

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072123\
 Data File : VX036606.D
 Acq On : 21 Jul 2023 12:07
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

Manual Integrations
 APPROVED

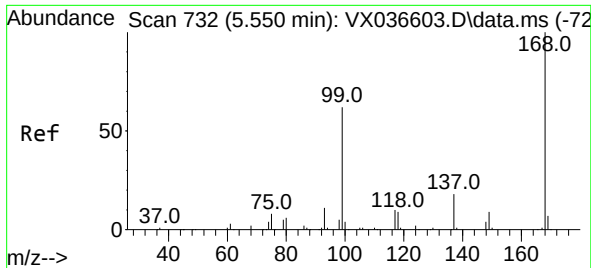
Reviewed By : John Carlone 07/24/2023
 Supervised By : Mahesh Dadoda 07/24/2023

Quant Time: Jul 21 23:02:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072123W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 21 12:14:12 2023
 Response via : Initial Calibration

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

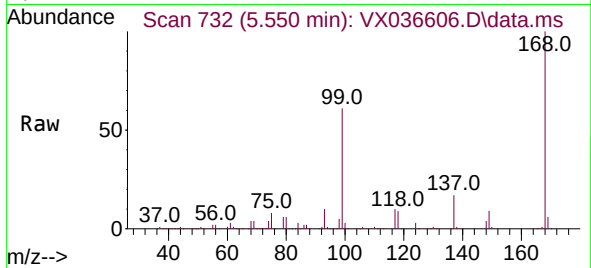
Internal Standards						
1) Pentafluorobenzene	5.550	168	304237	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	470982	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	345024	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	143026	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	165918	36.857	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	73.720%#		
35) Dibromofluoromethane	5.385	113	148342	45.823	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.640%		
50) Toluene-d8	8.647	98	511166	44.526	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	89.060%#		
62) 4-Bromofluorobenzene	11.079	95	162385	37.492	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	74.980%#		
Target Compounds						Qvalue
7) Trichlorofluoromethane	1.886	101	1113	0.194	ug/l	92
15) Acrylonitrile	3.075	53	3857	1.800	ug/l	97
17) Carbon Disulfide	2.514	76	9727	1.035	ug/l	95
19) Methyl tert-butyl Ether	3.117	73	2191	0.171	ug/l	93
22) Diisopropyl ether	3.764	45	2139	0.168	ug/l #	82
24) 1,1-Dichloroethane	3.617	63	1085	0.152	ug/l #	65
26) 2,2-Dichloropropane	4.483	77	1040	0.155	ug/l	85
41) Methacrylonitrile	4.922	41	366	0.125	ug/l #	20
43) Isopropyl Acetate	6.336	43	1753	0.186	ug/l #	91
45) 1,2-Dichloropropane	7.434	63	718	0.192	ug/l #	80
51) 4-Methyl-2-Pentanone	8.574	43	5906	1.135	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	3134	1.056	ug/l	99
59) 2-Hexanone	9.433	43	4953	1.283	ug/l	92
68) m/p-Xylenes	10.299	106	5575	1.075	ug/l	99
82) 4-Chlorotoluene	11.457	91	9434	0.998	ug/l	99
86) p-Isopropyltoluene	12.006	119	10984	1.100	ug/l	94
87) 1,3-Dichlorobenzene	11.969	146	6375	1.277	ug/l	97
88) 1,4-Dichlorobenzene	12.043	146	6651m	1.342	ug/l	
89) n-Butylbenzene	12.335	91	13086	1.464	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	4844	1.005	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	7259	2.446	ug/l	98
94) Hexachlorobutadiene	13.725	225	2679	2.182	ug/l	98
95) Naphthalene	13.774	128	21642	2.092	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	7814	2.671	ug/l	96

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



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

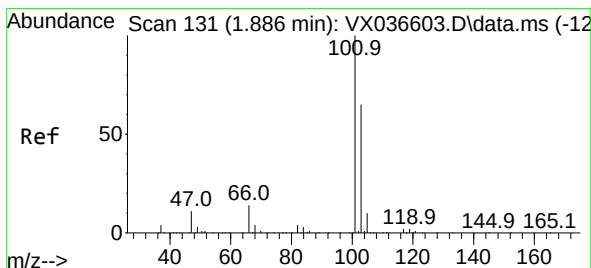
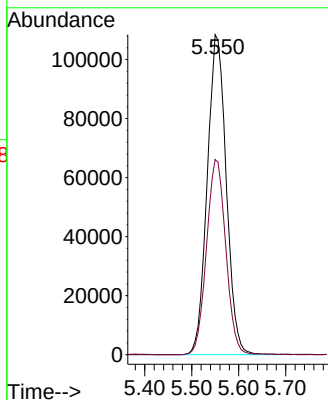
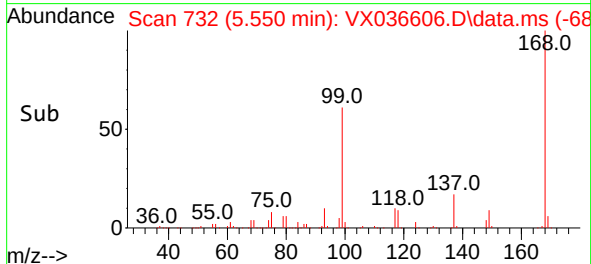
Instrument :
MSVOA_X
ClientSampleId :
IBLK



Tgt Ion:168 Resp: 30423
Ion Ratio Lower Upper
168 100
99 61.0 56.6 85.0

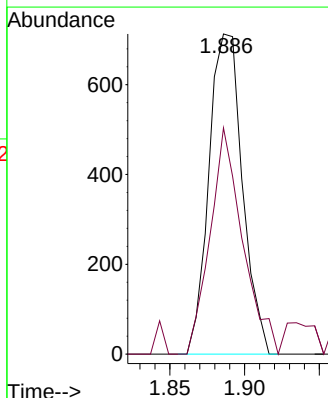
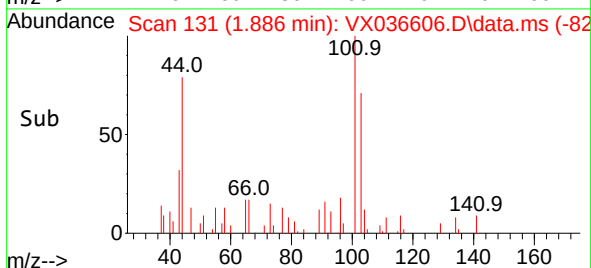
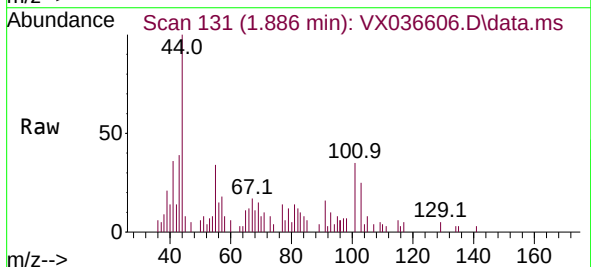
Manual Integrations
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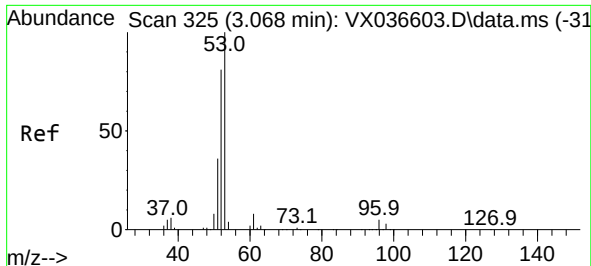
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023



#7
Trichlorofluoromethane
Concen: 0.194 ug/l
RT: 1.886 min Scan# 131
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

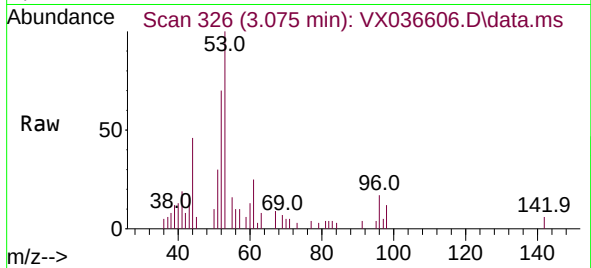
Tgt Ion:101 Resp: 1113
Ion Ratio Lower Upper
101 100
103 70.7 51.4 77.2





#15
Acrylonitrile
Concen: 1.800 ug/l
RT: 3.075 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

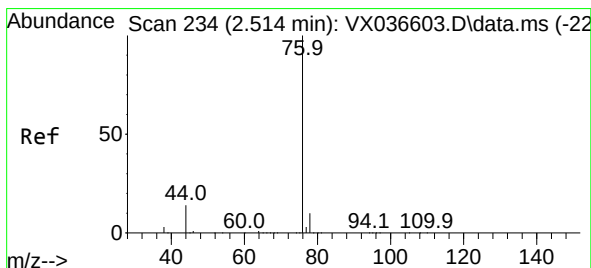
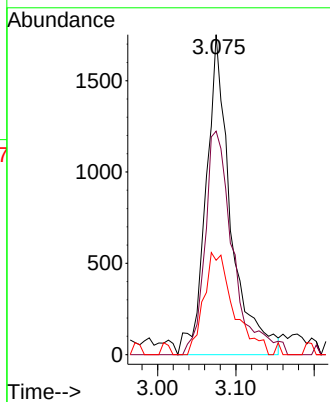
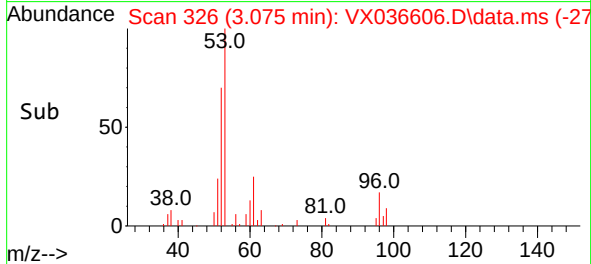
Instrument :
MSVOA_X
ClientSampleId :
IBLK



Tgt Ion: 53 Resp: 385
Ion Ratio Lower Upper
53 100
52 78.7 66.0 99.0
51 38.2 29.8 44.6

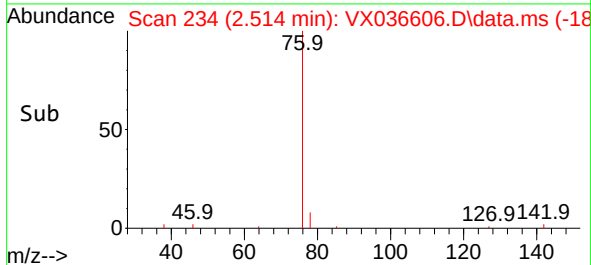
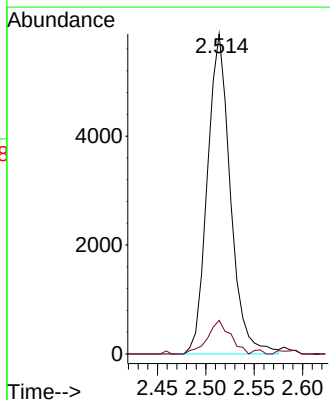
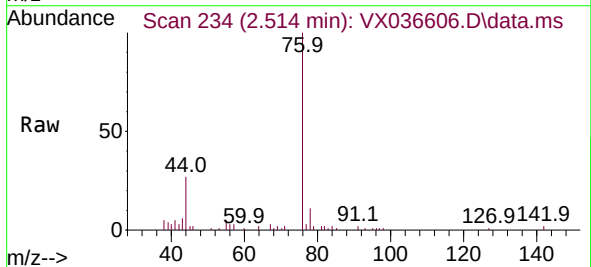
Manual Integrations
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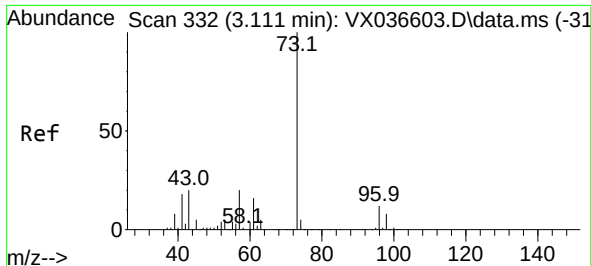
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023



#17
Carbon Disulfide
Concen: 1.035 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

Tgt Ion: 76 Resp: 9727
Ion Ratio Lower Upper
76 100
78 10.5 7.0 10.6





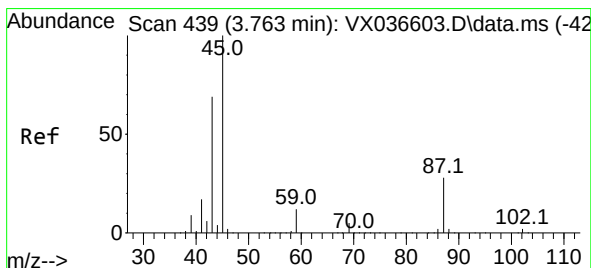
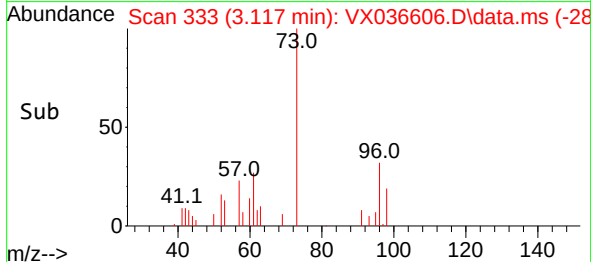
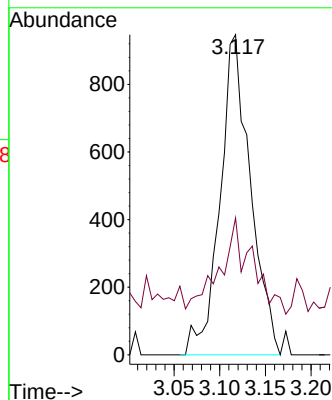
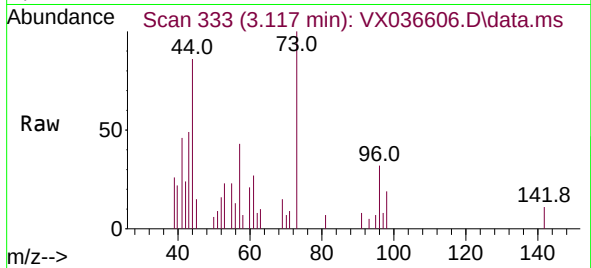
#19
Methyl tert-butyl Ether
Concen: 0.171 ug/l
RT: 3.117 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

Instrument :
MSVOA_X
ClientSampleId :
IBLK

Tgt Ion: 73 Resp: 219
Ion Ratio Lower Upper
73 100
57 24.8 17.3 25.9

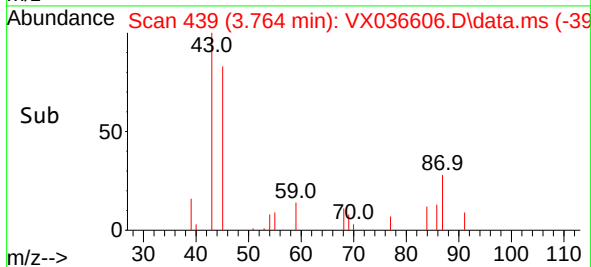
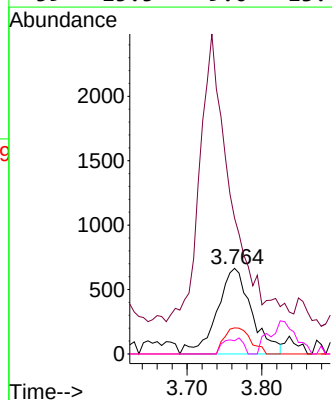
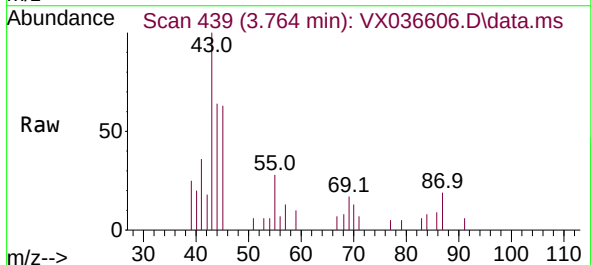
Manual Integrations
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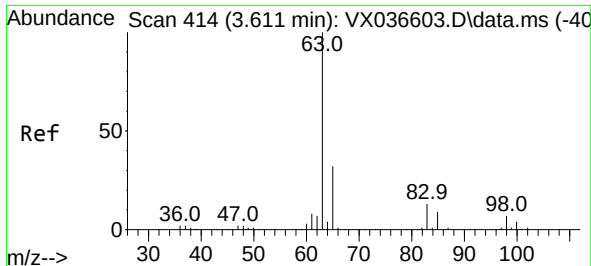
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023



#22
Diisopropyl ether
Concen: 0.168 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

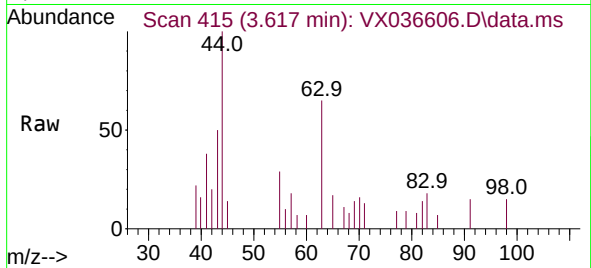
Tgt Ion: 45 Resp: 2139
Ion Ratio Lower Upper
45 100
43 107.4 69.7 104.5#
87 30.4 20.8 31.2
59 15.5 9.0 13.4#





#24
 1,1-Dichloroethane
 Concen: 0.152 ug/l
 RT: 3.617 min Scan# 414
 Delta R.T. 0.006 min
 Lab File: VX036606.D
 Acq: 21 Jul 2023 12:07

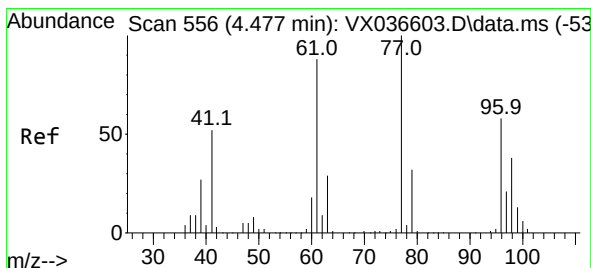
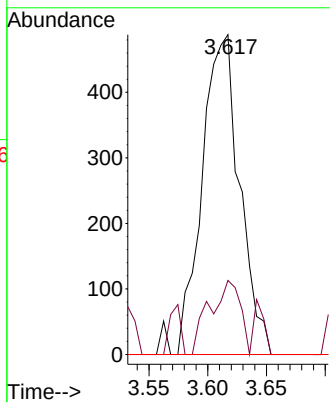
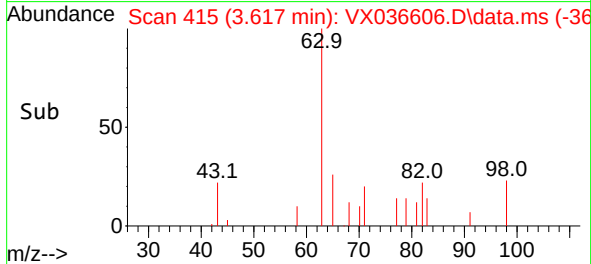
Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK



Tgt Ion: 63 Resp: 1085
 Ion Ratio Lower Upper
 63 100
 98 23.2 3.3 9.8
 100 0.0 2.1 6.5

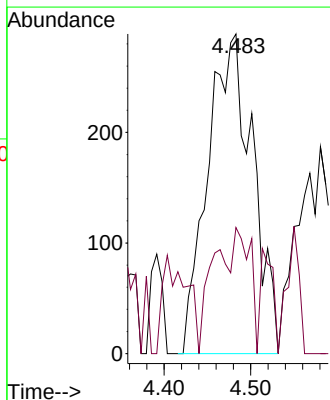
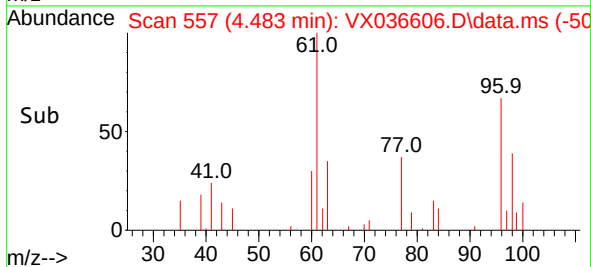
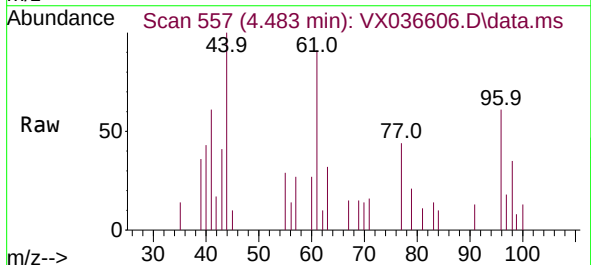
Manual Integrations
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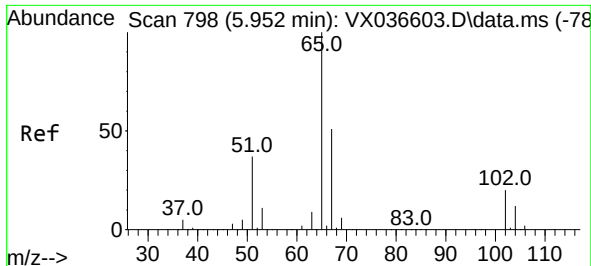
Reviewed By :John Carlone 07/24/2023
 Supervised By :Mahesh Dadoda 07/24/2023



#26
 2,2-Dichloropropane
 Concen: 0.155 ug/l
 RT: 4.483 min Scan# 557
 Delta R.T. 0.006 min
 Lab File: VX036606.D
 Acq: 21 Jul 2023 12:07

Tgt Ion: 77 Resp: 1040
 Ion Ratio Lower Upper
 77 100
 97 14.3 10.8 32.3





#33

1,2-Dichloroethane-d4

Concen: 36.857 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX036606.D

Acq: 21 Jul 2023 12:07

Instrument :

MSVOA_X

ClientSampleId :

IBLK

Tgt Ion: 65 Resp: 165918

Ion Ratio Lower Upper

65 100

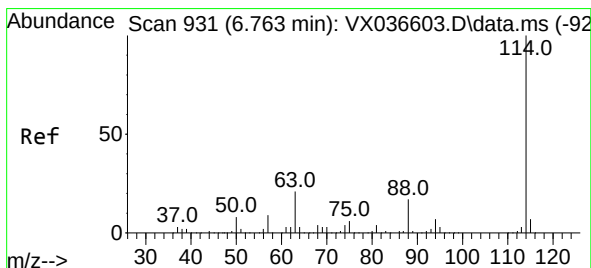
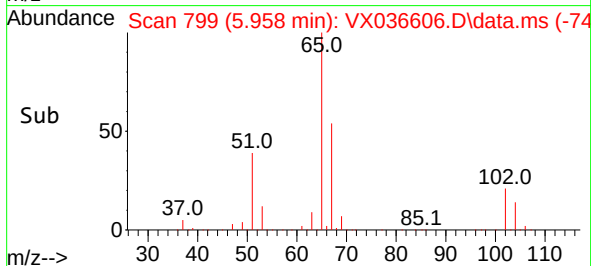
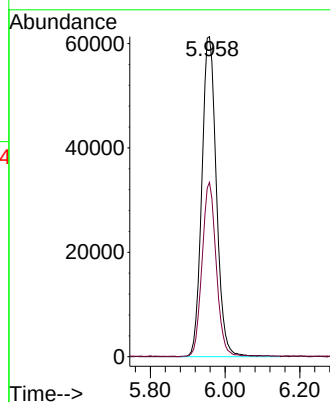
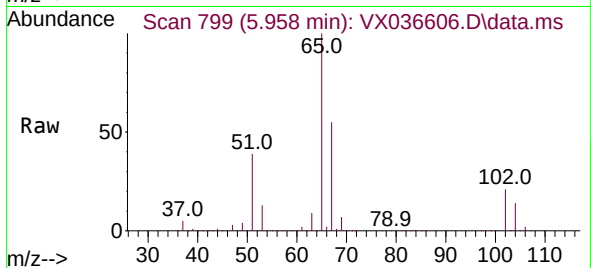
67 53.1 0.0 100.2

Manual Integrations

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Reviewed By :John Carlone 07/24/2023

Supervised By :Mahesh Dadoda 07/24/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX036606.D

Acq: 21 Jul 2023 12:07

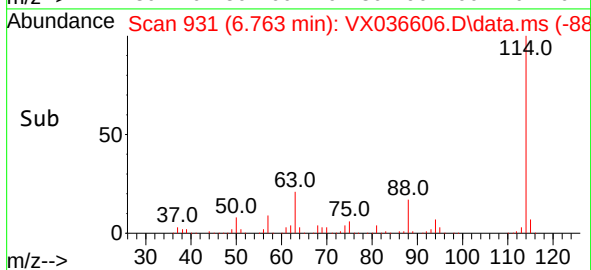
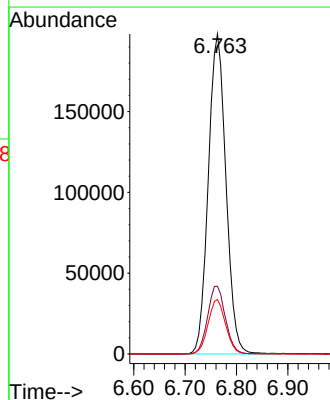
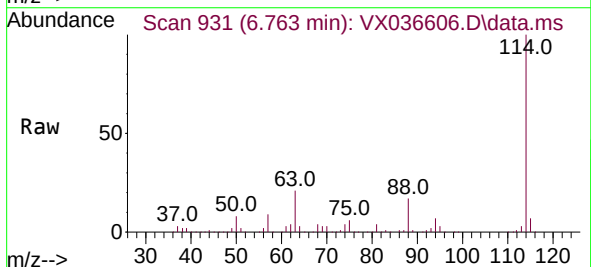
Tgt Ion:114 Resp: 470982

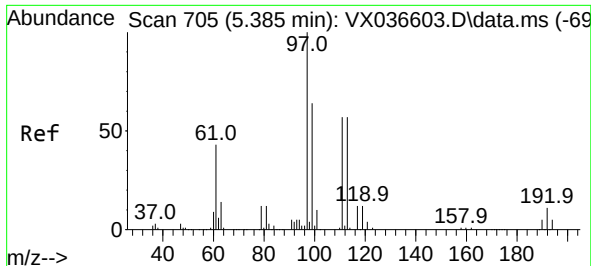
Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.0

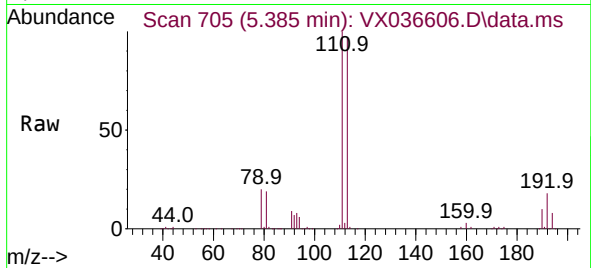
88 17.0 0.0 36.6





#35
Dibromofluoromethane
Concen: 45.823 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

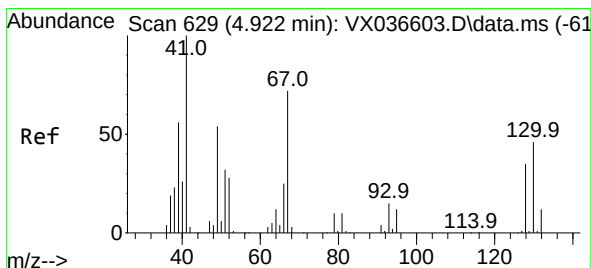
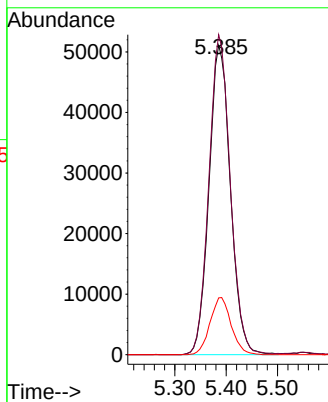
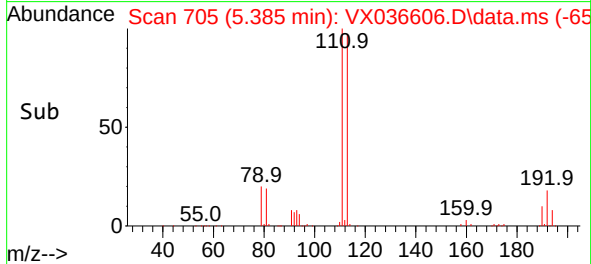
Instrument :
MSVOA_X
ClientSampleId :
IBLK



Tgt Ion: 113 Resp: 14834
Ion Ratio Lower Upper
113 100
111 103.1 82.9 124.3
192 18.2 13.3 19.9

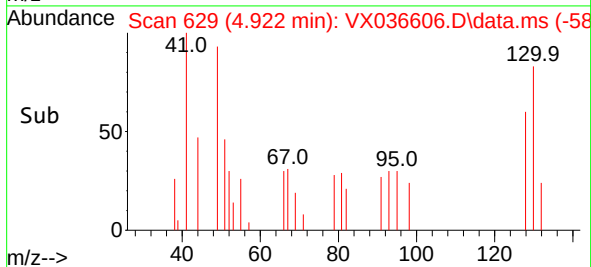
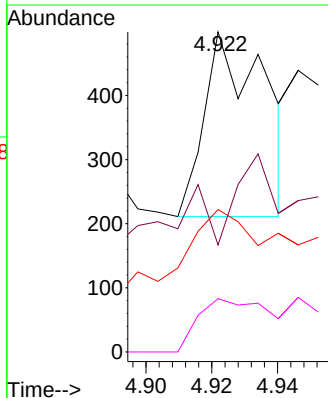
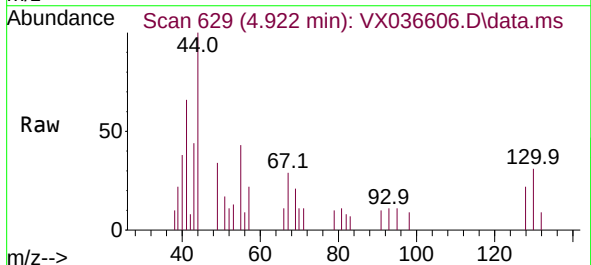
Manual Integrations
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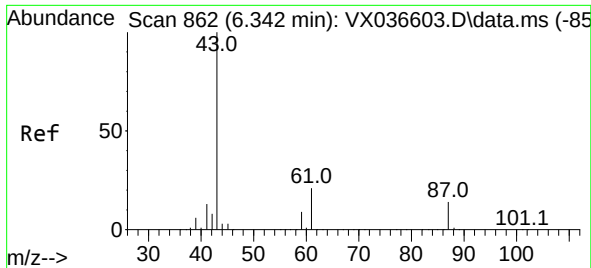
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023



#41
Methacrylonitrile
Concen: 0.125 ug/l
RT: 4.922 min Scan# 629
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

Tgt Ion: 41 Resp: 366
Ion Ratio Lower Upper
41 100
39 73.8 45.2 67.8#
67 177.6 52.6 78.8#
52 0.0 22.7 34.1#





#43

Isopropyl Acetate

Concen: 0.186 ug/l

RT: 6.336 min Scan# 80

Delta R.T. -0.006 min

Lab File: VX036606.D

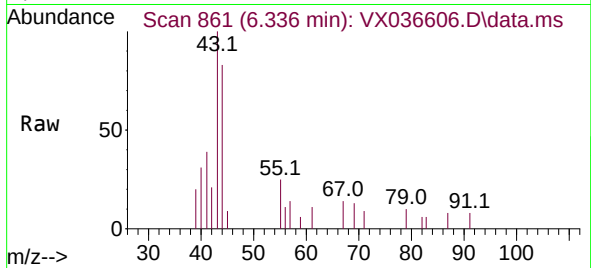
Acq: 21 Jul 2023 12:07

Instrument :

MSVOA_X

ClientSampleId :

IBLK



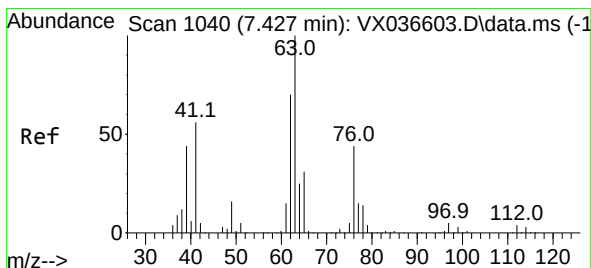
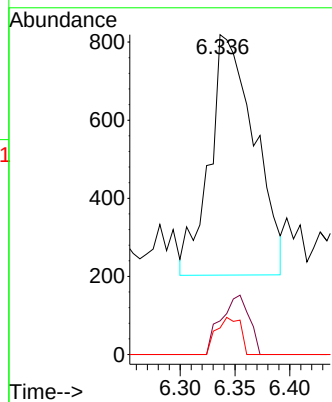
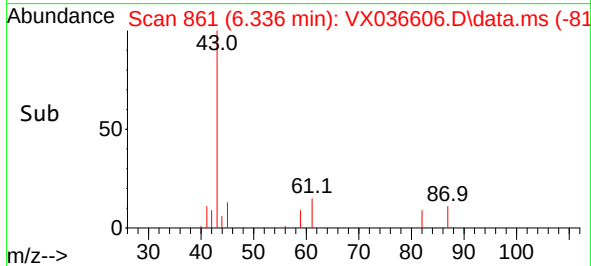
Tgt Ion:	43	Resp:	175
Ion Ratio	100	Lower	Upper
43	100		
61	15.5	15.2	22.8
87	8.3	9.8	14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/24/2023

Supervised By :Mahesh Dadoda 07/24/2023



#45

1,2-Dichloropropane

Concen: 0.192 ug/l

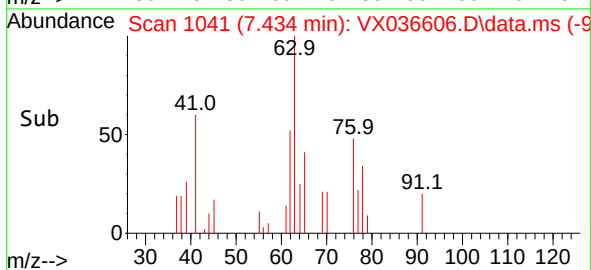
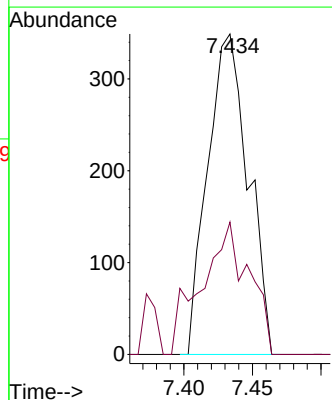
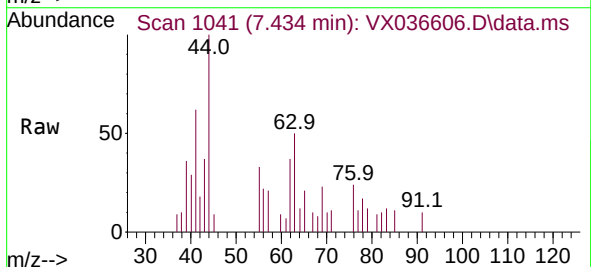
RT: 7.434 min Scan# 1041

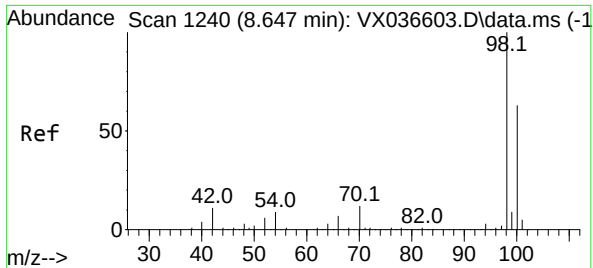
Delta R.T. 0.006 min

Lab File: VX036606.D

Acq: 21 Jul 2023 12:07

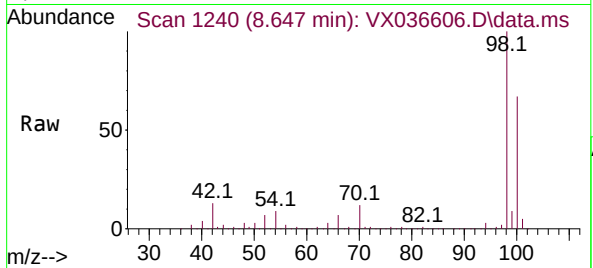
Tgt Ion:	63	Resp:	718
Ion Ratio	100	Lower	Upper
63	100		
65	41.3	24.3	36.5





#50
Toluene-d8
Concen: 44.526 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

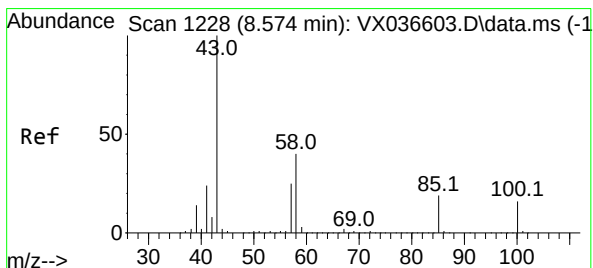
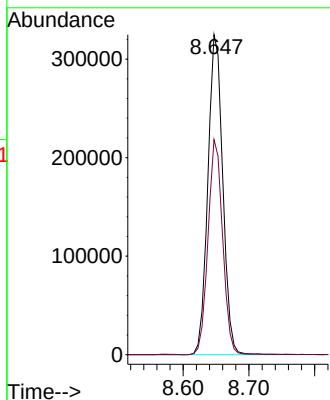
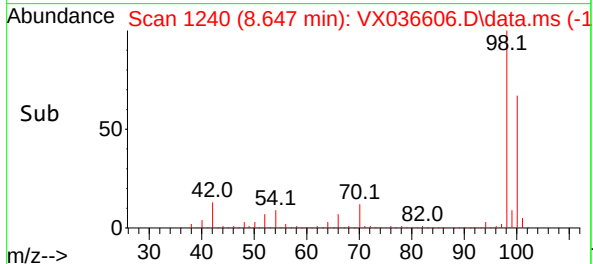
Instrument :
MSVOA_X
ClientSampleId :
IBLK



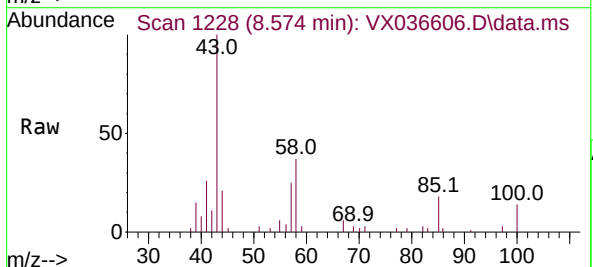
Tgt Ion: 98 Resp: 51116
Ion Ratio Lower Upper
98 100
100 65.9 53.1 79.7

Manual Integrations
APPROVED

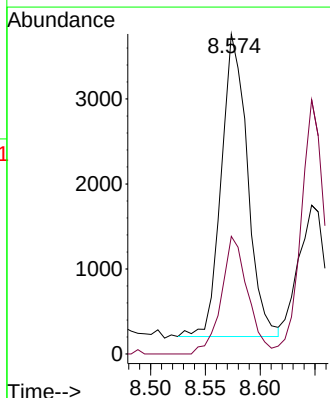
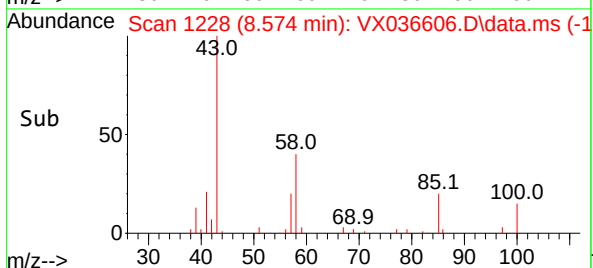
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023

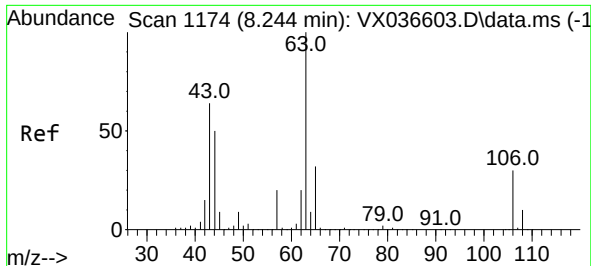


#51
4-Methyl-2-Pentanone
Concen: 1.135 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07



Tgt Ion: 43 Resp: 5906
Ion Ratio Lower Upper
43 100
58 39.2 30.4 45.6





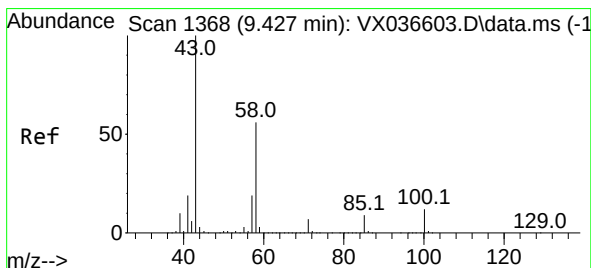
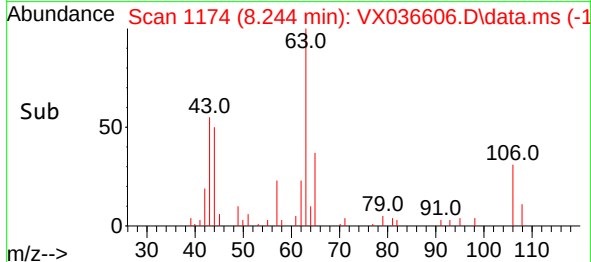
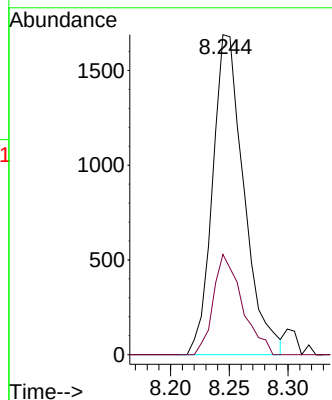
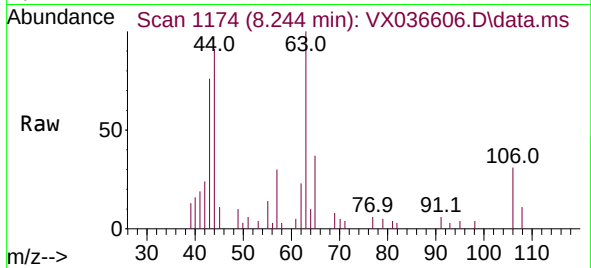
#58
2-Chloroethyl Vinyl ether
Concen: 1.056 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

Instrument :
MSVOA_X
ClientSampleId :
IBLK

Tgt Ion: 63 Resp: 3134
Ion Ratio Lower Upper
63 100
106 28.8 22.5 33.7

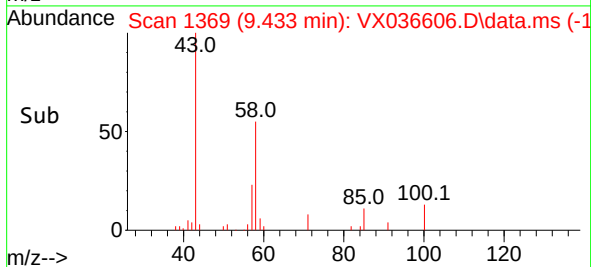
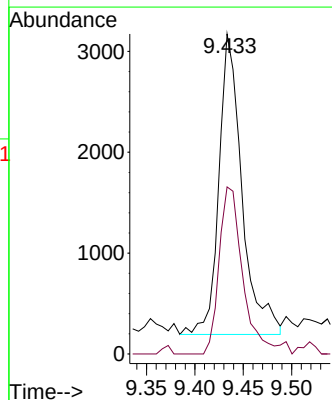
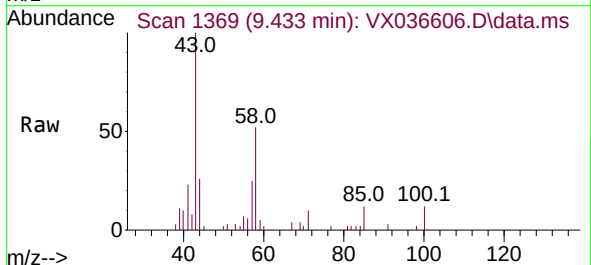
Manual Integrations
APPROVED

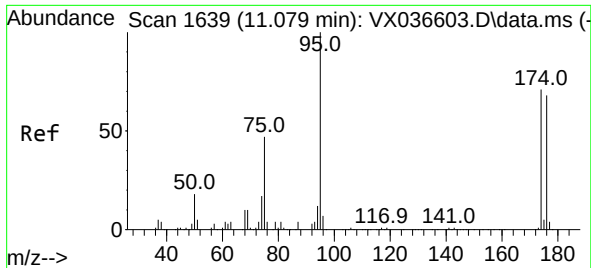
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023



#59
2-Hexanone
Concen: 1.283 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

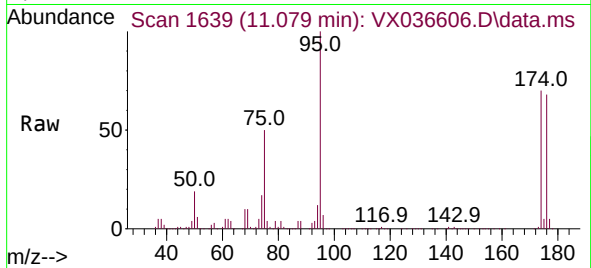
Tgt Ion: 43 Resp: 4953
Ion Ratio Lower Upper
43 100
58 57.6 26.2 78.5





#62
4-Bromofluorobenzene
Concen: 37.492 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

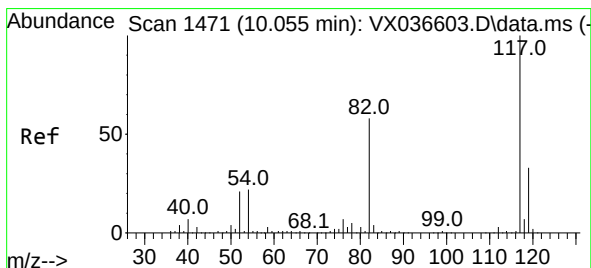
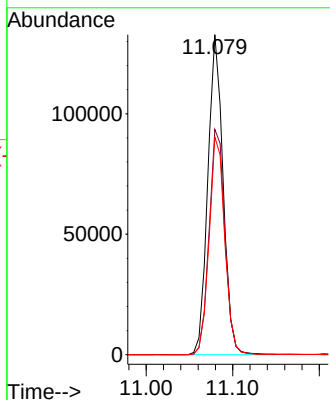
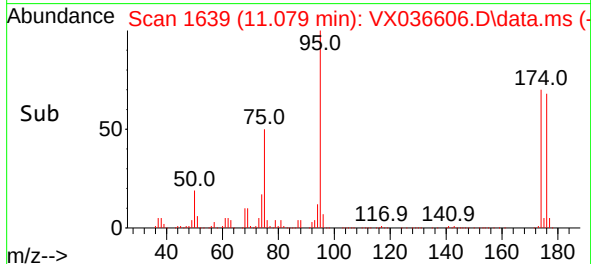
Instrument :
MSVOA_X
ClientSampleId :
IBLK



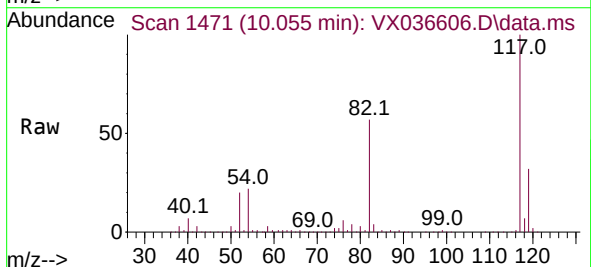
Tgt Ion: 95 Resp: 162385
Ion Ratio Lower Upper
95 100
174 73.1 0.0 135.6
176 69.7 0.0 131.0

Manual Integrations
APPROVED

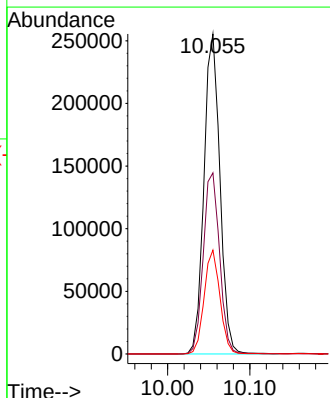
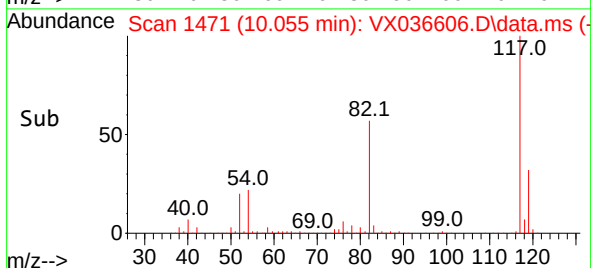
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023

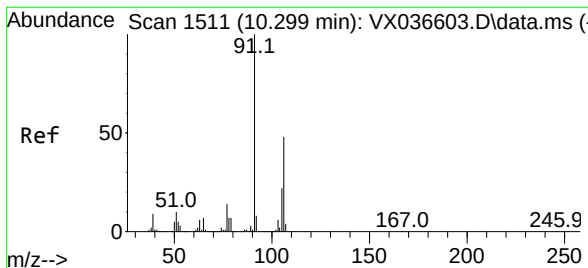


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07



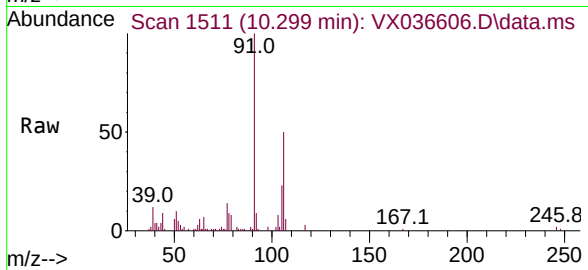
Tgt Ion:117 Resp: 345024
Ion Ratio Lower Upper
117 100
82 56.6 46.2 69.4
119 32.4 25.5 38.3





#68
m/p-Xylenes
Concen: 1.075 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

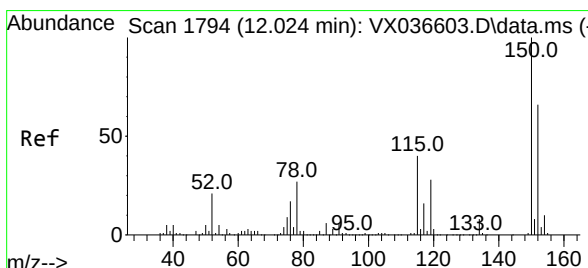
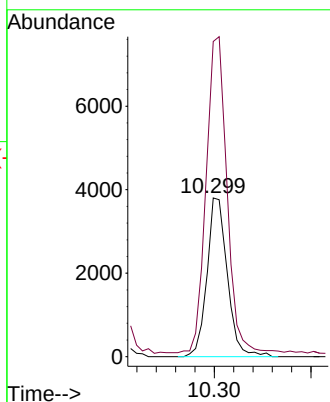
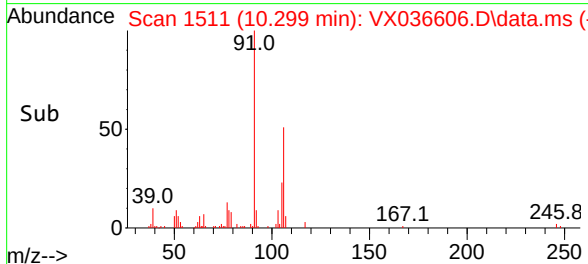
Instrument :
MSVOA_X
ClientSampleId :
IBLK



Tgt Ion:106 Resp: 557
Ion Ratio Lower Upper
106 100
91 205.0 165.5 248.3

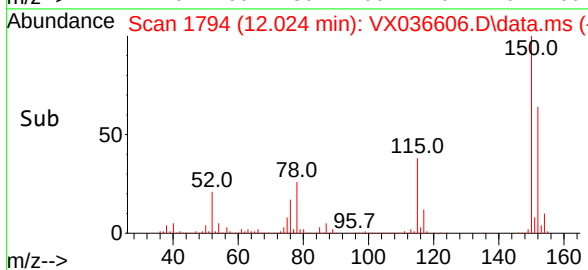
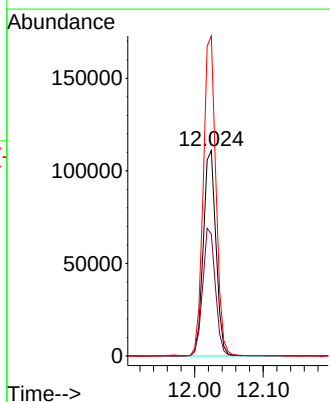
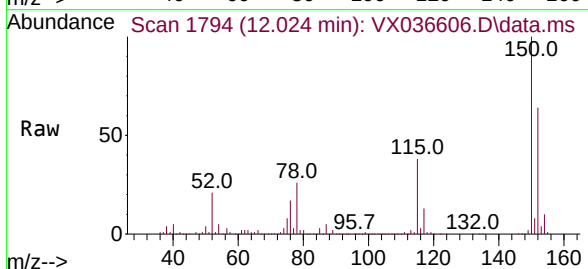
Manual Integrations
APPROVED

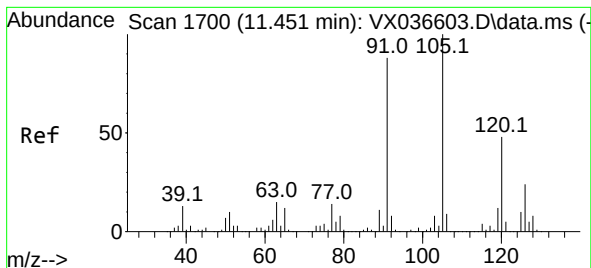
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

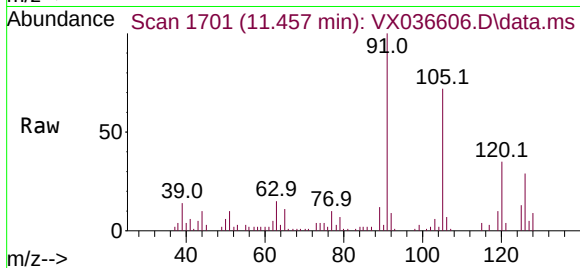
Tgt Ion:152 Resp: 143026
Ion Ratio Lower Upper
152 100
115 62.4 43.3 129.9
150 155.3 0.0 345.0





#82
4-Chlorotoluene
Concen: 0.998 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

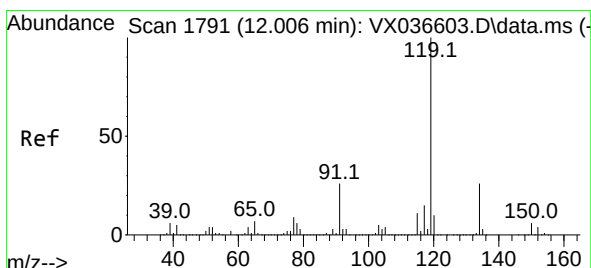
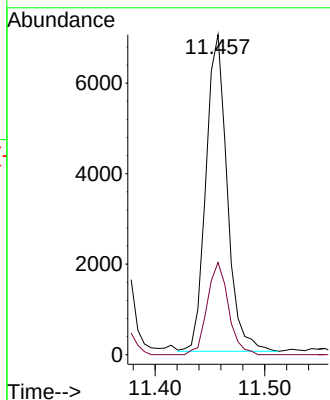
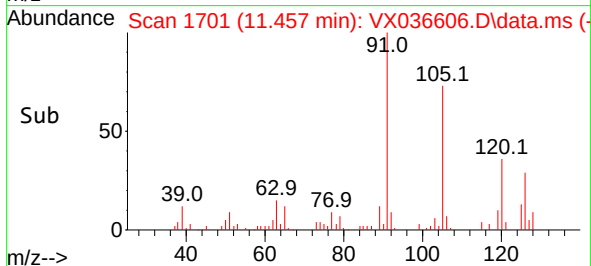
Instrument :
MSVOA_X
ClientSampleId :
IBLK



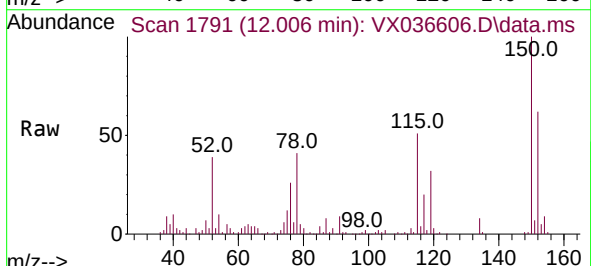
Tgt Ion: 91 Resp: 9434
Ion Ratio Lower Upper
91 100
126 29.0 14.2 42.6

Manual Integrations
APPROVED

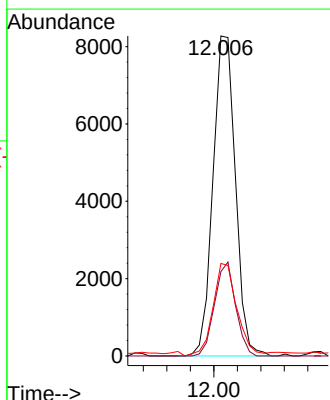
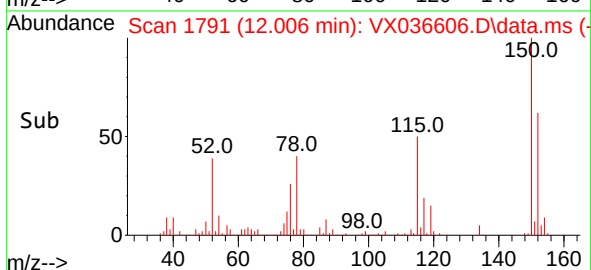
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023

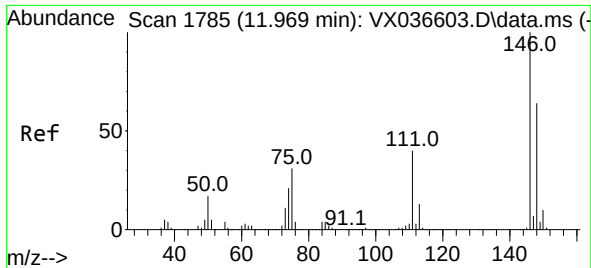


#86
p-Isopropyltoluene
Concen: 1.100 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07



Tgt Ion:119 Resp: 10984
Ion Ratio Lower Upper
119 100
134 27.4 12.8 38.3
91 30.8 13.1 39.3





#87

1,3-Dichlorobenzene

Concen: 1.277 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX036606.D

Acq: 21 Jul 2023 12:07

Instrument :

MSVOA_X

ClientSampleId :

IBLK

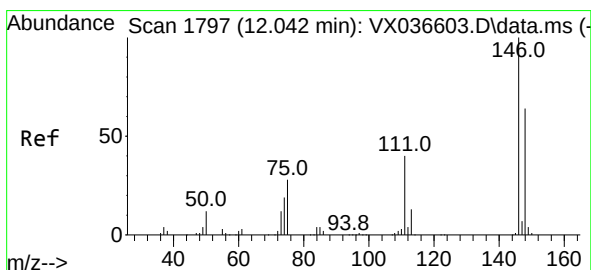
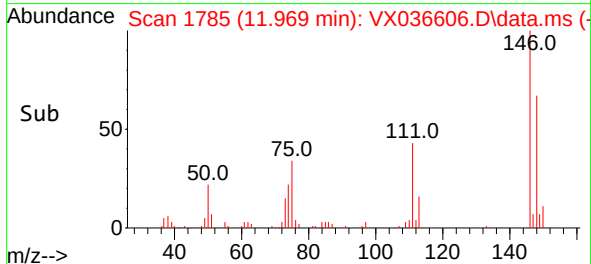
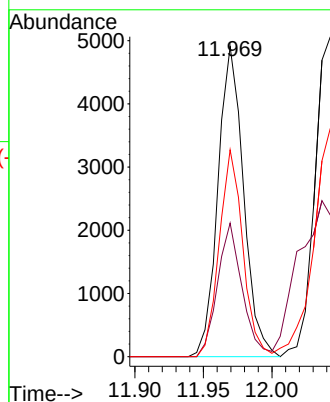
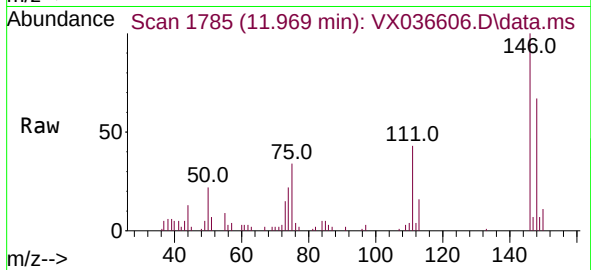
Tgt Ion:146 Resp: 6375
 Ion Ratio Lower Upper
 146 100
 111 41.5 22.1 66.1
 148 61.5 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/24/2023

Supervised By :Mahesh Dadoda 07/24/2023



#88

1,4-Dichlorobenzene

Concen: 1.342 ug/l m

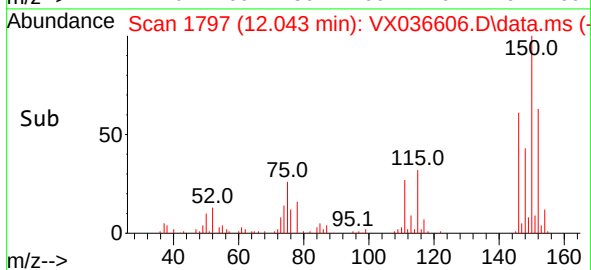
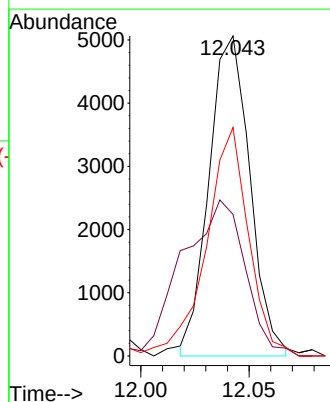
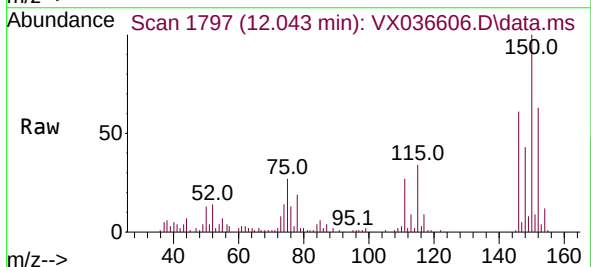
RT: 12.043 min Scan# 1797

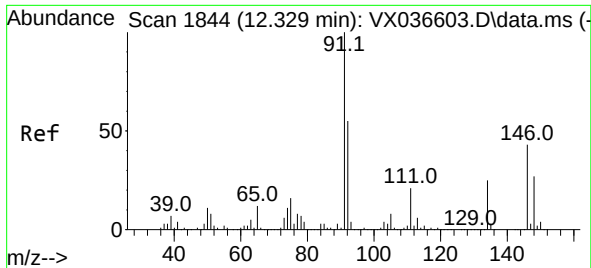
Delta R.T. 0.000 min

Lab File: VX036606.D

Acq: 21 Jul 2023 12:07

Tgt Ion:146 Resp: 6651
 Ion Ratio Lower Upper
 146 100
 111 39.7 21.3 63.7
 148 59.0 31.8 95.4





#89

n-Butylbenzene

Concen: 1.464 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX036606.D

Acq: 21 Jul 2023 12:07

Instrument :

MSVOA_X

ClientSampleId :

IBLK

Tgt Ion: 91 Resp: 1308

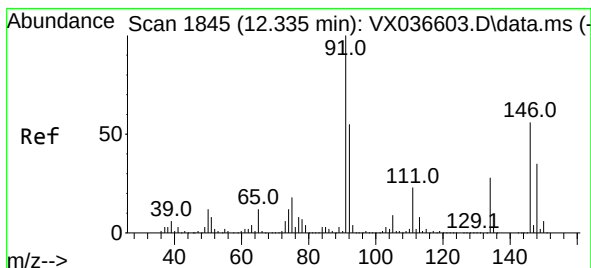
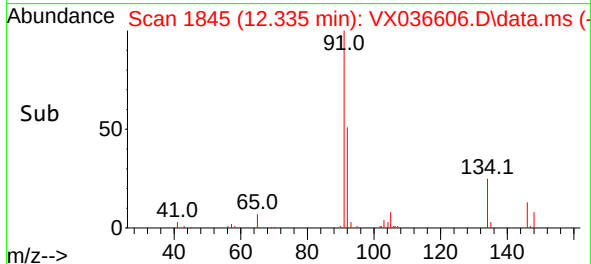
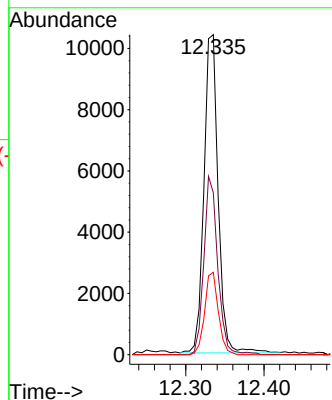
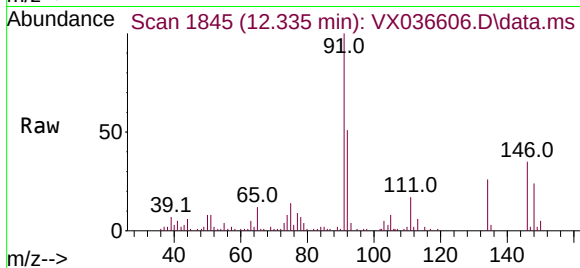
Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.4	82.0
134	24.9	12.6	37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/24/2023

Supervised By :Mahesh Dadoda 07/24/2023



#91

1,2-Dichlorobenzene

Concen: 1.005 ug/l

RT: 12.335 min Scan# 1845

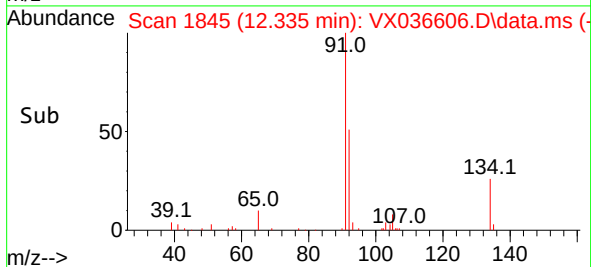
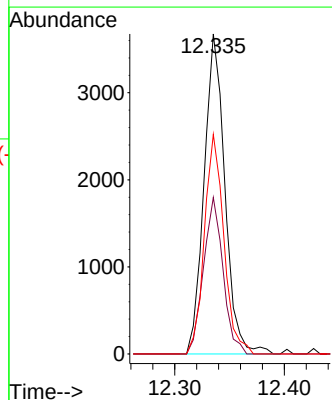
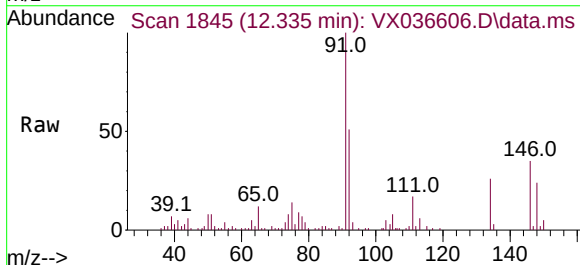
Delta R.T. 0.000 min

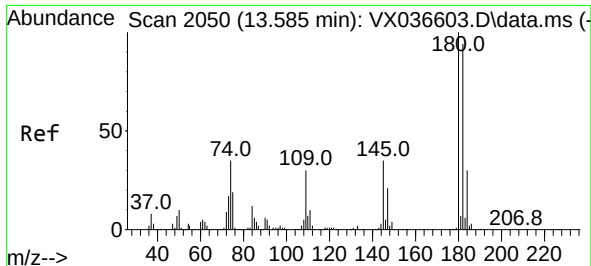
Lab File: VX036606.D

Acq: 21 Jul 2023 12:07

Tgt Ion:146 Resp: 4844

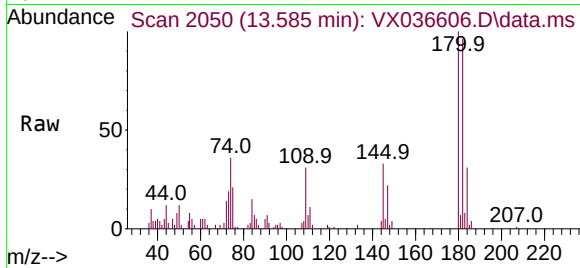
Ion	Ratio	Lower	Upper
146	100		
111	45.9	22.4	67.0
148	64.2	31.6	95.0





#93
1,2,4-Trichlorobenzene
Concen: 2.446 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

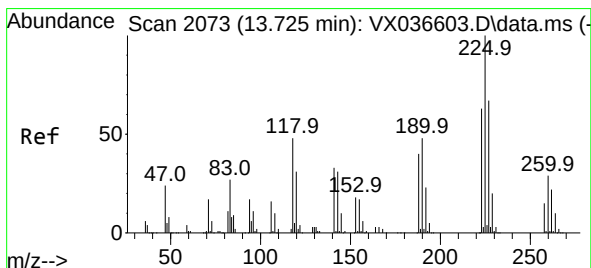
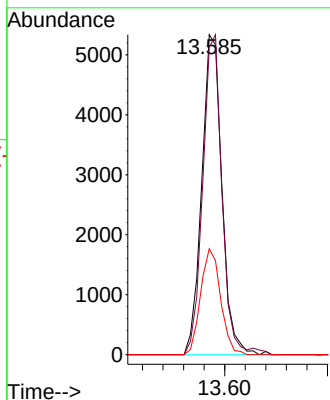
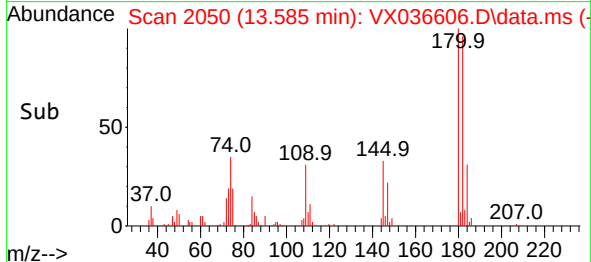
Instrument :
MSVOA_X
ClientSampleId :
IBLK



Tgt Ion:180 Resp: 7259
Ion Ratio Lower Upper
180 100
182 95.5 48.3 144.8
145 32.8 18.0 54.0

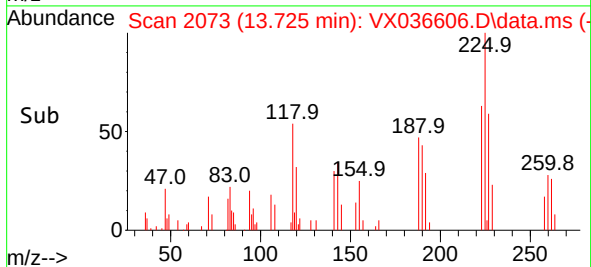
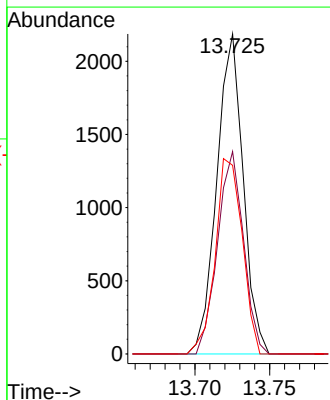
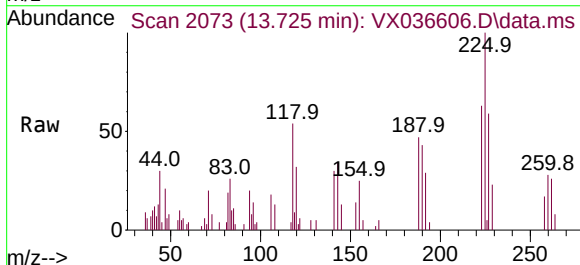
Manual Integrations
APPROVED

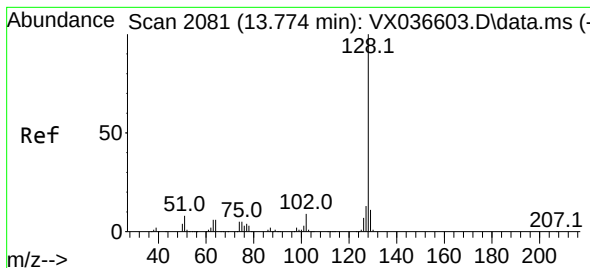
Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023



#94
Hexachlorobutadiene
Concen: 2.182 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

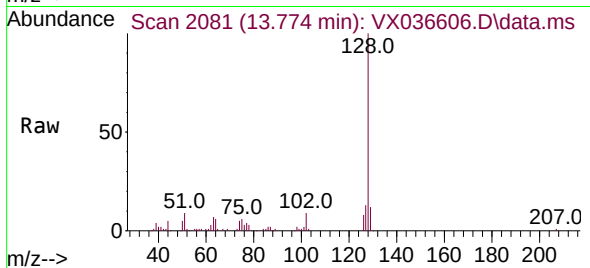
Tgt Ion:225 Resp: 2679
Ion Ratio Lower Upper
225 100
223 62.1 31.1 93.2
227 62.4 32.5 97.5





#95
Naphthalene
Concen: 2.092 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

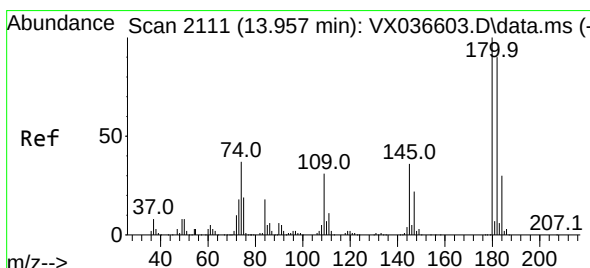
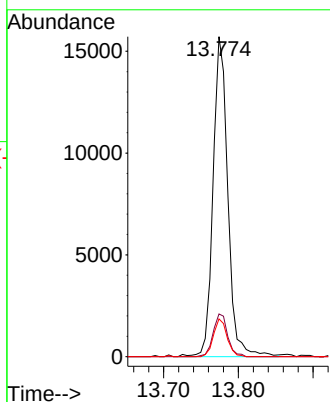
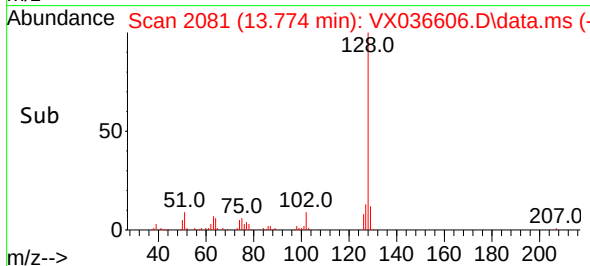
Instrument :
MSVOA_X
ClientSampleId :
IBLK



Tgt Ion:128 Resp: 2164
Ion Ratio Lower Upper
128 100
127 13.1 10.3 15.5
129 10.9 8.8 13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/24/2023
Supervised By :Mahesh Dadoda 07/24/2023



#96
1,2,3-Trichlorobenzene
Concen: 2.671 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX036606.D
Acq: 21 Jul 2023 12:07

Tgt Ion:180 Resp: 7814
Ion Ratio Lower Upper
180 100
182 90.6 46.9 140.6
145 33.0 17.8 53.5

