

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040764.D
 Acq On : 11 Oct 2023 20:26
 Operator : SY/MD
 Sample : QC100423 CAN 10410
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC100423 CAN 10410

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/13/2023
 Supervised By :Mahesh Dadoda 10/16/2023

Quant Time: Oct 12 00:28:26 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	1018633	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2889276	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2632823	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1964258	10.139	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
8) Dichlorotetrafluoroethane	2.890	85	10471	0.077	ppbv	89
9) Propene	2.732	41	6407	0.115	ppbv	92
11) Trichlorofluoromethane	3.594	101	10047	0.073	ppbv #	76
14) Bromoethene	3.398	108	2478	0.059	ppbv #	48
16) 1,3-Butadiene	3.021	39	4304	0.078	ppbv	96
18) 1,1-Dichloroethene	3.899	96	1722	0.039	ppbv #	62
20) Methylene Chloride	3.960	84	11552	0.263	ppbv #	89
24) 1,1-Dichloroethane	4.584	63	5629	0.056	ppbv #	75
25) Ethyl Acetate	5.240	43	23579m	0.102	ppbv	
26) Hexane	5.234	57	15058	0.143	ppbv #	76
35) Carbon Tetrachloride	6.507	117	11181m	0.069	ppbv	
36) Benzene	6.388	78	15687m	0.071	ppbv	
38) Trichloroethene	7.304	130	6726m	0.068	ppbv	
44) 2,2,4-Trimethylpentane	7.336	57	22571	0.060	ppbv #	82
52) Tetrachloroethene	10.632	164	7273m	0.081	ppbv	
53) Toluene	9.227	91	19712m	0.075	ppbv	
59) m/p-Xylene	12.381	91	42955m	0.157	ppbv	
62) Isopropylbenzene	14.037	105	32986m	0.082	ppbv	
71) 2-Chlorotoluene	14.815	91	25590m	0.085	ppbv	

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

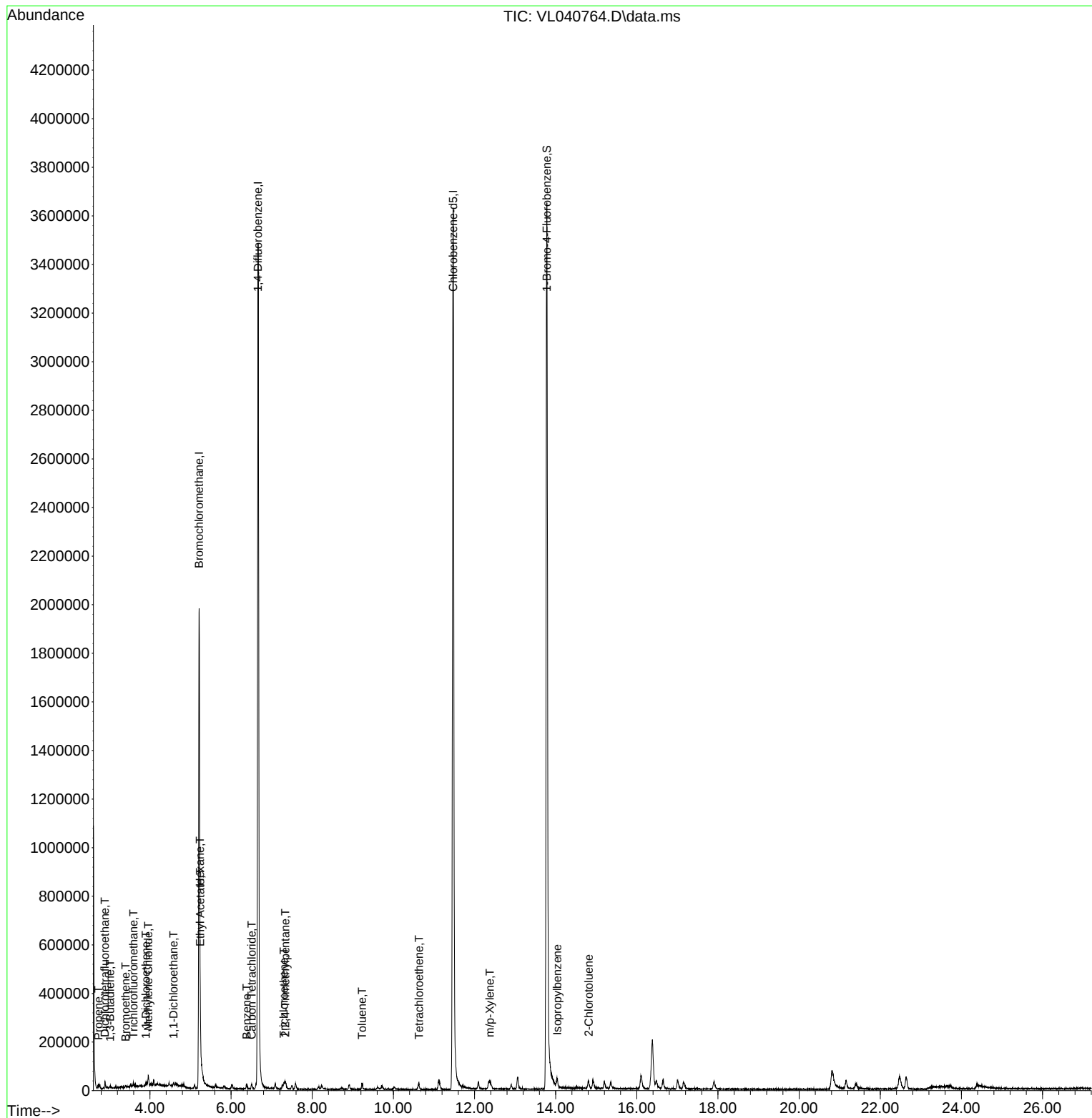
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
Data File : VL040764.D
Acq On : 11 Oct 2023 20:26
Operator : SY/MD
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

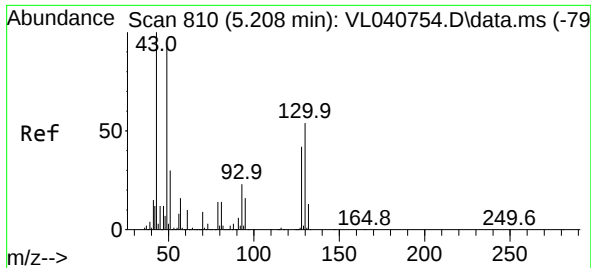
Instrument :
MSVOA_L
ClientSampleId :
QC100423 CAN 10410

Quant Time: Oct 12 00:28:26 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

Manual Integrations
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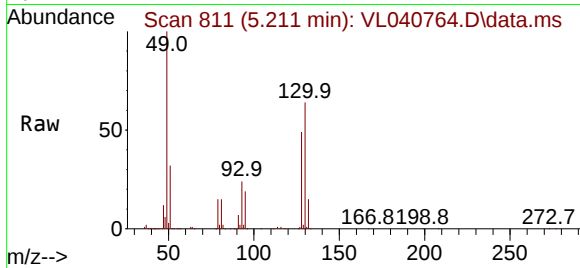
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

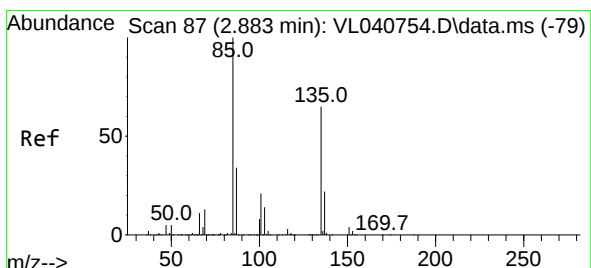
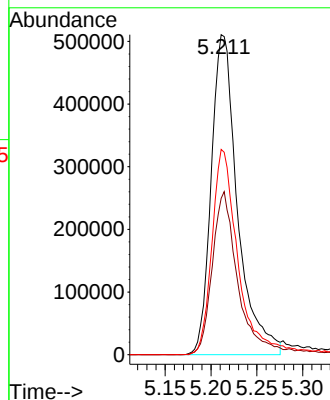
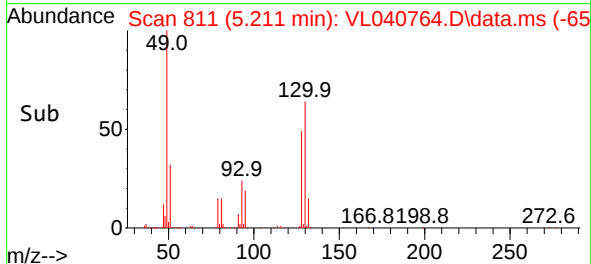
Instrument :
MSVOA_L
ClientSampleId :
QC100423 CAN 10410



Tgt Ion: 49 Resp: 101863
Ion Ratio Lower Upper
49 100
128 51.8 23.9 71.7
130 65.0 30.7 92.1

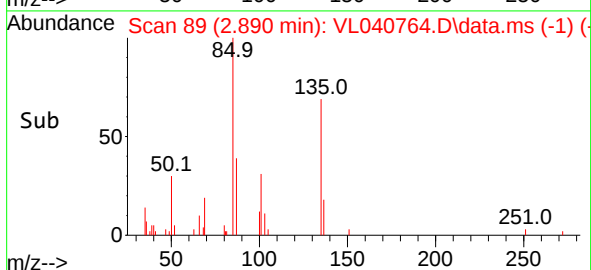
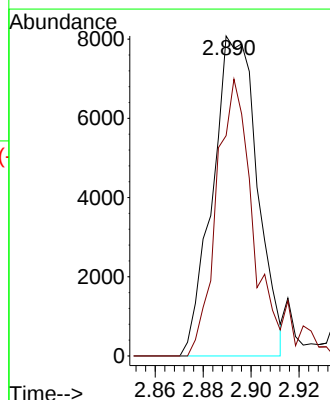
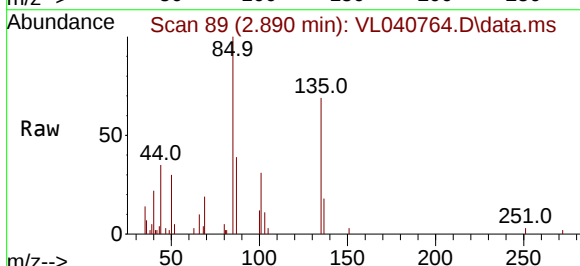
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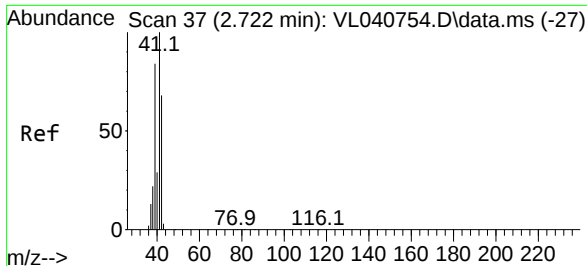
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#8
Dichlorotetrafluoroethane
Concen: 0.077 ppbv
RT: 2.890 min Scan# 89
Delta R.T. 0.006 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

Tgt Ion: 85 Resp: 10471
Ion Ratio Lower Upper
85 100
135 78.3 55.4 83.2





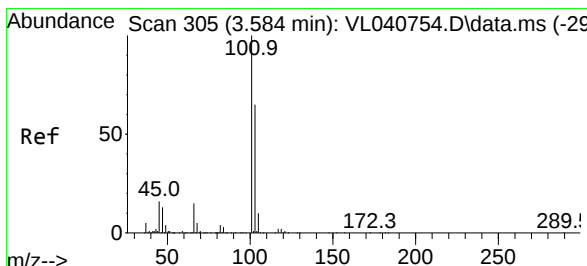
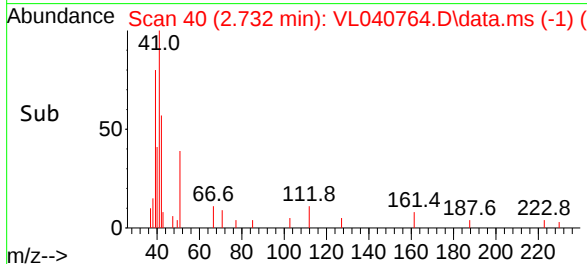
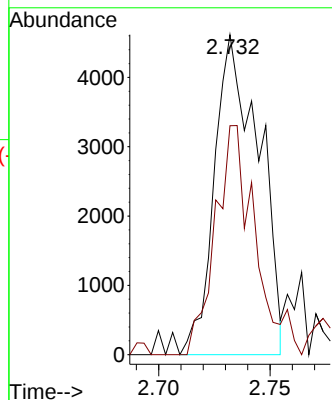
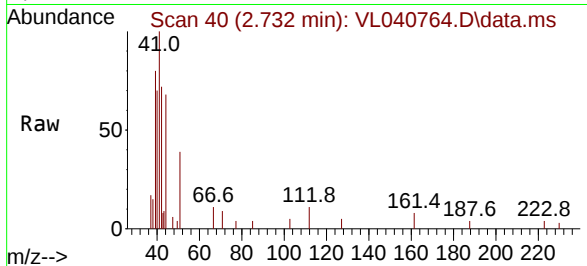
#9
Propene
Concen: 0.115 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.010 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

Instrument :
MSVOA_L
ClientSampleId :
QC100423 CAN 10410

Tgt Ion: 41 Resp: 640
Ion Ratio Lower Upper
41 100
42 64.6 57.1 85.7

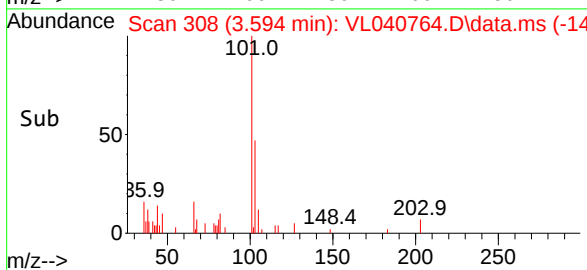
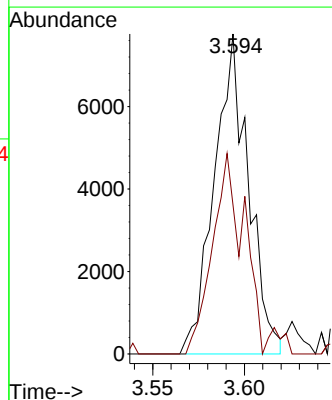
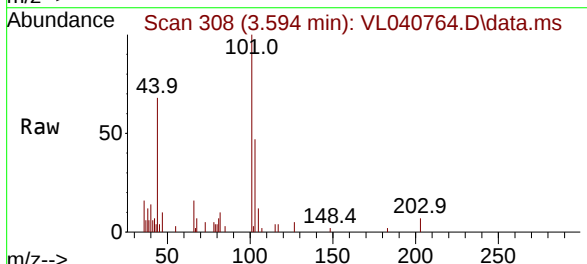
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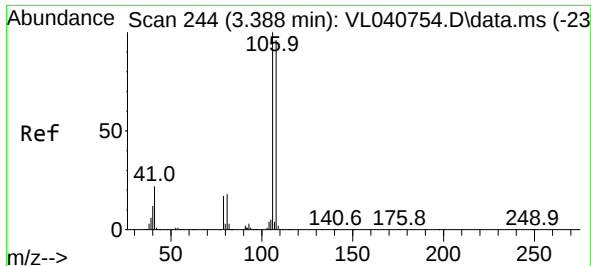
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#11
Trichlorofluoromethane
Concen: 0.073 ppbv
RT: 3.594 min Scan# 308
Delta R.T. 0.010 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

Tgt Ion:101 Resp: 10047
Ion Ratio Lower Upper
101 100
103 46.6 52.2 78.2#





#14

Bromoethene

Concen: 0.059 ppbv

RT: 3.398 min Scan# 247

Delta R.T. 0.010 min

Lab File: VL040764.D

Acq: 11 Oct 2023 20:26

Instrument :

MSVOA_L

ClientSampleId :

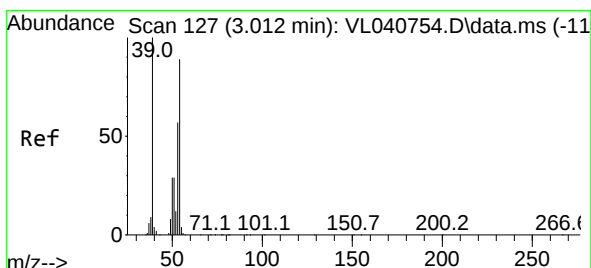
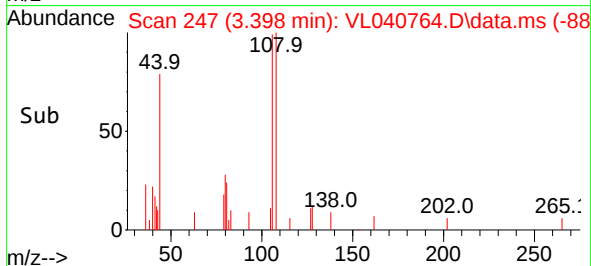
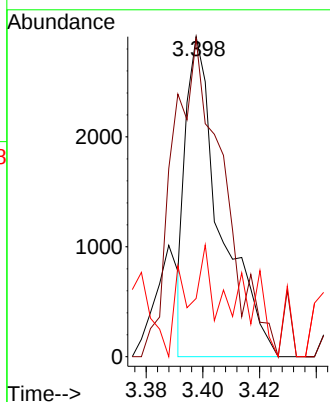
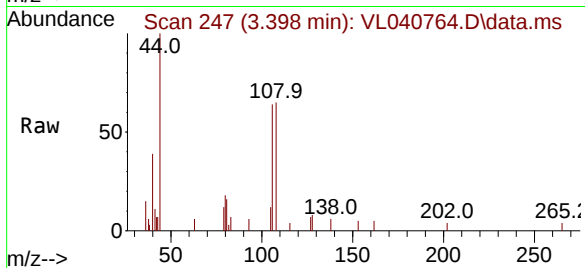
QC100423 CAN 10410

Tgt Ion:108 Resp: 2478
 Ion Ratio Lower Upper
 108 100
 106 151.2 85.2 127.8
 79 65.3 15.7 23.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/13/2023
 Supervised By :Mahesh Dadoda 10/16/2023



#16

1,3-Butadiene

Concen: 0.078 ppbv

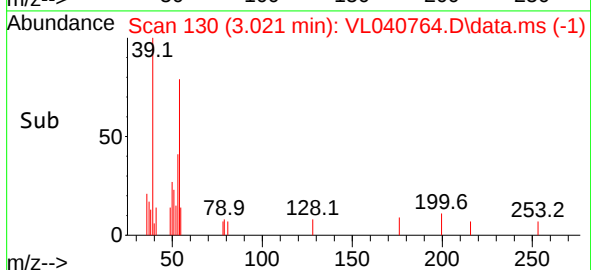
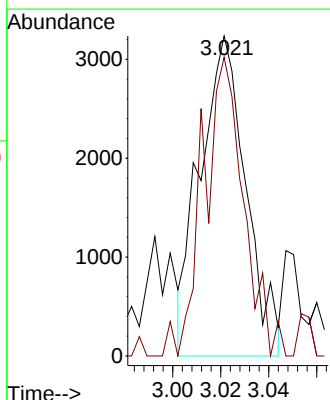
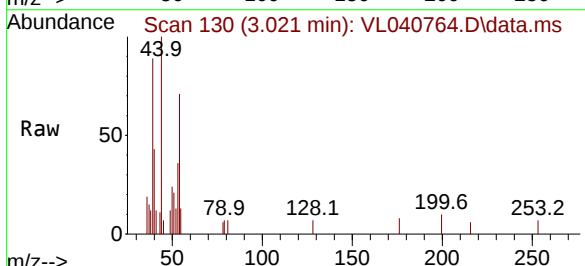
RT: 3.021 min Scan# 130

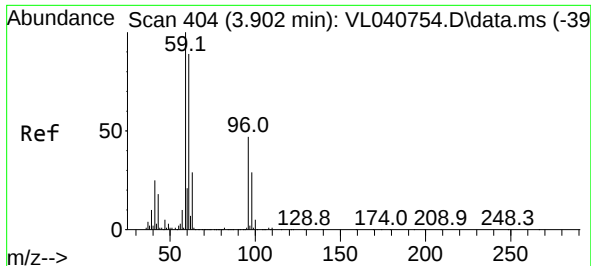
Delta R.T. 0.010 min

Lab File: VL040764.D

Acq: 11 Oct 2023 20:26

Tgt Ion: 39 Resp: 4304
 Ion Ratio Lower Upper
 39 100
 54 82.5 63.0 94.6





#18

1,1-Dichloroethene

Concen: 0.039 ppbv

RT: 3.899 min Scan# 404

Delta R.T. -0.003 min

Lab File: VL040764.D

Acq: 11 Oct 2023 20:26

Instrument :

MSVOA_L

ClientSampleId :

QC100423 CAN 10410

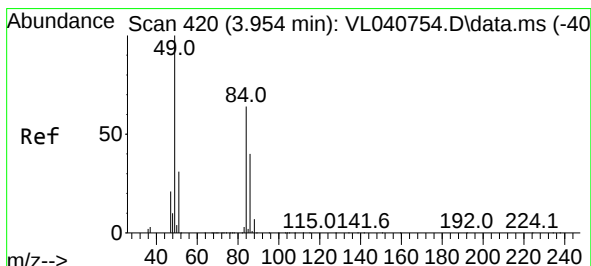
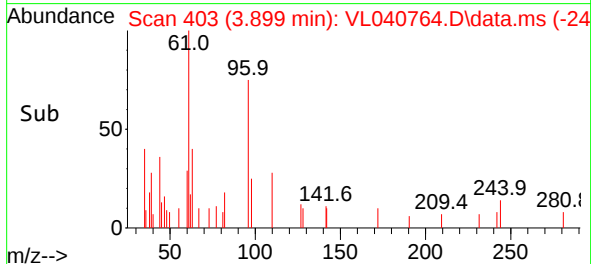
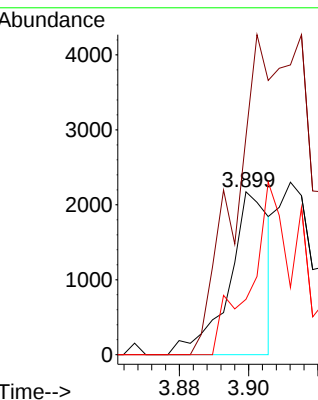
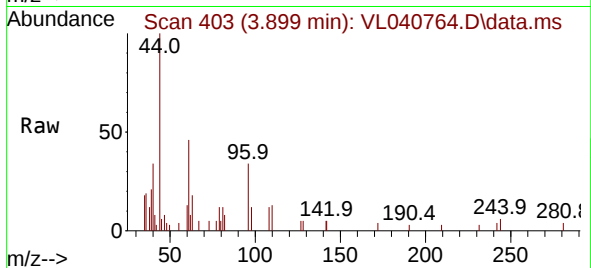
Tgt Ion: 96 Resp: 172

Ion	Ratio	Lower	Upper
96	100		
61	133.9	152.5	228.7
98	33.9	49.6	74.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#20

Methylene Chloride

Concen: 0.263 ppbv

RT: 3.960 min Scan# 422

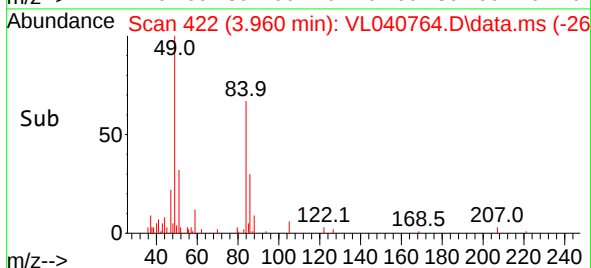
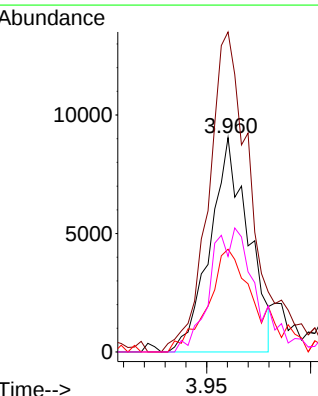
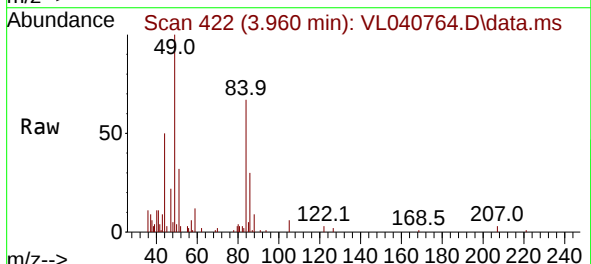
Delta R.T. 0.006 min

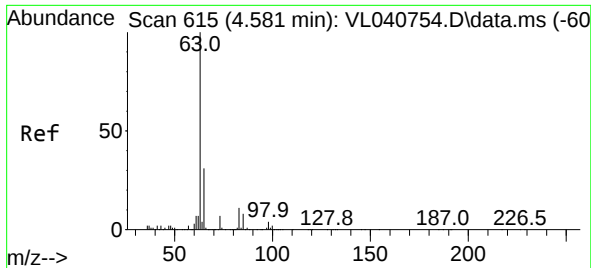
Lab File: VL040764.D

Acq: 11 Oct 2023 20:26

Tgt Ion: 84 Resp: 11552

Ion	Ratio	Lower	Upper
84	100		
49	145.4	125.6	188.4
51	47.9	38.9	58.3
86	44.5	50.6	76.0





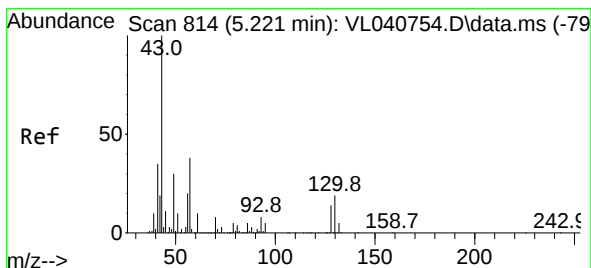
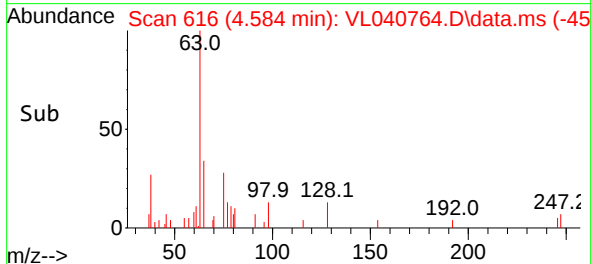
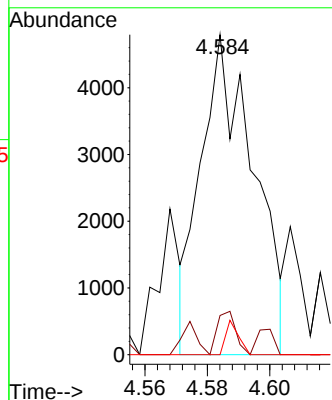
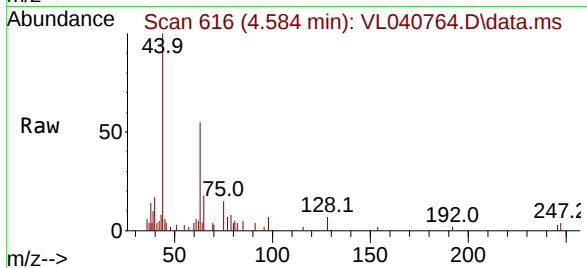
#24
1,1-Dichloroethane
Concen: 0.056 ppbv
RT: 4.584 min Scan# 615
Delta R.T. 0.003 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

Instrument :
MSVOA_L
ClientSampleId :
QC100423 CAN 10410

Tgt Ion: 63 Resp: 5629
Ion Ratio Lower Upper
63 100
98 16.1 2.0 5.8#
100 0.0 1.3 3.8#

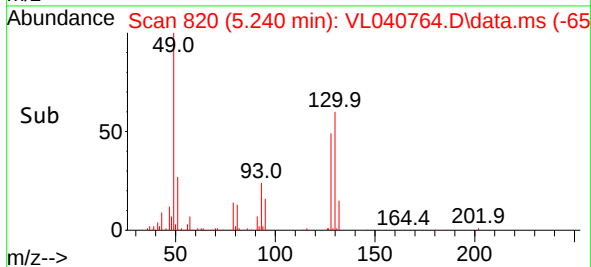
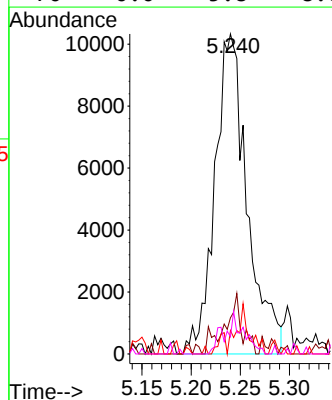
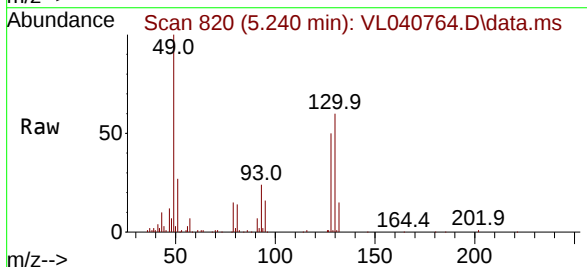
Manual Integrations
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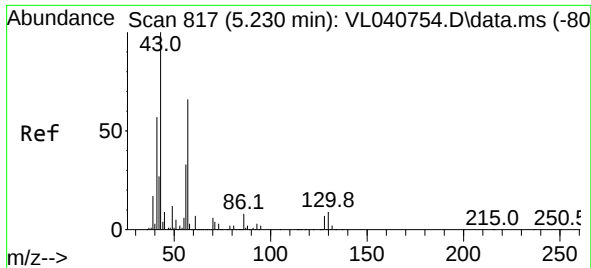
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#25
Ethyl Acetate
Concen: 0.102 ppbv m
RT: 5.240 min Scan# 820
Delta R.T. 0.019 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

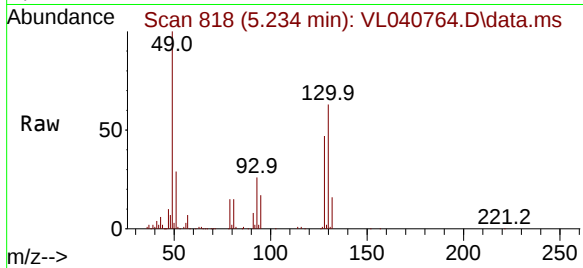
Tgt Ion: 43 Resp: 23579
Ion Ratio Lower Upper
43 100
45 0.0 8.2 12.4#
61 0.0 8.2 12.2#
70 0.0 5.8 8.6#





#26
Hexane
Concen: 0.143 ppbv
RT: 5.234 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

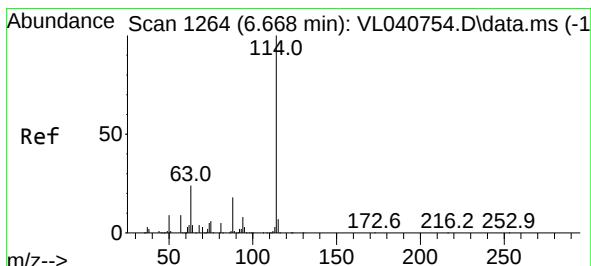
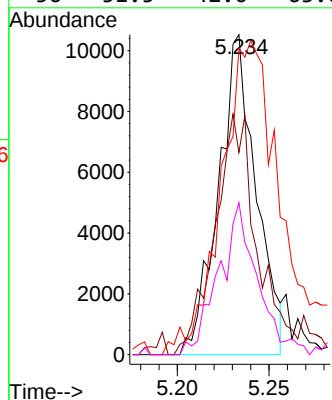
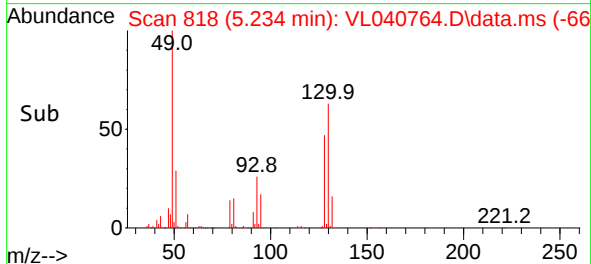
Instrument :
MSVOA_L
ClientSampleId :
QC100423 CAN 10410



Tgt Ion: 57 Resp: 1505
Ion Ratio Lower Upper
57 100
41 94.4 71.4 107.2
43 167.0 182.3 273.5
56 51.5 42.0 63.0

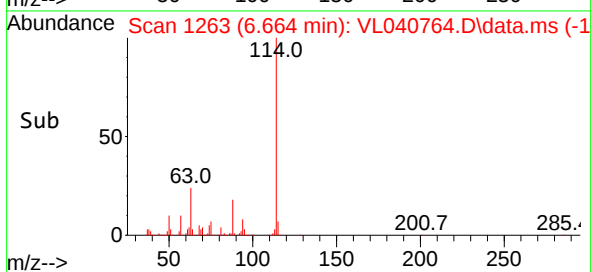
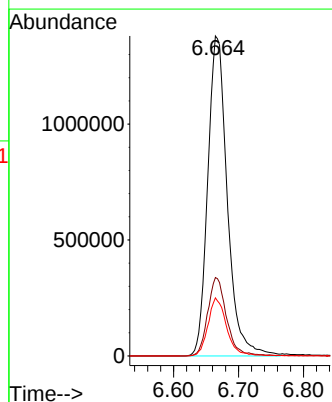
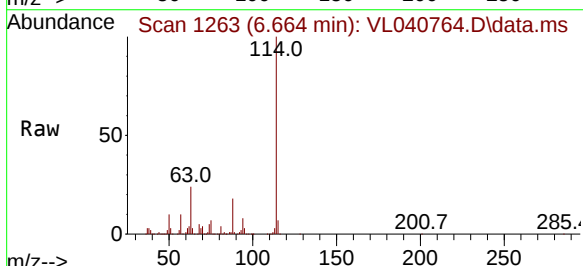
Manual Integrations
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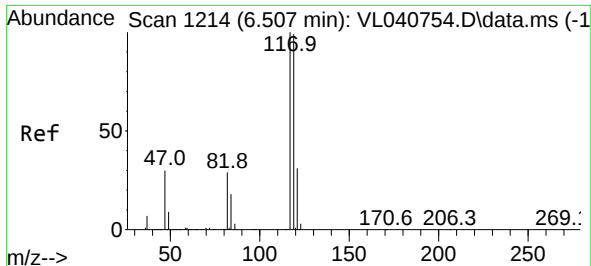
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. -0.003 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

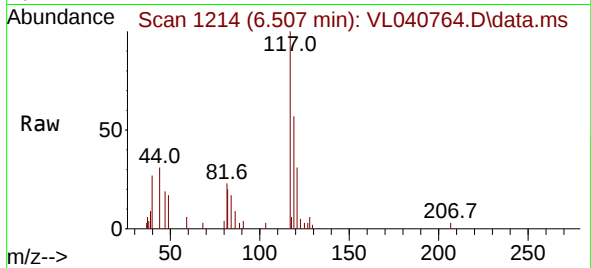
Tgt Ion:114 Resp: 2889276
Ion Ratio Lower Upper
114 100
63 23.8 19.8 29.6
88 17.4 14.2 21.2





#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 6.507 min Scan# 1118
Delta R.T. 0.000 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

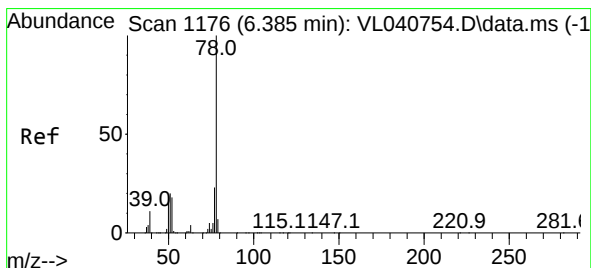
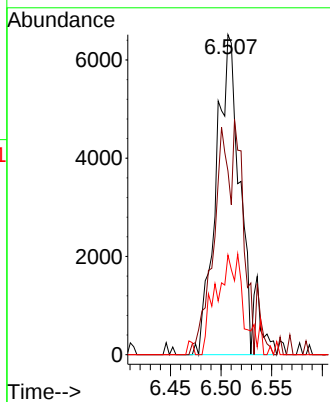
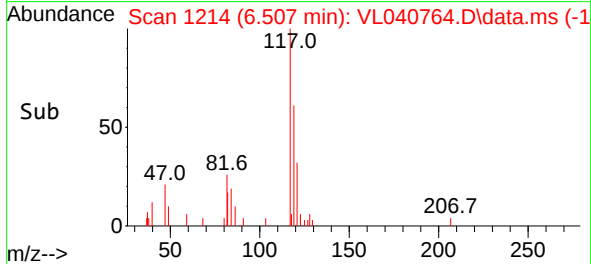
Instrument : MSVOA_L
ClientSampleId : QC100423 CAN 10410



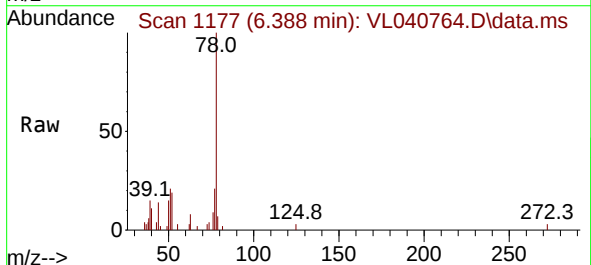
Tgt Ion: 117 Resp: 1118
Ion Ratio Lower Upper
117 100
119 57.4 79.4 119.0
121 31.1 25.0 37.4

Manual Integrations
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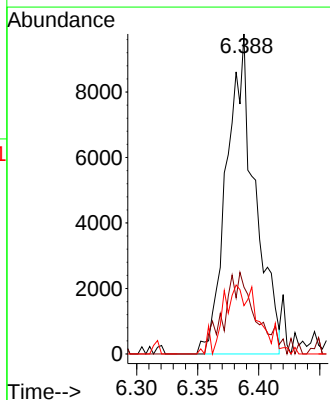
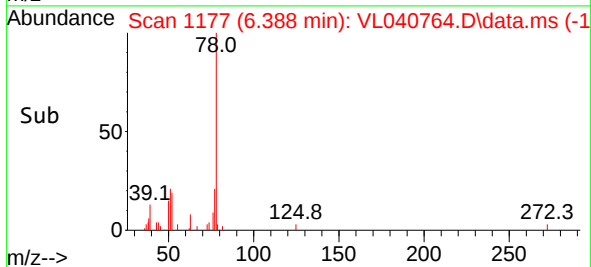
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023

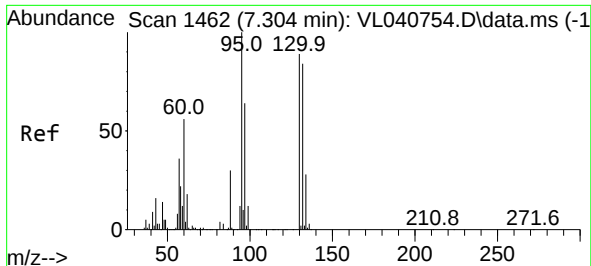


#36
Benzene
Concen: 0.071 ppbv m
RT: 6.388 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26



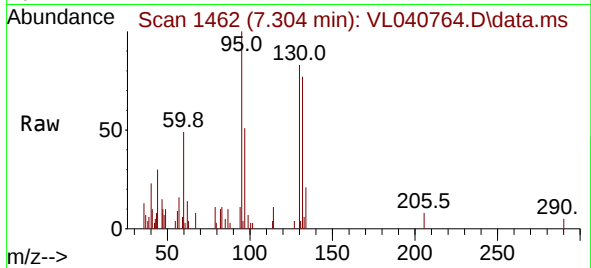
Tgt Ion: 78 Resp: 15687
Ion Ratio Lower Upper
78 100
77 20.9 18.4 27.6
50 15.1 15.0 22.4





#38
 Trichloroethene
 Concen: 0.068 ppbv m
 RT: 7.304 min Scan# 1462
 Delta R.T. 0.000 min
 Lab File: VL040764.D
 Acq: 11 Oct 2023 20:26

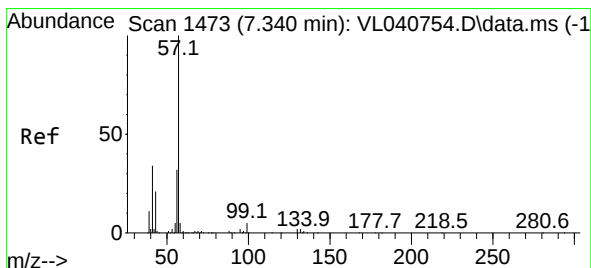
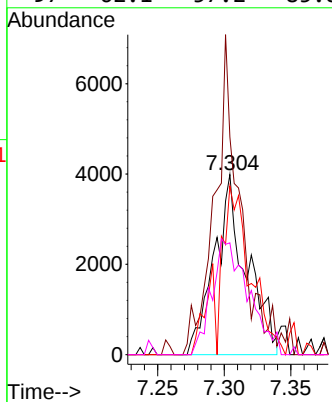
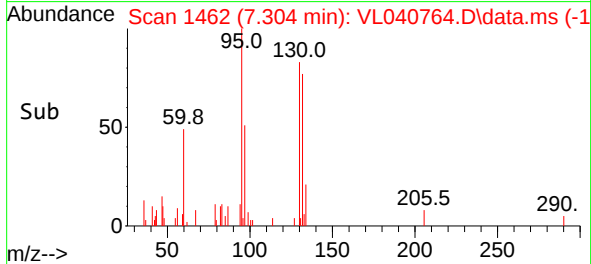
Instrument : MSVOA_L
 ClientSampleId : QC100423 CAN 10410



Tgt Ion:130 Resp: 6720
 Ion Ratio Lower Upper
 130 100
 95 120.9 89.4 134.2
 132 93.6 74.8 112.2
 97 62.1 57.2 85.8

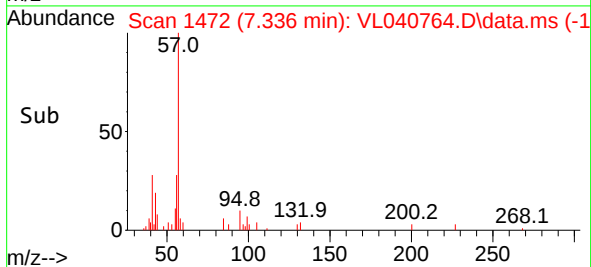
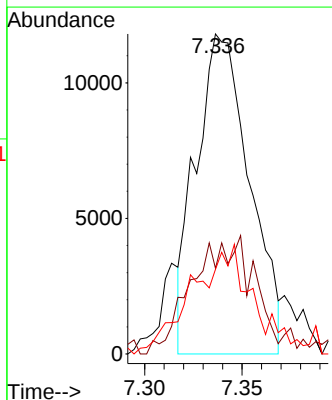
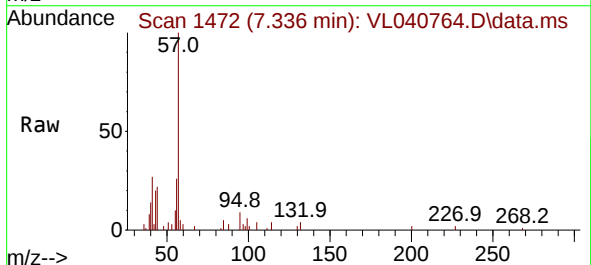
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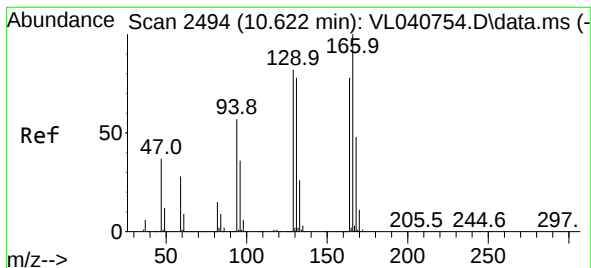
Reviewed By :Semsettin Yesilyurt 10/13/2023
 Supervised By :Mahesh Dadoda 10/16/2023



#44
 2,2,4-Trimethylpentane
 Concen: 0.060 ppbv
 RT: 7.336 min Scan# 1472
 Delta R.T. -0.003 min
 Lab File: VL040764.D
 Acq: 11 Oct 2023 20:26

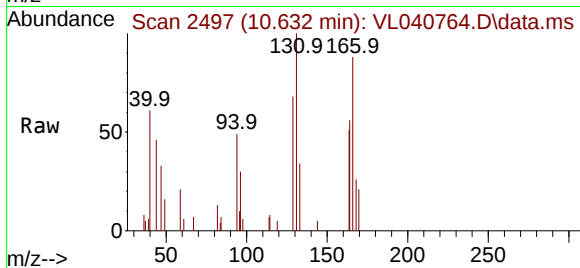
Tgt Ion: 57 Resp: 22571
 Ion Ratio Lower Upper
 57 100
 41 45.2 27.4 41.0#
 56 40.5 25.0 37.6#





#52
Tetrachloroethene
Concen: 0.081 ppbv m
RT: 10.632 min Scan# 2497
Delta R.T. 0.010 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

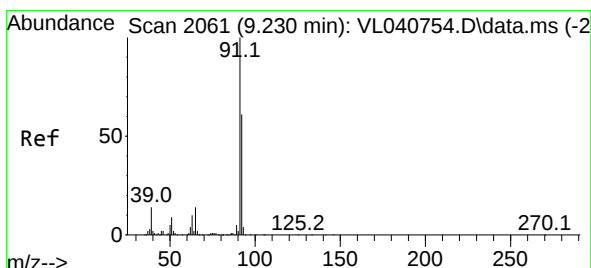
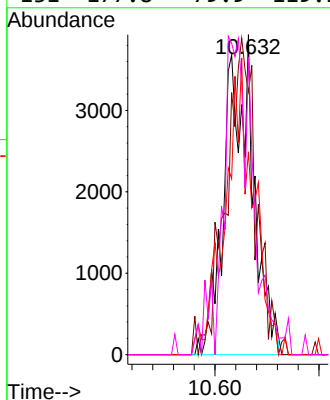
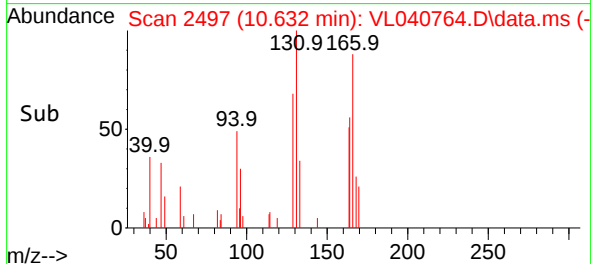
Instrument :
MSVOA_L
ClientSampleId :
QC100423 CAN 10410



Tgt Ion:164 Resp: 727
Ion Ratio Lower Upper
164 100
166 157.2 102.4 153.6
129 121.4 84.2 126.4
131 177.8 79.9 119.9#

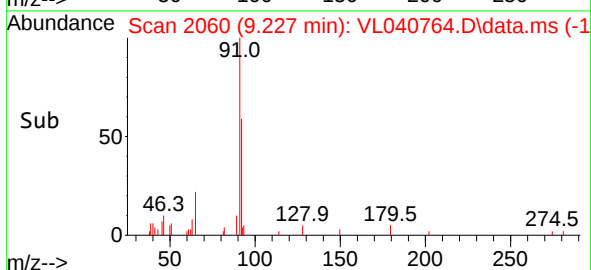
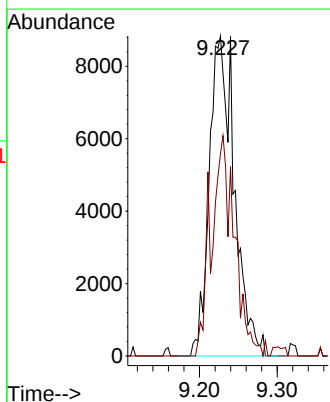
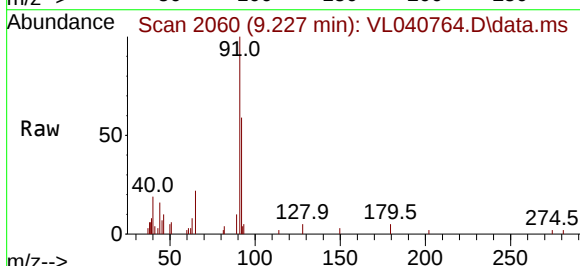
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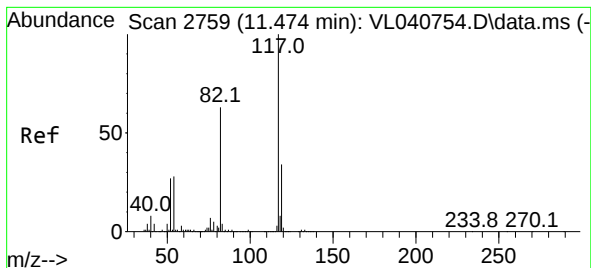
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#53
Toluene
Concen: 0.075 ppbv m
RT: 9.227 min Scan# 2060
Delta R.T. -0.003 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

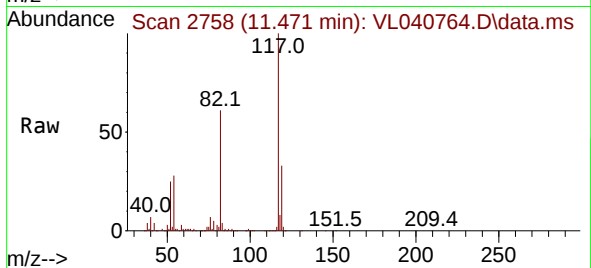
Tgt Ion: 91 Resp: 19712
Ion Ratio Lower Upper
91 100
92 65.9 50.2 75.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

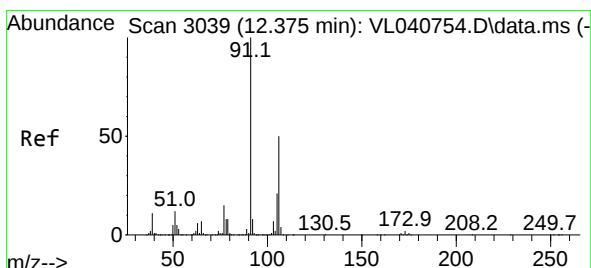
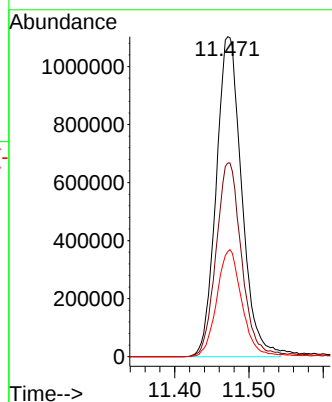
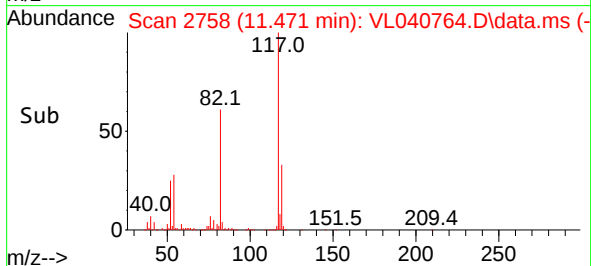
Instrument :
MSVOA_L
ClientSampleId :
QC100423 CAN 10410



Tgt Ion:117 Resp: 263282
Ion Ratio Lower Upper
117 100
82 61.7 46.6 70.0
119 33.7 26.0 39.0

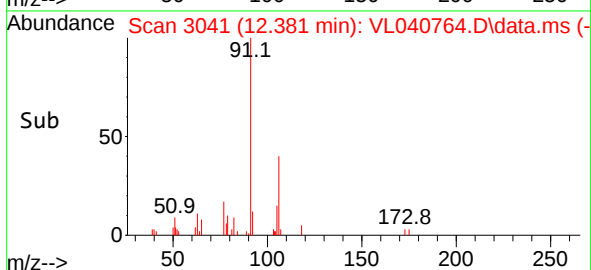
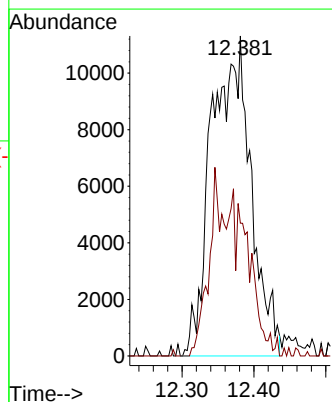
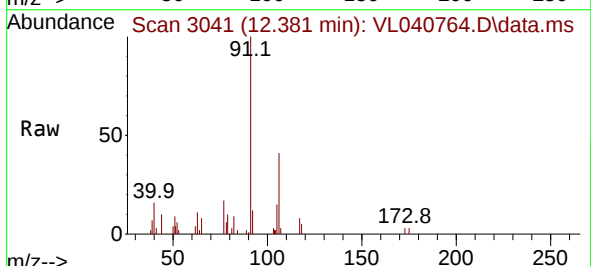
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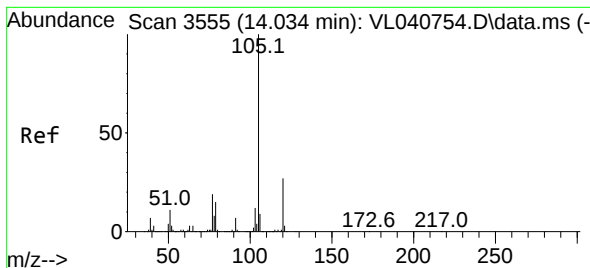
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#59
m/p-Xylene
Concen: 0.157 ppbv m
RT: 12.381 min Scan# 3041
Delta R.T. 0.006 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

Tgt Ion: 91 Resp: 42955
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5#





#62

Isopropylbenzene

Concen: 0.082 ppbv m

RT: 14.037 min Scan# 3555

Delta R.T. 0.003 min

Lab File: VL040764.D

Acq: 11 Oct 2023 20:26

Instrument :

MSVOA_L

ClientSampleId :

QC100423 CAN 10410

Tgt Ion:105 Resp: 32980

Ion Ratio Lower Upper

105 100

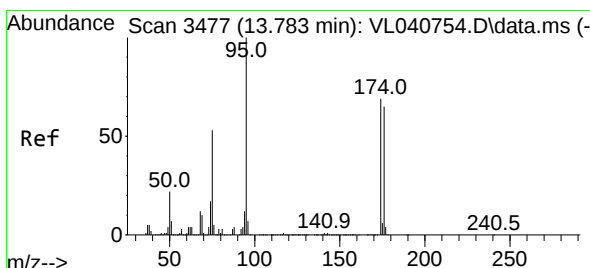
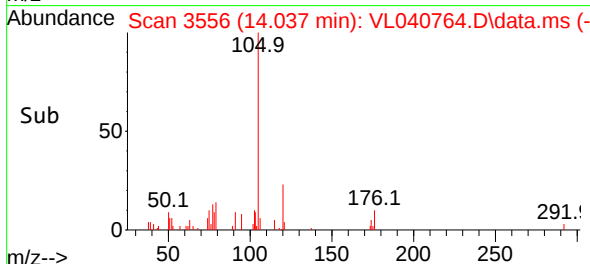
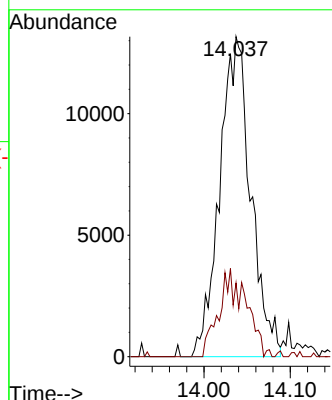
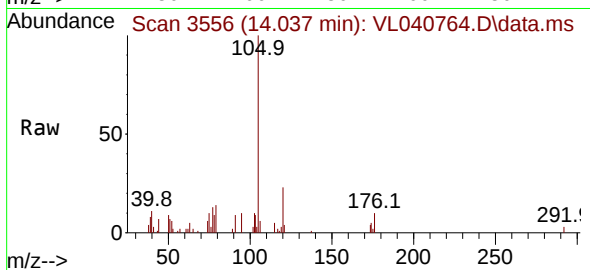
120 24.1 21.5 32.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/13/2023

Supervised By :Mahesh Dadoda 10/16/2023



#68

1-Bromo-4-Fluorobenzene

Concen: 10.139 ppbv

RT: 13.783 min Scan# 3477

Delta R.T. 0.000 min

Lab File: VL040764.D

Acq: 11 Oct 2023 20:26

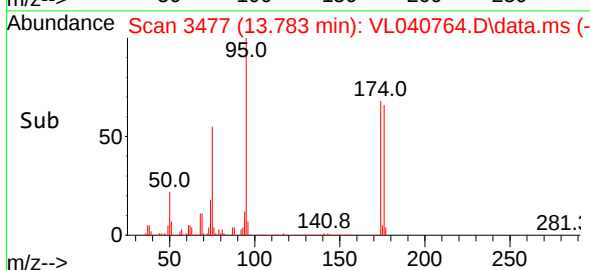
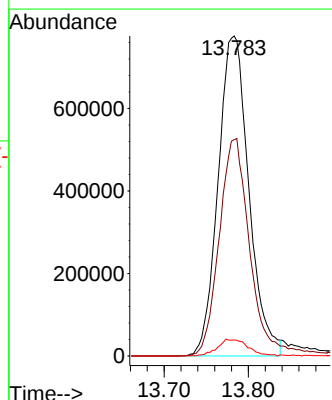
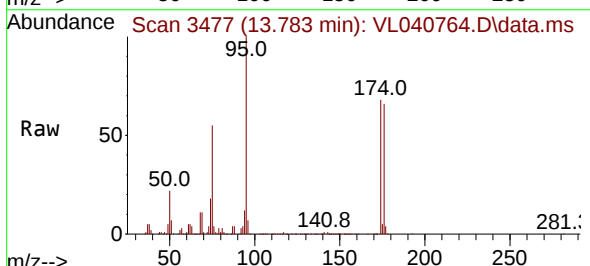
Tgt Ion: 95 Resp: 1964258

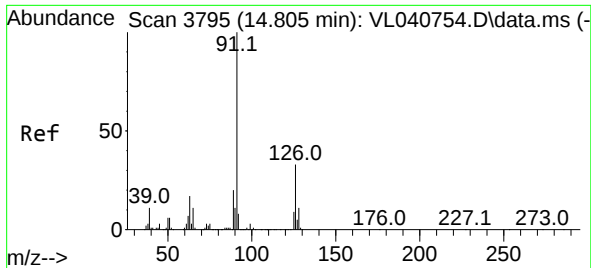
Ion Ratio Lower Upper

95 100

174 70.0 54.7 82.1

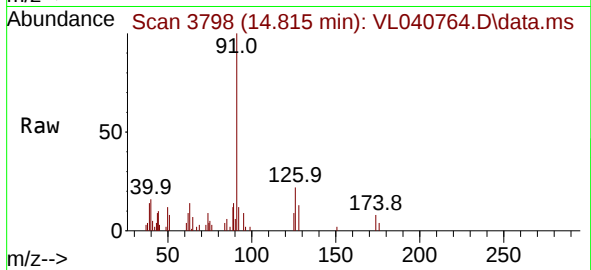
175 5.4 4.2 6.4





#71
2-Chlorotoluene
Concen: 0.085 ppbv m
RT: 14.815 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL040764.D
Acq: 11 Oct 2023 20:26

Instrument :
MSVOA_L
ClientSampleId :
QC100423 CAN 10410



Tgt Ion: 91 Resp: 25590
Ion Ratio Lower Upper
91 100
126 33.4 13.3 53.1

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Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023

