

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100423\
 Data File : VL040737.D
 Acq On : 4 Oct 2023 12:33
 Operator : SY/MD
 Sample : 04716-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023
 Supervised By :Mahesh Dadoda 10/05/2023

Quant Time: Oct 05 04:26:25 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

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

QLast Update : Tue Sep 19 05:12:43 2023

Response via : Initial Calibration

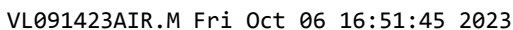
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.188	49	1086237	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3005224	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.452	117	2512155	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.760	95	1864665	9.607	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.738	85	118885	0.497	ppbv	96
3) Chlorodifluoromethane	2.684	51	150314m	0.849	ppbv	
4) Chloromethane	2.822	50	40613	0.599	ppbv	89
9) Propene	2.709	41	138622m	2.719	ppbv	
10) Heptane	7.571	43	45037	0.392	ppbv	98
11) Trichlorofluoromethane	3.565	101	47090	0.224	ppbv	94
13) Ethanol	3.240	45	421215	27.915	ppbv	99
15) Acetone	3.472	43	1368256	9.550	ppbv #	88
20) Methylene Chloride	3.935	84	429528	5.570	ppbv	93
26) Hexane	5.208	57	397997	3.642	ppbv #	43
29) Chloroform	5.266	83	19621m	0.104	ppbv	
30) Cyclohexane	6.590	84	22147m	0.269	ppbv	
34) 2-Butanone	4.790	43	81168	0.537	ppbv #	90
35) Carbon Tetrachloride	6.487	117	14793	0.072	ppbv	92
36) Benzene	6.359	78	128487	0.577	ppbv	92
38) Trichloroethene	7.278	130	6282m	0.074	ppbv	
44) 2,2,4-Trimethylpentane	7.317	57	147010	0.415	ppbv #	84
52) Tetrachloroethene	10.606	164	9638m	0.133	ppbv	
53) Toluene	9.208	91	2967757	12.631	ppbv	99
58) Ethyl Benzene	12.076	91	123648m	0.432	ppbv	
59) m/p-Xylene	12.330	91	409709m	1.523	ppbv	
60) o-Xylene	13.043	91	149974	0.585	ppbv	99
61) Styrene	12.883	104	37458m	0.348	ppbv	
73) 1,3,5-Trimethylbenzene	15.336	105	106539	0.411	ppbv	92
74) 1,2,4-Trimethylbenzene	16.095	105	325525	1.031	ppbv #	63

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

Manual Integrations

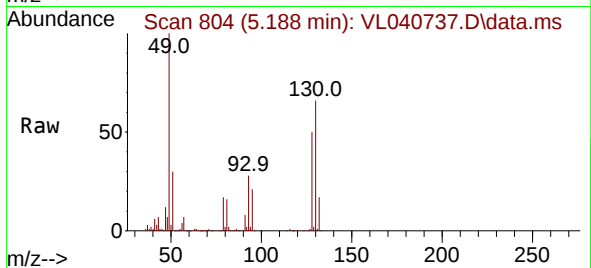
Quant Time: Oct 05 04:26:25 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 803
Delta R.T. -0.010 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

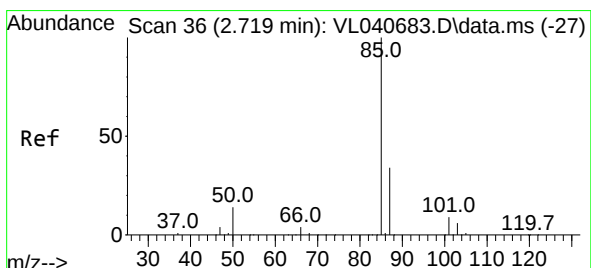
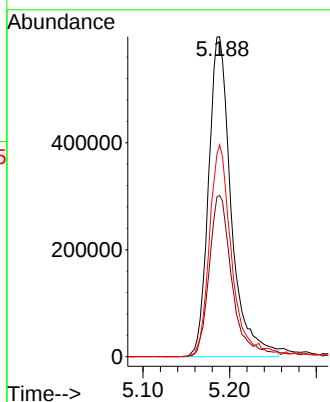
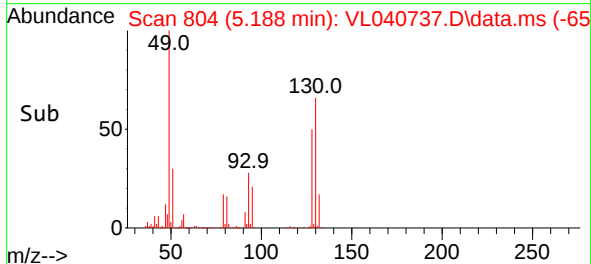
Instrument :
MSVOA_L
ClientSampleId :
IA1



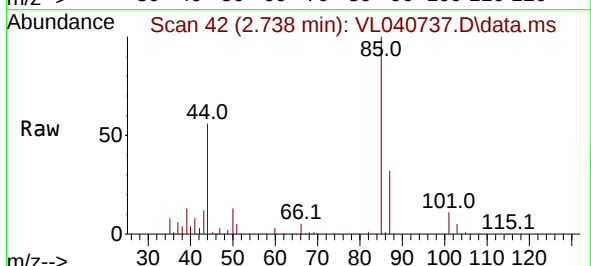
Tgt Ion: 49 Resp: 108623
Ion Ratio Lower Upper
49 100
128 52.2 25.4 76.0
130 67.3 32.3 96.8

Manual Integrations
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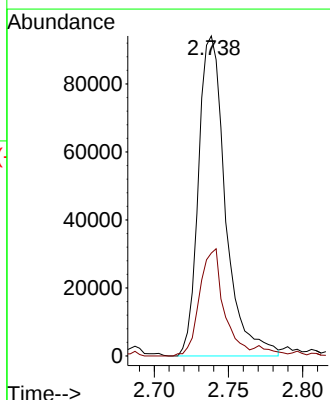
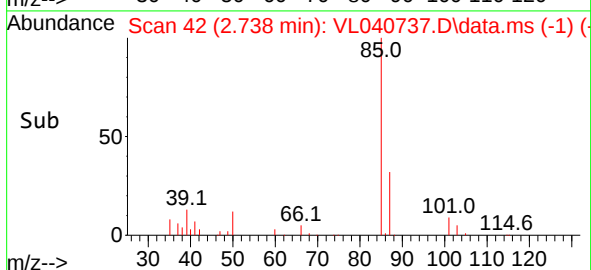
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

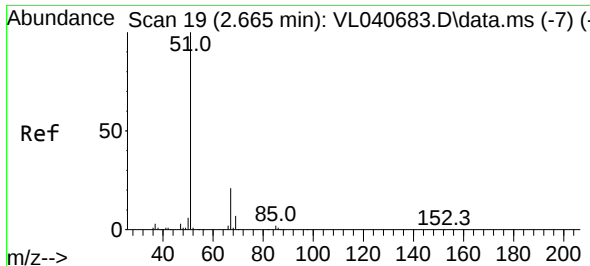


#2
Dichlorodifluoromethane
Concen: 0.497 ppbv
RT: 2.738 min Scan# 42
Delta R.T. 0.006 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33



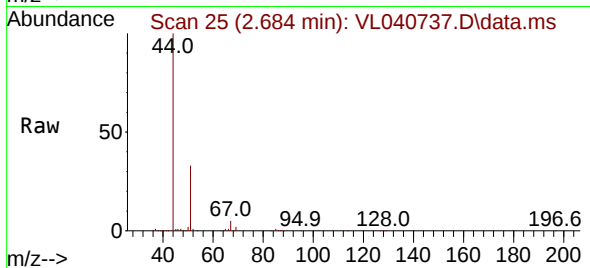
Tgt Ion: 85 Resp: 118885
Ion Ratio Lower Upper
85 100
87 31.5 27.2 40.8





#3
Chlorodifluoromethane
Concen: 0.849 ppbv m
RT: 2.684 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

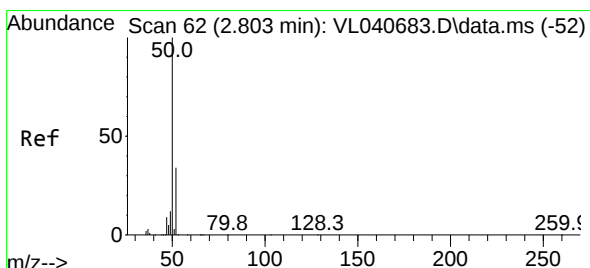
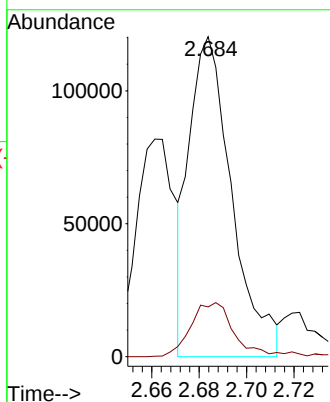
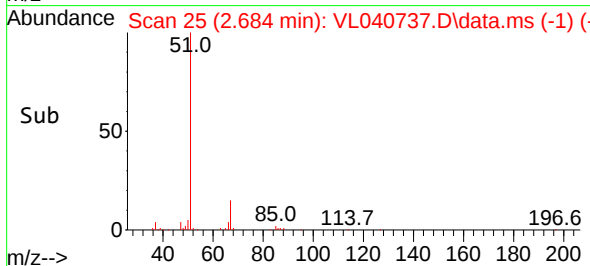
Instrument :
MSVOA_L
ClientSampleId :
IA1



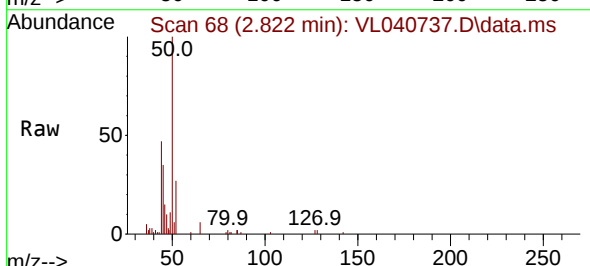
Tgt Ion: 51 Resp: 150314
Ion Ratio Lower Upper
51 100
67 18.2 16.7 25.1

Manual Integrations
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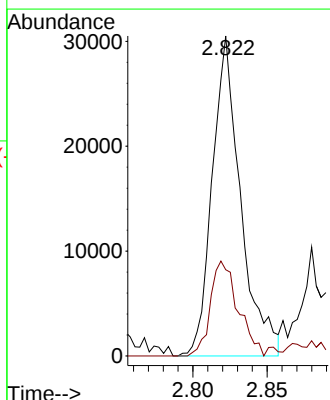
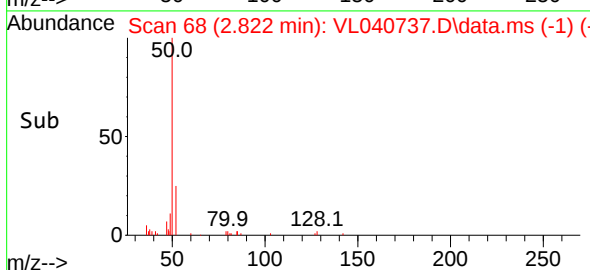
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

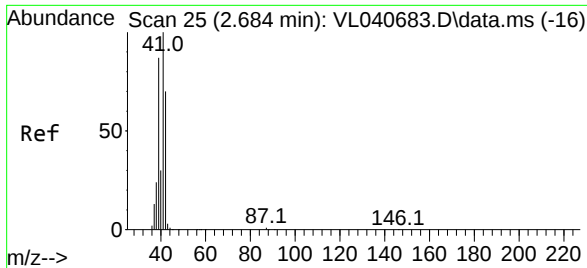


#4
Chloromethane
Concen: 0.599 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.006 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33



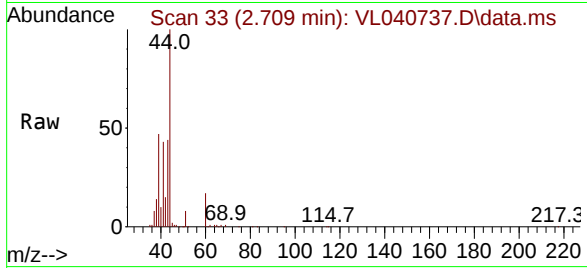
Tgt Ion: 50 Resp: 40613
Ion Ratio Lower Upper
50 100
52 27.4 27.1 40.7





#9
 Propene
 Concen: 2.719 ppbv m
 RT: 2.709 min Scan# 31
 Delta R.T. 0.013 min
 Lab File: VL040737.D
 Acq: 4 Oct 2023 12:33

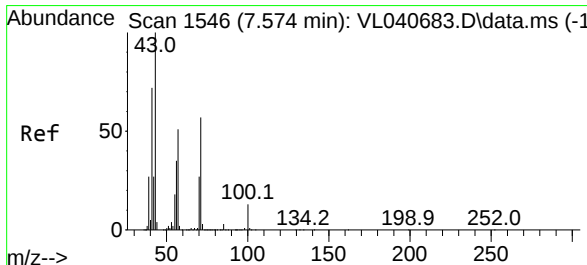
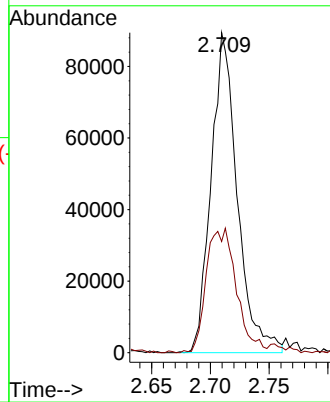
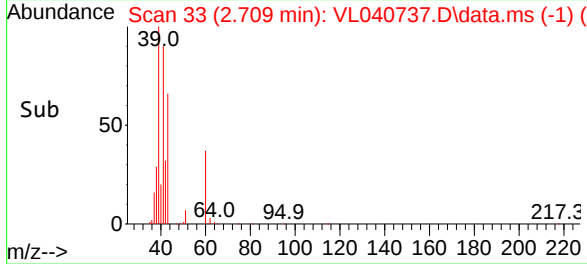
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 41 Resp: 13862
 Ion Ratio Lower Upper
 41 100
 42 163.1 56.7 85.1

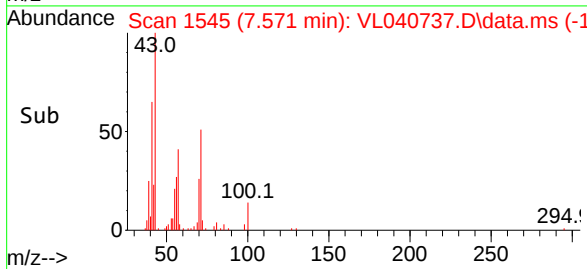
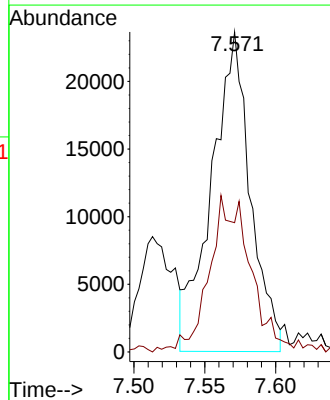
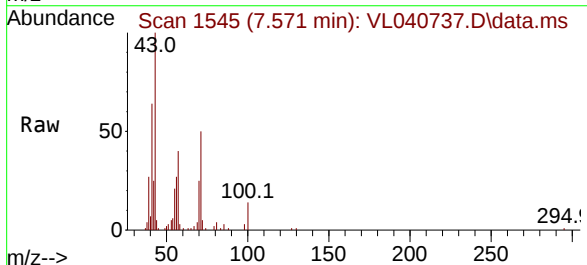
Manual Integrations
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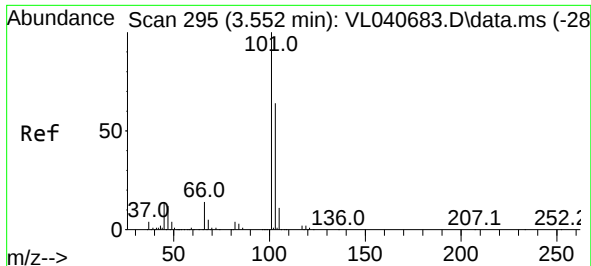
Reviewed By :Semsettin Yesilyurt 10/05/2023
 Supervised By :Mahesh Dadoda 10/05/2023



#10
 Heptane
 Concen: 0.392 ppbv
 RT: 7.571 min Scan# 1545
 Delta R.T. -0.016 min
 Lab File: VL040737.D
 Acq: 4 Oct 2023 12:33

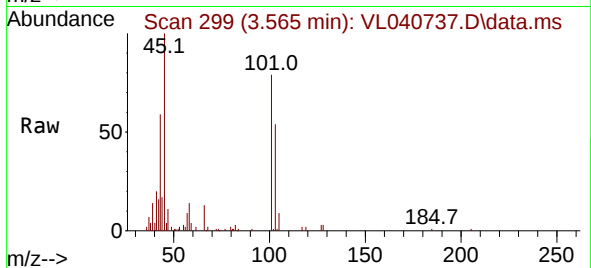
Tgt Ion: 43 Resp: 45037
 Ion Ratio Lower Upper
 43 100
 57 53.5 41.8 62.6





#11
 Trichlorofluoromethane
 Concen: 0.224 ppbv
 RT: 3.565 min Scan# 295
 Delta R.T. -0.003 min
 Lab File: VL040737.D
 Acq: 4 Oct 2023 12:33

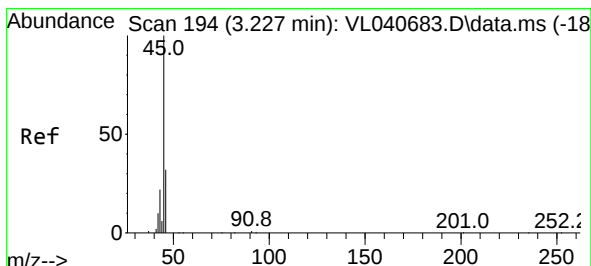
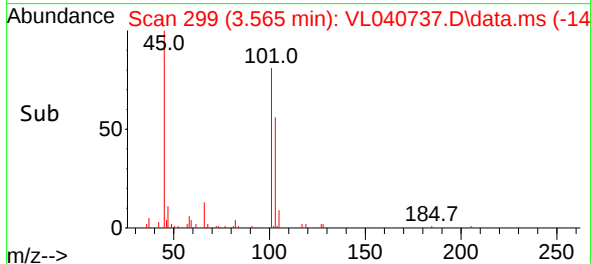
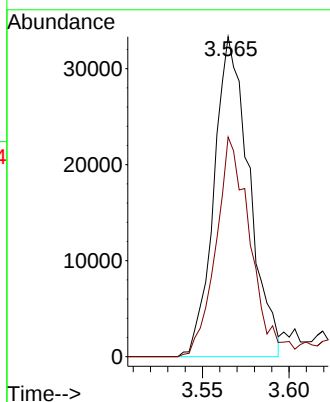
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:101 Resp: 47090
 Ion Ratio Lower Upper
 101 100
 103 68.7 51.3 76.9

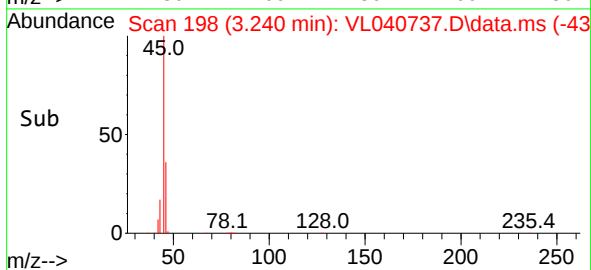
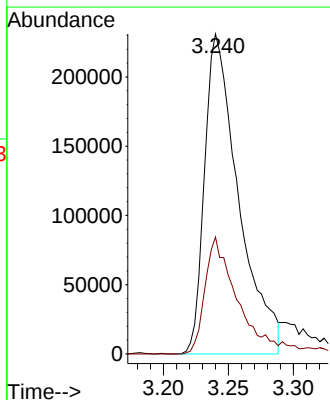
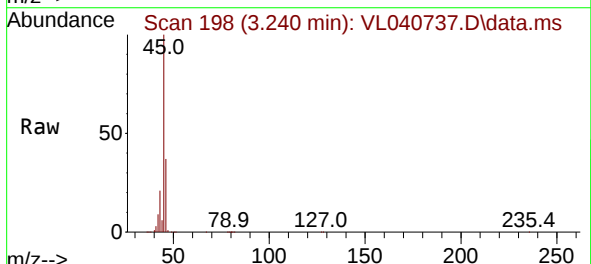
Manual Integrations
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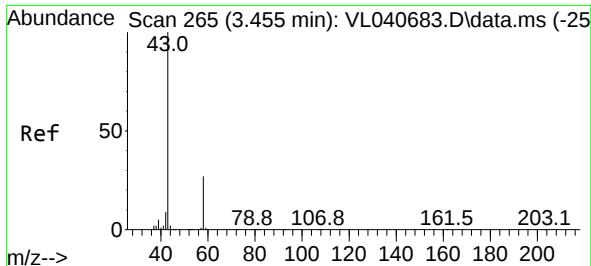
Reviewed By :Semsettin Yesilyurt 10/05/2023
 Supervised By :Mahesh Dadoda 10/05/2023



#13
 Ethanol
 Concen: 27.915 ppbv
 RT: 3.240 min Scan# 198
 Delta R.T. -0.003 min
 Lab File: VL040737.D
 Acq: 4 Oct 2023 12:33

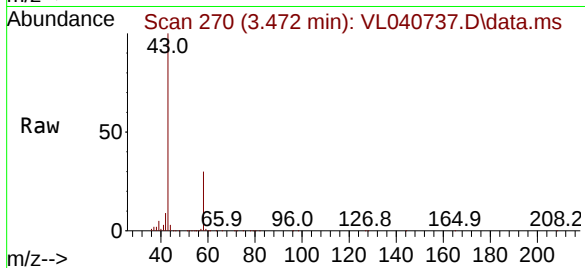
Tgt Ion: 45 Resp: 421215
 Ion Ratio Lower Upper
 45 100
 46 38.7 15.2 61.0





#15
Acetone
Concen: 9.550 ppbv
RT: 3.472 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

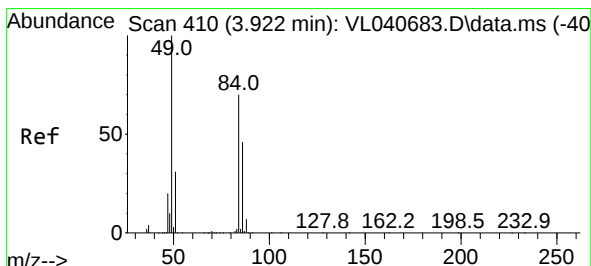
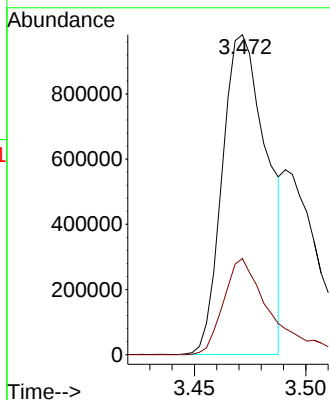
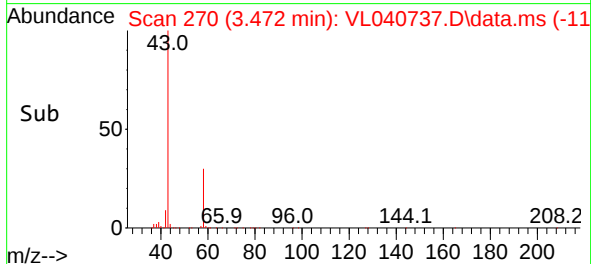
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 1368250
Ion Ratio Lower Upper
43 100
58 34.9 22.6 34.0

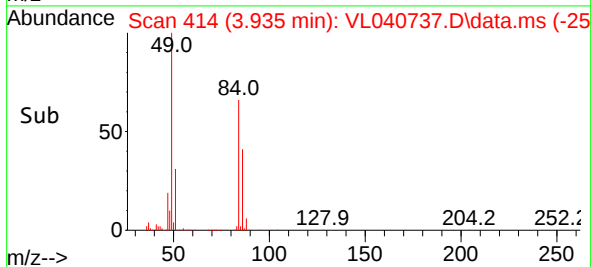
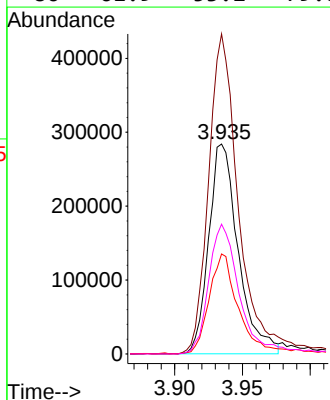
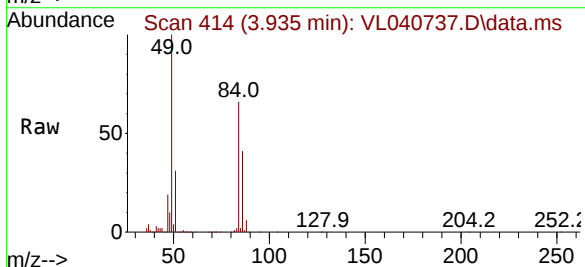
Manual Integrations
APPROVED

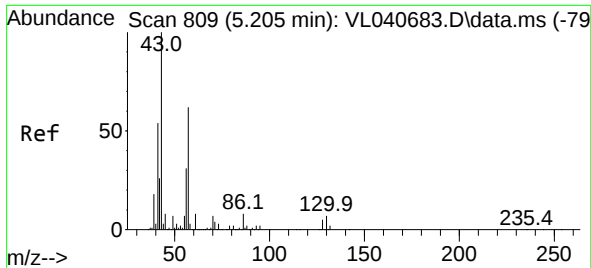
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#20
Methylene Chloride
Concen: 5.570 ppbv
RT: 3.935 min Scan# 414
Delta R.T. -0.003 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

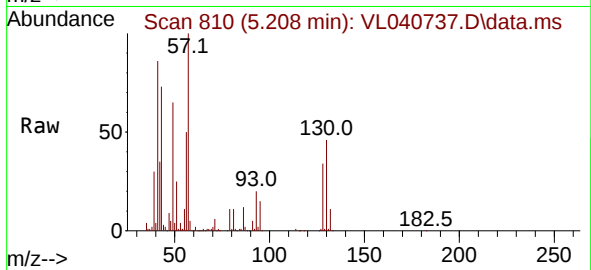
Tgt Ion: 84 Resp: 429528
Ion Ratio Lower Upper
84 100
49 152.6 114.4 171.6
51 47.6 35.5 53.3
86 61.9 53.2 79.8





#26
Hexane
Concen: 3.642 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.013 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

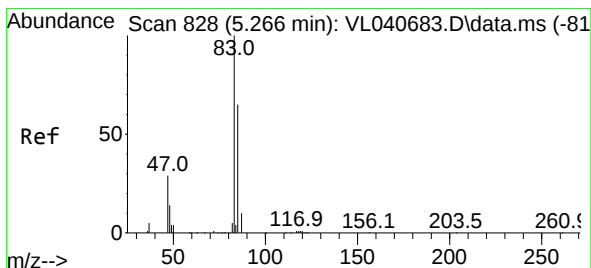
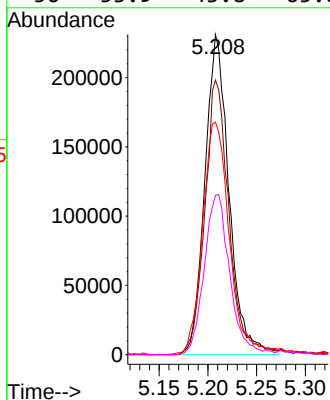
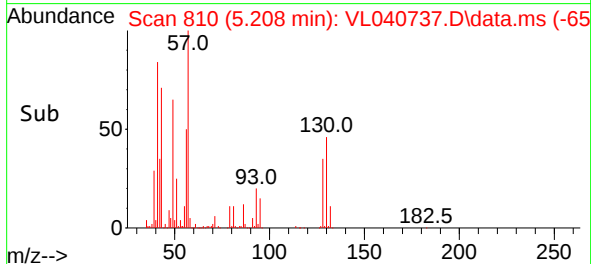
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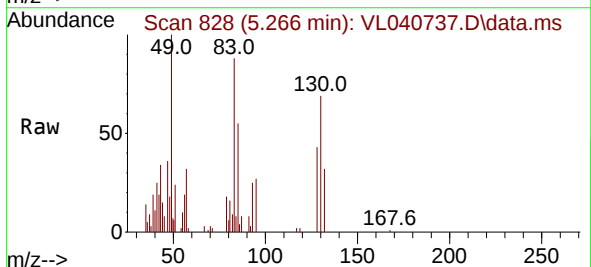
Tgt Ion: 57 Resp: 397997
Ion Ratio Lower Upper
57 100
41 86.8 75.2 112.8
43 82.4 185.6 278.4
56 53.9 43.8 65.8

Manual Integrations
APPROVED

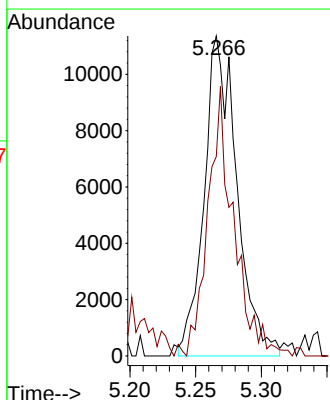
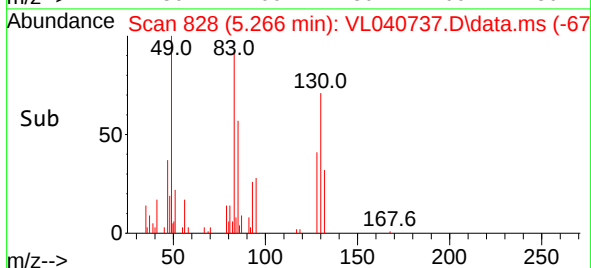
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

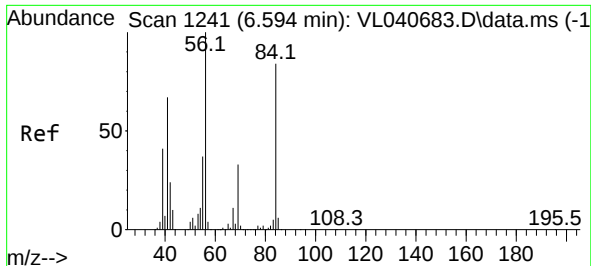


#29
Chloroform
Concen: 0.104 ppbv m
RT: 5.266 min Scan# 828
Delta R.T. -0.016 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33



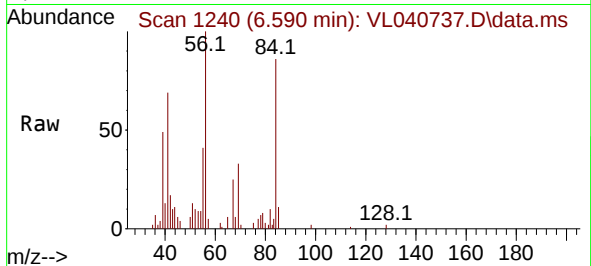
Tgt Ion: 83 Resp: 19621
Ion Ratio Lower Upper
83 100
85 62.3 51.8 77.8





#30
Cyclohexane
Concen: 0.269 ppbv m
RT: 6.590 min Scan# 1241
Delta R.T. -0.019 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

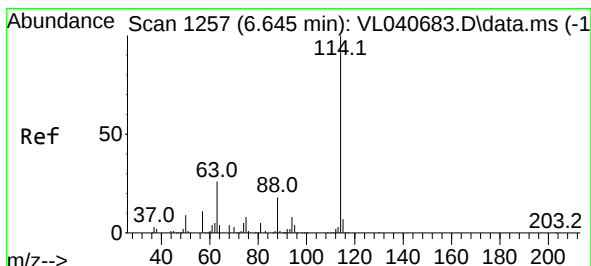
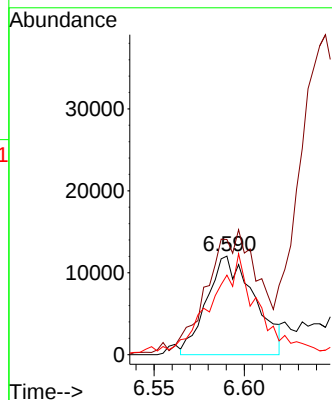
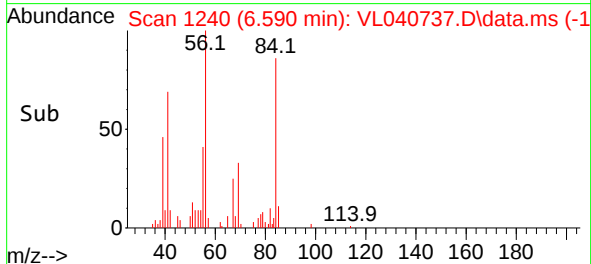
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 2214
Ion Ratio Lower Upper
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56 145.6 103.2 154.8
41 98.5 65.5 98.3

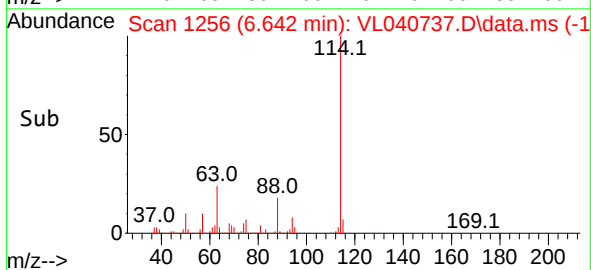
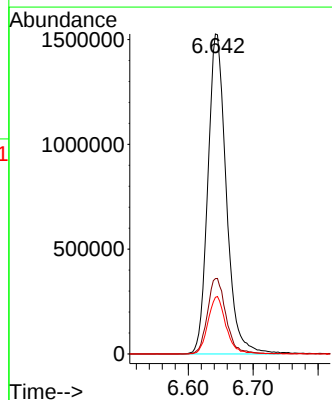
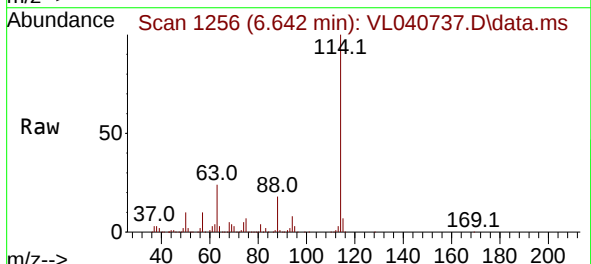
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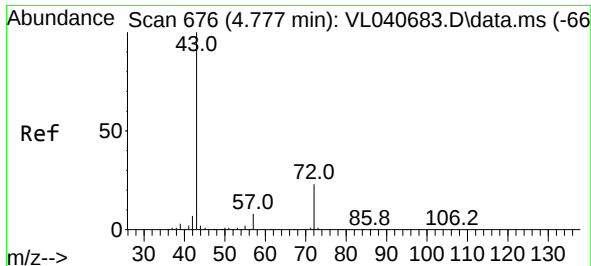
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.019 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

Tgt Ion:114 Resp: 3005224
Ion Ratio Lower Upper
114 100
63 24.1 21.1 31.7
88 17.7 14.5 21.7





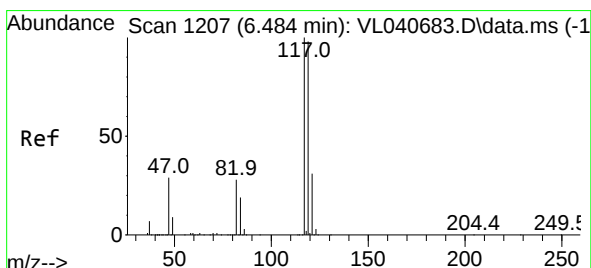
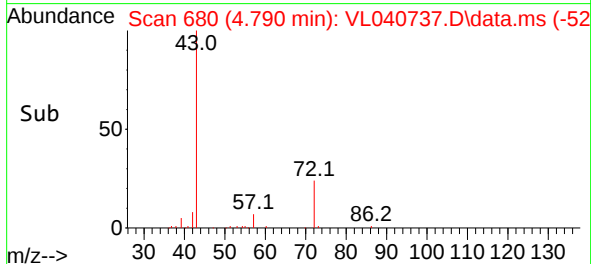
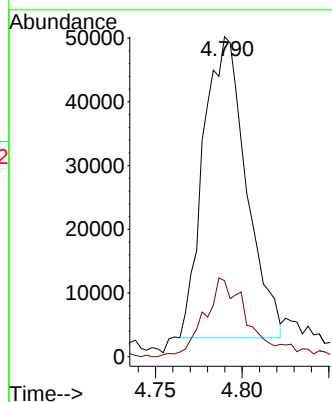
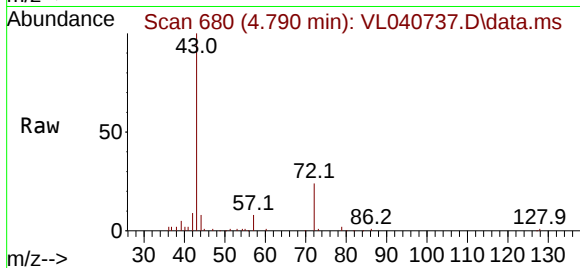
#34
2-Butanone
Concen: 0.537 ppbv
RT: 4.790 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 8116
Ion Ratio Lower Upper
43 100
72 28.3 18.6 27.8

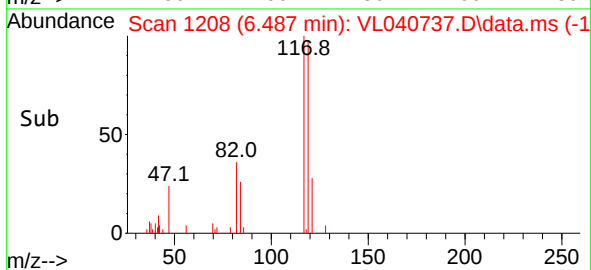
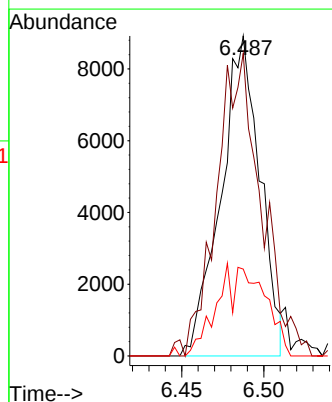
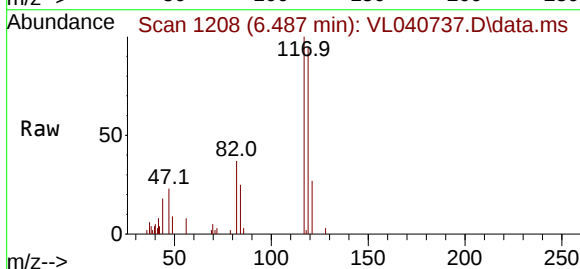
Manual Integrations
APPROVED

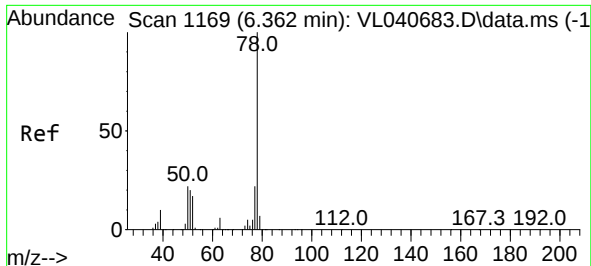
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#35
Carbon Tetrachloride
Concen: 0.072 ppbv
RT: 6.487 min Scan# 1208
Delta R.T. -0.016 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

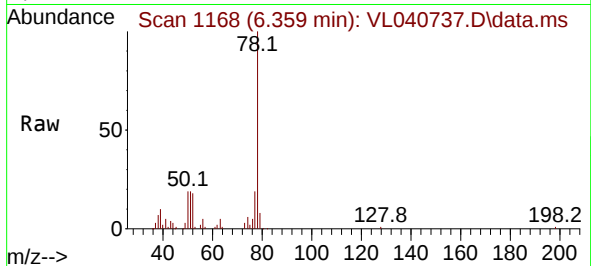
Tgt Ion:117 Resp: 14793
Ion Ratio Lower Upper
117 100
119 89.5 78.6 117.8
121 27.2 24.7 37.1





#36
Benzene
Concen: 0.577 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.023 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

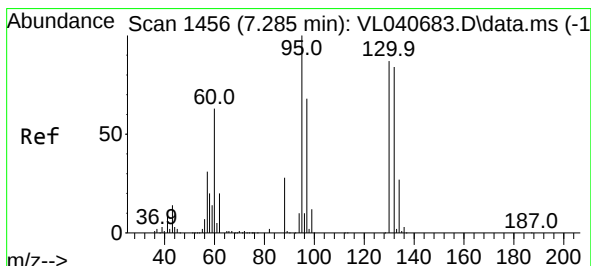
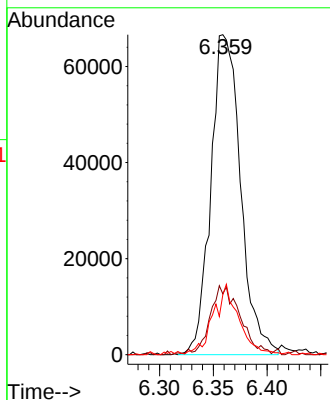
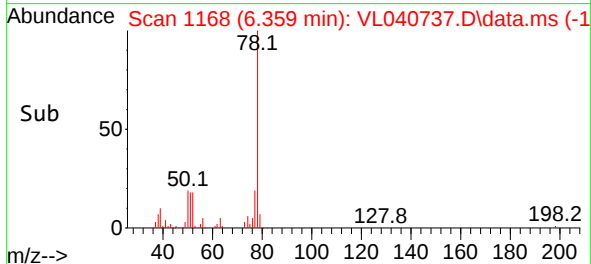
Instrument :
MSVOA_L
ClientSampleId :
IA1



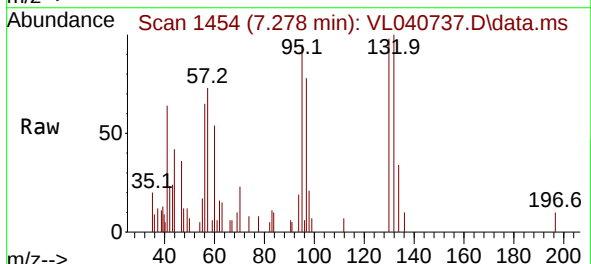
Tgt Ion: 78 Resp: 12848
Ion Ratio Lower Upper
78 100
77 18.5 17.9 26.9
50 18.1 17.3 25.9

Manual Integrations
APPROVED

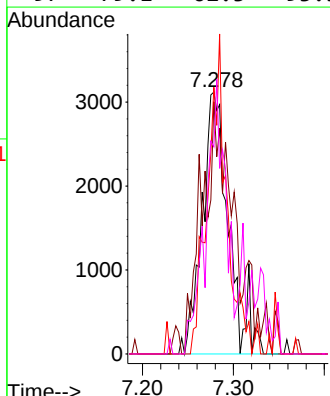
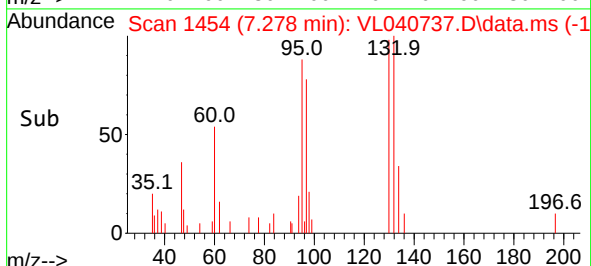
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

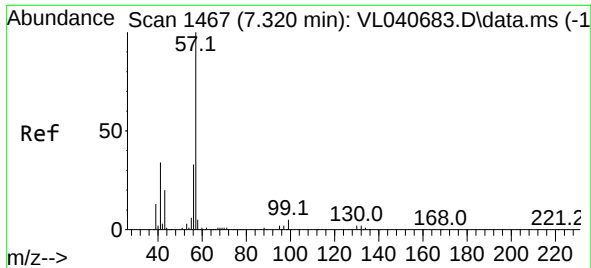


#38
Trichloroethene
Concen: 0.074 ppbv m
RT: 7.278 min Scan# 1454
Delta R.T. -0.023 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33



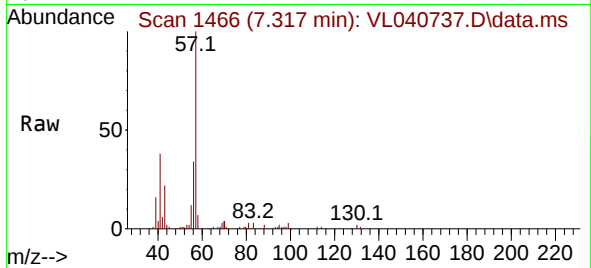
Tgt Ion:130 Resp: 6282
Ion Ratio Lower Upper
130 100
95 96.4 91.9 137.9
132 101.9 77.3 115.9
97 79.1 62.3 93.5





#44
2,2,4-Trimethylpentane
Concen: 0.415 ppbv
RT: 7.317 min Scan# 1466
Delta R.T. -0.019 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

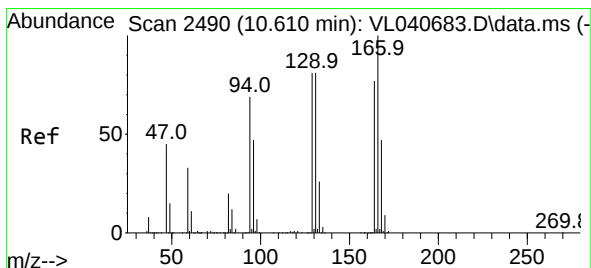
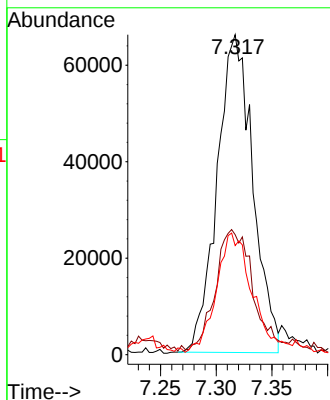
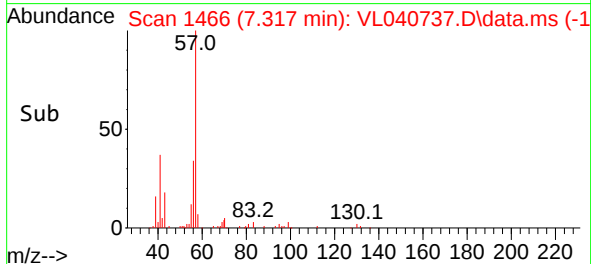
Instrument :
MSVOA_L
ClientSampleId :
IA1



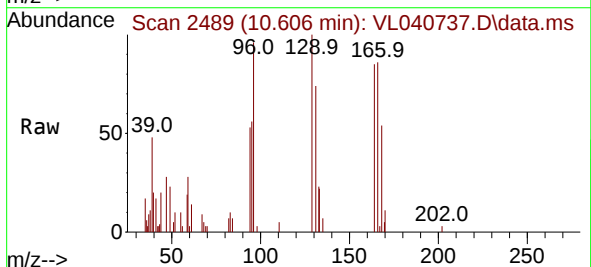
Tgt Ion: 57 Resp: 147010
Ion Ratio Lower Upper
57 100
41 43.5 28.5 42.7
56 42.4 25.4 38.2

Manual Integrations
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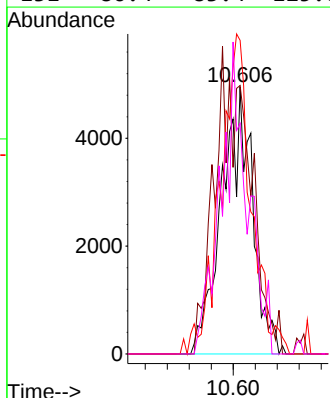
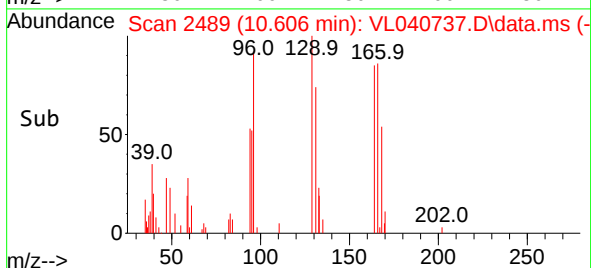
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

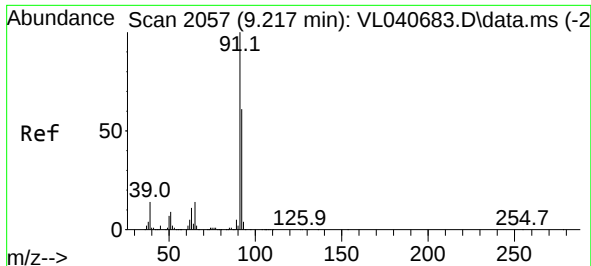


#52
Tetrachloroethene
Concen: 0.133 ppbv m
RT: 10.606 min Scan# 2489
Delta R.T. -0.019 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33



Tgt Ion:164 Resp: 9638
Ion Ratio Lower Upper
164 100
166 100.5 103.4 155.2#
129 117.4 83.5 125.3
131 86.4 83.4 125.0





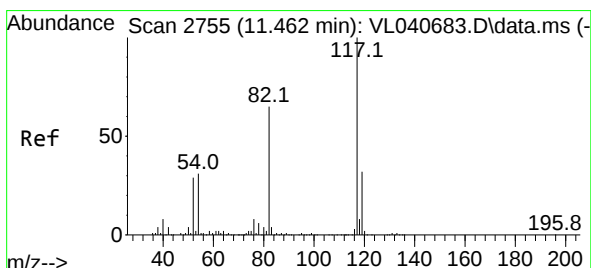
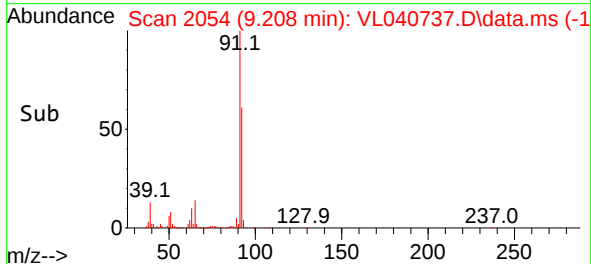
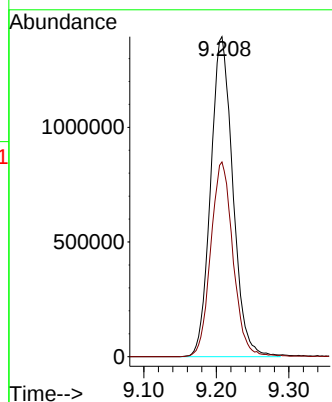
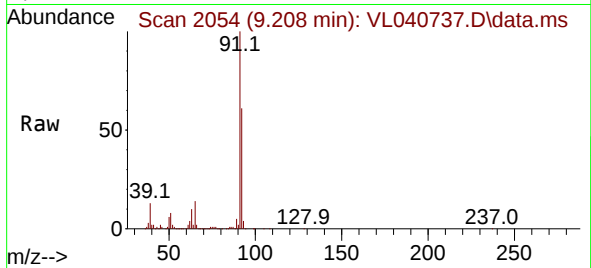
#53
Toluene
Concen: 12.631 ppbv
RT: 9.208 min Scan# 2057
Delta R.T. -0.023 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 296775
Ion Ratio Lower Upper
91 100
92 61.0 48.5 72.7

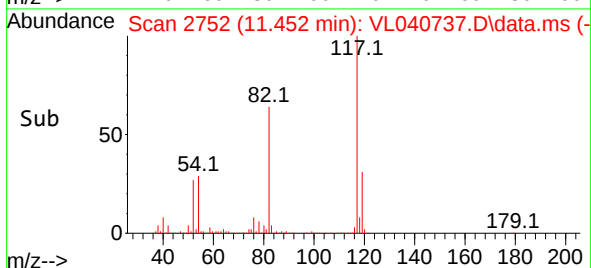
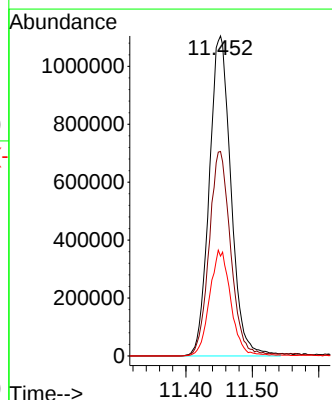
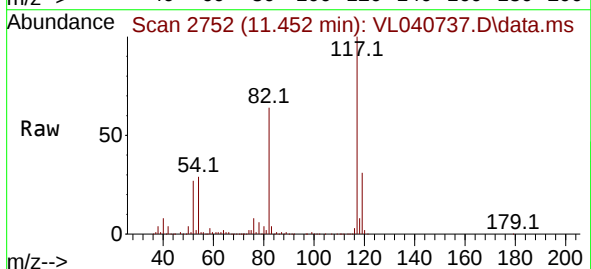
Manual Integrations
APPROVED

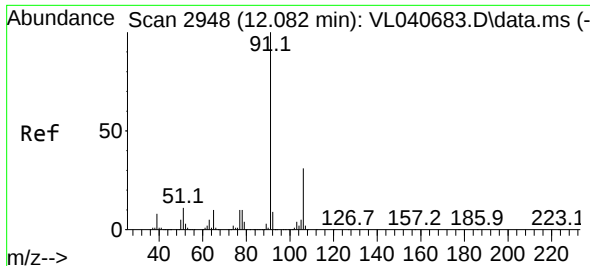
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. -0.026 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

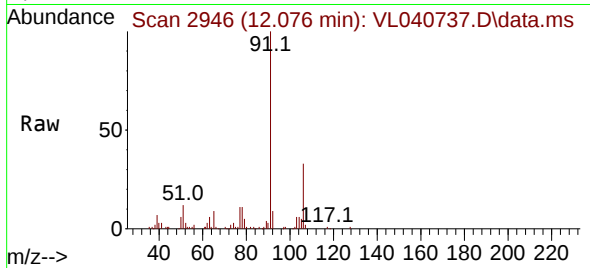
Tgt Ion:117 Resp: 2512155
Ion Ratio Lower Upper
117 100
82 64.8 51.4 77.0
119 32.6 24.7 37.1





#58
Ethyl Benzene
Concen: 0.432 ppbv m
RT: 12.076 min Scan# 2948
Delta R.T. -0.026 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

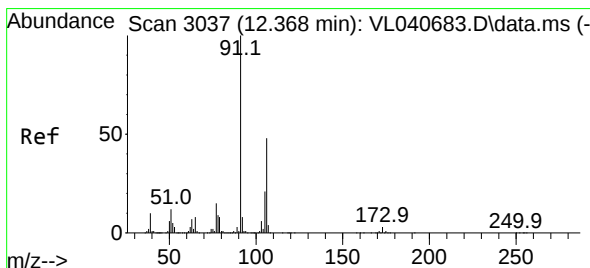
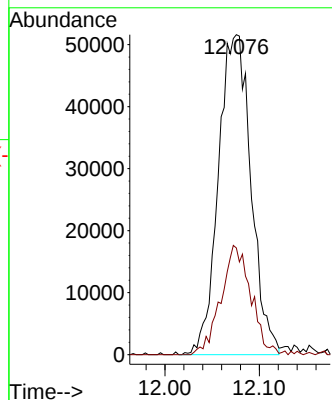
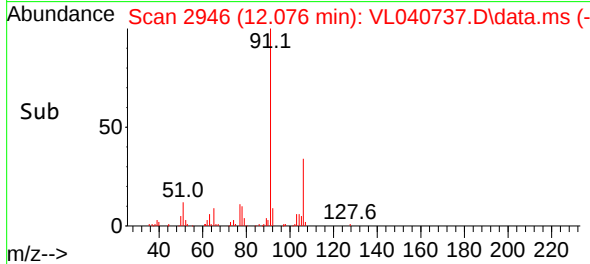
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 123648
Ion Ratio Lower Upper
91 100
106 33.3 24.7 37.1

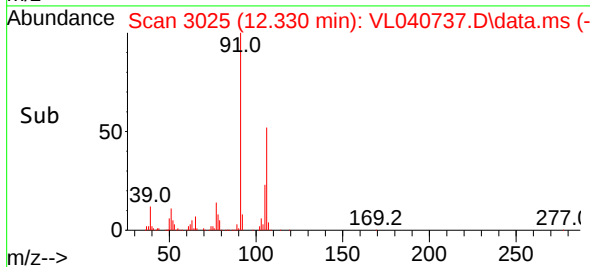
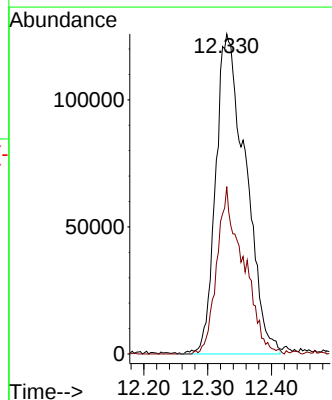
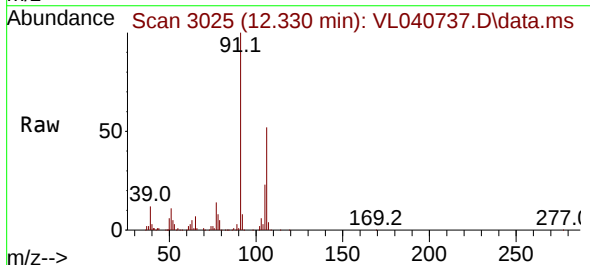
Manual Integrations
APPROVED

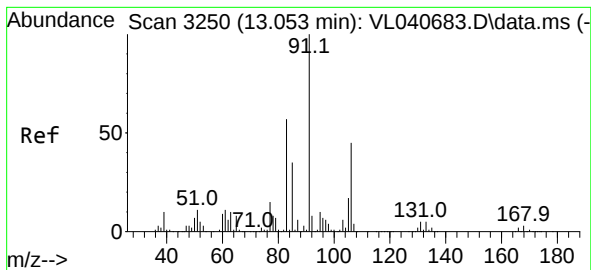
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#59
m/p-Xylene
Concen: 1.523 ppbv m
RT: 12.330 min Scan# 3025
Delta R.T. -0.051 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

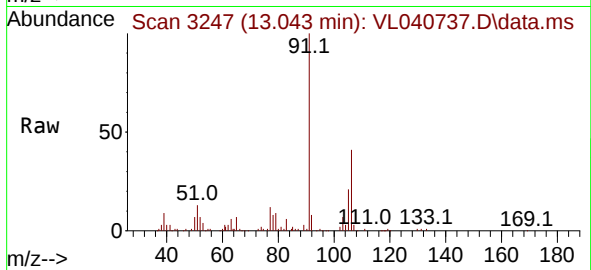
Tgt Ion: 91 Resp: 409709
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2#





#60
o-Xylene
Concen: 0.585 ppbv
RT: 13.043 min Scan# 3197
Delta R.T. -0.026 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

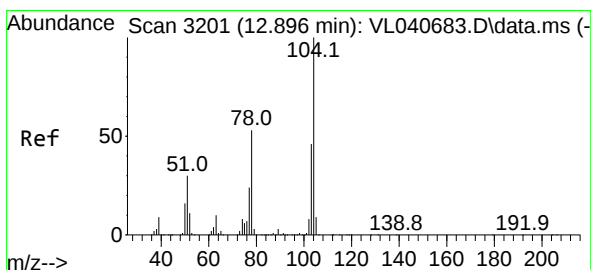
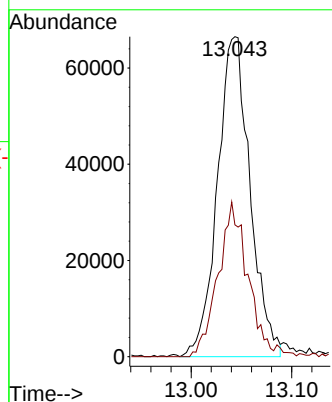
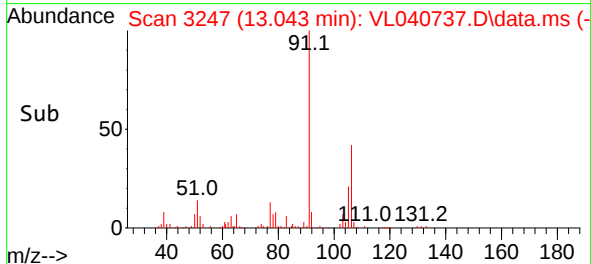
Instrument :
MSVOA_L
ClientSampleId :
IA1



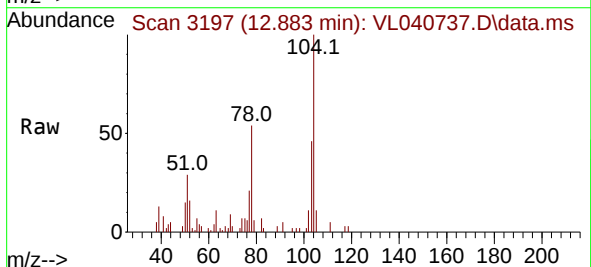
Tgt Ion: 91 Resp: 149974
Ion Ratio Lower Upper
91 100
106 44.9 22.3 66.9

Manual Integrations
APPROVED

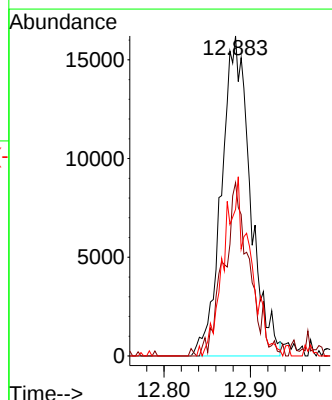
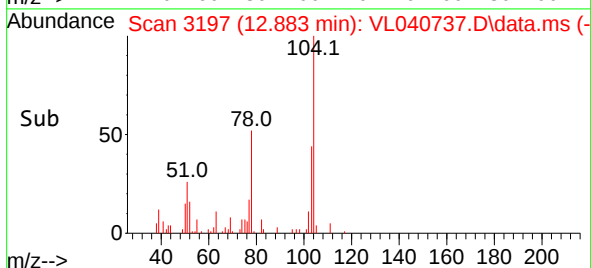
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

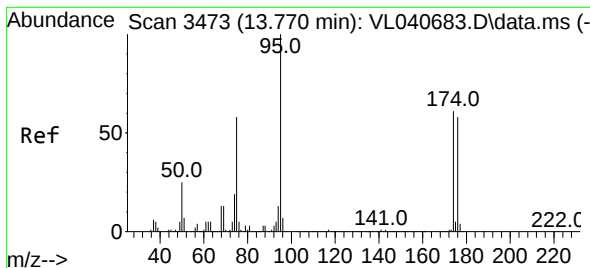


#61
Styrene
Concen: 0.348 ppbv m
RT: 12.883 min Scan# 3197
Delta R.T. -0.023 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33



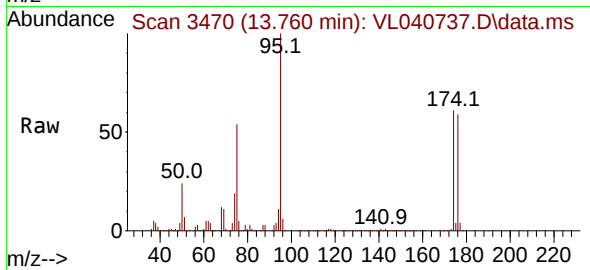
Tgt Ion:104 Resp: 37458
Ion Ratio Lower Upper
104 100
78 0.0 43.4 65.0#
103 0.0 37.2 55.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.607 ppbv
RT: 13.760 min Scan# 3473
Delta R.T. -0.026 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33

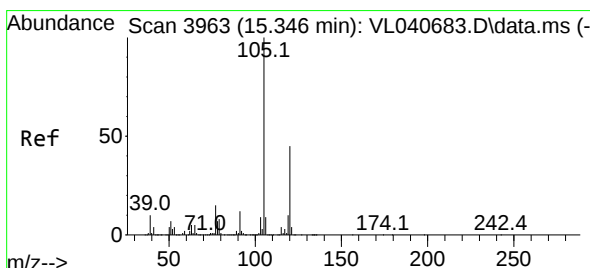
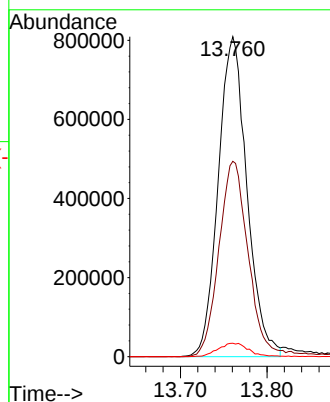
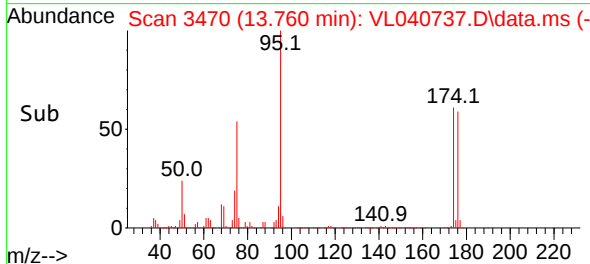
Instrument :
MSVOA_L
ClientSampleId :
IA1



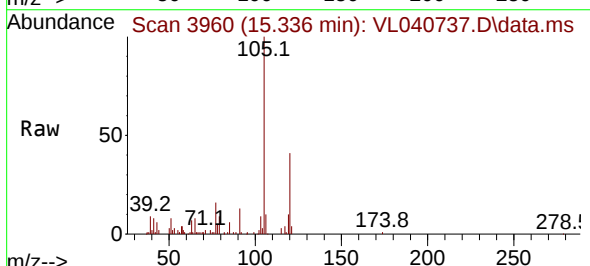
Tgt Ion: 95 Resp: 186466
Ion Ratio Lower Upper
95 100
174 64.2 48.9 73.3
175 4.6 3.5 5.3

Manual Integrations
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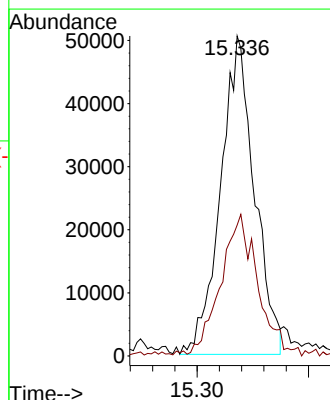
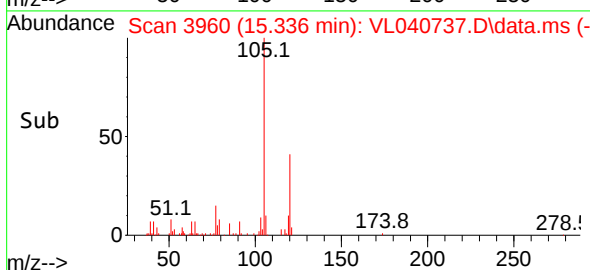
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

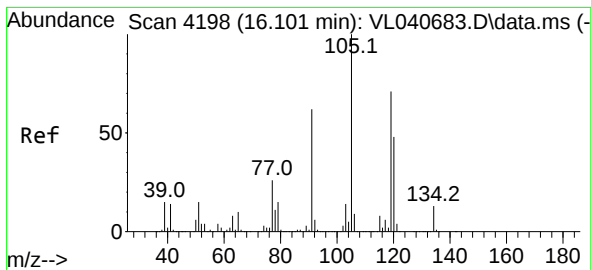


#73
1,3,5-Trimethylbenzene
Concen: 0.411 ppbv
RT: 15.336 min Scan# 3960
Delta R.T. -0.026 min
Lab File: VL040737.D
Acq: 4 Oct 2023 12:33



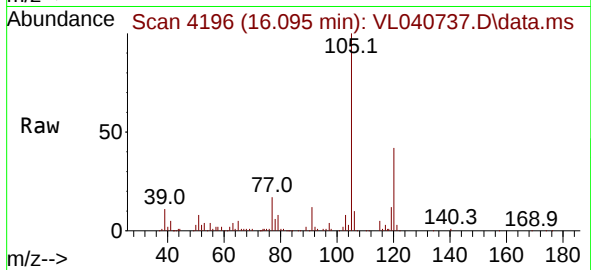
Tgt Ion:105 Resp: 106539
Ion Ratio Lower Upper
105 100
120 40.1 36.1 54.1





#74
 1,2,4-Trimethylbenzene
 Concen: 1.031 ppbv
 RT: 16.095 min Scan# 4196
 Delta R.T. -0.023 min
 Lab File: VL040737.D
 Acq: 4 Oct 2023 12:33

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:105 Resp: 32552

Ion	Ratio	Lower	Upper
105	100		
120	41.4	38.6	57.8
91	11.1	50.0	75.0
77	16.7	20.6	31.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023
 Supervised By :Mahesh Dadoda 10/05/2023

