

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL040597.D
 Acq On : 7 Aug 2023 13:54
 Operator : SY/MD
 Sample : 03907-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/08/2023
 Supervised By :Mahesh Dadoda 08/09/2023

Quant Time: Aug 08 01:41:03 2023

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

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

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	5.195	49	995802	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2443936	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2213480	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1838768	10.496	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	79293	0.398	ppbv	97
3) Chlorodifluoromethane	2.674	51	50185	0.318	ppbv	95
4) Chloromethane	2.813	50	31980	0.511	ppbv #	79
9) Propene	2.694	41	45557	0.843	ppbv	97
10) Heptane	7.584	43	28115m	0.236	ppbv	
11) Trichlorofluoromethane	3.562	101	40454	0.252	ppbv	99
13) Ethanol	3.234	45	1241556	105.604	ppbv	99
15) Acetone	3.462	43	4086101	35.648	ppbv	98
19) Isopropyl Alcohol	3.575	45	1112408	16.905	ppbv #	92
20) Methylene Chloride	3.935	84	529525	10.860	ppbv	93
26) Hexane	5.214	57	722467	7.126	ppbv #	48
32) 1,1,1-Trichloroethane	5.999	97	15682m	0.095	ppbv	
34) 2-Butanone	4.793	43	146629	1.214	ppbv	96
35) Carbon Tetrachloride	6.494	117	12073m	0.082	ppbv	
36) Benzene	6.372	78	106182	0.540	ppbv	97
44) 2,2,4-Trimethylpentane	7.336	57	102245	0.323	ppbv #	72
50) 4-Methyl-2-Pentanone	8.192	43	330379	1.883	ppbv	93
52) Tetrachloroethene	10.632	164	4172m	0.066	ppbv	
53) Toluene	9.227	91	2346313	10.985	ppbv	100
58) Ethyl Benzene	12.102	91	302305	1.088	ppbv	95
59) m/p-Xylene	12.356	91	1180641	4.762	ppbv	100
60) o-Xylene	13.066	91	370995	1.571	ppbv	96
61) Styrene	12.905	104	17153m	0.157	ppbv	
72) 4-Ethyltoluene	15.208	105	48461m	0.175	ppbv	
73) 1,3,5-Trimethylbenzene	15.359	105	34723m	0.142	ppbv	
74) 1,2,4-Trimethylbenzene	16.114	105	123419m	0.434	ppbv	

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

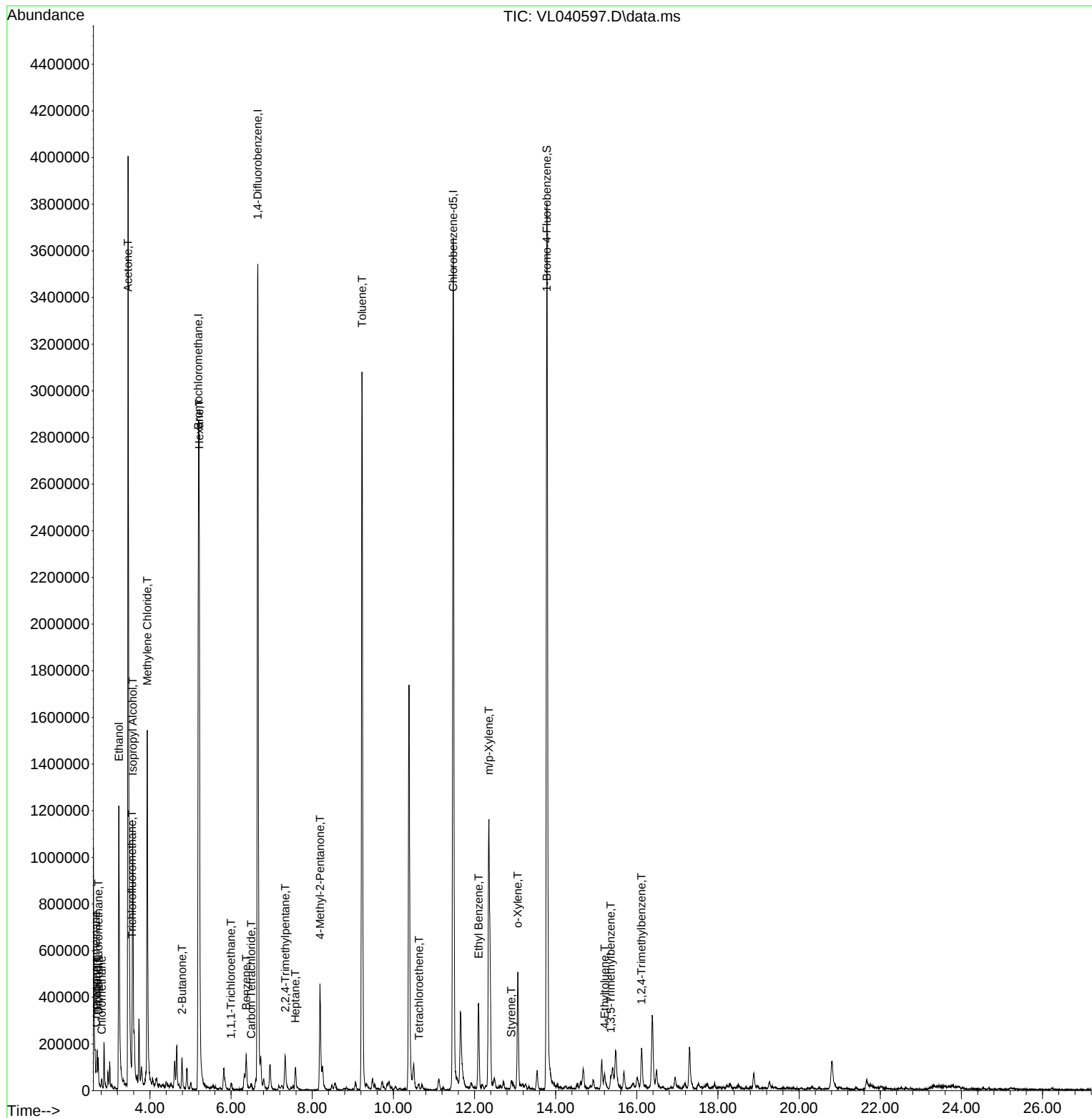
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
Data File : VL040597.D
Acq On : 7 Aug 2023 13:54
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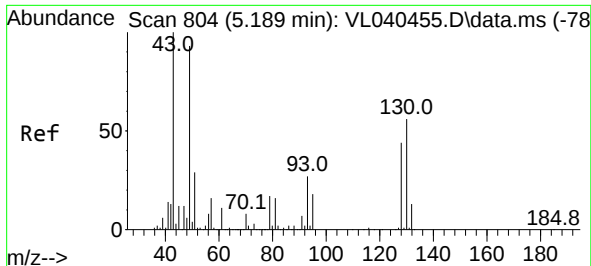
Instrument :
MSVOA_L
ClientSampleId :
OA-1

Quant Time: Aug 08 01:41:03 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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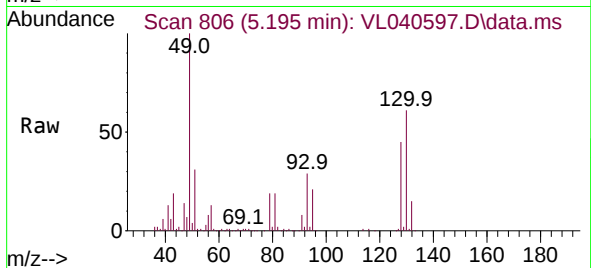
Reviewed By : Semsettin Yesilyurt 08/08/2023
Supervised By : Mahesh Dadoda 08/09/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 804
Delta R.T. -0.007 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

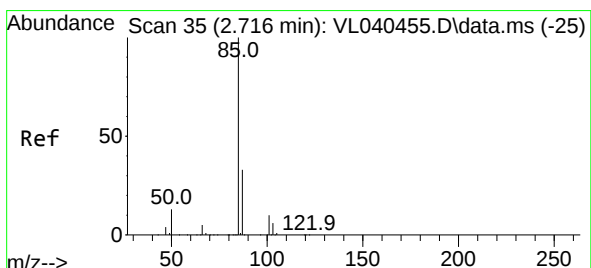
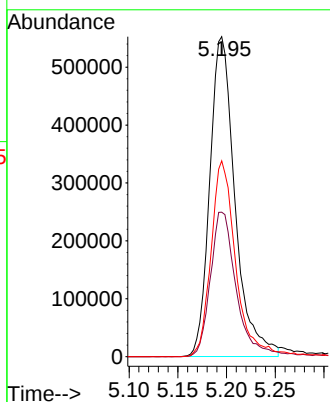
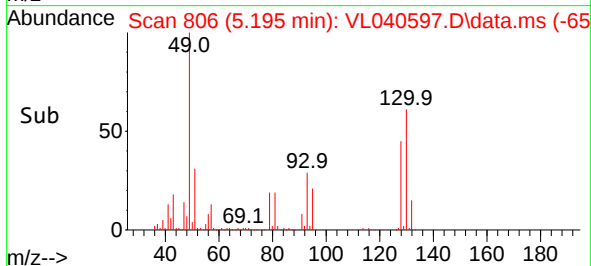
Instrument :
MSVOA_L
ClientSampleId :
OA-1



Tgt Ion: 49 Resp: 995802
Ion Ratio Lower Upper
49 100
128 47.4 25.1 75.4
130 61.5 31.6 94.7

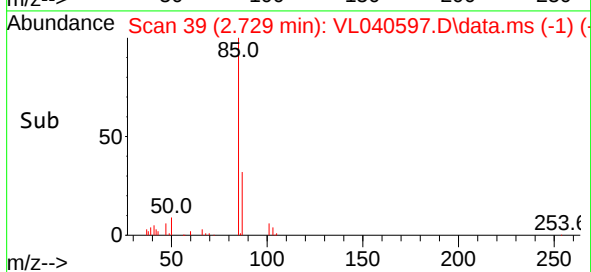
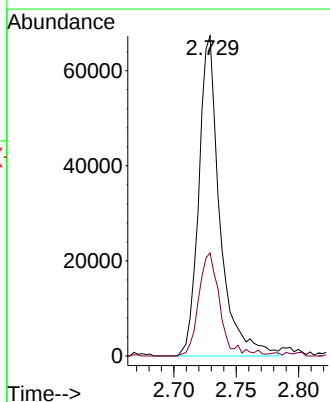
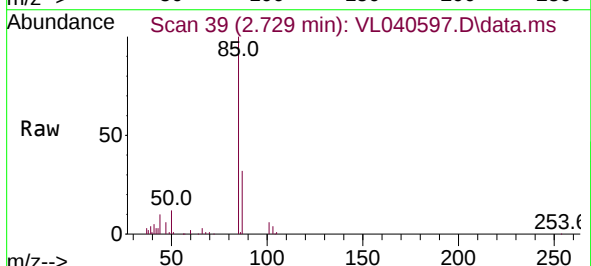
Manual Integrations
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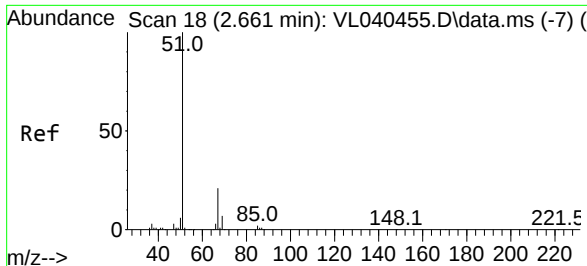
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#2
Dichlorodifluoromethane
Concen: 0.398 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.010 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

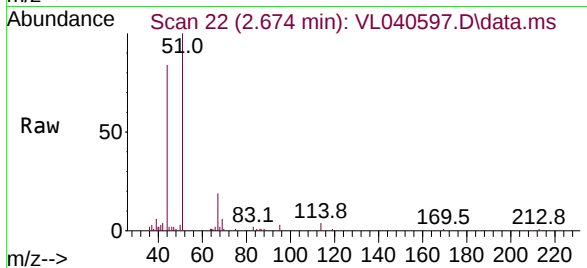
Tgt Ion: 85 Resp: 79293
Ion Ratio Lower Upper
85 100
87 32.0 26.8 40.2





#3
Chlorodifluoromethane
Concen: 0.318 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

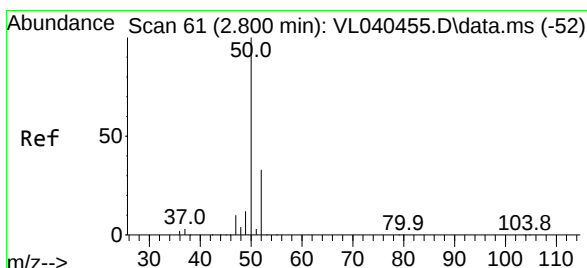
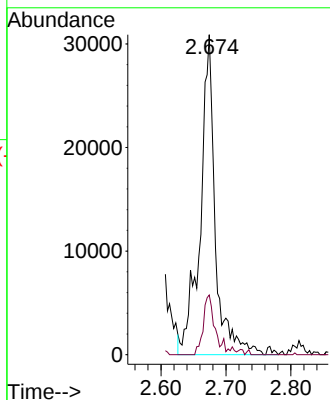
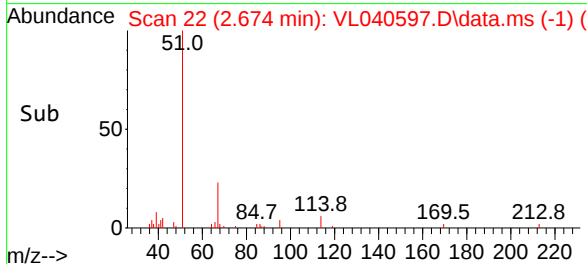
Instrument :
MSVOA_L
ClientSampleId :
OA-1



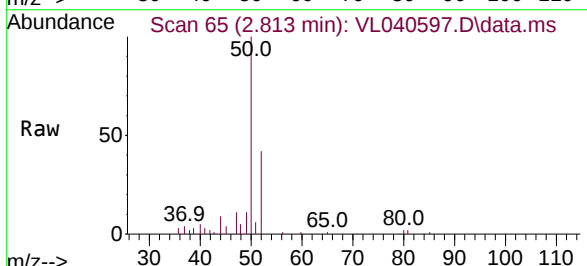
Tgt Ion: 51 Resp: 50185
Ion Ratio Lower Upper
51 100
67 15.9 14.6 21.8

Manual Integrations
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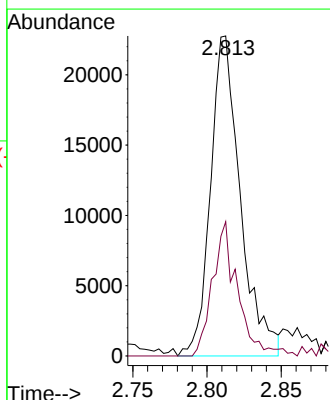
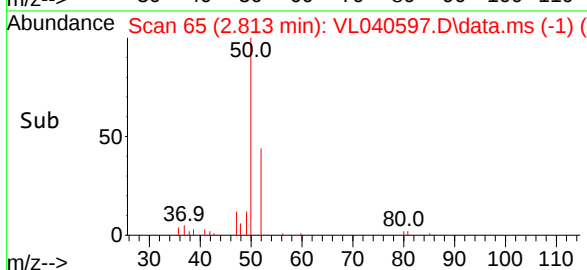
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

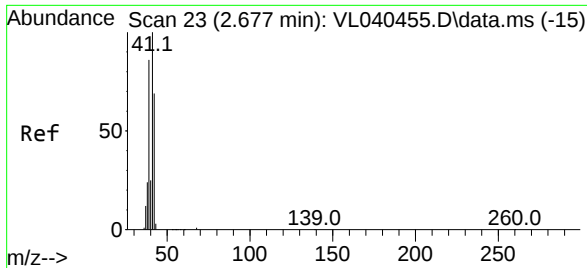


#4
Chloromethane
Concen: 0.511 ppbv
RT: 2.813 min Scan# 65
Delta R.T. -0.010 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54



Tgt Ion: 50 Resp: 31980
Ion Ratio Lower Upper
50 100
52 42.0 24.4 36.6#





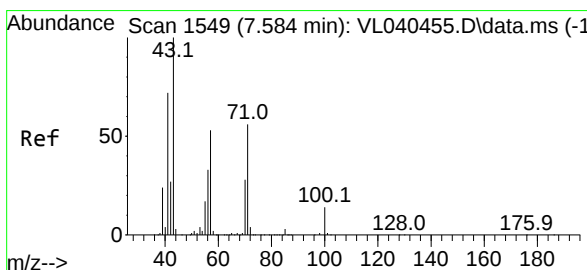
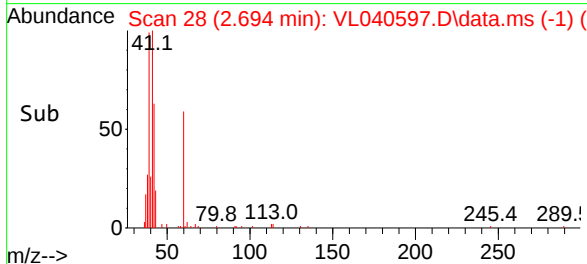
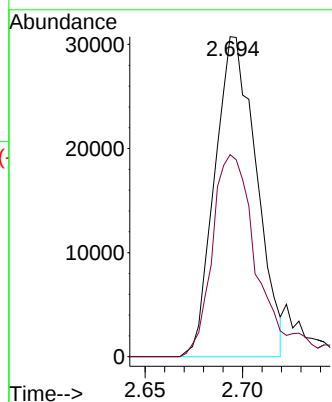
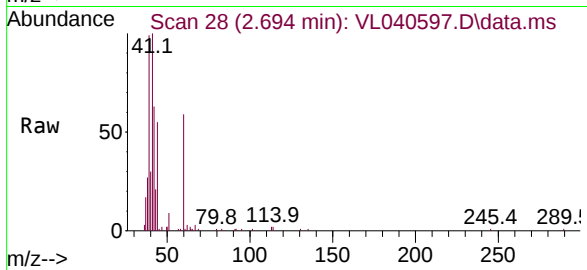
#9
 Propene
 Concen: 0.843 ppbv
 RT: 2.694 min Scan# 21
 Delta R.T. -0.010 min
 Lab File: VL040597.D
 Acq: 7 Aug 2023 13:54

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Tgt Ion: 41 Resp: 4555
 Ion Ratio Lower Upper
 41 100
 42 70.9 55.0 82.6

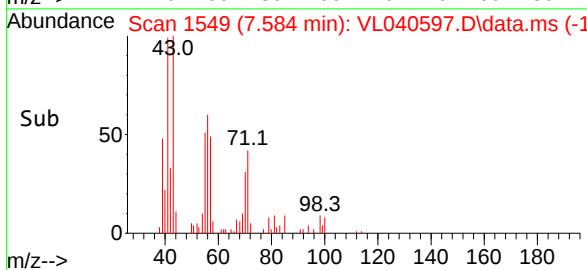
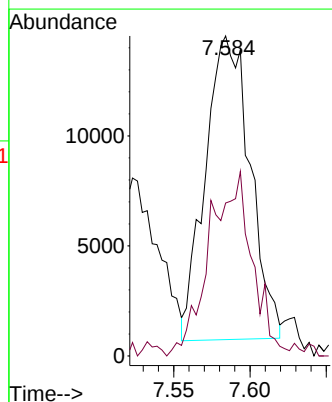
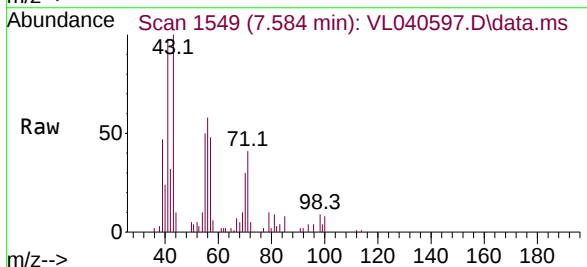
Manual Integrations
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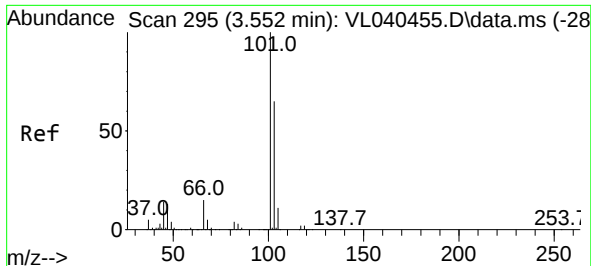
Reviewed By :Semsettin Yesilyurt 08/08/2023
 Supervised By :Mahesh Dadoda 08/09/2023



#10
 Heptane
 Concen: 0.236 ppbv m
 RT: 7.584 min Scan# 1549
 Delta R.T. -0.006 min
 Lab File: VL040597.D
 Acq: 7 Aug 2023 13:54

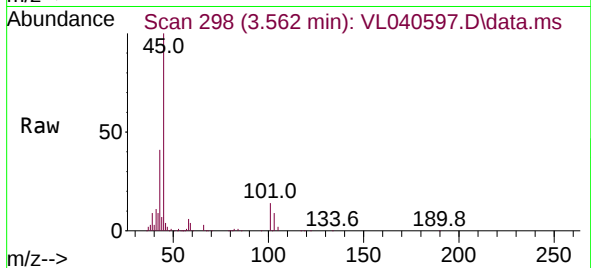
Tgt Ion: 43 Resp: 28115
 Ion Ratio Lower Upper
 43 100
 57 0.0 42.5 63.7#





#11
Trichlorofluoromethane
Concen: 0.252 ppbv
RT: 3.562 min Scan# 295
Delta R.T. -0.010 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

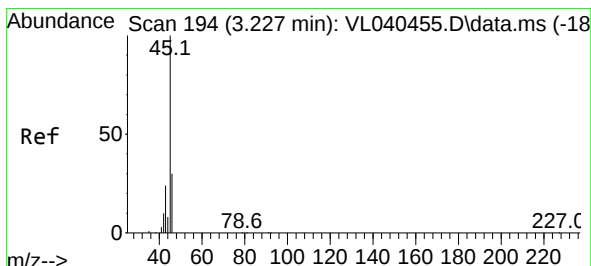
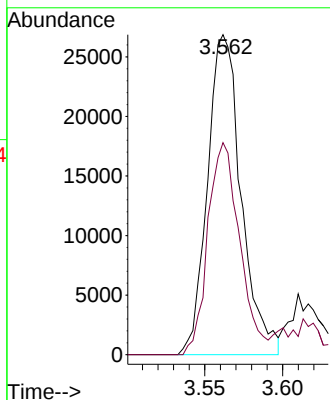
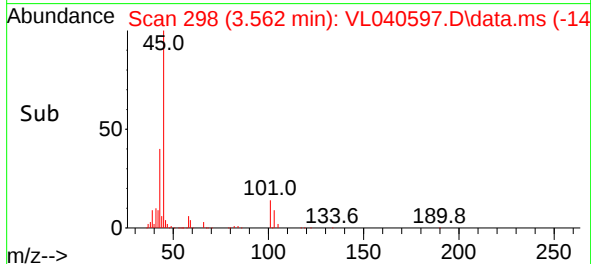
Instrument :
MSVOA_L
ClientSampleId :
OA-1



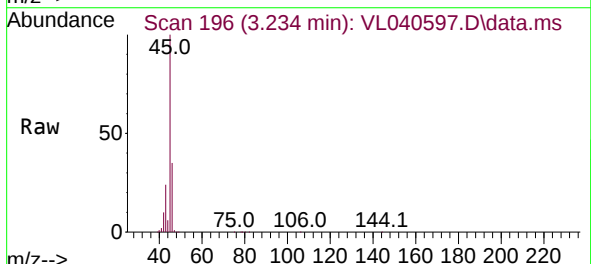
Tgt Ion:101 Resp: 40454
Ion Ratio Lower Upper
101 100
103 66.2 53.4 80.0

Manual Integrations
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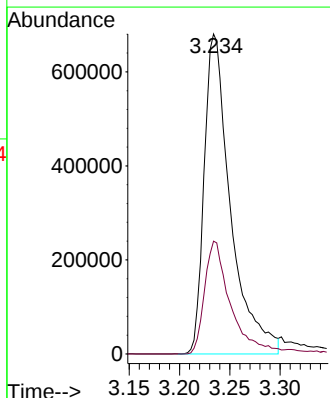
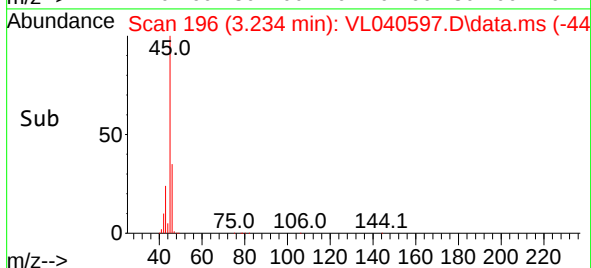
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

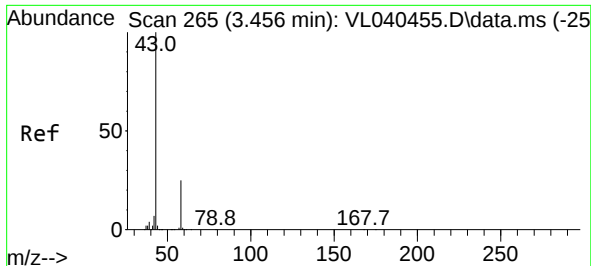


#13
Ethanol
Concen: 105.604 ppbv
RT: 3.234 min Scan# 196
Delta R.T. -0.013 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54



Tgt Ion: 45 Resp: 1241556
Ion Ratio Lower Upper
45 100
46 37.4 15.3 61.1





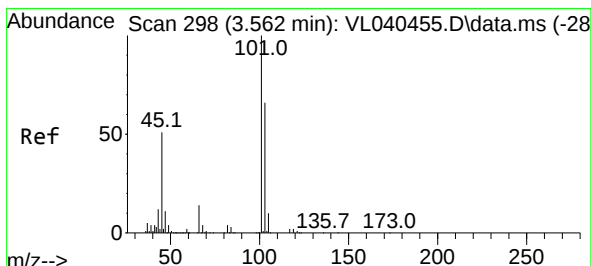
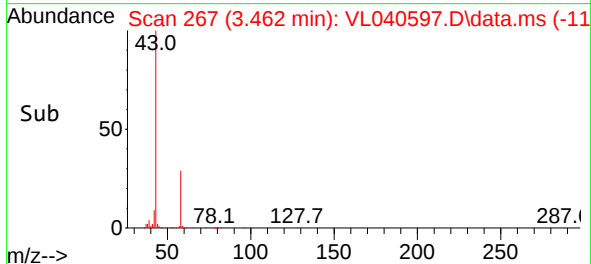
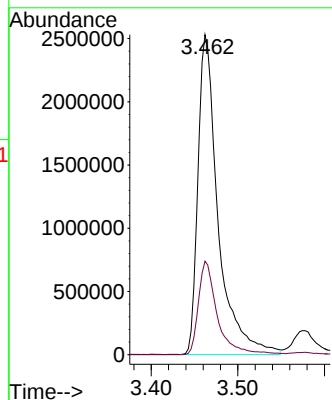
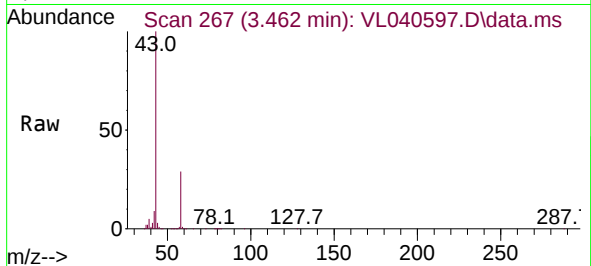
#15
Acetone
Concen: 35.648 ppbv
RT: 3.462 min Scan# 20
Delta R.T. -0.013 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tgt Ion: 43 Resp: 408610
Ion Ratio Lower Upper
43 100
58 27.4 22.9 34.3

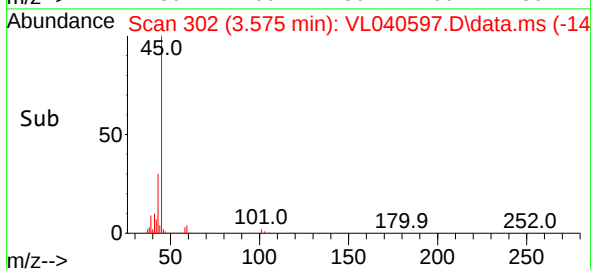
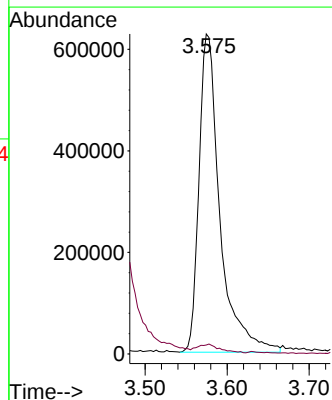
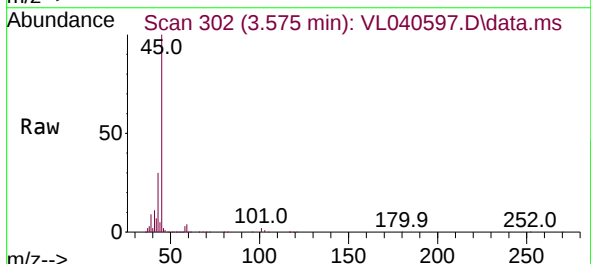
Manual Integrations
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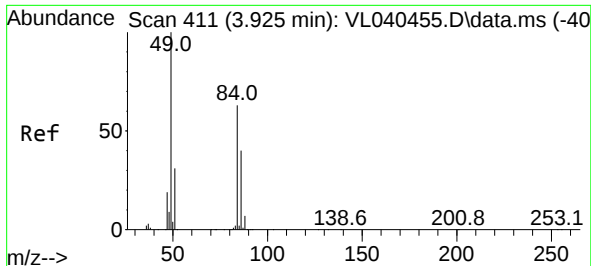
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#19
Isopropyl Alcohol
Concen: 16.905 ppbv
RT: 3.575 min Scan# 302
Delta R.T. -0.006 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

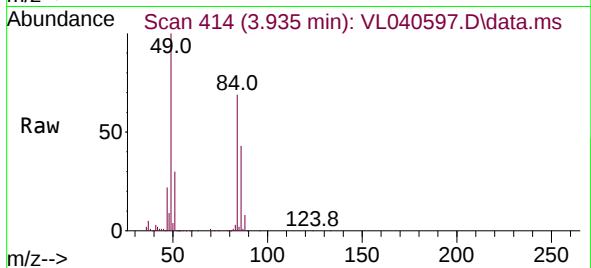
Tgt Ion: 45 Resp: 1112408
Ion Ratio Lower Upper
45 100
58 4.4 1.1 1.7#





#20
Methylene Chloride
Concen: 10.860 ppbv
RT: 3.935 min Scan# 411
Delta R.T. -0.006 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

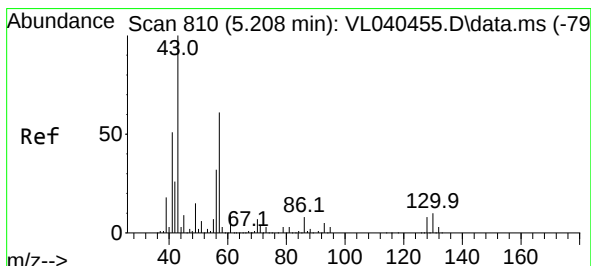
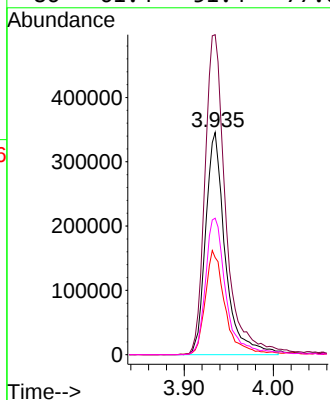
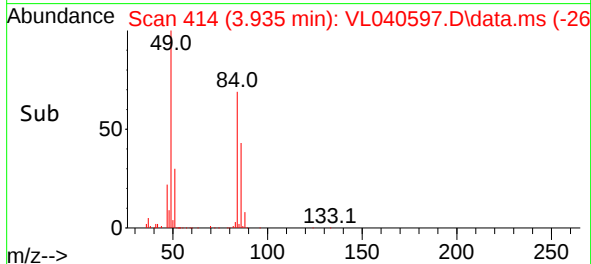
Instrument :
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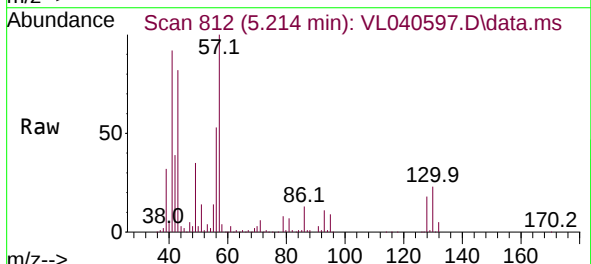
Tgt Ion: 84 Resp: 529529
Ion Ratio Lower Upper
84 100
49 143.7 123.4 185.2
51 43.6 38.3 57.5
86 61.4 51.4 77.0

Manual Integrations
APPROVED

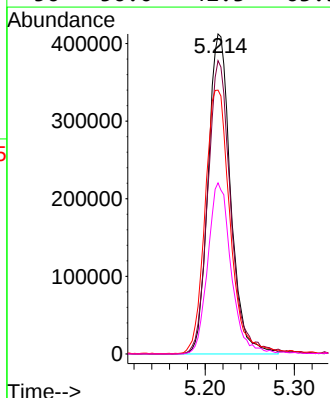
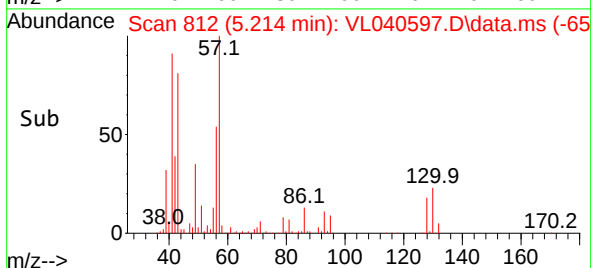
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

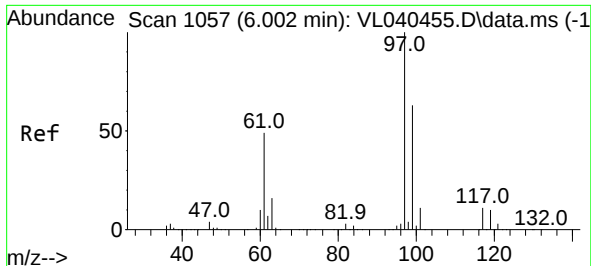


#26
Hexane
Concen: 7.126 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.006 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54



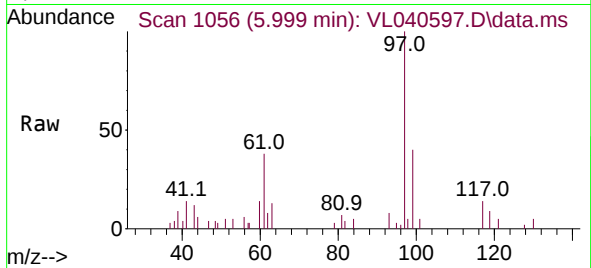
Tgt Ion: 57 Resp: 722467
Ion Ratio Lower Upper
57 100
41 94.7 69.5 104.3
43 92.7 177.1 265.7#
56 56.0 42.3 63.5





#32
1,1,1-Trichloroethane
Concen: 0.095 ppbv m
RT: 5.999 min Scan# 1056
Delta R.T. -0.013 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

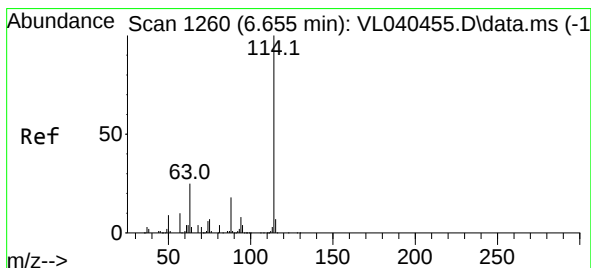
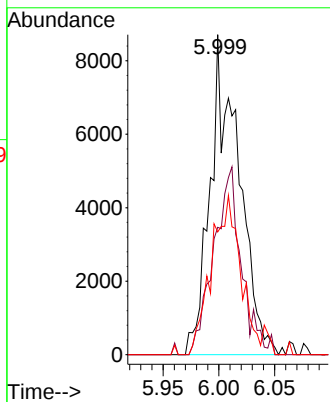
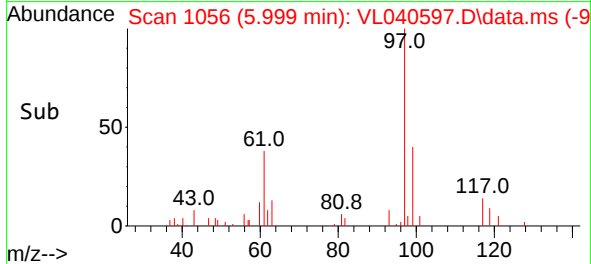
Instrument :
MSVOA_L
ClientSampleId :
OA-1



Tgt Ion: 97 Resp: 1568
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0
61 0.0 38.9 58.3

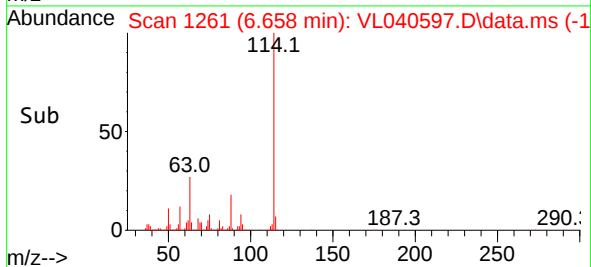
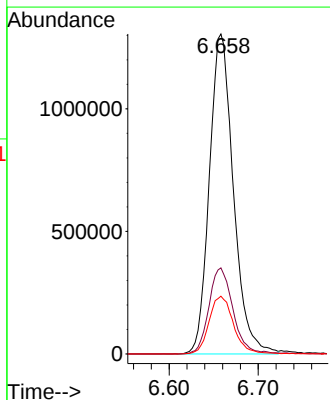
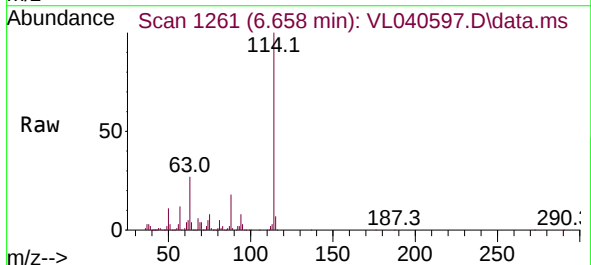
Manual Integrations
APPROVED

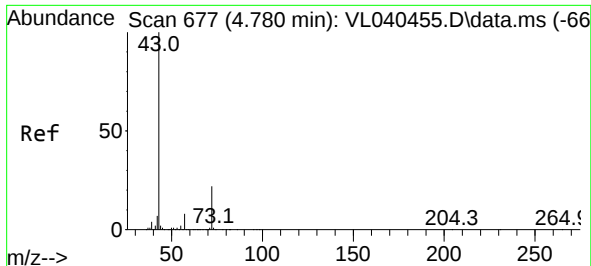
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.006 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

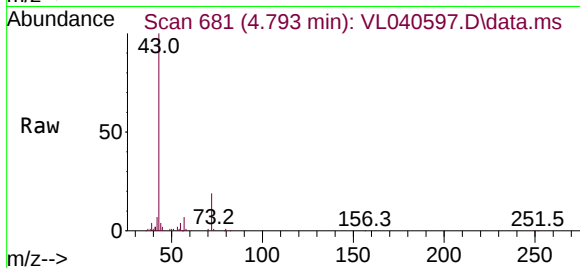
Tgt Ion:114 Resp: 2443936
Ion Ratio Lower Upper
114 100
63 27.2 19.6 29.4
88 18.5 14.2 21.2





#34
2-Butanone
Concen: 1.214 ppbv
RT: 4.793 min Scan# 681
Delta R.T. 0.000 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

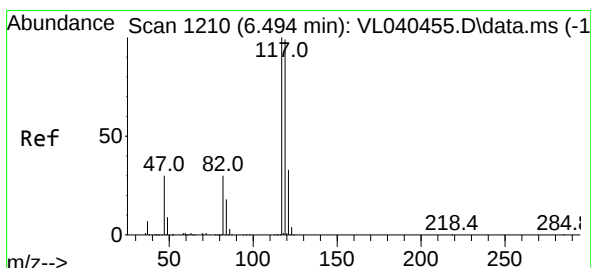
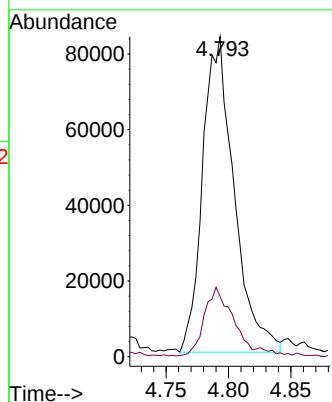
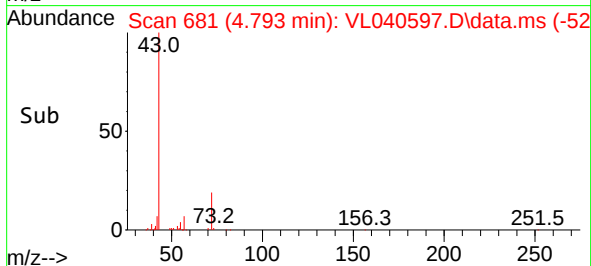
Instrument :
MSVOA_L
ClientSampleId :
OA-1



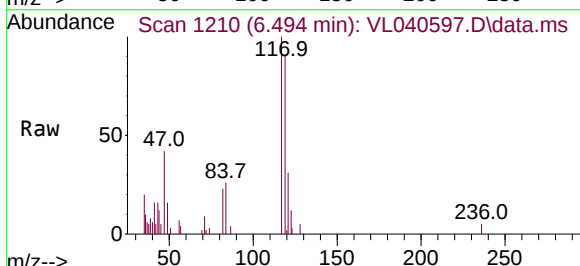
Tgt Ion: 43 Resp: 146629
Ion Ratio Lower Upper
43 100
72 22.0 19.1 28.7

Manual Integrations
APPROVED

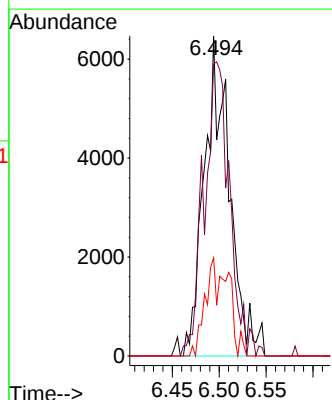
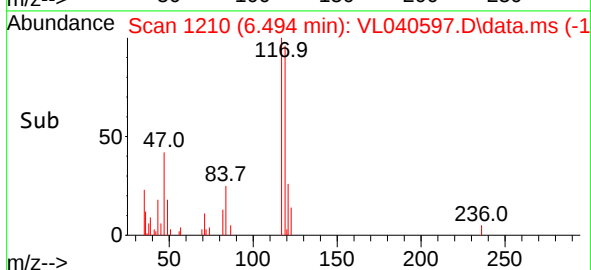
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

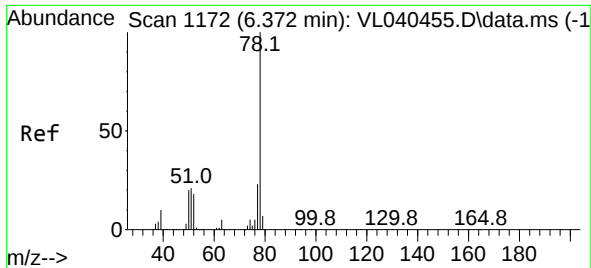


#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 6.494 min Scan# 1210
Delta R.T. -0.010 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54



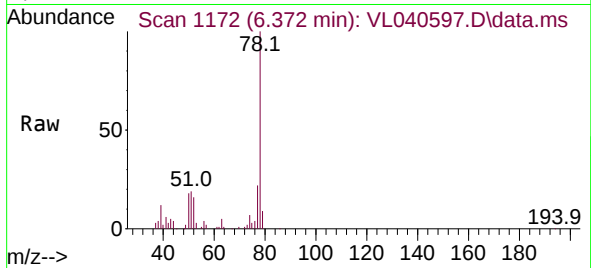
Tgt Ion:117 Resp: 12073
Ion Ratio Lower Upper
117 100
119 91.3 77.8 116.6
121 30.7 24.8 37.2





#36
Benzene
Concen: 0.540 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.010 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

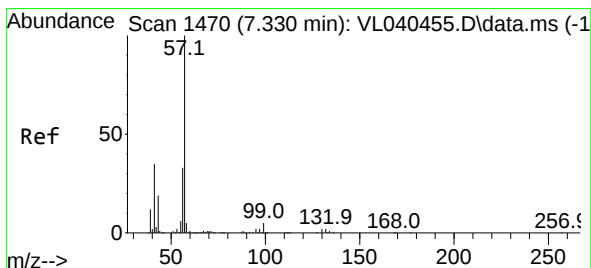
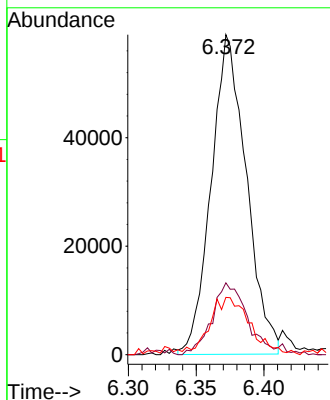
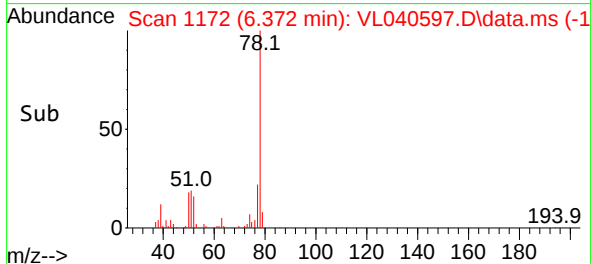
Instrument :
MSVOA_L
ClientSampleId :
OA-1



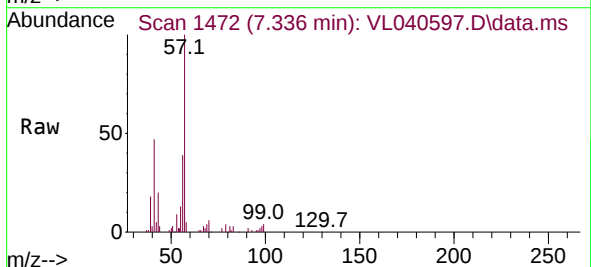
Tgt Ion: 78 Resp: 10618
Ion Ratio Lower Upper
78 100
77 22.8 17.4 26.0
50 16.6 14.4 21.6

Manual Integrations
APPROVED

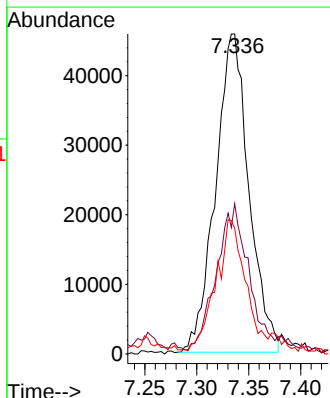
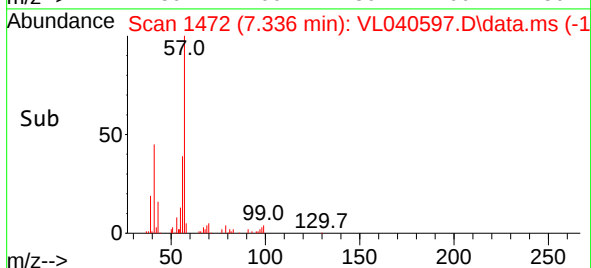
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

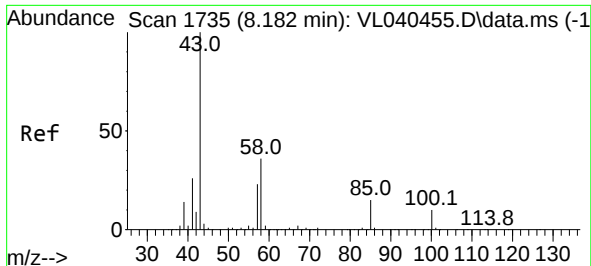


#44
2,2,4-Trimethylpentane
Concen: 0.323 ppbv
RT: 7.336 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54



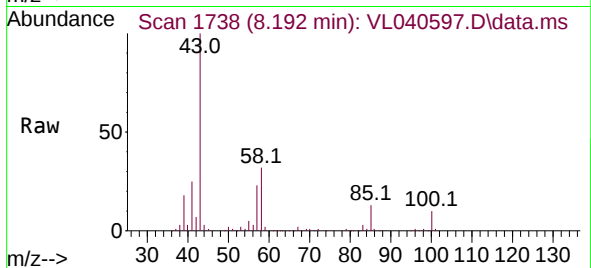
Tgt Ion: 57 Resp: 102245
Ion Ratio Lower Upper
57 100
41 51.7 25.5 38.3#
56 42.1 25.1 37.7#





#50
4-Methyl-2-Pentanone
Concen: 1.883 ppbv
RT: 8.192 min Scan# 1735
Delta R.T. 0.000 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

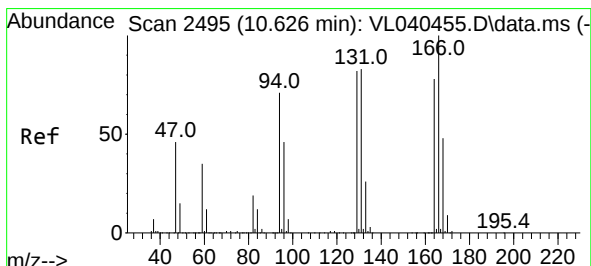
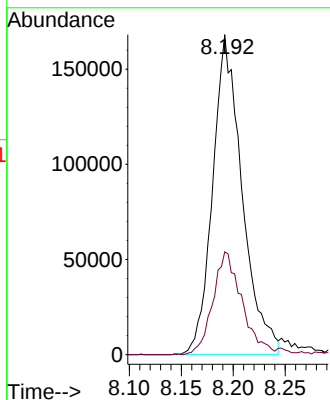
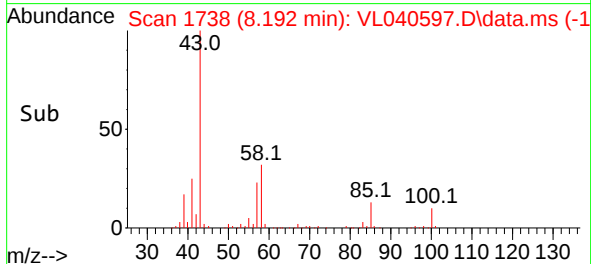
Instrument :
MSVOA_L
ClientSampleId :
OA-1



Tgt Ion: 43 Resp: 330379
Ion Ratio Lower Upper
43 100
58 33.2 30.2 45.2

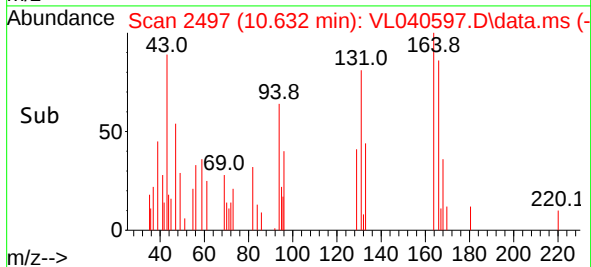
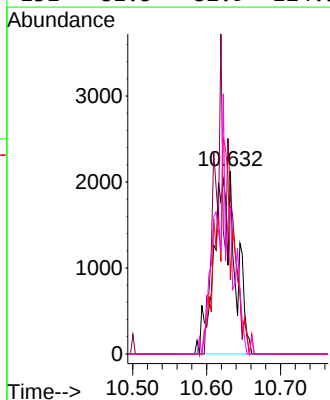
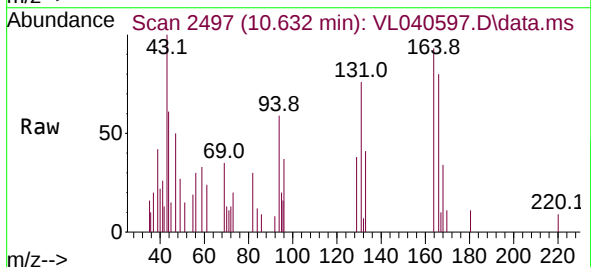
Manual Integrations
APPROVED

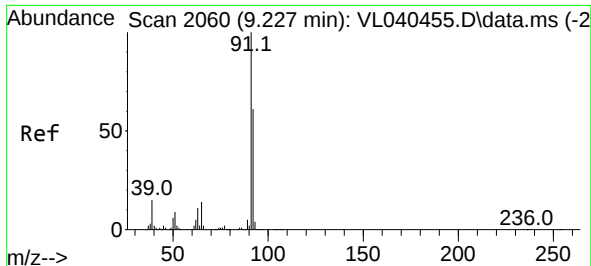
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#52
Tetrachloroethene
Concen: 0.066 ppbv m
RT: 10.632 min Scan# 2497
Delta R.T. 0.006 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

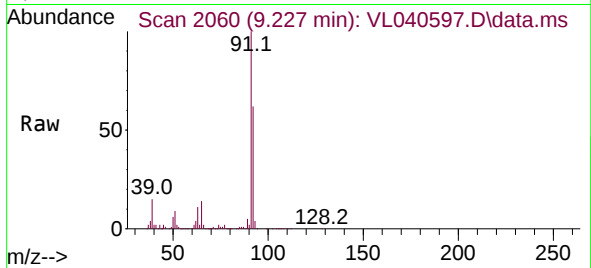
Tgt Ion:164 Resp: 4172
Ion Ratio Lower Upper
164 100
166 85.9 103.9 155.9#
129 40.7 84.6 126.8#
131 81.5 82.9 124.3#





#53
Toluene
Concen: 10.985 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. -0.003 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

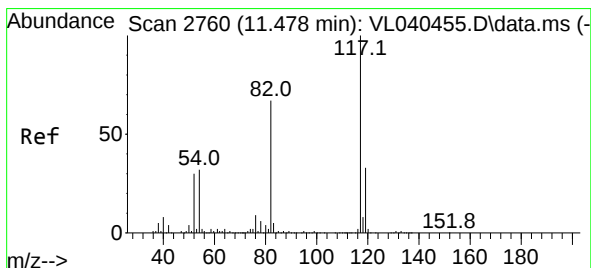
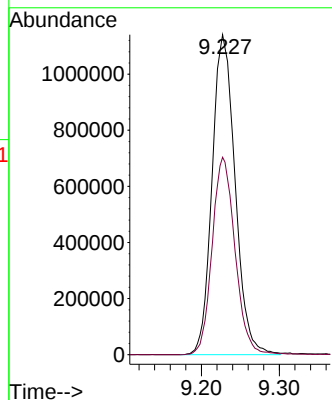
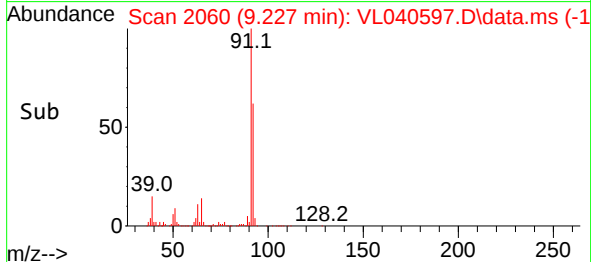
Instrument :
MSVOA_L
ClientSampleId :
OA-1



Tgt Ion: 91 Resp: 234631
Ion Ratio Lower Upper
91 100
92 61.5 49.1 73.7

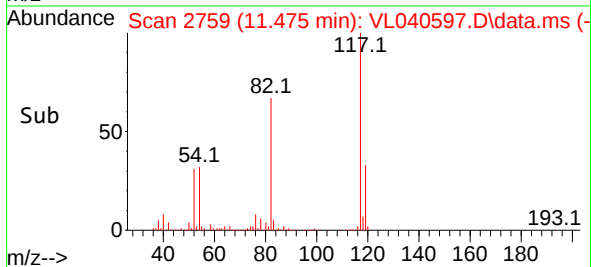
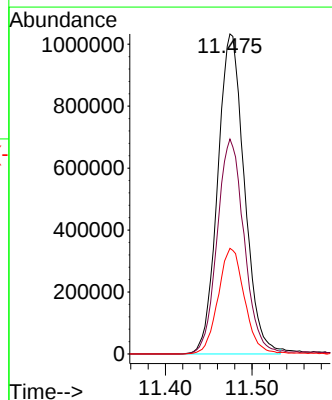
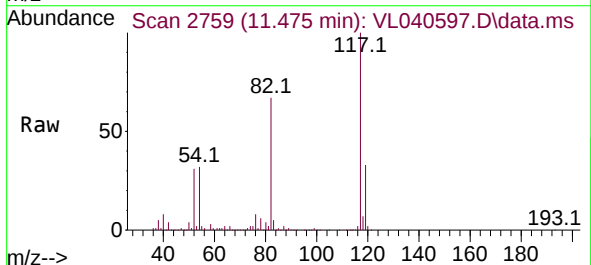
Manual Integrations
APPROVED

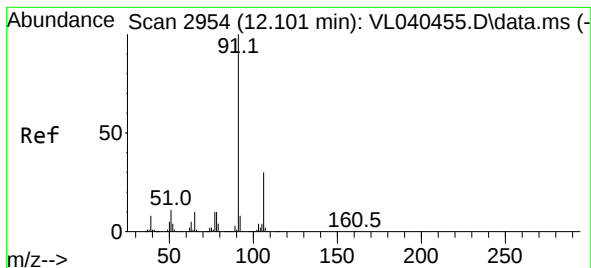
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 2759
Delta R.T. -0.003 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

Tgt Ion:117 Resp: 2213480
Ion Ratio Lower Upper
117 100
82 68.0 50.2 75.4
119 32.9 26.9 40.3





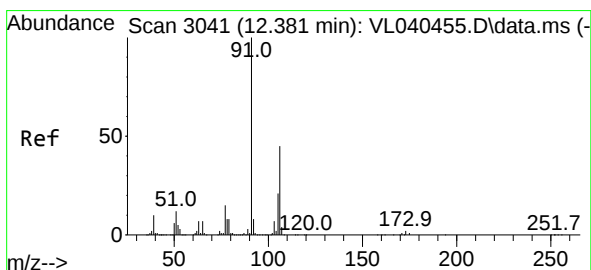
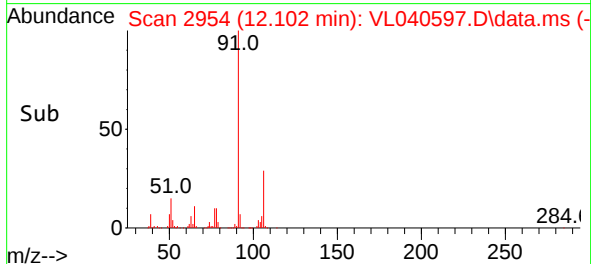
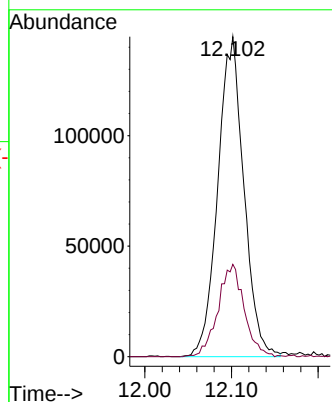
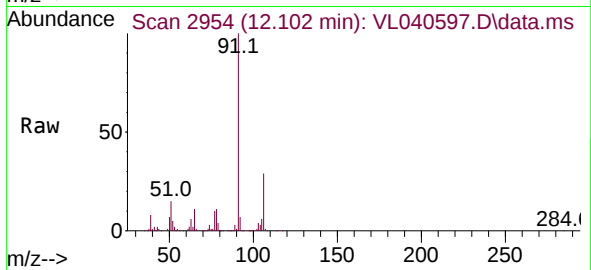
#58
Ethyl Benzene
Concen: 1.088 ppbv
RT: 12.102 min Scan# 2954
Delta R.T. 0.000 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tgt Ion: 91 Resp: 30230
Ion Ratio Lower Upper
91 100
106 28.9 25.4 38.0

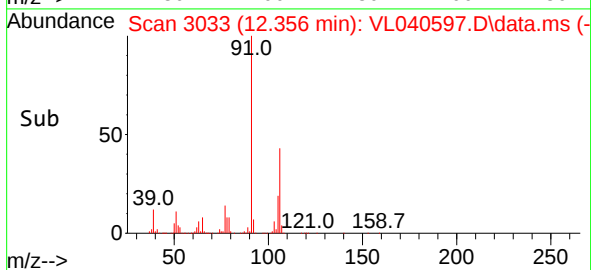
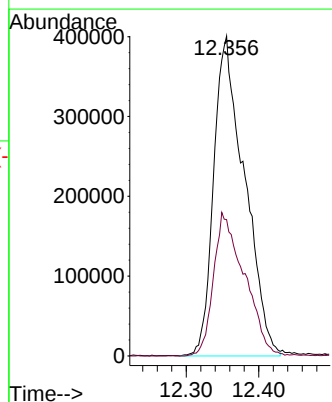
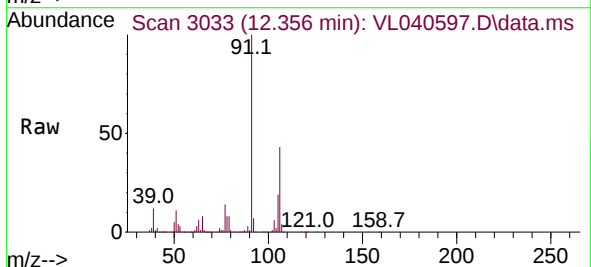
Manual Integrations
APPROVED

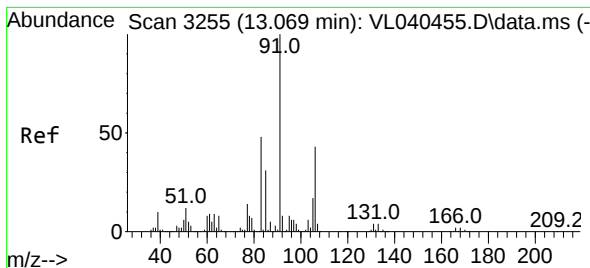
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#59
m/p-Xylene
Concen: 4.762 ppbv
RT: 12.356 min Scan# 3033
Delta R.T. -0.029 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

Tgt Ion: 91 Resp: 1180641
Ion Ratio Lower Upper
91 100
106 45.2 35.9 53.9





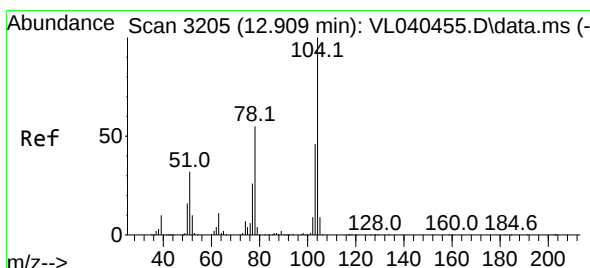
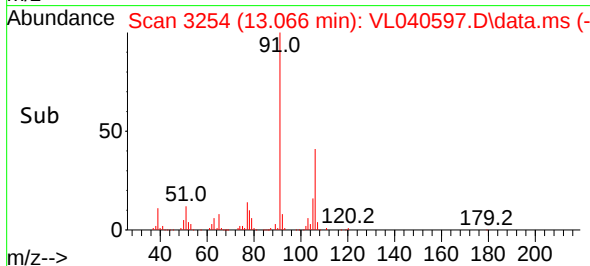
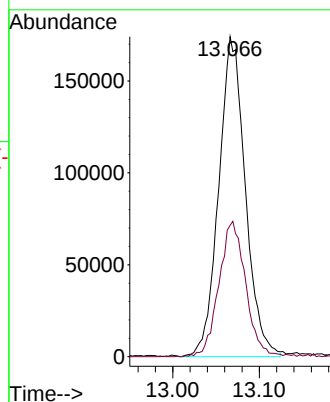
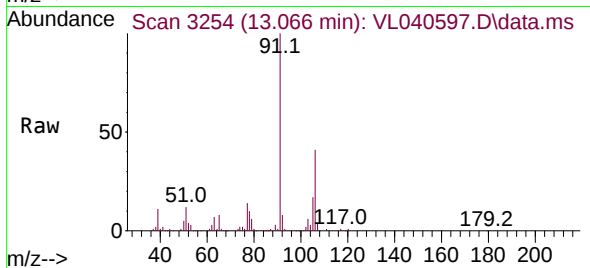
#60
o-Xylene
Concen: 1.571 ppbv
RT: 13.066 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tgt Ion: 91 Resp: 37099
Ion Ratio Lower Upper
91 100
106 42.6 22.7 68.0

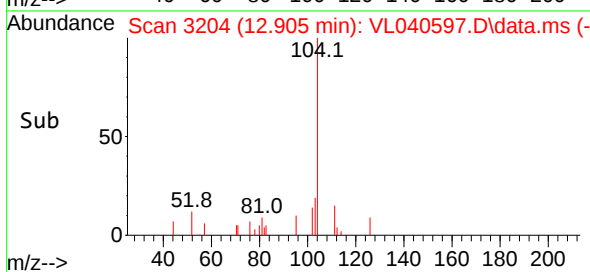
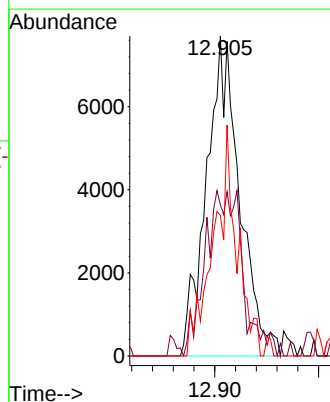
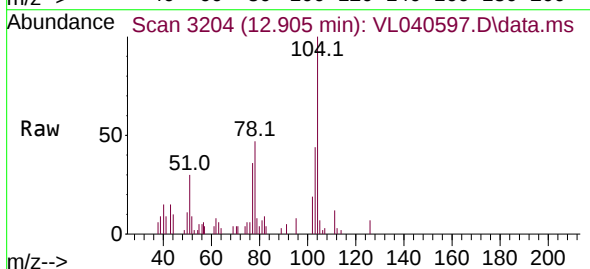
Manual Integrations
APPROVED

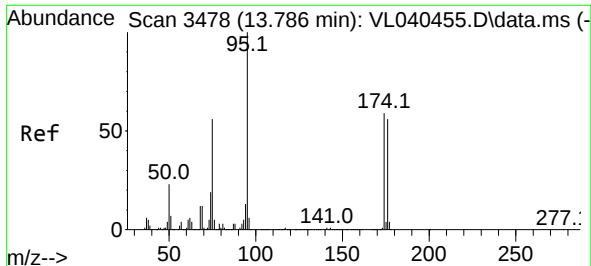
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#61
Styrene
Concen: 0.157 ppbv m
RT: 12.905 min Scan# 3204
Delta R.T. -0.006 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

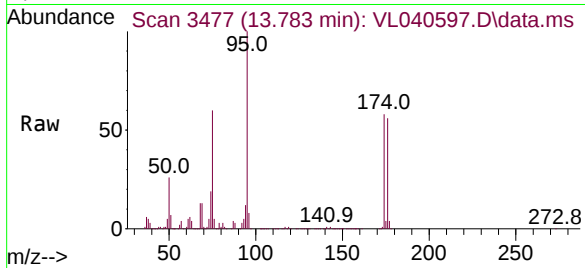
Tgt Ion:104 Resp: 17153
Ion Ratio Lower Upper
104 100
78 0.0 40.1 60.1#
103 0.0 37.0 55.4#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.496 ppbv
RT: 13.783 min Scan# 3478
Delta R.T. 0.000 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

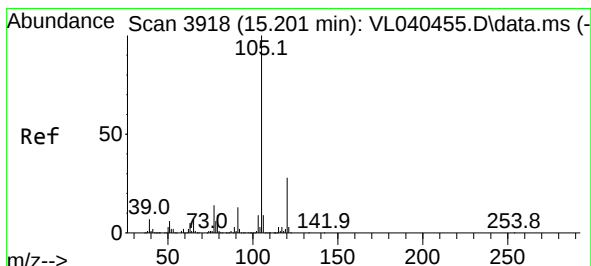
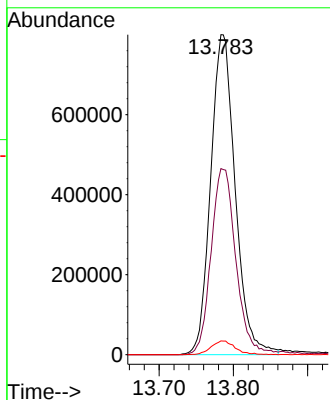
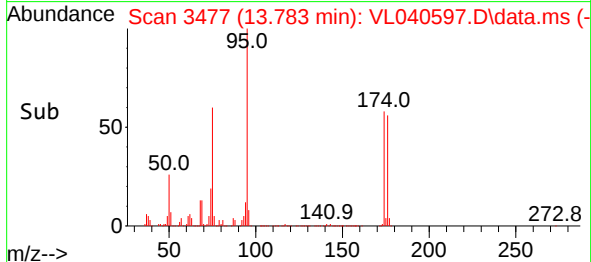
Instrument :
MSVOA_L
ClientSampleId :
OA-1



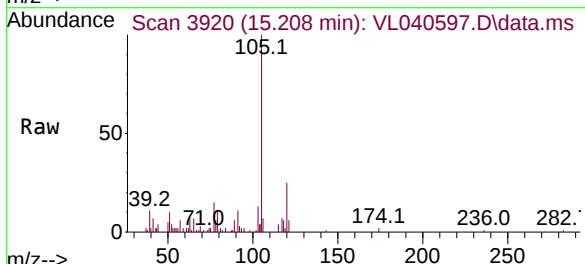
Tgt Ion: 95 Resp: 183876
Ion Ratio Lower Upper
95 100
174 59.5 50.6 75.8
175 4.3 3.7 5.5

Manual Integrations
APPROVED

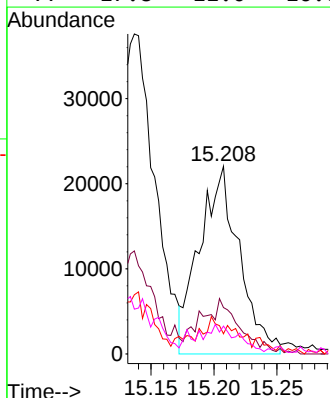
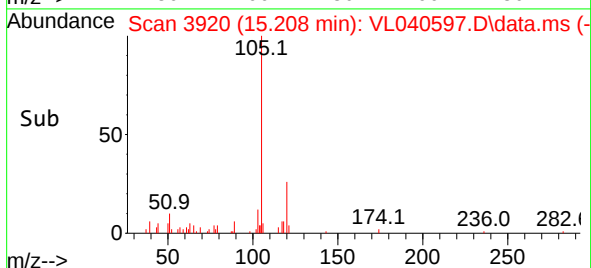
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

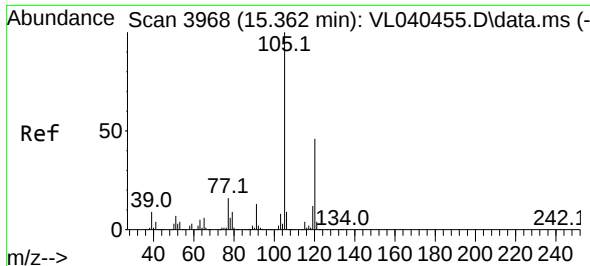


#72
4-Ethyltoluene
Concen: 0.175 ppbv m
RT: 15.208 min Scan# 3920
Delta R.T. 0.003 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54



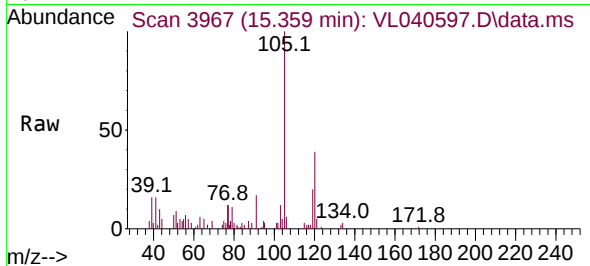
Tgt Ion:105 Resp: 48461
Ion Ratio Lower Upper
105 100
120 29.9 24.6 37.0
91 20.3 10.7 16.1#
77 17.8 11.0 16.6#





#73
1,3,5-Trimethylbenzene
Concen: 0.142 ppbv m
RT: 15.359 min Scan# 3967
Delta R.T. -0.003 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54

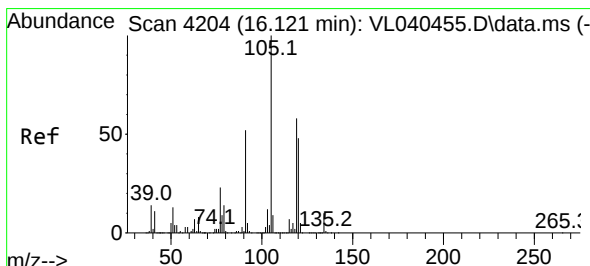
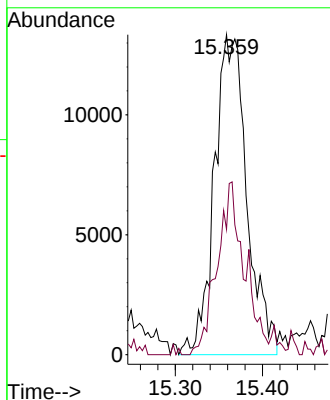
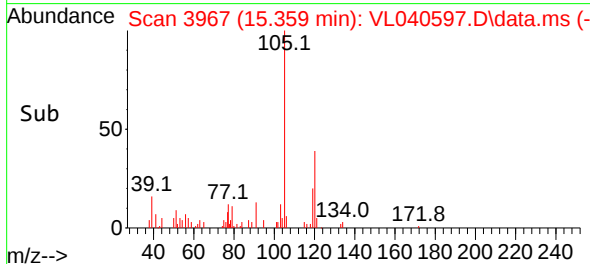
Instrument :
MSVOA_L
ClientSampleId :
OA-1



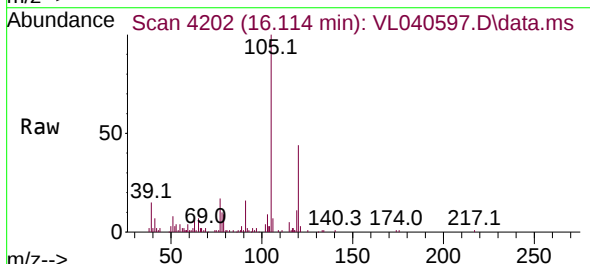
Tgt Ion:105 Resp: 3472
Ion Ratio Lower Upper
105 100
120 39.2 38.2 57.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.434 ppbv m
RT: 16.114 min Scan# 4202
Delta R.T. -0.003 min
Lab File: VL040597.D
Acq: 7 Aug 2023 13:54



Tgt Ion:105 Resp: 123419
Ion Ratio Lower Upper
105 100
120 43.9 40.3 60.5
91 16.0 46.8 70.2#
77 16.7 18.6 28.0#

