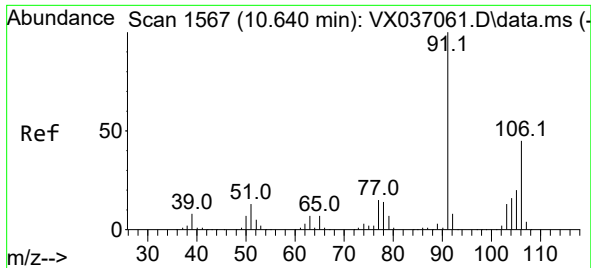
Reviewed By :John Carlone 09/07/2023
Supervised By :Mahesh Dadoda 09/07/2023



#68
m/p-Xylenes
Concen: 1.420 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

Tgt Ion:106 Resp: 3987
Ion Ratio Lower Upper
106 100
91 209.7 165.5 248.3





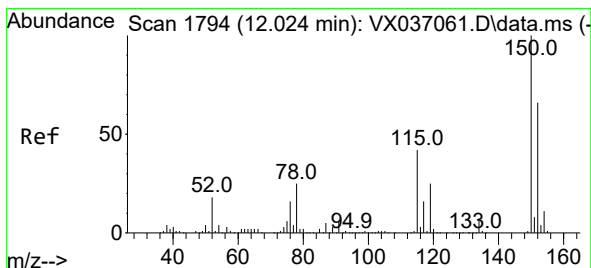
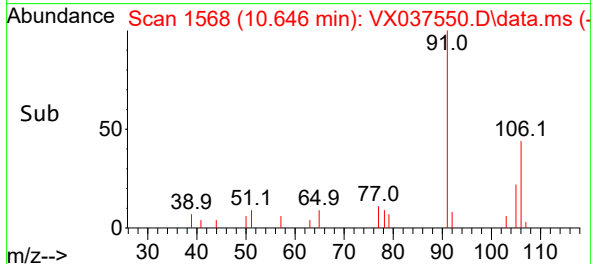
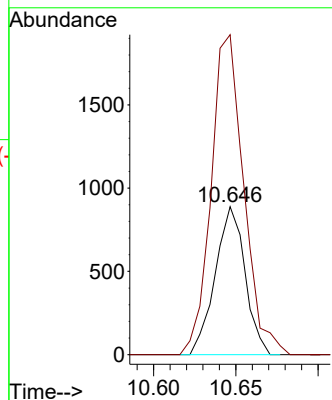
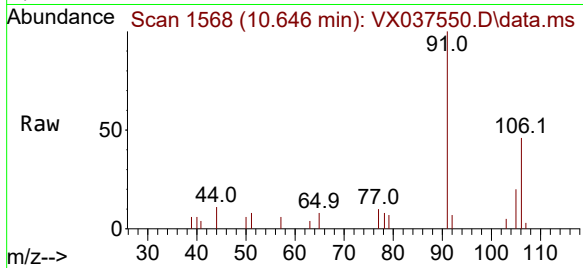
#69
o-Xylene
Concen: 0.404 ug/l
RT: 10.646 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW7

Tgt Ion:106 Resp: 1120
Ion Ratio Lower Upper
106 100
91 236.5 108.9 326.8

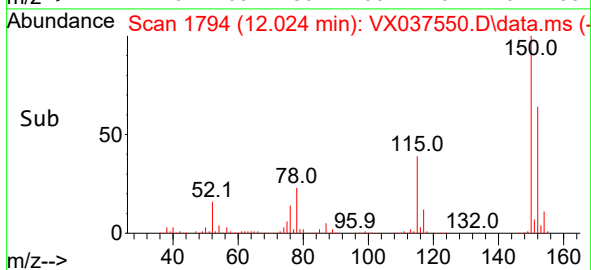
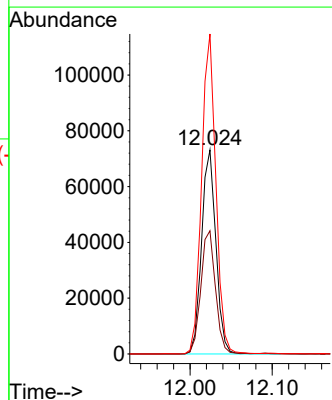
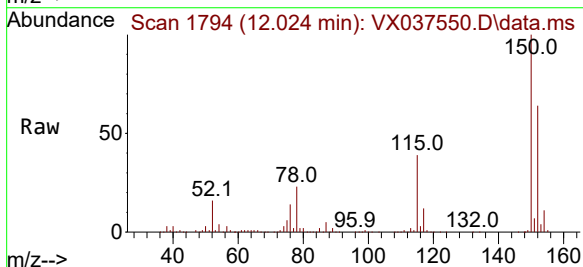
Manual Integrations
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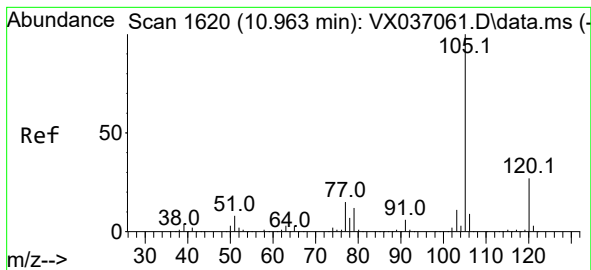
Reviewed By :John Carlone 09/07/2023
Supervised By :Mahesh Dadoda 09/07/2023



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

Tgt Ion:152 Resp: 88588
Ion Ratio Lower Upper
152 100
115 61.7 43.3 129.9
150 155.9 0.0 345.0





#73

Isopropylbenzene

Concen: 2.765 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

Instrument :

MSVOA_X

ClientSampleId :

MW7

Tgt Ion:105 Resp: 17804

Ion Ratio Lower Upper

105 100

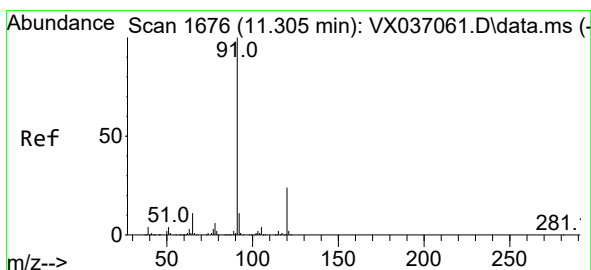
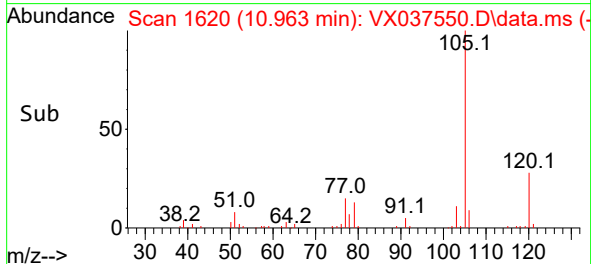
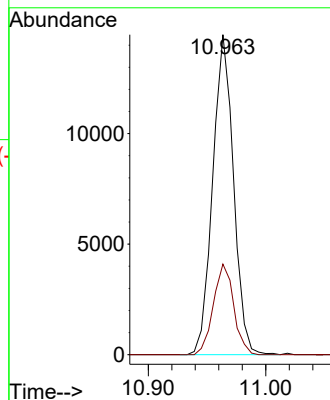
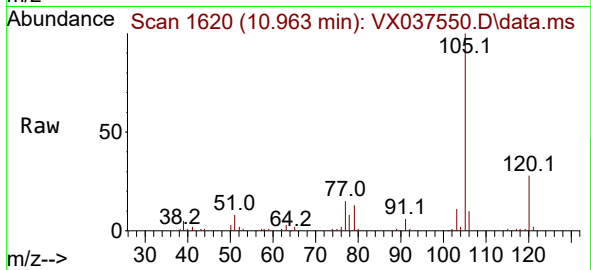
120 27.6 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/07/2023

Supervised By :Mahesh Dadoda 09/07/2023



#78

n-propylbenzene

Concen: 2.359 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX037550.D

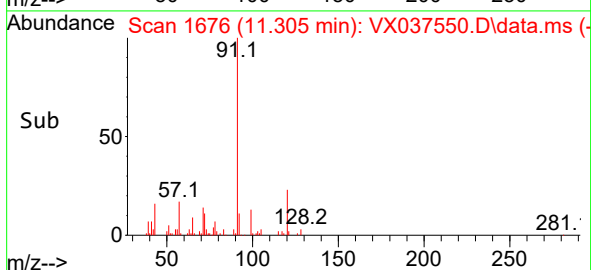
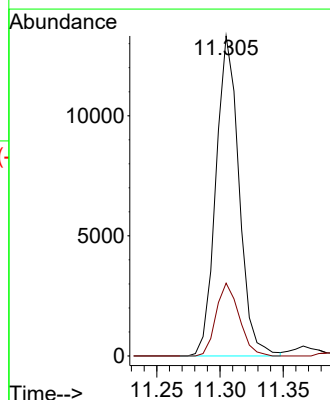
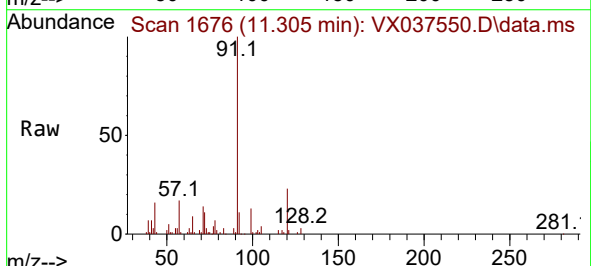
Acq: 06 Sep 2023 13:21

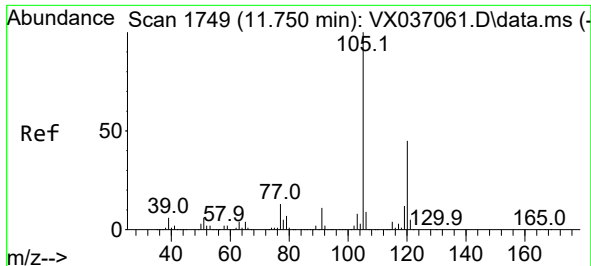
Tgt Ion: 91 Resp: 16917

Ion Ratio Lower Upper

91 100

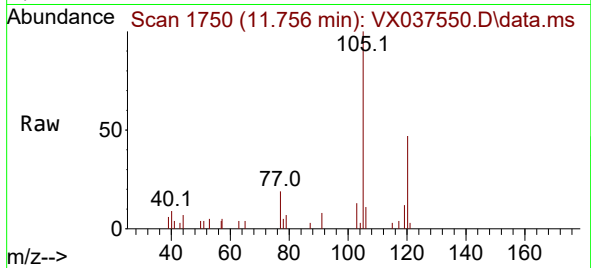
120 22.6 11.5 34.4





#84
 1,2,4-Trimethylbenzene
 Concen: 0.545 ug/l
 RT: 11.756 min Scan# 1750
 Delta R.T. 0.006 min
 Lab File: VX037550.D
 Acq: 06 Sep 2023 13:21

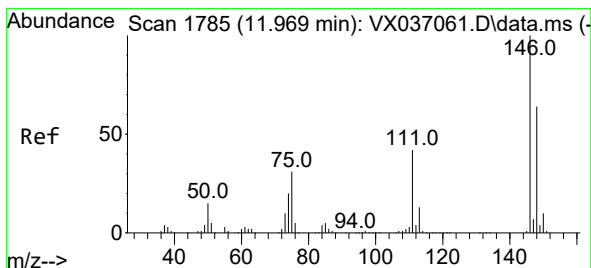
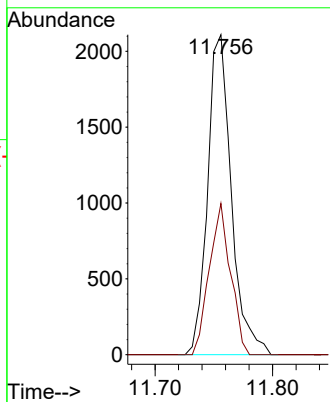
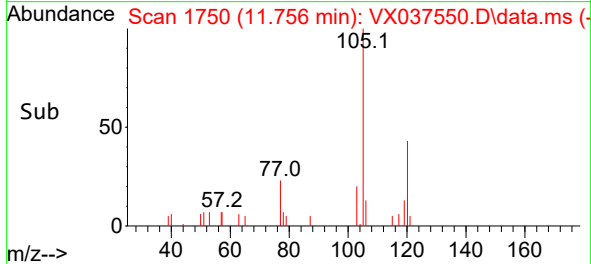
Instrument :
 MSVOA_X
 ClientSampleId :
 MW7



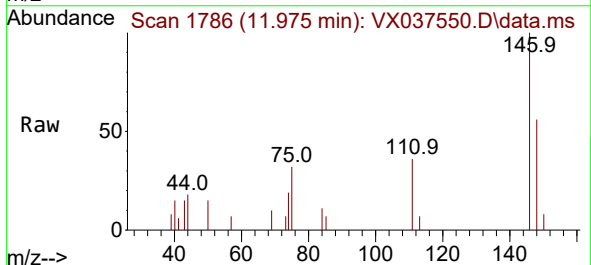
Tgt Ion:105 Resp: 296
 Ion Ratio Lower Upper
 105 100
 120 42.3 21.2 63.6

Manual Integrations
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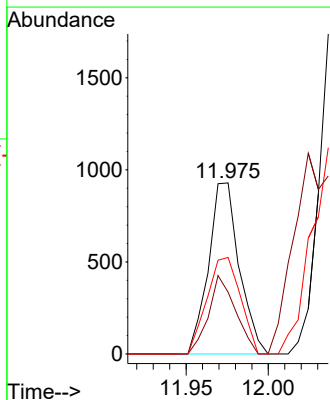
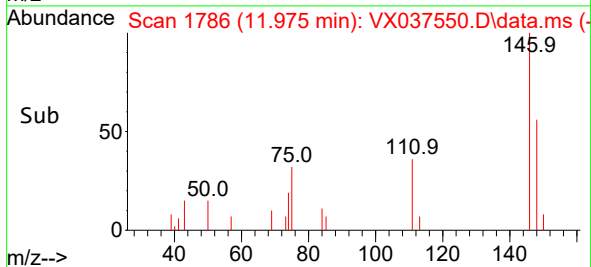
Reviewed By :John Carlone 09/07/2023
 Supervised By :Mahesh Dadoda 09/07/2023

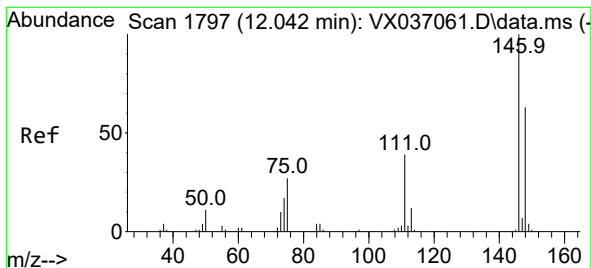


#87
 1,3-Dichlorobenzene
 Concen: 0.411 ug/l
 RT: 11.975 min Scan# 1786
 Delta R.T. 0.006 min
 Lab File: VX037550.D
 Acq: 06 Sep 2023 13:21



Tgt Ion:146 Resp: 1209
 Ion Ratio Lower Upper
 146 100
 111 40.1 22.1 66.1
 148 61.3 31.8 95.3





#88

1,4-Dichlorobenzene

Concen: 0.890 ug/l m

RT: 12.043 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

Instrument :

MSVOA_X

ClientSampleId :

MW7

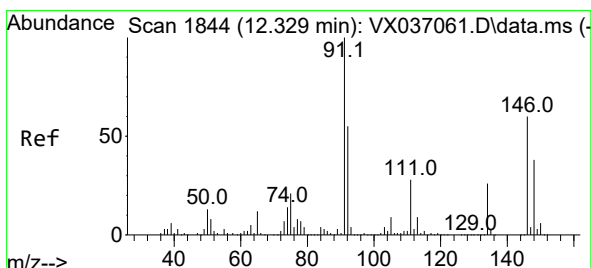
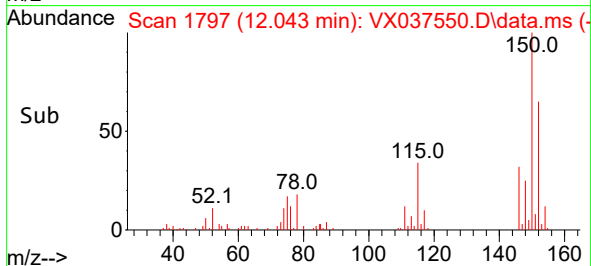
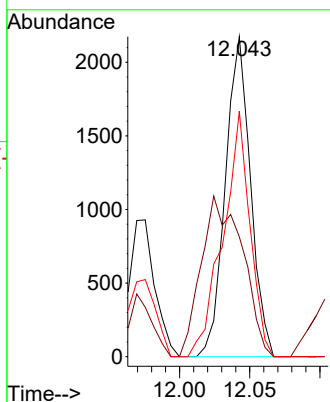
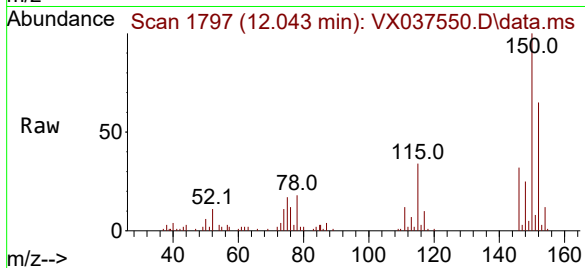
Tgt Ion:	146	Resp:	270
Ion Ratio	Lower	Upper	
146	100		
111	17.9	21.3	63.7
148	27.4	31.8	95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/07/2023

Supervised By :Mahesh Dadoda 09/07/2023



#89

n-Butylbenzene

Concen: 0.429 ug/l

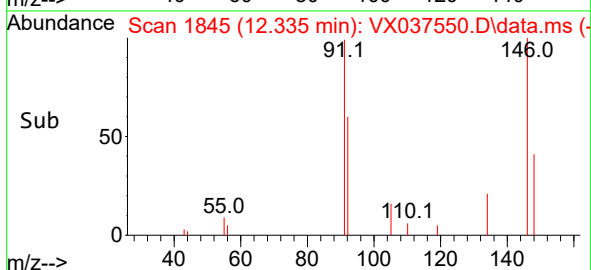
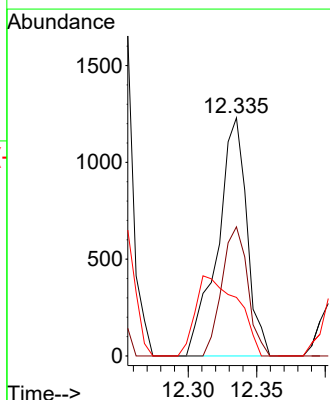
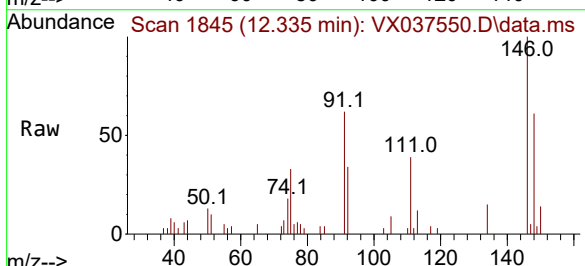
RT: 12.335 min Scan# 1845

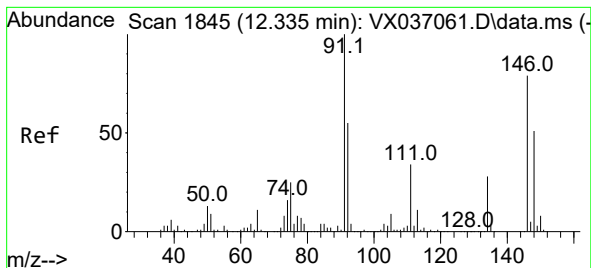
Delta R.T. 0.006 min

Lab File: VX037550.D

Acq: 06 Sep 2023 13:21

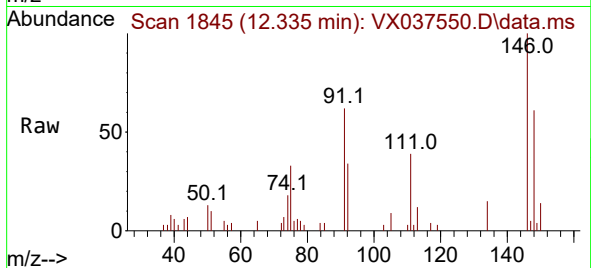
Tgt Ion:	91	Resp:	1834
Ion Ratio	Lower	Upper	
91	100		
92	47.8	27.4	82.0
134	0.0	12.6	37.8





#91
1,2-Dichlorobenzene
Concen: 0.789 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21

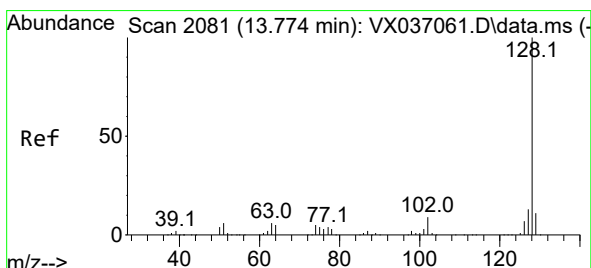
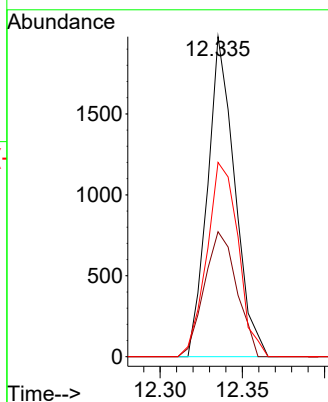
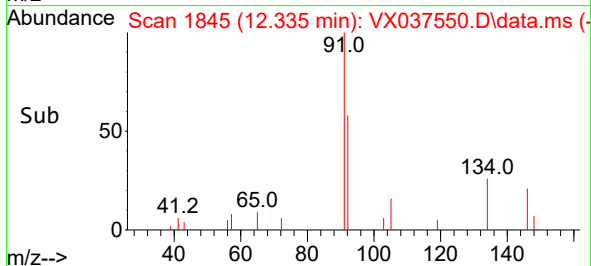
Instrument :
MSVOA_X
ClientSampleId :
MW7



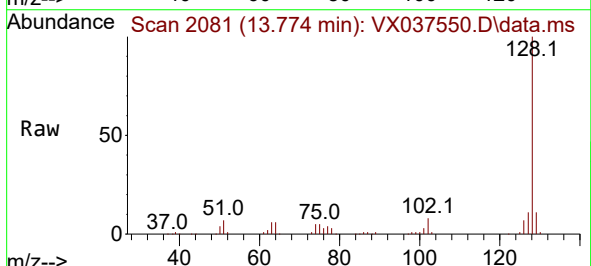
Tgt Ion:146 Resp: 2275
Ion Ratio Lower Upper
146 100
111 46.4 22.4 67.0
148 70.1 31.6 95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/07/2023
Supervised By :Mahesh Dadoda 09/07/2023



#95
Naphthalene
Concen: 6.363 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX037550.D
Acq: 06 Sep 2023 13:21



Tgt Ion:128 Resp: 47020
Ion Ratio Lower Upper
128 100
127 12.5 10.3 15.5
129 10.7 8.8 13.2

