

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
 Data File : VL040554.D
 Acq On : 27 Jul 2023 00:02
 Operator : SY/MD
 Sample : 03730-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-22-20230721

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/27/2023
 Supervised By :Mahesh Dadoda 07/27/2023

Quant Time: Jul 27 01:53:18 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1150896	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	3085171	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.452	117	2753065	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2154347	9.887	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.710	85	84832	0.368	ppbv	96
4) Chloromethane	2.797	50	10695m	0.148	ppbv	
9) Propene	2.674	41	957632	15.334	ppbv	93
10) Heptane	7.571	43	106979m	0.776	ppbv	
11) Trichlorofluoromethane	3.549	101	24165	0.130	ppbv	88
13) Ethanol	3.227	45	130832	9.629	ppbv	100
15) Acetone	3.443	43	8681898	65.535	ppbv #	89
17) tert-Butyl alcohol	3.867	59	174517	1.274	ppbv	100
20) Methylene Chloride	3.915	84	132605	2.353	ppbv	93
26) Hexane	5.195	57	992078	8.467	ppbv #	40
27) Carbon Disulfide	4.108	76	60989	0.443	ppbv #	85
34) 2-Butanone	4.768	43	466075	3.057	ppbv	98
36) Benzene	6.359	78	169310m	0.682	ppbv	
50) 4-Methyl-2-Pentanone	8.189	43	41531m	0.187	ppbv	
52) Tetrachloroethene	10.600	164	11306m	0.141	ppbv	
53) Toluene	9.211	91	126328	0.468	ppbv	98
58) Ethyl Benzene	12.082	91	34058	0.099	ppbv	89
59) m/p-Xylene	12.330	91	91668m	0.297	ppbv	
60) o-Xylene	13.050	91	45241	0.154	ppbv	92
74) 1,2,4-Trimethylbenzene	16.095	105	83403	0.236	ppbv #	66
75) 1,3-Dichlorobenzene	16.317	146	52792	0.246	ppbv #	65

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

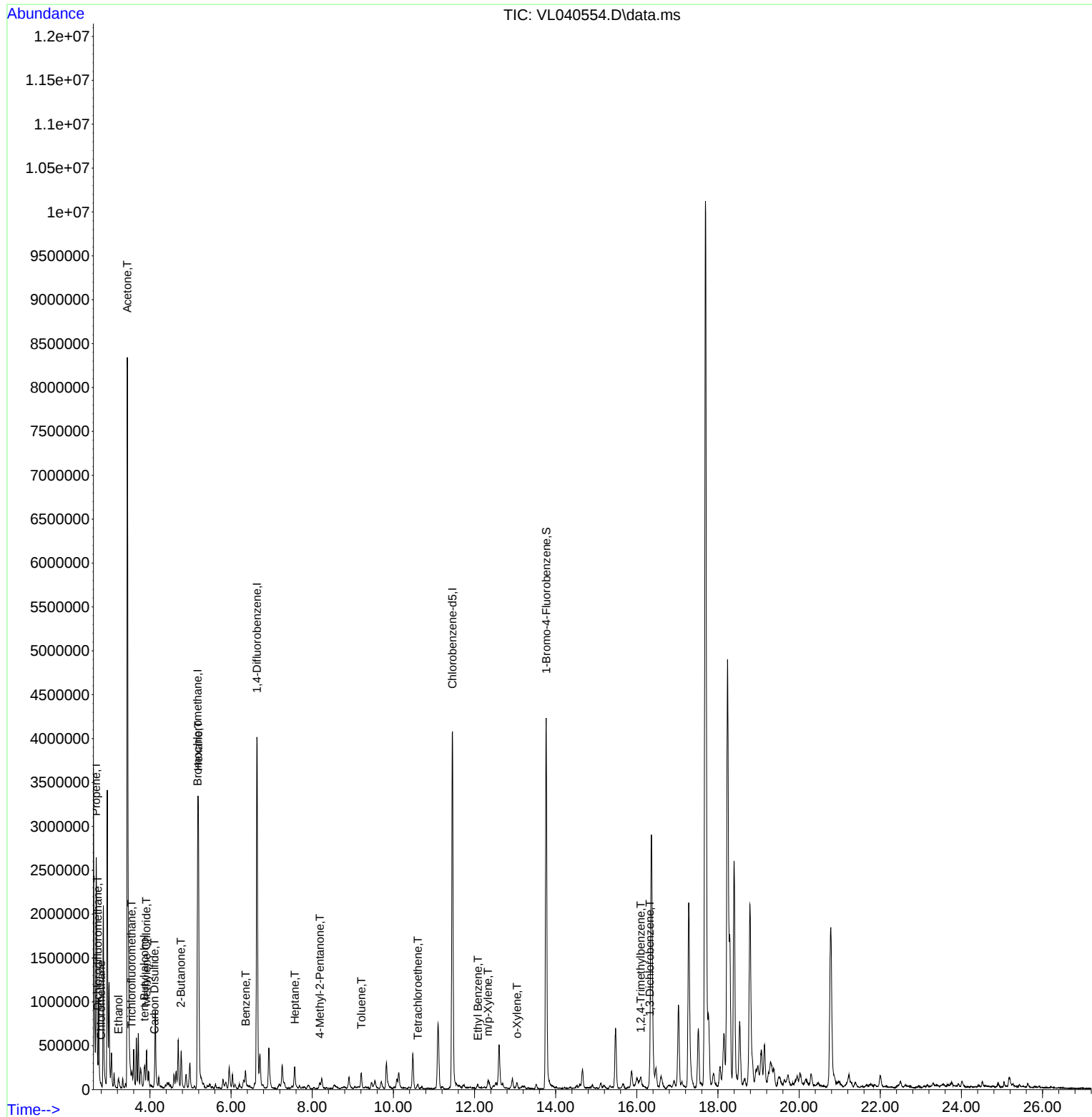
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
Data File : VL040554.D
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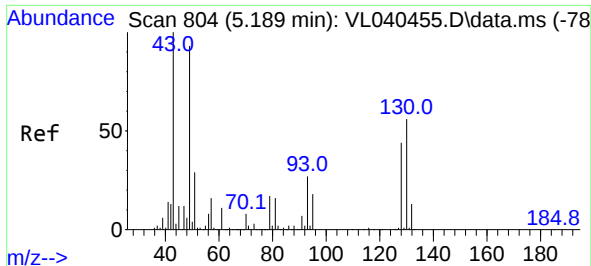
Instrument :
MSVOA_L
ClientSampleId :
SV-22-20230721

Quant Time: Jul 27 01:53:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

Manual Integrations
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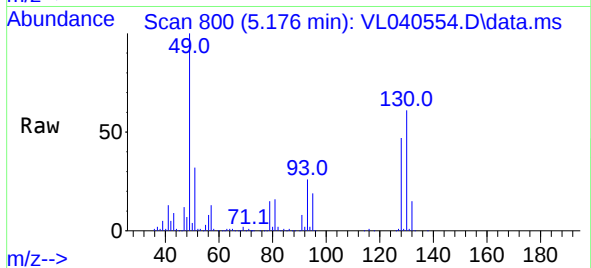
Reviewed By : Semsettin Yesilyurt 07/27/2023
Supervised By : Mahesh Dadoda 07/27/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

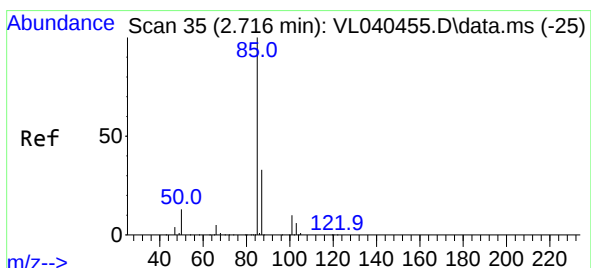
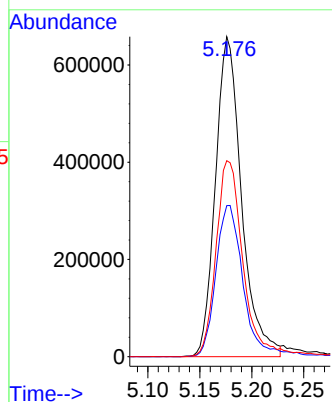
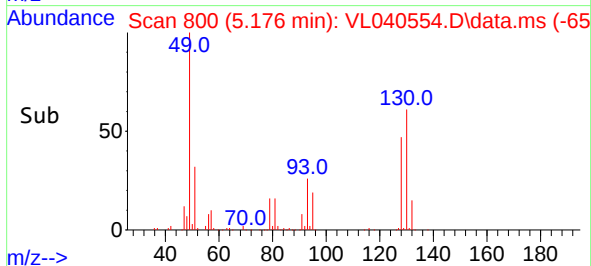
Instrument :
MSVOA_L
ClientSampleId :
SV-22-20230721



Tgt Ion: 49 Resp: 1150890
Ion Ratio Lower Upper
49 100
128 50.1 25.1 75.4
130 64.5 31.6 94.7

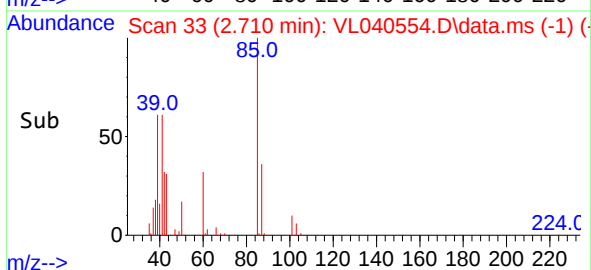
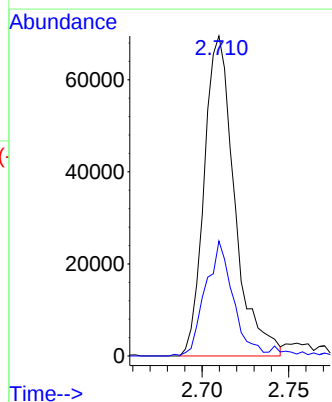
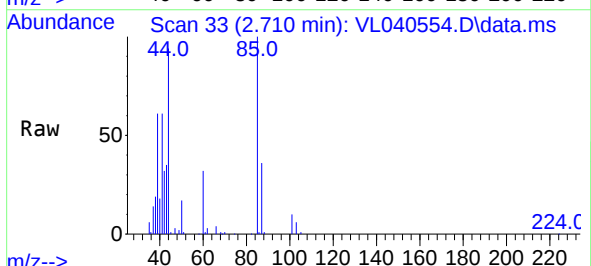
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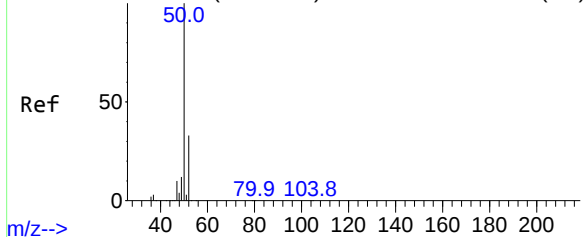


#2
Dichlorodifluoromethane
Concen: 0.368 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.029 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 85 Resp: 84832
Ion Ratio Lower Upper
85 100
87 35.6 26.8 40.2



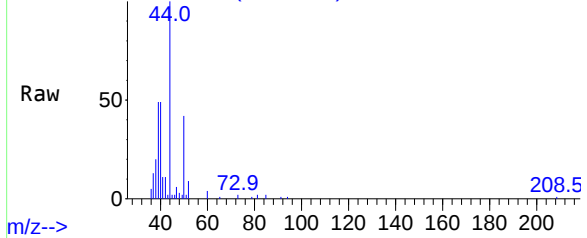
Abundance Scan 61 (2.800 min): VL040455.D\data.ms (-52)



#4
Chloromethane
Concen: 0.148 ppbv m
RT: 2.797 min Scan# 61
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Instrument :
MSVOA_L
ClientSampleId :
SV-22-20230721

Abundance Scan 60 (2.797 min): VL040554.D\data.ms

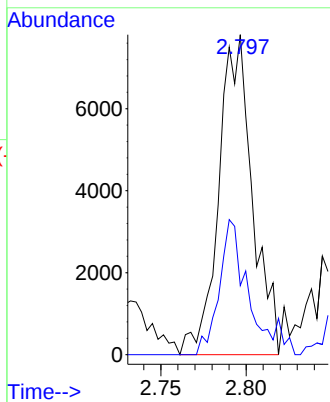
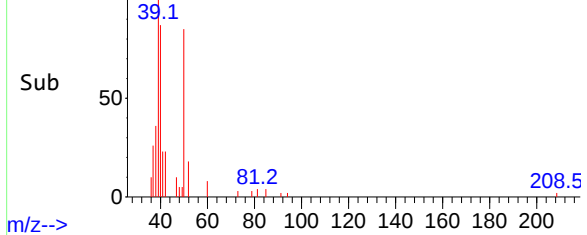


Tgt Ion: 50 Resp: 1069
Ion Ratio Lower Upper
50 100
52 21.6 24.4 36.6

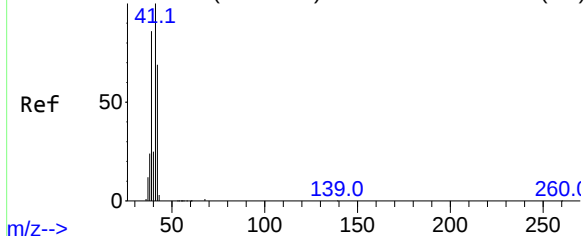
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Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

Abundance Scan 60 (2.797 min): VL040554.D\data.ms (-1)



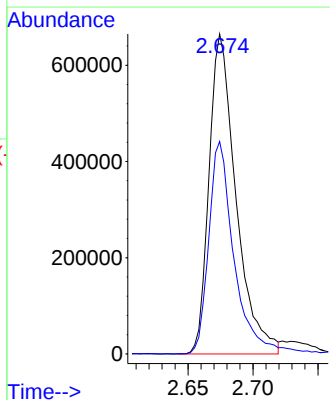
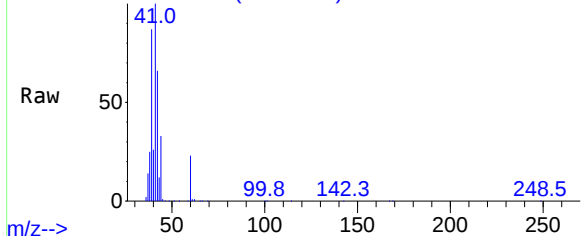
Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)



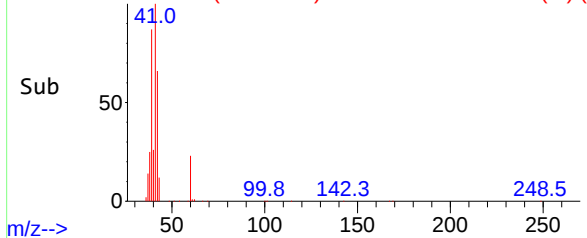
#9
Propene
Concen: 15.334 ppbv
RT: 2.674 min Scan# 22
Delta R.T. -0.029 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

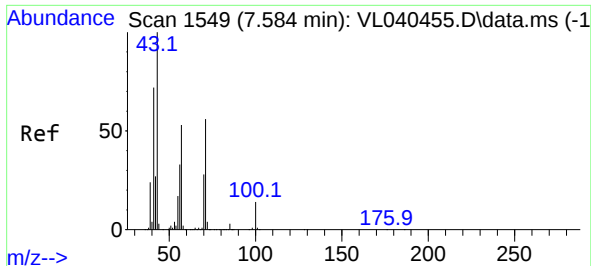
Tgt Ion: 41 Resp: 957632
Ion Ratio Lower Upper
41 100
42 63.3 55.0 82.6

Abundance Scan 22 (2.674 min): VL040554.D\data.ms



Abundance Scan 22 (2.674 min): VL040554.D\data.ms (-1)





#10

Heptane

Concen: 0.776 ppbv m

RT: 7.571 min Scan# 1

Delta R.T. -0.019 min

Lab File: VL040554.D

Acq: 27 Jul 2023 00:02

Instrument :

MSVOA_L

ClientSampleId :

SV-22-20230721

Tgt Ion: 43 Resp: 106979

Ion Ratio Lower Upper

43 100

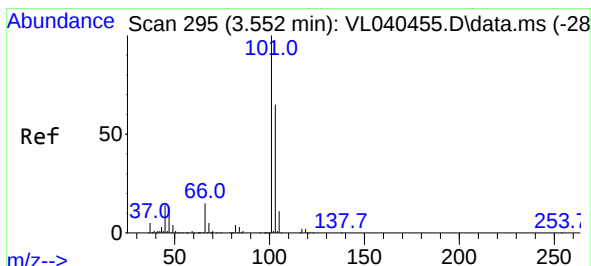
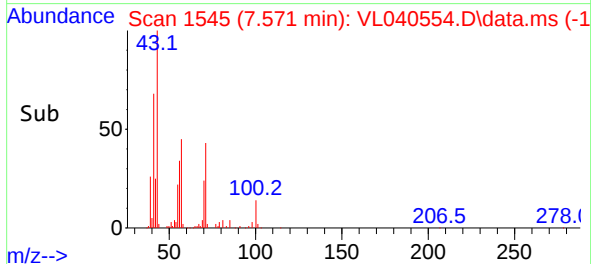
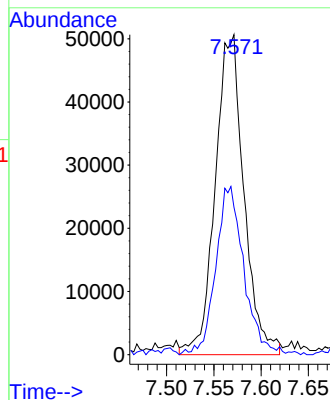
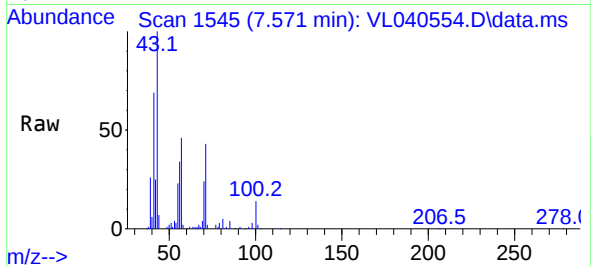
57 0.0 42.5 63.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/27/2023

Supervised By :Mahesh Dadoda 07/27/2023



#11

Trichlorofluoromethane

Concen: 0.130 ppbv

RT: 3.549 min Scan# 294

Delta R.T. -0.022 min

Lab File: VL040554.D

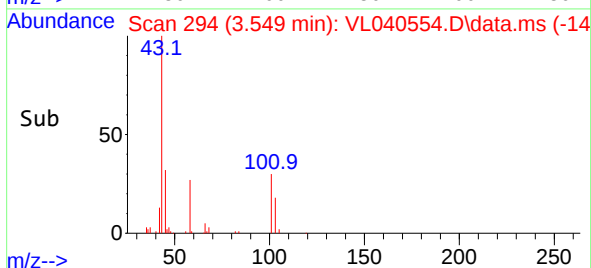
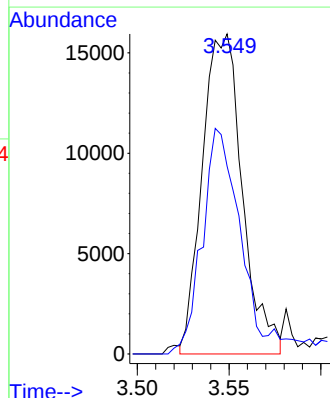
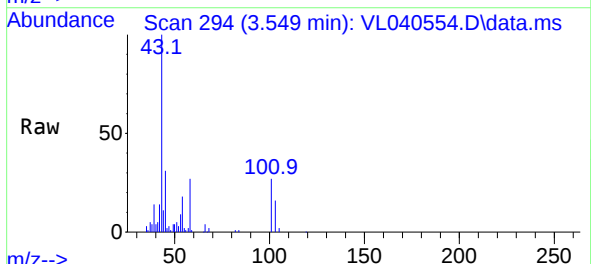
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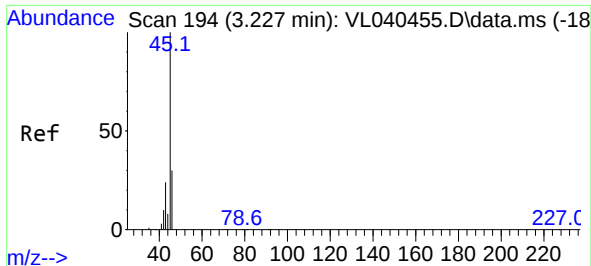
Tgt Ion:101 Resp: 24165

Ion Ratio Lower Upper

101 100

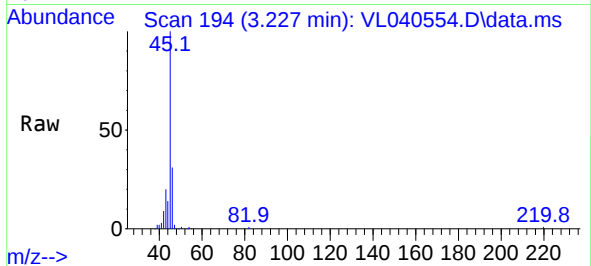
103 57.1 53.4 80.0





#13
Ethanol
Concen: 9.629 ppbv
RT: 3.227 min Scan# 194
Delta R.T. -0.019 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

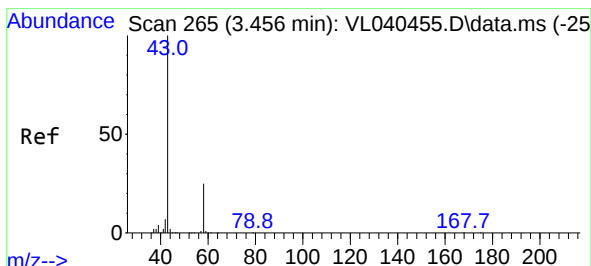
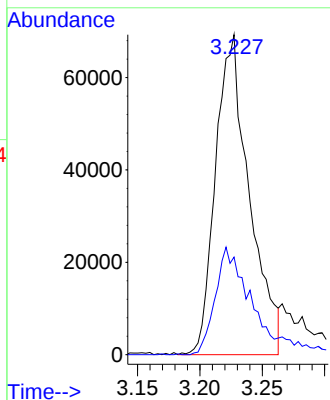
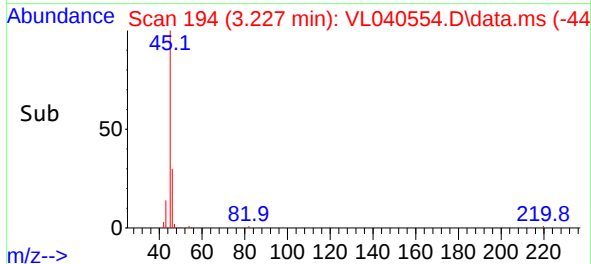
Instrument :
MSVOA_L
ClientSampleId :
SV-22-20230721



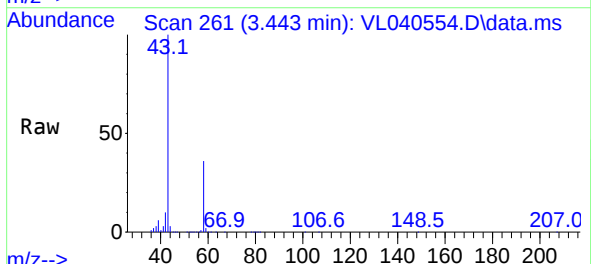
Tgt Ion: 45 Resp: 130832
Ion Ratio Lower Upper
45 100
46 38.0 15.3 61.1

Manual Integrations
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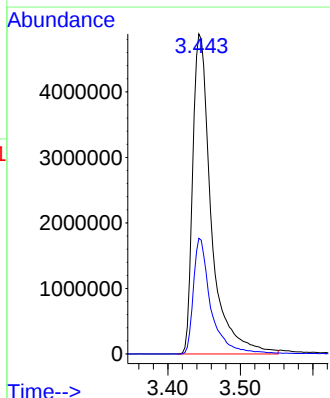
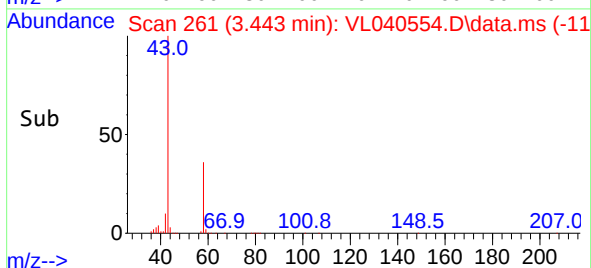
Reviewed By :Semsettin Yesilyurt 07/27/2023
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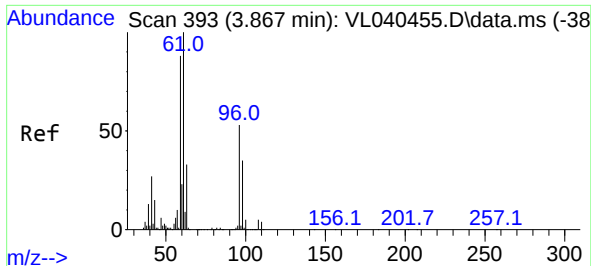


#15
Acetone
Concen: 65.535 ppbv
RT: 3.443 min Scan# 261
Delta R.T. -0.032 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02



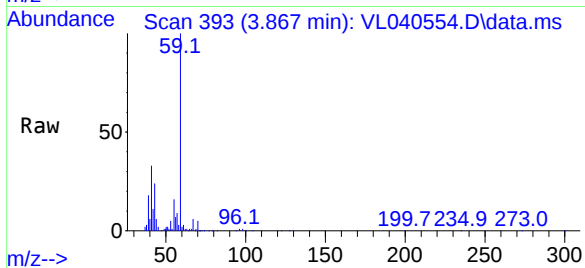
Tgt Ion: 43 Resp: 8681898
Ion Ratio Lower Upper
43 100
58 34.6 22.9 34.3#





#17
tert-Butyl alcohol
Concen: 1.274 ppbv
RT: 3.867 min Scan# 393
Delta R.T. -0.016 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

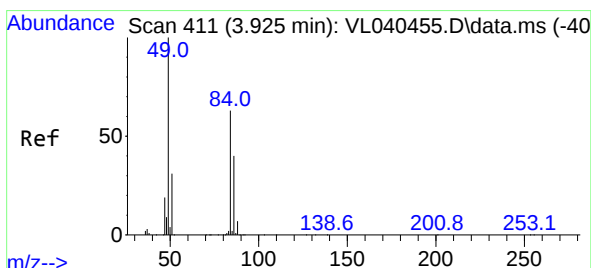
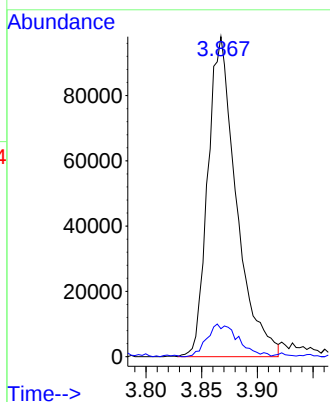
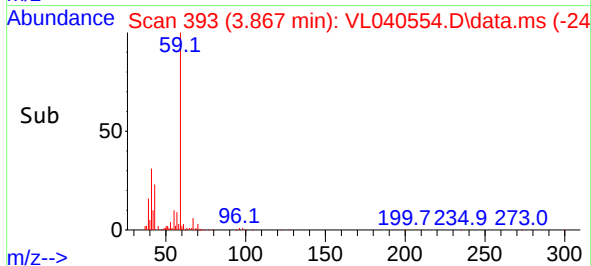
Instrument : MSVOA_L
ClientSampleId : SV-22-20230721



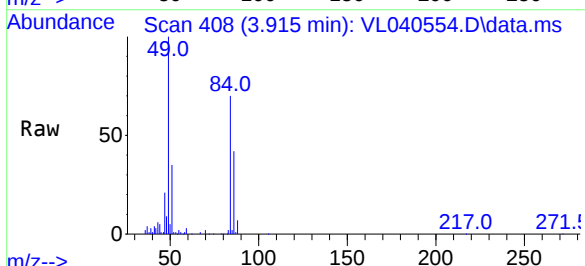
Tgt Ion: 59 Resp: 17451
Ion Ratio Lower Upper
59 100
57 10.9 8.7 13.1

Manual Integrations
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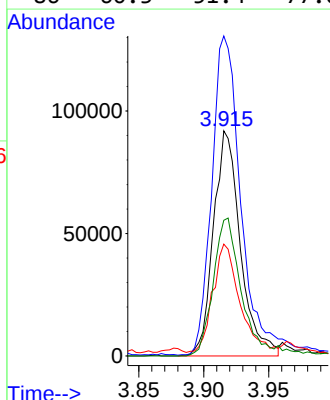
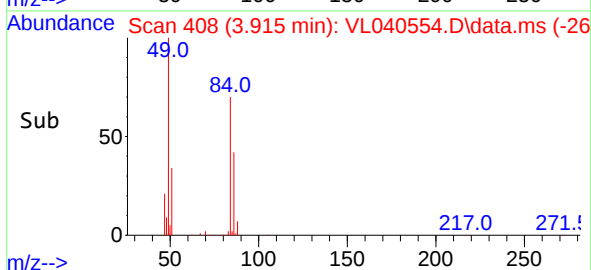
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

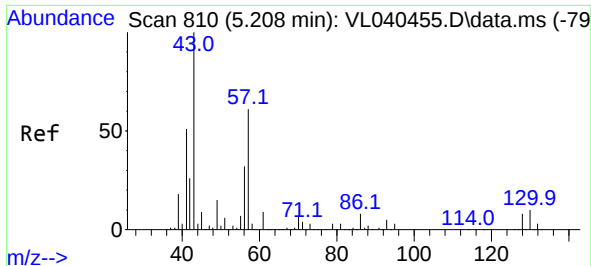


#20
Methylene Chloride
Concen: 2.353 ppbv
RT: 3.915 min Scan# 408
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02



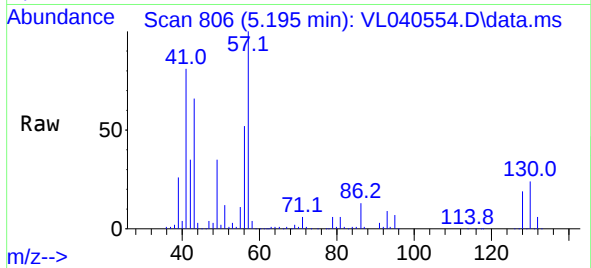
Tgt Ion: 84 Resp: 132605
Ion Ratio Lower Upper
84 100
49 141.8 123.4 185.2
51 46.4 38.3 57.5
86 60.3 51.4 77.0





#26
Hexane
Concen: 8.467 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

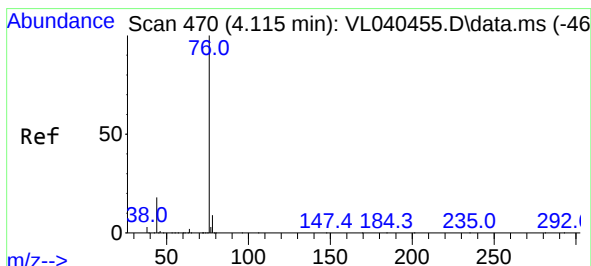
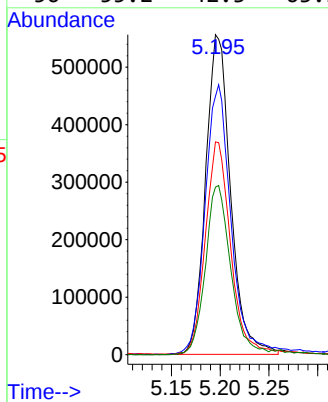
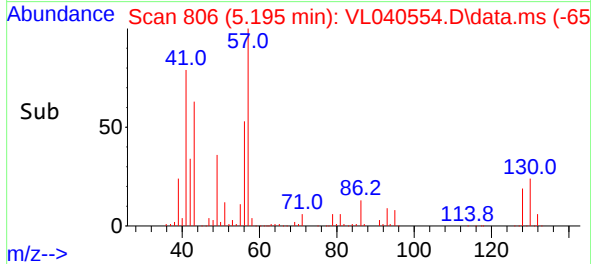
Instrument :
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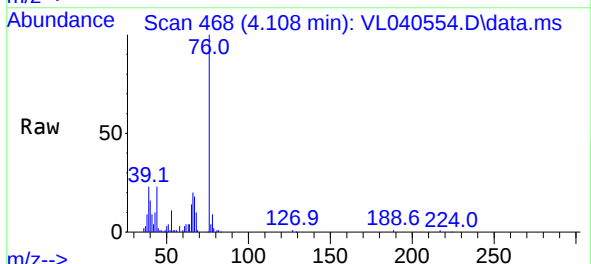
Tgt Ion: 57 Resp: 992078
Ion Ratio Lower Upper
57 100
41 89.3 69.5 104.3
43 67.5 177.1 265.7
56 55.2 42.3 63.5

Manual Integrations
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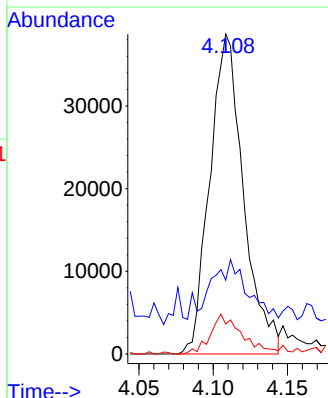
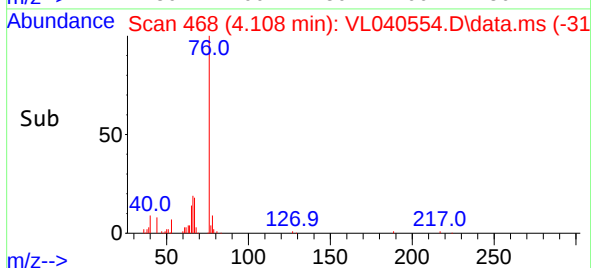
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

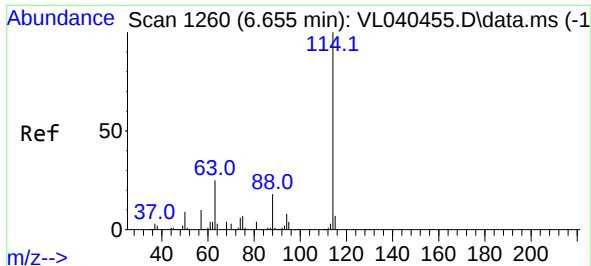


#27
Carbon Disulfide
Concen: 0.443 ppbv
RT: 4.108 min Scan# 468
Delta R.T. -0.022 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02



Tgt Ion: 76 Resp: 60989
Ion Ratio Lower Upper
76 100
44 26.6 15.1 22.7#
78 13.7 7.5 11.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 114

Delta R.T. -0.026 min

Lab File: VL040554.D

Acq: 27 Jul 2023 00:02

Instrument :

MSVOA_L

ClientSampleId :

SV-22-20230721

Tgt Ion: 114 Resp: 308517

Ion Ratio Lower Upper

114 100

63 24.4 19.6 29.4

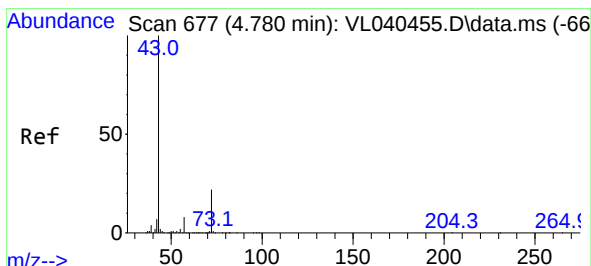
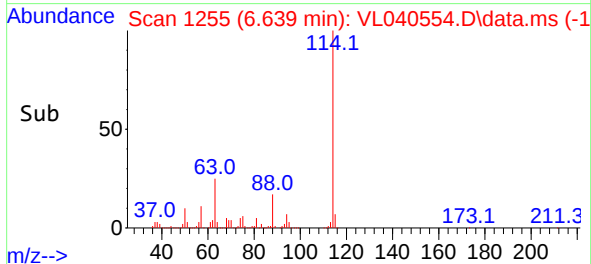
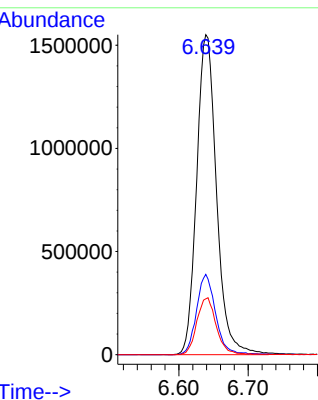
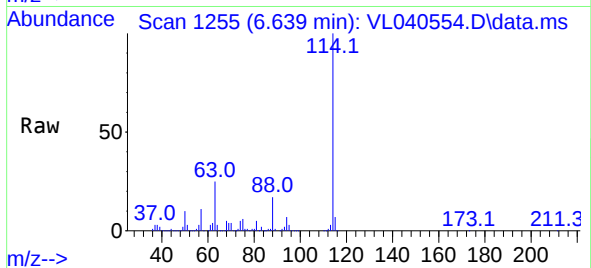
88 17.6 14.2 21.2

Manual Integrations

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Supervised By :Mahesh Dadoda 07/27/2023



#34

2-Butanone

Concen: 3.057 ppbv

RT: 4.768 min Scan# 673

Delta R.T. -0.026 min

Lab File: VL040554.D

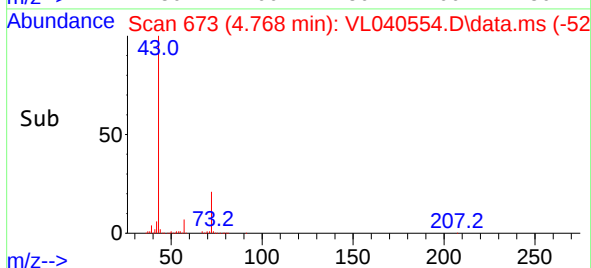
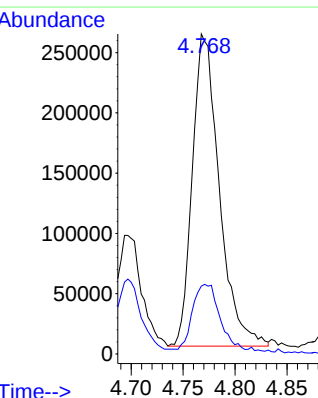
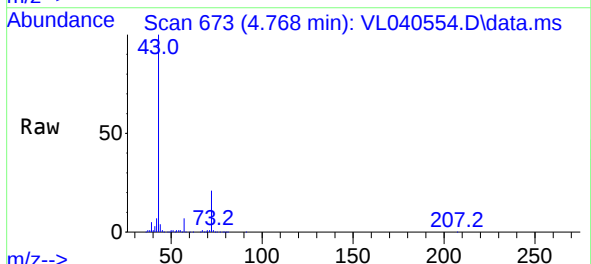
Acq: 27 Jul 2023 00:02

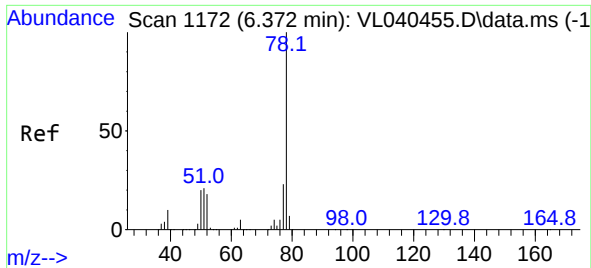
Tgt Ion: 43 Resp: 466075

Ion Ratio Lower Upper

43 100

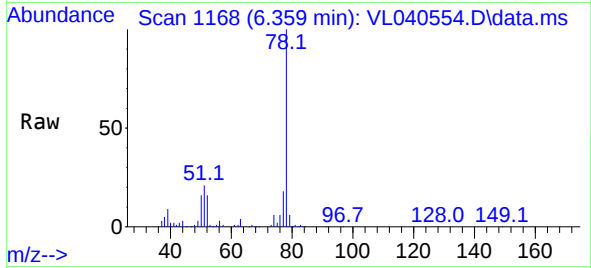
72 24.7 19.1 28.7





#36
Benzene
Concen: 0.682 ppbv m
RT: 6.359 min Scan# 1168
Delta R.T. -0.022 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

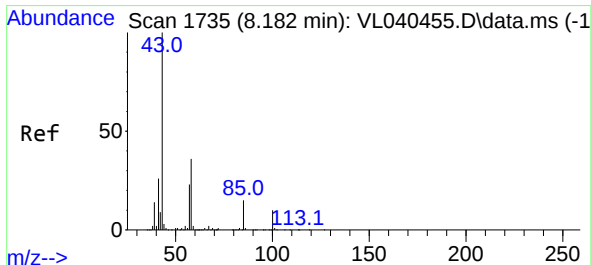
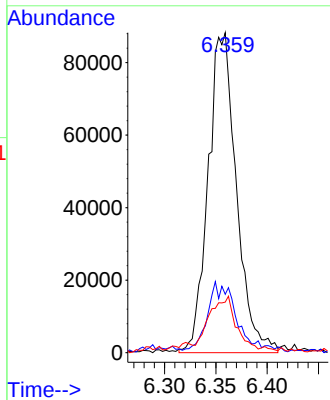
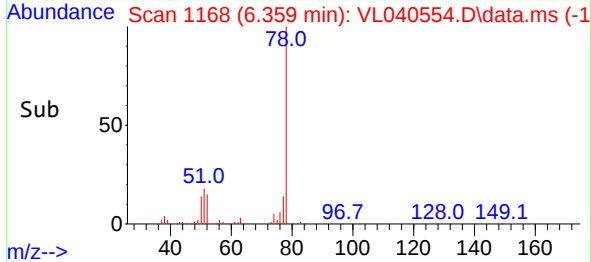
Instrument :
MSVOA_L
ClientSampleId :
SV-22-20230721



Tgt Ion: 78 Resp: 169310
Ion Ratio Lower Upper
78 100
77 18.2 17.4 26.0
50 15.8 14.4 21.6

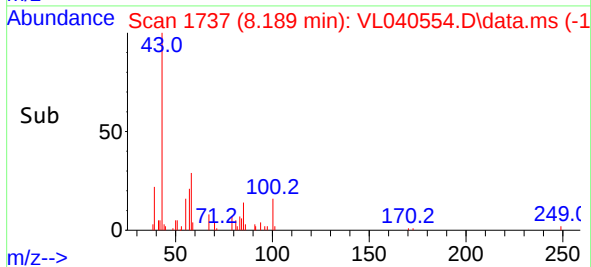
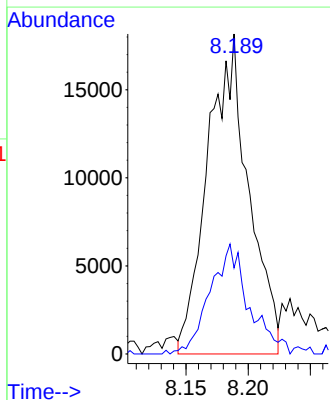
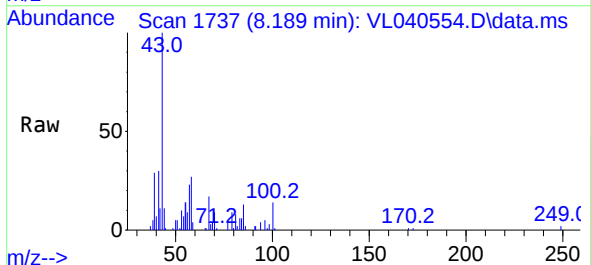
Manual Integrations
APPROVED

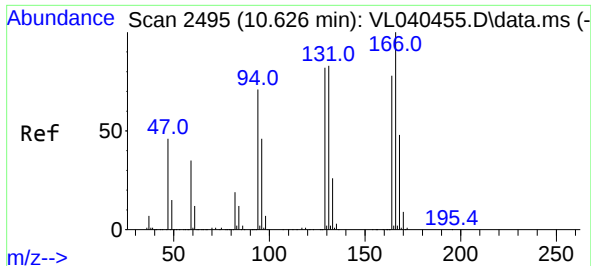
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#50
4-Methyl-2-Pentanone
Concen: 0.187 ppbv m
RT: 8.189 min Scan# 1737
Delta R.T. -0.003 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

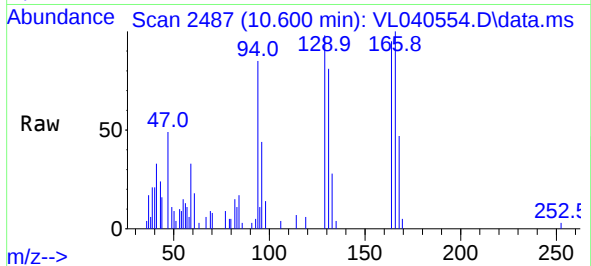
Tgt Ion: 43 Resp: 41531
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#





#52
Tetrachloroethene
Concen: 0.141 ppbv m
RT: 10.600 min Scan# 2495
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

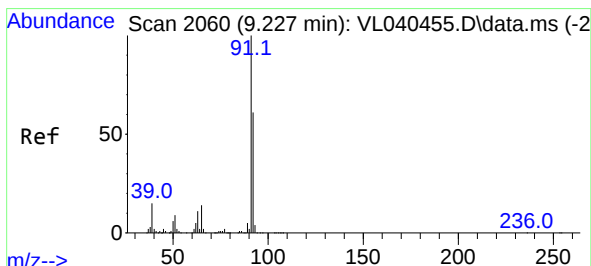
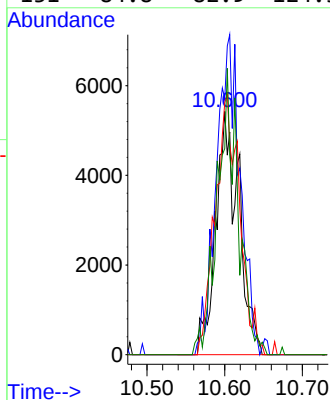
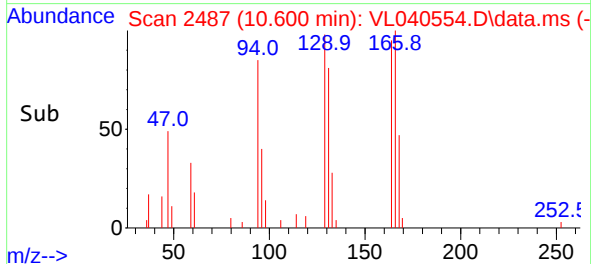
Instrument : MSVOA_L
ClientSampleId : SV-22-20230721



Tgt Ion:164 Resp: 11300
Ion Ratio Lower Upper
164 100
166 105.3 103.9 155.9
129 103.6 84.6 126.8
131 84.8 82.9 124.3

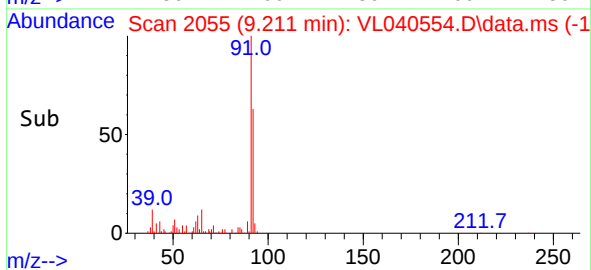
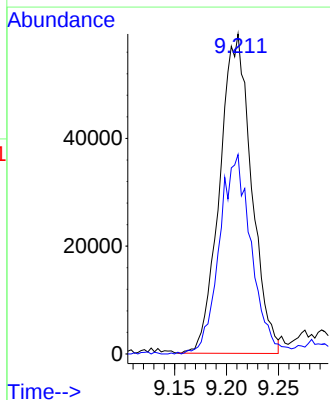
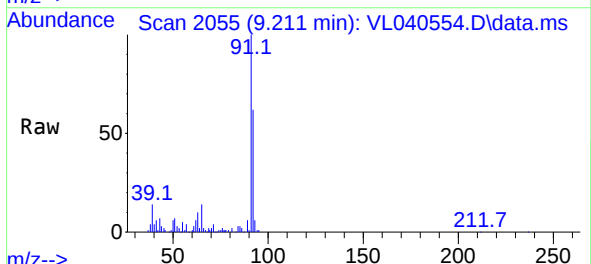
Manual Integrations
APPROVED

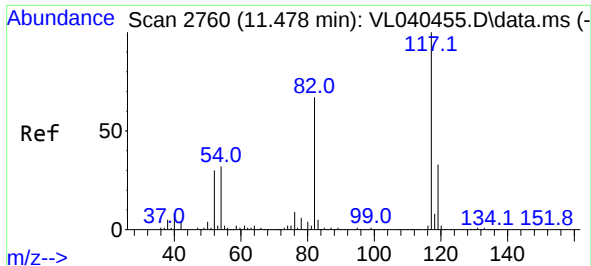
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#53
Toluene
Concen: 0.468 ppbv
RT: 9.211 min Scan# 2055
Delta R.T. -0.019 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

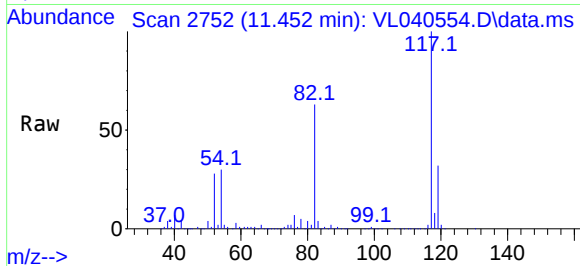
Tgt Ion: 91 Resp: 126328
Ion Ratio Lower Upper
91 100
92 62.7 49.1 73.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

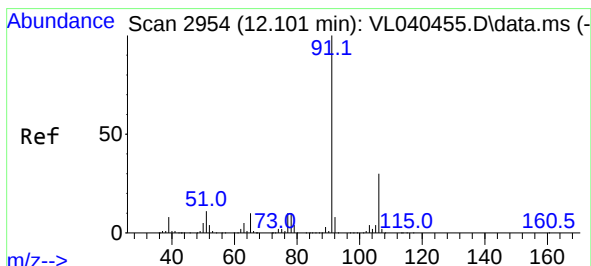
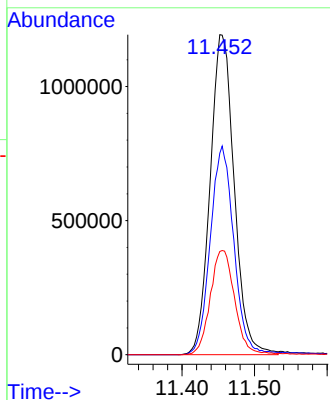
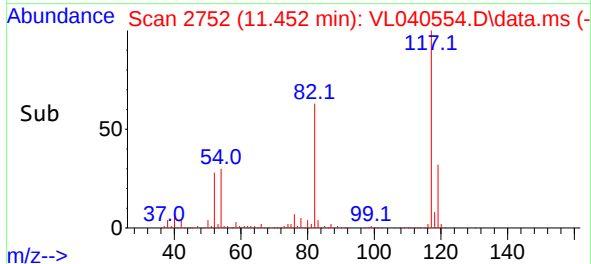
Instrument :
MSVOA_L
ClientSampleId :
SV-22-20230721



Tgt Ion:117 Resp: 275306
Ion Ratio Lower Upper
117 100
82 64.6 50.2 75.4
119 33.3 26.9 40.3

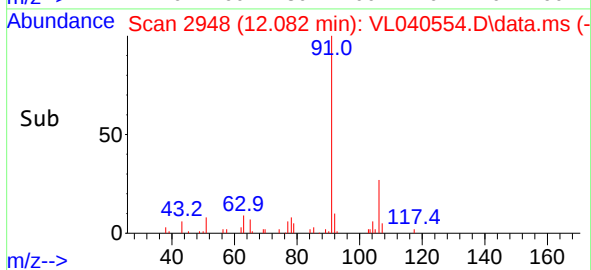
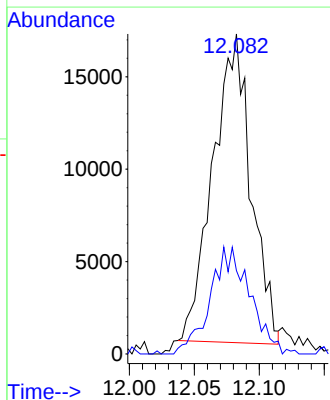
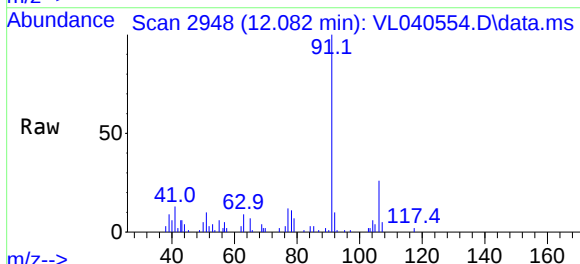
Manual Integrations
APPROVED

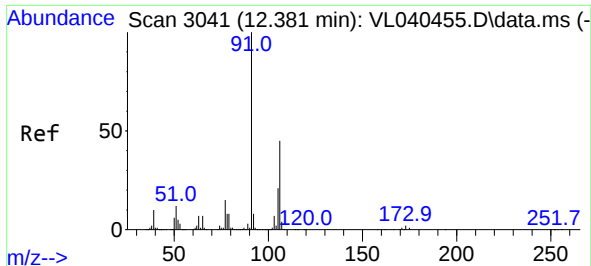
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#58
Ethyl Benzene
Concen: 0.099 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. -0.019 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

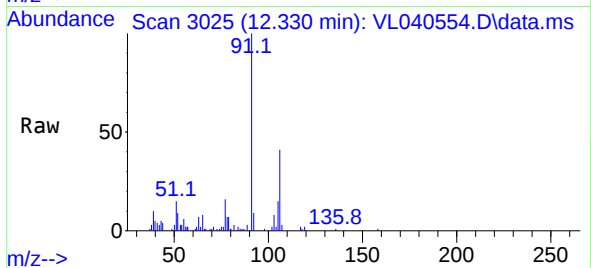
Tgt Ion: 91 Resp: 34058
Ion Ratio Lower Upper
91 100
106 25.4 25.4 38.0





#59
m/p-Xylene
Concen: 0.297 ppbv m
RT: 12.330 min Scan# 3041
Delta R.T. -0.055 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

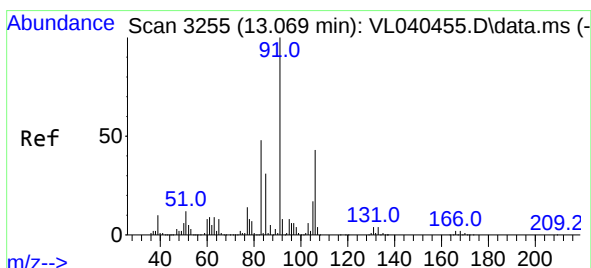
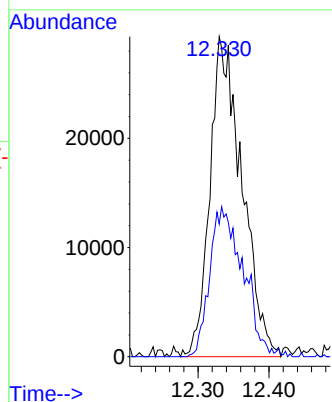
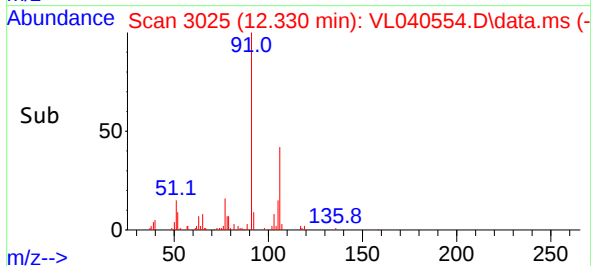
Instrument :
MSVOA_L
ClientSampleId :
SV-22-20230721



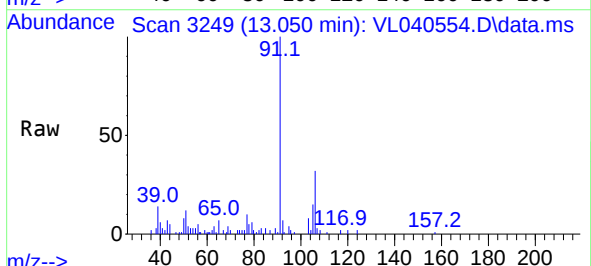
Tgt Ion: 91 Resp: 91668
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9

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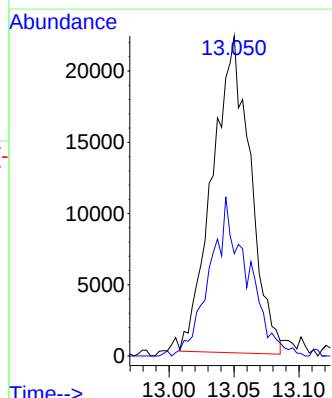
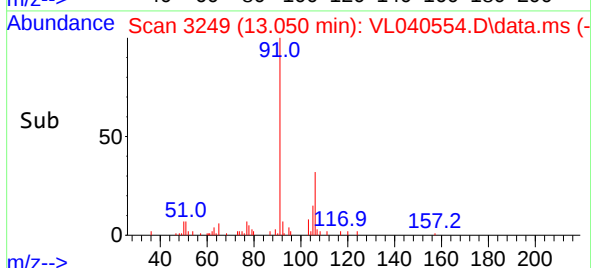
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

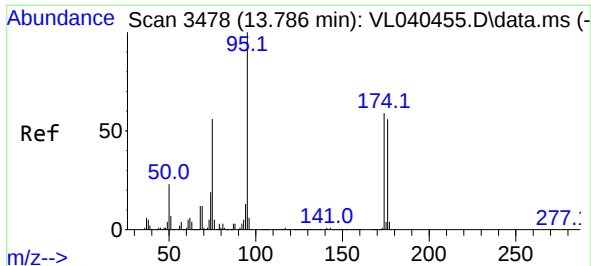


#60
o-Xylene
Concen: 0.154 ppbv
RT: 13.050 min Scan# 3249
Delta R.T. -0.019 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02



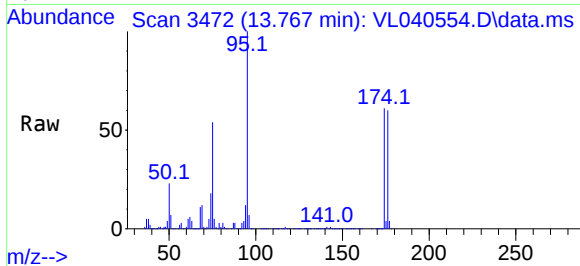
Tgt Ion: 91 Resp: 45241
Ion Ratio Lower Upper
91 100
106 50.3 22.7 68.0





#68
1-Bromo-4-Fluorobenzene
Concen: 9.887 ppbv
RT: 13.767 min Scan# 3478
Delta R.T. -0.016 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

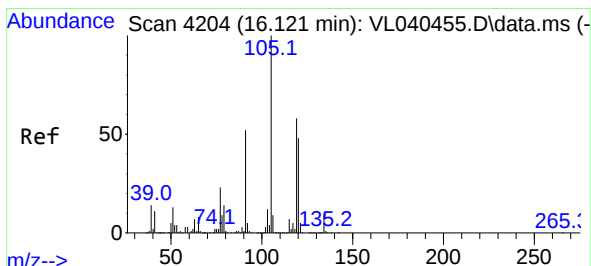
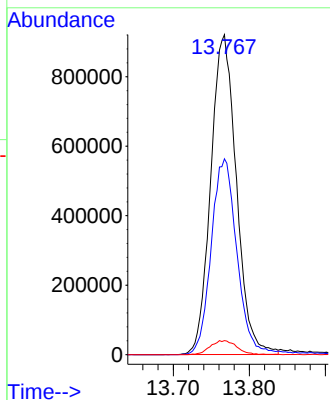
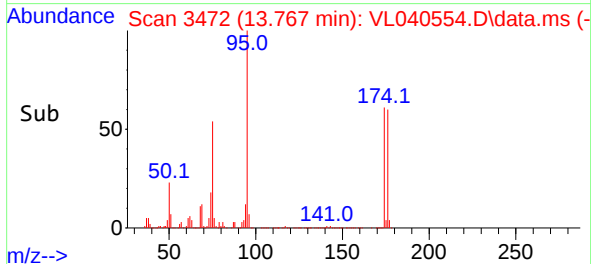
Instrument :
MSVOA_L
ClientSampleId :
SV-22-20230721



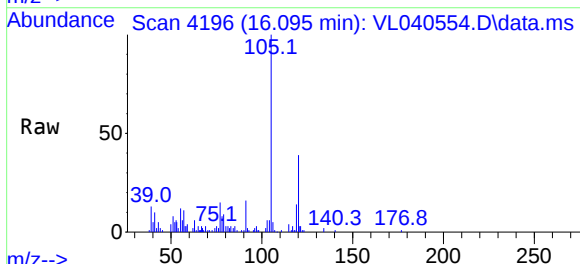
Tgt Ion: 95 Resp: 215434
Ion Ratio Lower Upper
95 100
174 63.1 50.6 75.8
175 4.7 3.7 5.5

Manual Integrations
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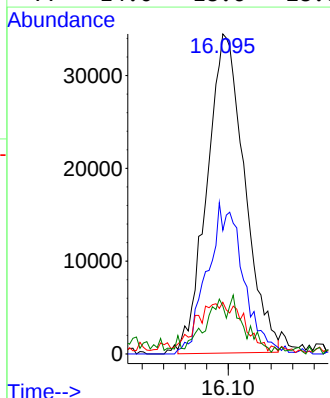
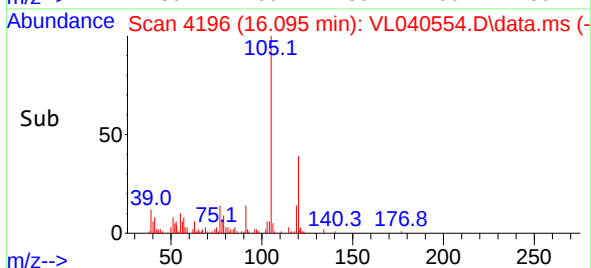
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

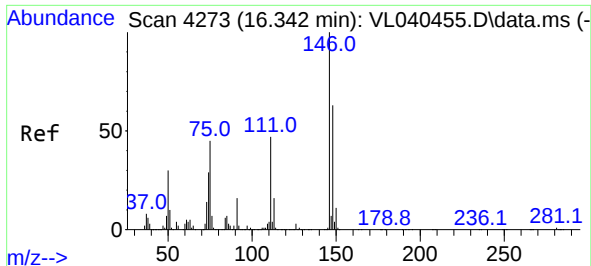


#74
1,2,4-Trimethylbenzene
Concen: 0.236 ppbv
RT: 16.095 min Scan# 4196
Delta R.T. -0.022 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02



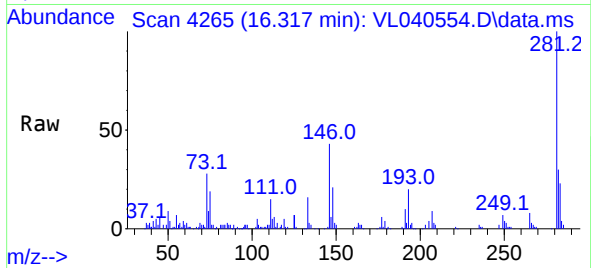
Tgt Ion:105 Resp: 83403
Ion Ratio Lower Upper
105 100
120 40.4 40.3 60.5
91 15.4 46.8 70.2#
77 14.0 18.6 28.0#





#75
1,3-Dichlorobenzene
Concen: 0.246 ppbv
RT: 16.317 min Scan# 41
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Instrument :
MSVOA_L
ClientSampleId :
SV-22-20230721



Tgt Ion:146 Resp: 52792
Ion Ratio Lower Upper
146 100
111 90.0 23.6 71.0
148 75.8 32.2 96.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

