

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039996.D
 Acq On : 13 Dec 2022 4:16
 Operator : SY/MD
 Sample : N5969-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/14/2022
 Supervised By : Mahesh Dadoda 12/14/2022

Quant Time: Dec 13 07:14:40 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 12 2022

QLast Update : Fri Dec 02 23:21:36 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.173	49	939842	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.636	114	2499253	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.449	117	2288628	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1814507	10.380	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	33650	0.250	ppbv #	87
3) Chlorodifluoromethane	2.658	51	43261	0.334	ppbv #	89
4) Chloromethane	2.793	50	14700	0.177	ppbv	97
9) Propene	2.690	41	379979m	6.220	ppbv	
10) Heptane	7.558	43	300782	2.040	ppbv	95
11) Trichlorofluoromethane	3.542	101	105658	0.644	ppbv	89
13) Ethanol	3.221	45	317626	68.100	ppbv	99
15) Acetone	3.443	43	8721140	69.960	ppbv	91
19) Isopropyl Alcohol	3.562	45	296730	4.396	ppbv #	29
20) Methylene Chloride	3.912	84	46881	0.776	ppbv	95
26) Hexane	5.192	57	124916	1.249	ppbv #	48
30) Cyclohexane	6.581	84	23199m	0.236	ppbv	
34) 2-Butanone	4.767	43	288069	2.409	ppbv	96
35) Carbon Tetrachloride	6.475	117	3594m	0.025	ppbv	
36) Benzene	6.353	78	516905	2.433	ppbv	95
44) 2,2,4-Trimethylpentane	7.308	57	4903607	13.827	ppbv	98
52) Tetrachloroethene	10.600	164	1157267	14.562	ppbv	95
53) Toluene	9.201	91	249953	1.033	ppbv	99
58) Ethyl Benzene	12.069	91	61820	0.199	ppbv	93
59) m/p-Xylene	12.323	91	220218m	0.847	ppbv	
60) o-Xylene	13.037	91	91395m	0.369	ppbv	
61) Styrene	12.889	104	15396m	0.104	ppbv	
62) Isopropylbenzene	14.011	105	1025628	2.870	ppbv	98
74) 1,2,4-Trimethylbenzene	16.092	105	330910m	1.226	ppbv	
79) Naphthalene	21.375	128	83433m	0.516	ppbv	

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

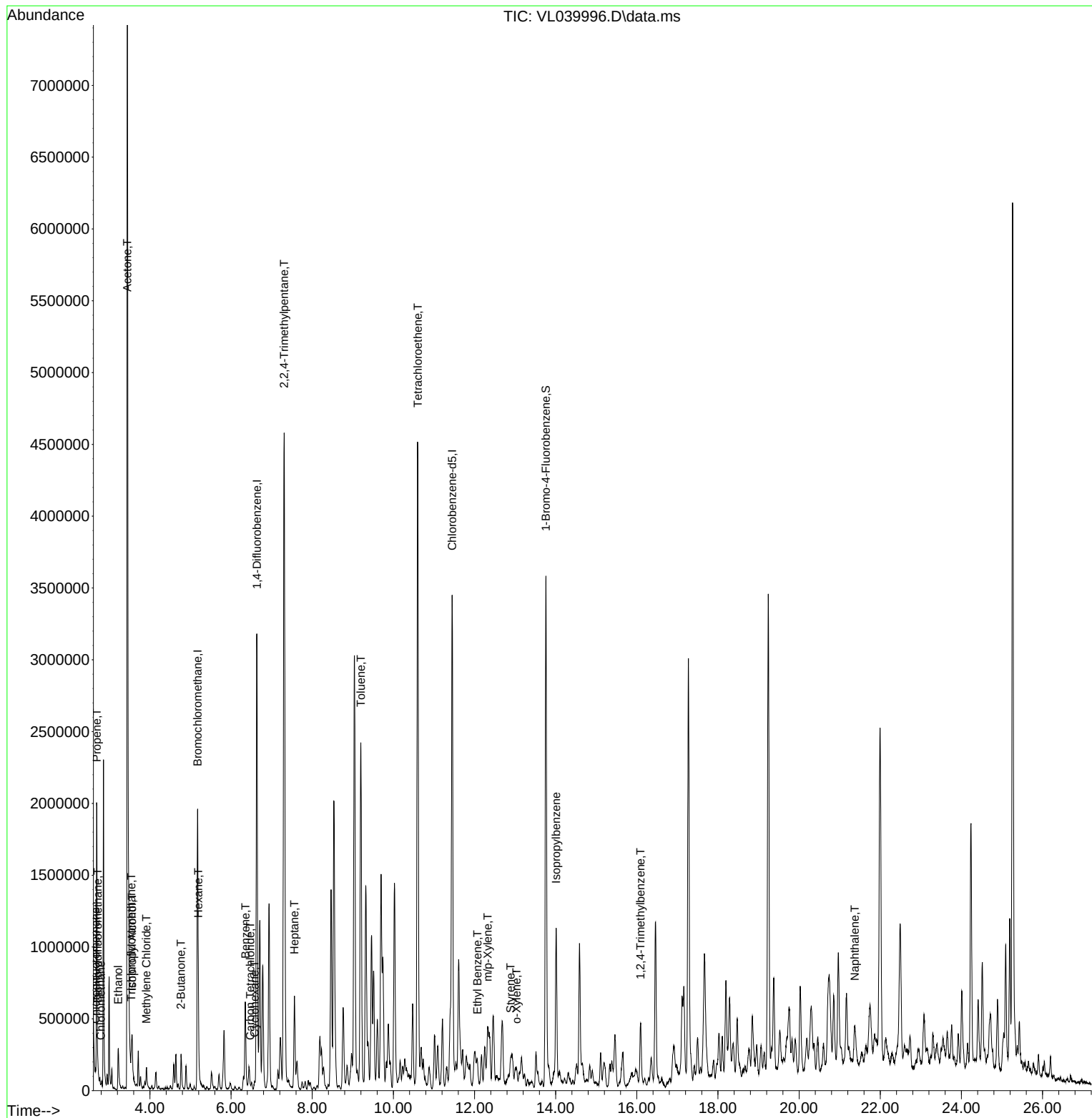
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
Data File : VL039996.D
Acq On : 13 Dec 2022 4:16
Operator : SY/MD
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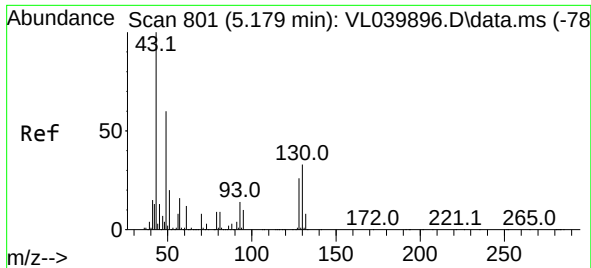
Instrument :
MSVOA_L
ClientSampleId :
SG-2

Quant Time: Dec 13 07:14:40 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Dec 02 23:21:36 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

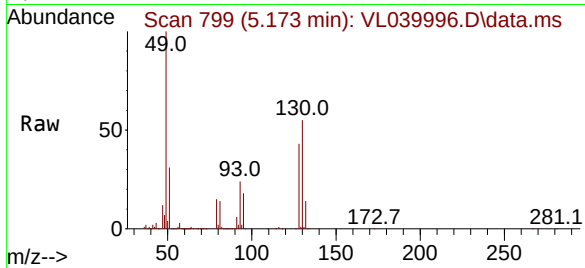
Reviewed By : Semsettin Yesilyurt 12/14/2022
Supervised By : Mahesh Dadoda 12/14/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.173 min Scan# 79
Delta R.T. 0.017 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

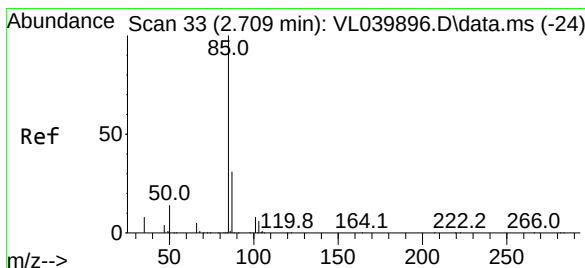
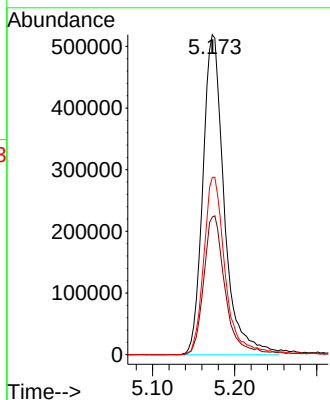
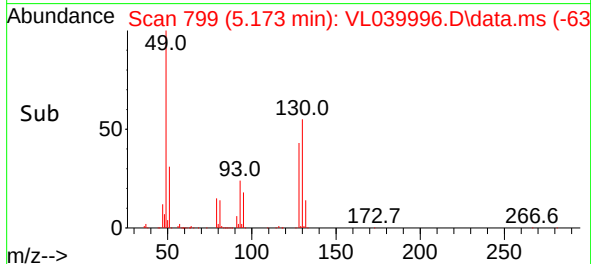
Instrument :
MSVOA_L
ClientSampleId :
SG-2



Tgt Ion: 49 Resp: 93984
Ion Ratio Lower Upper
49 100
128 44.6 22.1 66.3
130 57.0 27.7 83.1

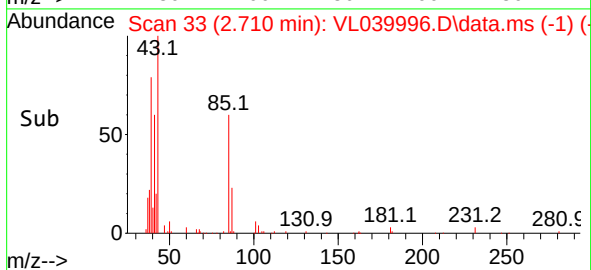
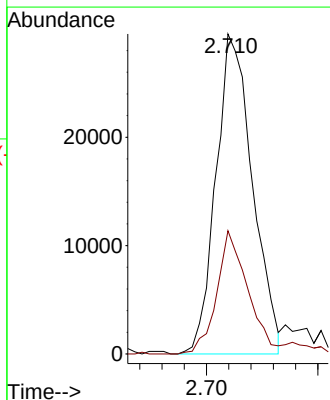
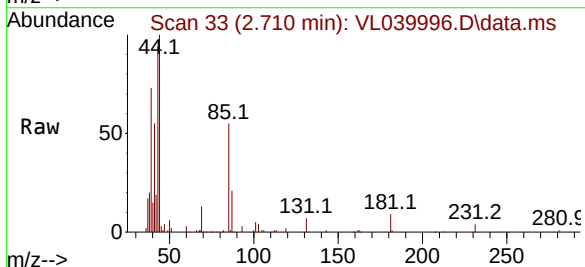
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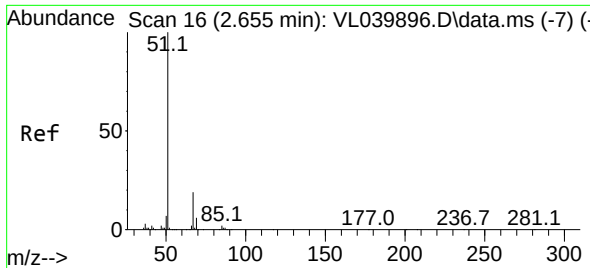
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#2
Dichlorodifluoromethane
Concen: 0.250 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 85 Resp: 33650
Ion Ratio Lower Upper
85 100
87 38.5 25.0 37.4





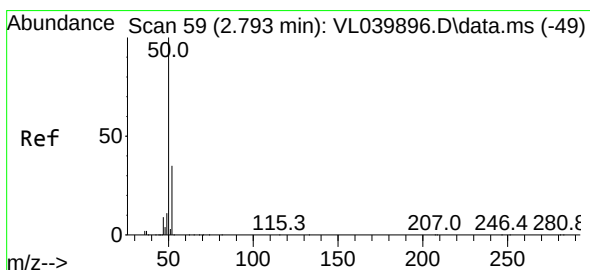
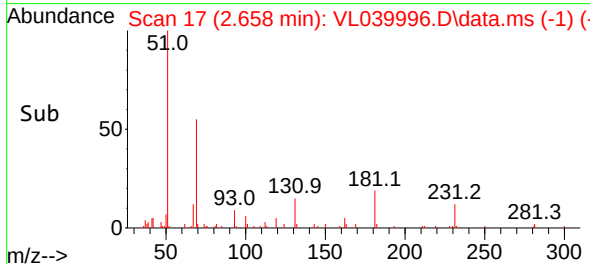
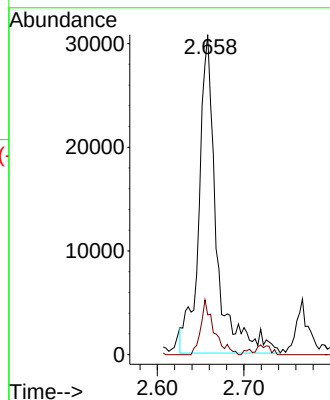
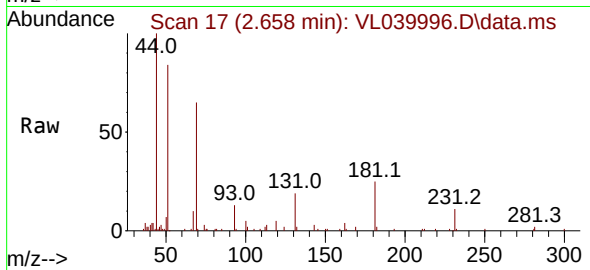
#3
Chlorodifluoromethane
Concen: 0.334 ppbv
RT: 2.658 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion: 51 Resp: 4326
Ion Ratio Lower Upper
51 100
67 13.0 14.2 21.4

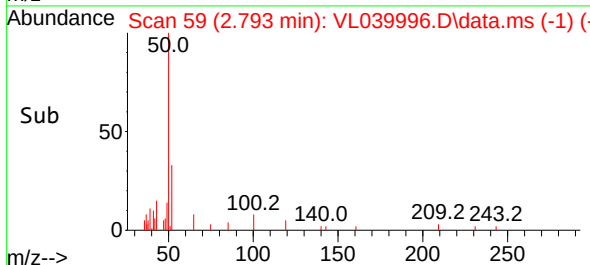
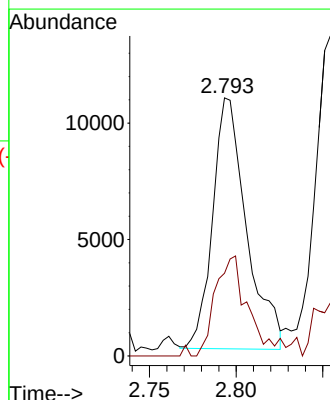
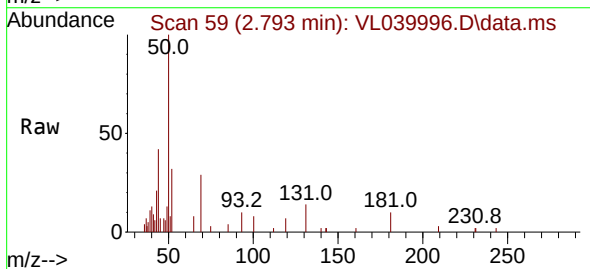
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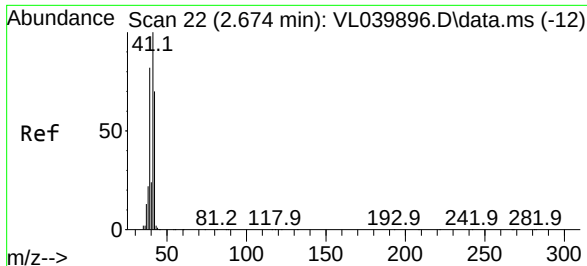
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#4
Chloromethane
Concen: 0.177 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

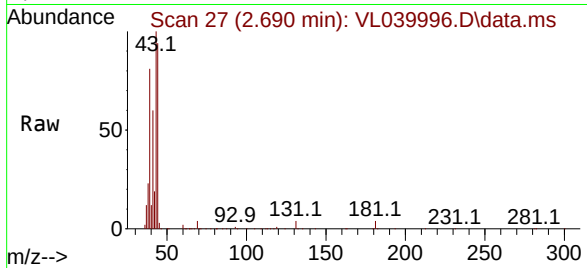
Tgt Ion: 50 Resp: 14700
Ion Ratio Lower Upper
50 100
52 33.2 27.8 41.8





#9
 Propene
 Concen: 6.220 ppbv m
 RT: 2.690 min Scan# 21
 Delta R.T. 0.029 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

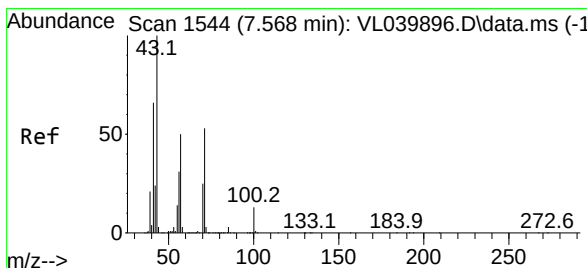
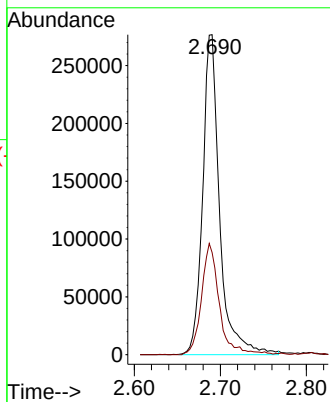
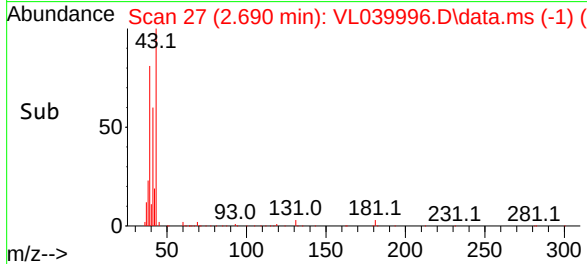
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2



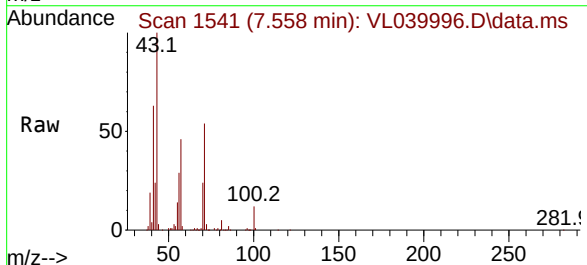
Tgt Ion: 41 Resp: 379979
 Ion Ratio Lower Upper
 41 100
 42 111.1 55.8 83.6

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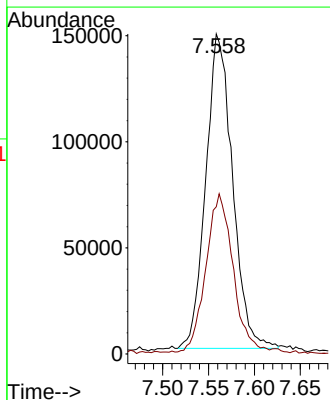
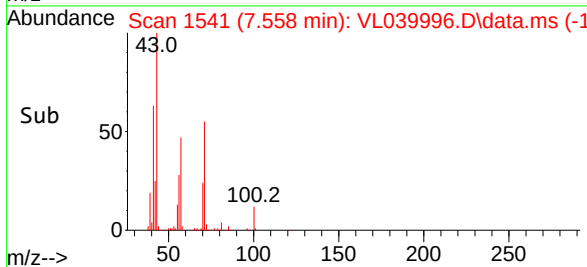
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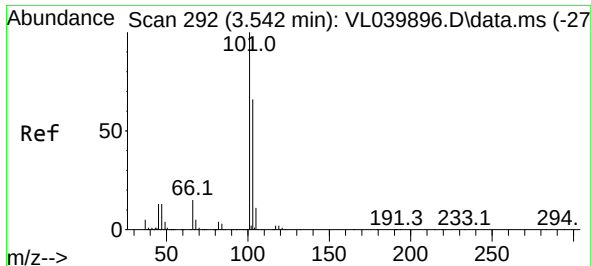


#10
 Heptane
 Concen: 2.040 ppbv
 RT: 7.558 min Scan# 1541
 Delta R.T. 0.013 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16



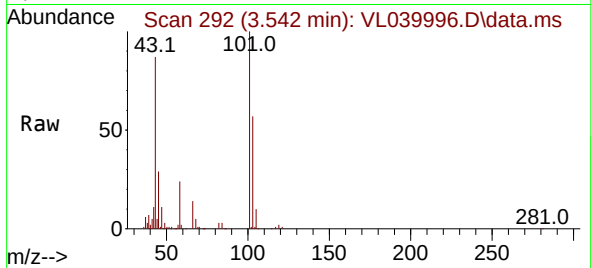
Tgt Ion: 43 Resp: 300782
 Ion Ratio Lower Upper
 43 100
 57 54.7 40.7 61.1





#11
 Trichlorofluoromethane
 Concen: 0.644 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. 0.013 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

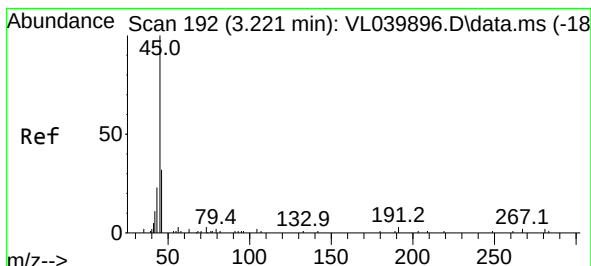
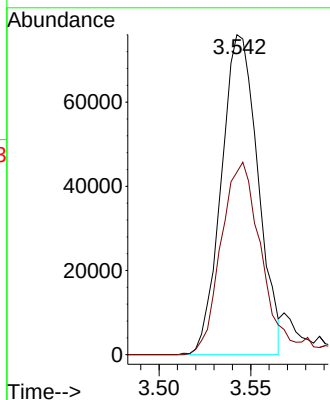
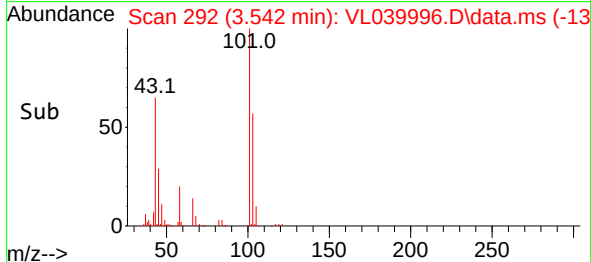
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2



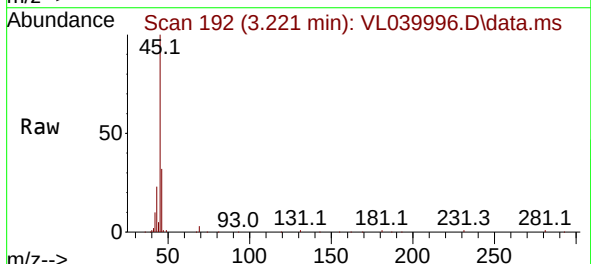
Tgt Ion:101 Resp: 105658
 Ion Ratio Lower Upper
 101 100
 103 57.1 52.6 78.8

Manual Integrations
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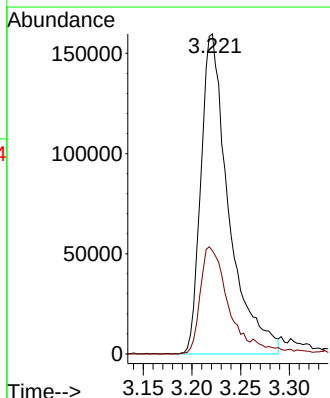
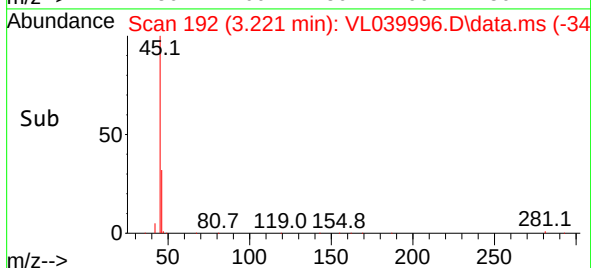
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 Supervised By :Mahesh Dadoda 12/14/2022

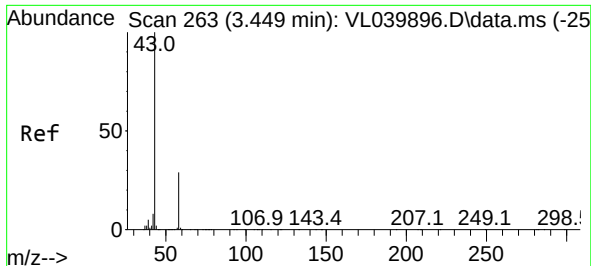


#13
 Ethanol
 Concen: 68.100 ppbv
 RT: 3.221 min Scan# 192
 Delta R.T. 0.007 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16



Tgt Ion: 45 Resp: 317626
 Ion Ratio Lower Upper
 45 100
 46 35.9 14.6 58.2





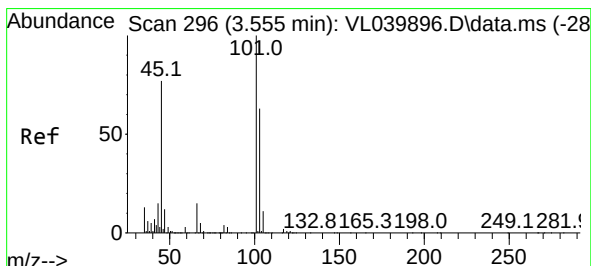
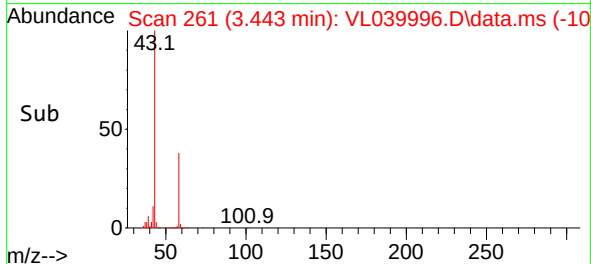
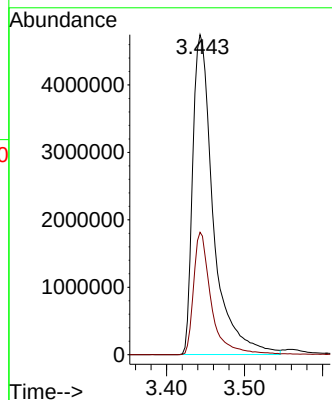
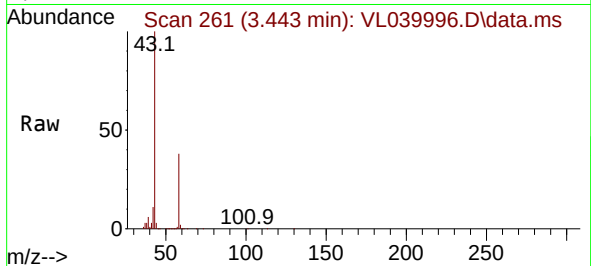
#15
Acetone
Concen: 69.960 ppbv
RT: 3.443 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion: 43 Resp: 8721140
Ion Ratio Lower Upper
43 100
58 33.3 22.9 34.3

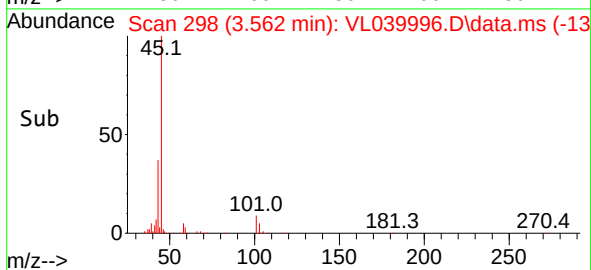
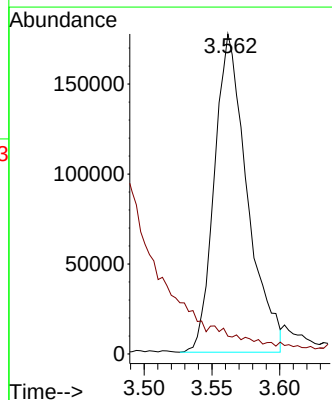
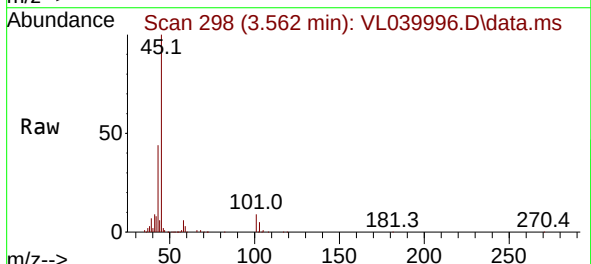
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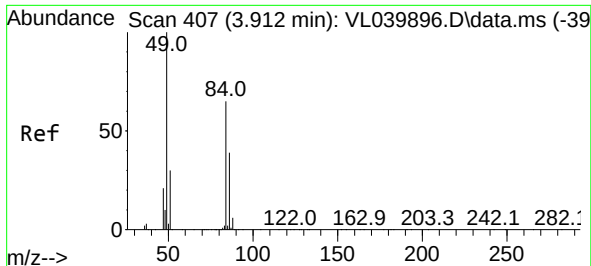
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#19
Isopropyl Alcohol
Concen: 4.396 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

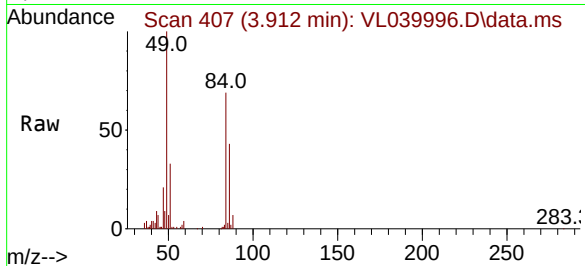
Tgt Ion: 45 Resp: 296730
Ion Ratio Lower Upper
45 100
58 0.0 38.7 58.1#





#20
Methylene Chloride
Concen: 0.776 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

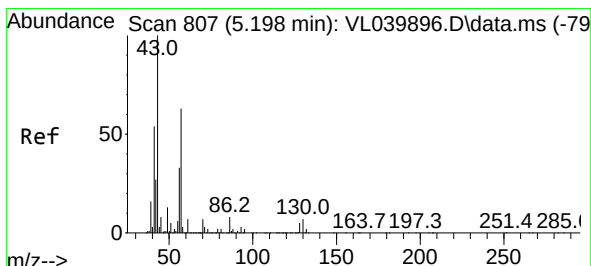
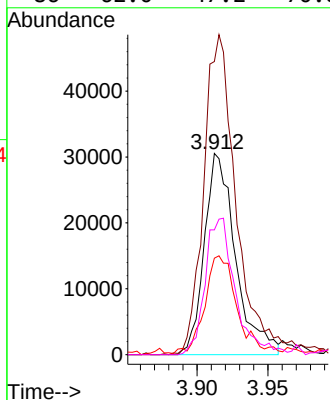
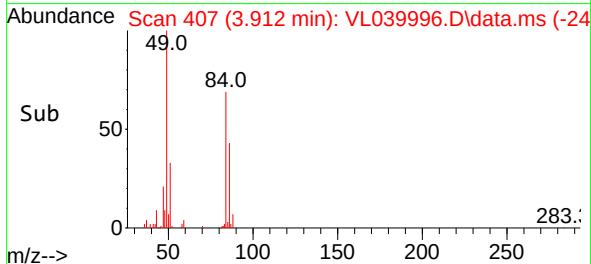
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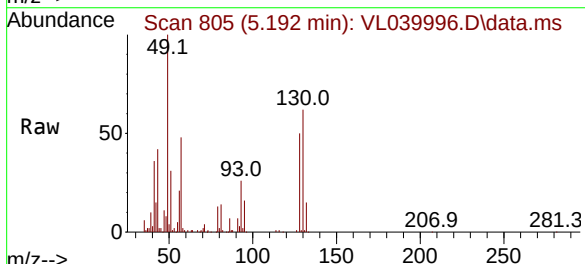
Tgt Ion: 84 Resp: 4688
Ion Ratio Lower Upper
84 100
49 143.6 122.2 183.4
51 46.0 36.3 54.5
86 62.0 47.2 70.8

Manual Integrations
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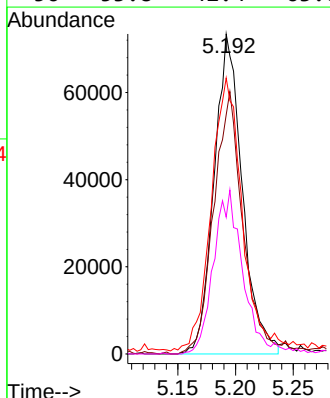
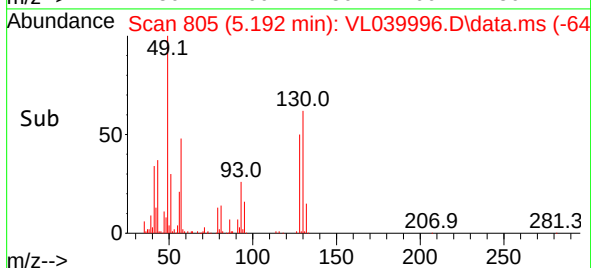
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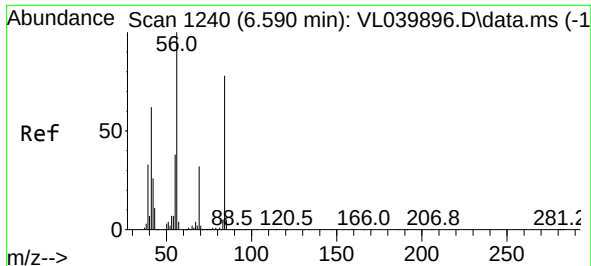


#26
Hexane
Concen: 1.249 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16



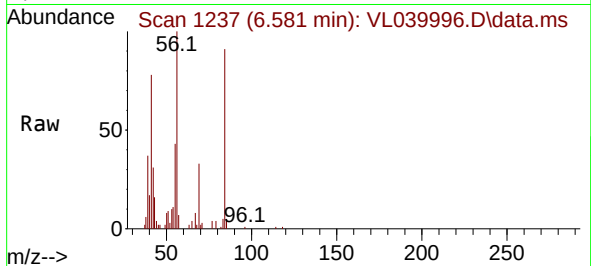
Tgt Ion: 57 Resp: 124916
Ion Ratio Lower Upper
57 100
41 87.5 72.3 108.5
43 98.3 188.7 283.1#
56 53.8 42.4 63.6





#30
Cyclohexane
Concen: 0.236 ppbv m
RT: 6.581 min Scan# 1237
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

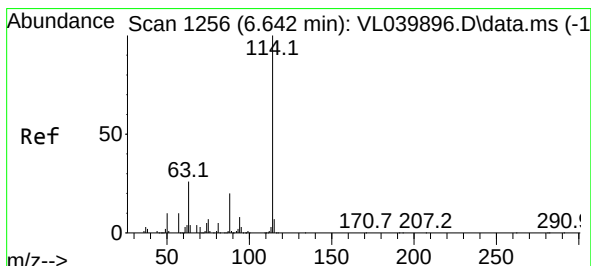
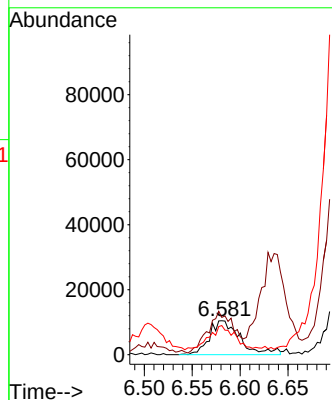
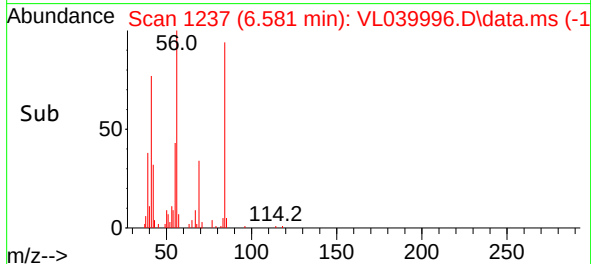
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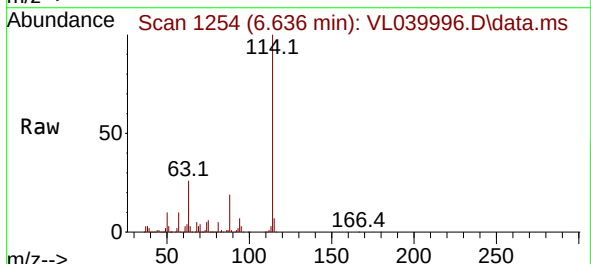
Tgt Ion: 84 Resp: 23199
Ion Ratio Lower Upper
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56 0.0 112.5 168.7
41 0.0 67.8 101.8

Manual Integrations
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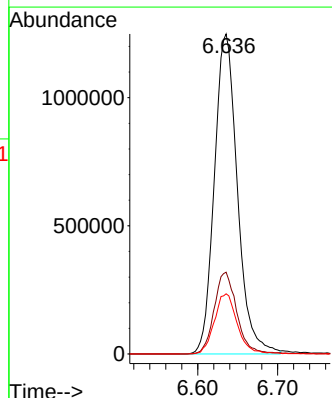
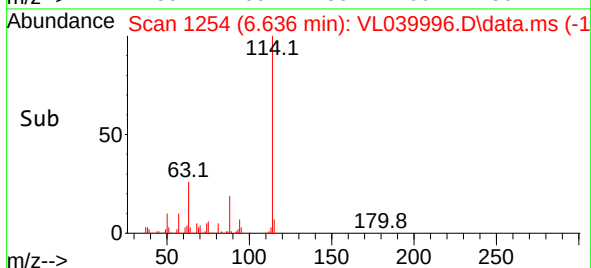
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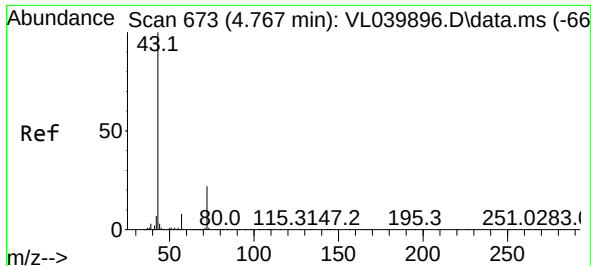


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16



Tgt Ion:114 Resp: 2499253
Ion Ratio Lower Upper
114 100
63 25.3 21.4 32.0
88 18.8 15.3 22.9





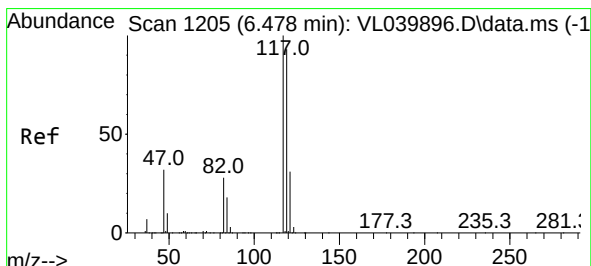
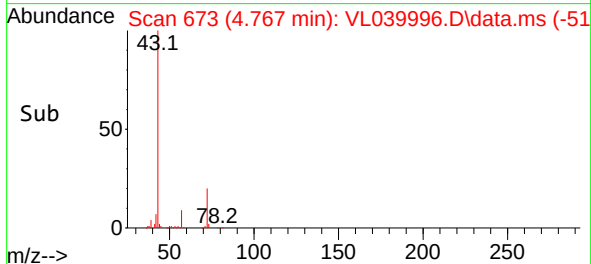
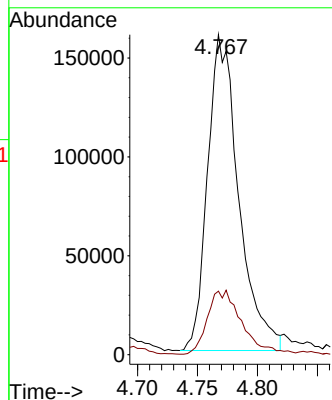
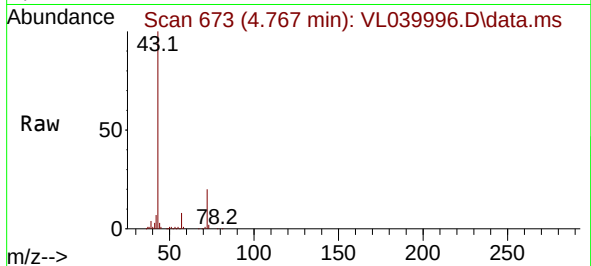
#34
2-Butanone
Concen: 2.409 ppbv
RT: 4.767 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion: 43 Resp: 288069
Ion Ratio Lower Upper
43 100
72 23.6 17.4 26.2

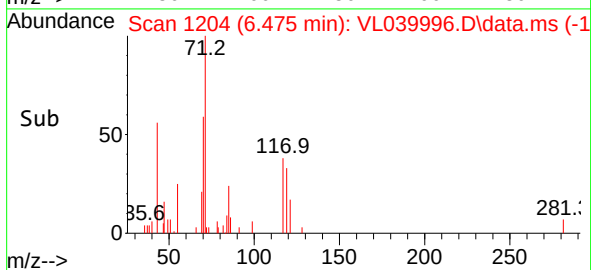
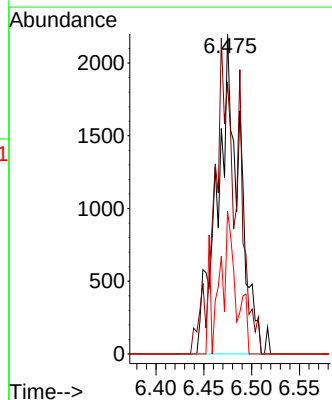
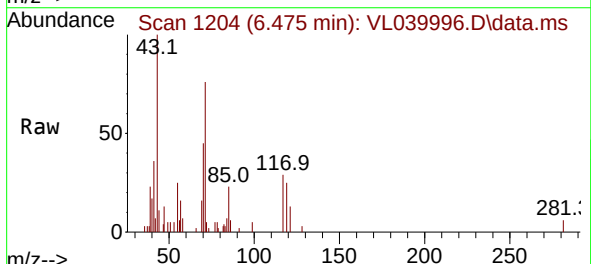
Manual Integrations
APPROVED

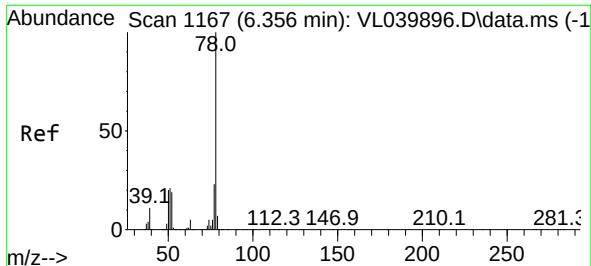
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#35
Carbon Tetrachloride
Concen: 0.025 ppbv m
RT: 6.475 min Scan# 1204
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

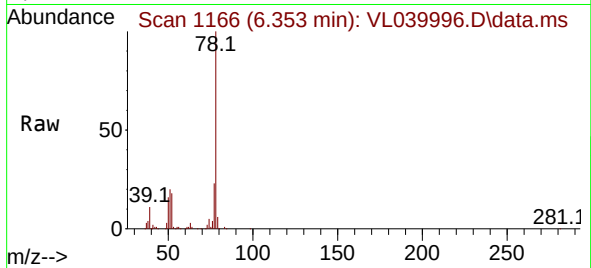
Tgt Ion:117 Resp: 3594
Ion Ratio Lower Upper
117 100
119 84.9 74.7 112.1
121 44.6 24.5 36.7#





#36
Benzene
Concen: 2.433 ppbv
RT: 6.353 min Scan# 1166
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

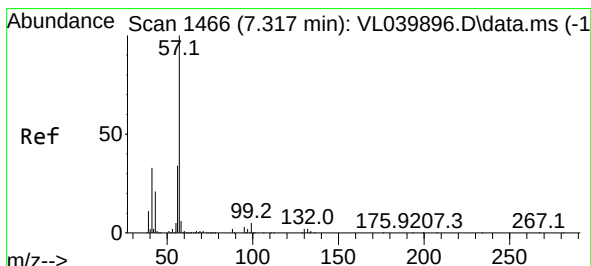
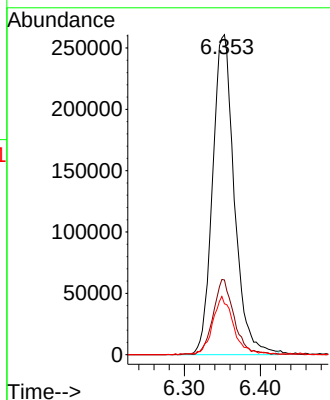
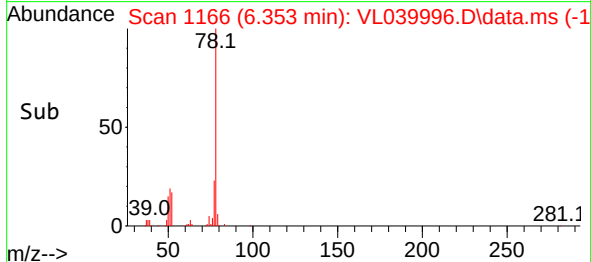
Instrument :
MSVOA_L
ClientSampleId :
SG-2



Tgt Ion: 78 Resp: 51690
Ion Ratio Lower Upper
78 100
77 23.3 18.2 27.2
50 15.9 15.8 23.8

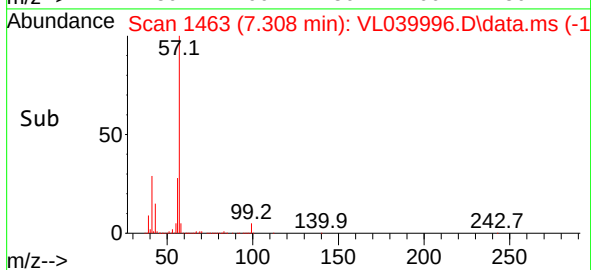
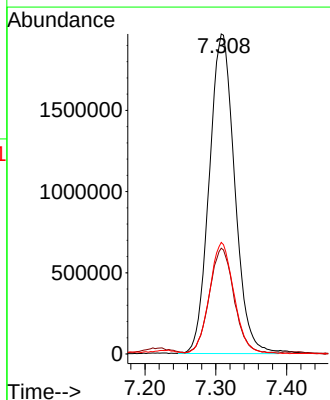
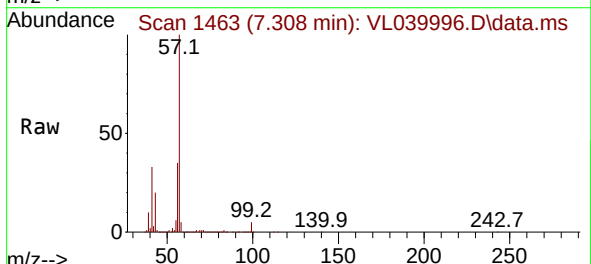
Manual Integrations
APPROVED

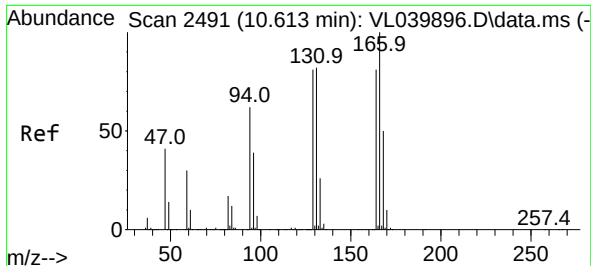
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#44
2,2,4-Trimethylpentane
Concen: 13.827 ppbv
RT: 7.308 min Scan# 1463
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

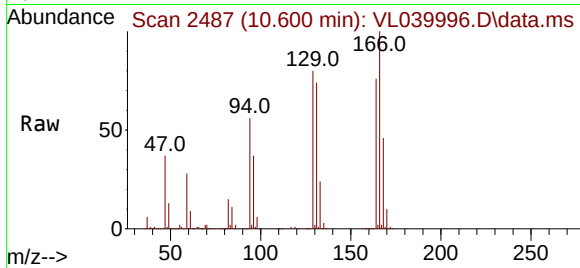
Tgt Ion: 57 Resp: 4903607
Ion Ratio Lower Upper
57 100
41 32.7 26.2 39.2
56 34.1 25.5 38.3





#52
Tetrachloroethene
Concen: 14.562 ppbv
RT: 10.600 min Scan# 2491
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

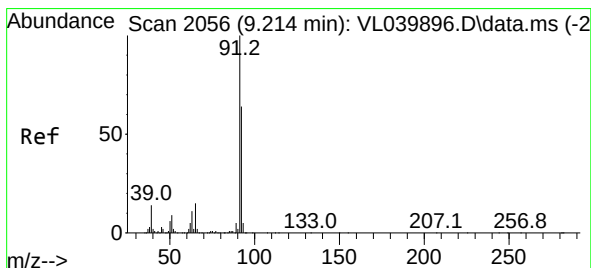
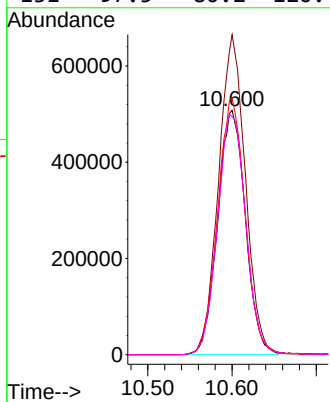
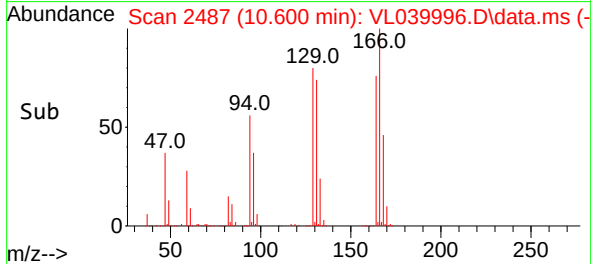
Instrument :
MSVOA_L
ClientSampleId :
SG-2



Tgt Ion:164 Resp: 115726
Ion Ratio Lower Upper
164 100
166 131.0 98.3 147.5
129 105.0 79.7 119.5
131 97.5 80.2 120.4

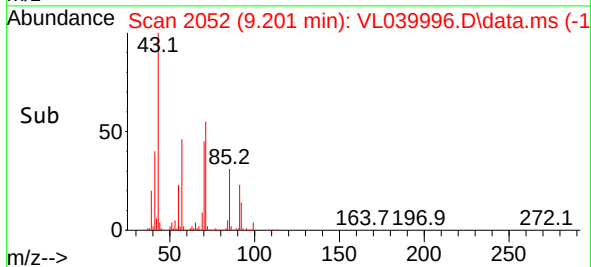
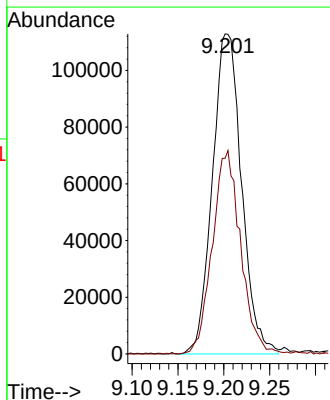
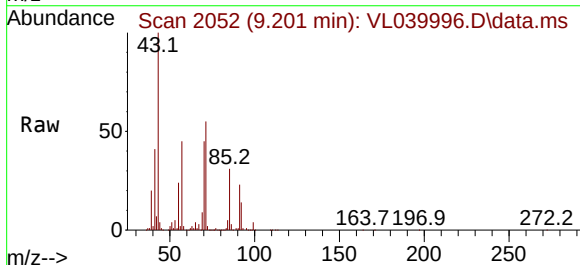
Manual Integrations
APPROVED

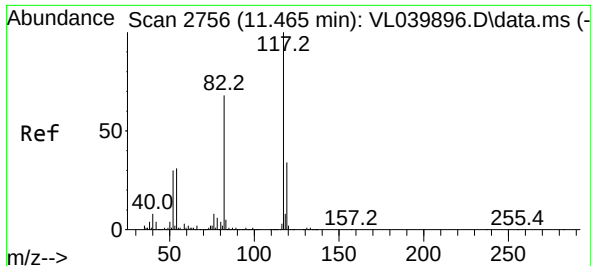
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#53
Toluene
Concen: 1.033 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

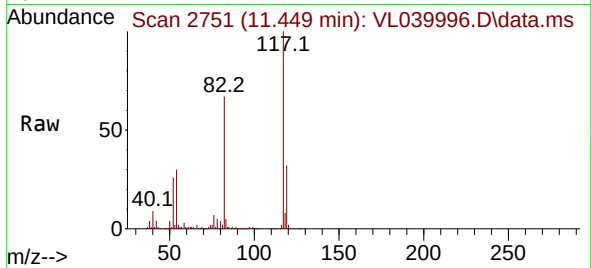
Tgt Ion: 91 Resp: 249953
Ion Ratio Lower Upper
91 100
92 61.7 49.8 74.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

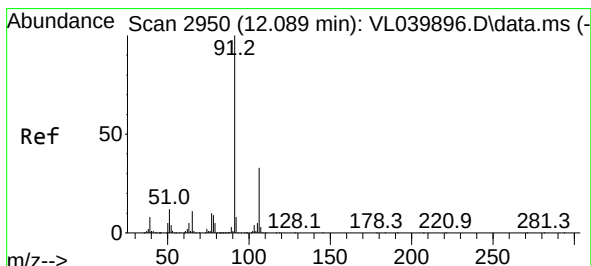
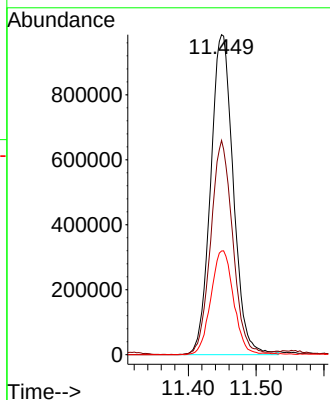
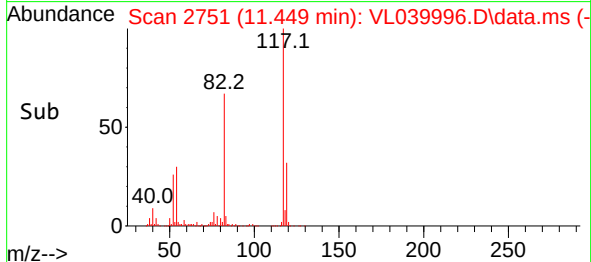
Instrument :
MSVOA_L
ClientSampleId :
SG-2



Tgt Ion: 117 Resp: 2288628
Ion Ratio Lower Upper
117 100
82 65.0 52.3 78.5
119 32.9 25.7 38.5

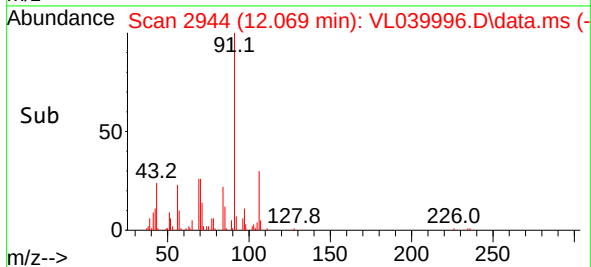
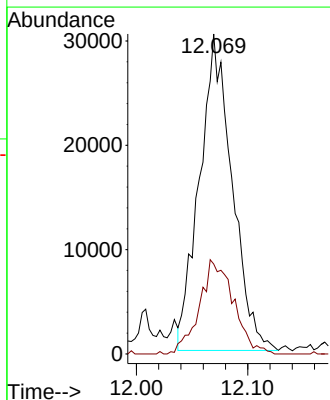
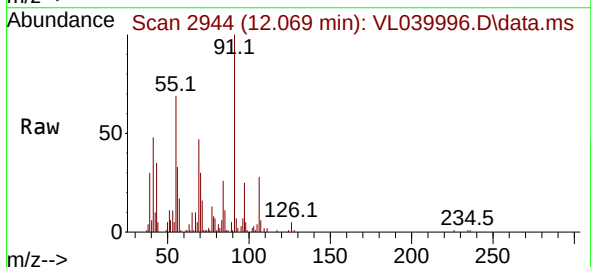
Manual Integrations
APPROVED

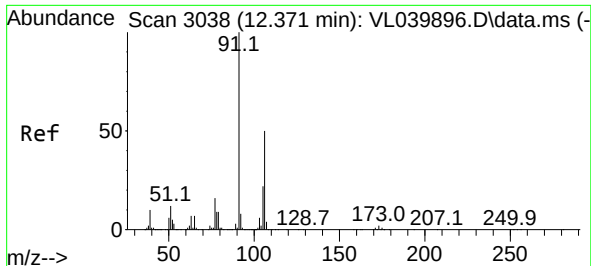
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#58
Ethyl Benzene
Concen: 0.199 ppbv
RT: 12.069 min Scan# 2944
Delta R.T. 0.013 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

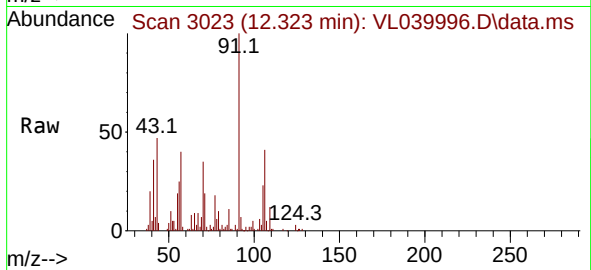
Tgt Ion: 91 Resp: 61820
Ion Ratio Lower Upper
91 100
106 28.4 26.1 39.1





#59
m/p-Xylene
Concen: 0.847 ppbv m
RT: 12.323 min Scan# 3038
Delta R.T. -0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

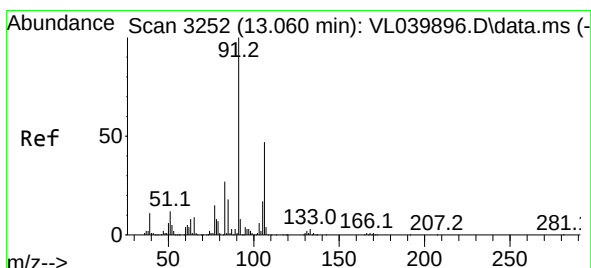
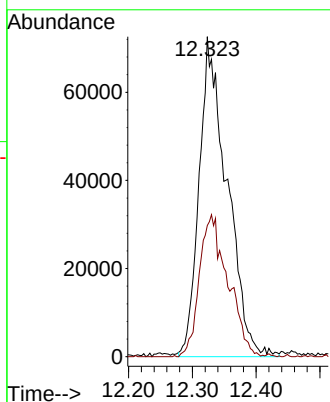
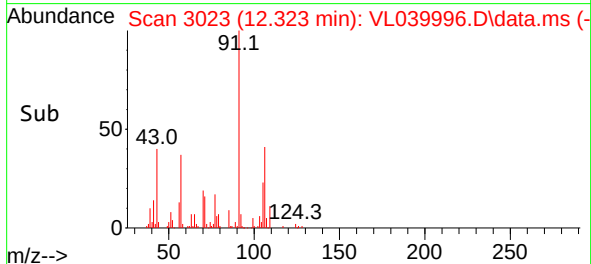
Instrument :
MSVOA_L
ClientSampleId :
SG-2



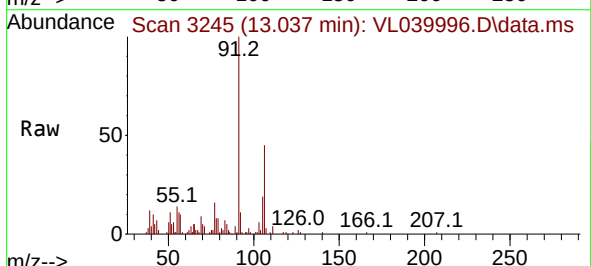
Tgt Ion: 91 Resp: 220218
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.6

Manual Integrations
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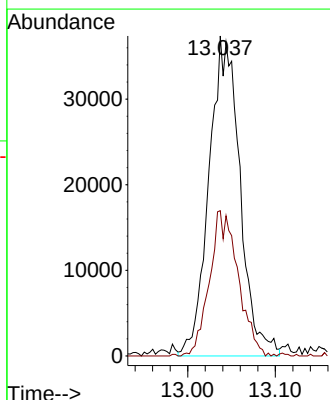
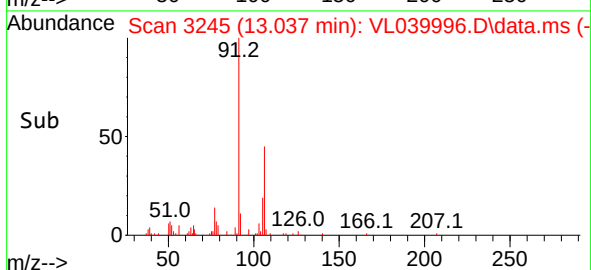
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

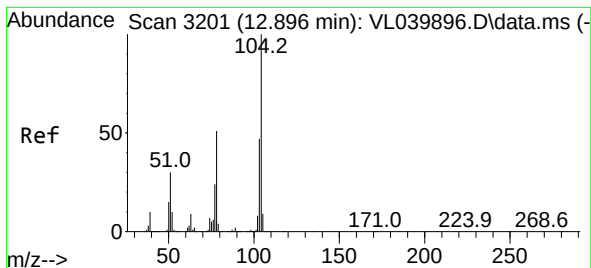


#60
o-Xylene
Concen: 0.369 ppbv m
RT: 13.037 min Scan# 3245
Delta R.T. 0.010 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16



Tgt Ion: 91 Resp: 91395
Ion Ratio Lower Upper
91 100
106 0.0 23.2 69.6





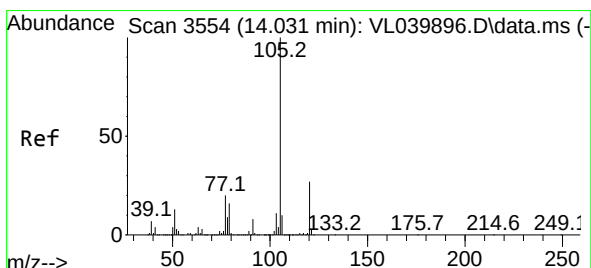
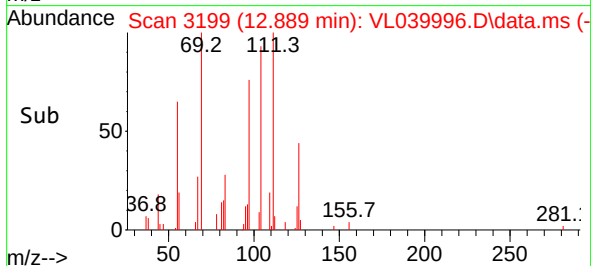
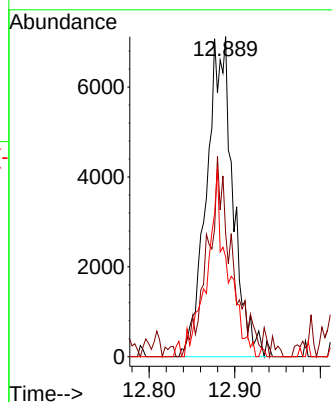
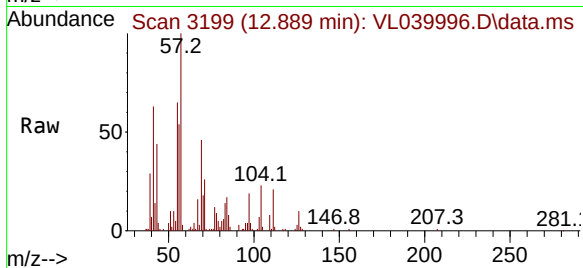
#61
Styrene
Concen: 0.104 ppbv m
RT: 12.889 min Scan# 3199
Delta R.T. 0.026 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion:104 Resp: 15390
Ion Ratio Lower Upper
104 100
78 0.0 41.8 62.8
103 0.0 37.2 55.8

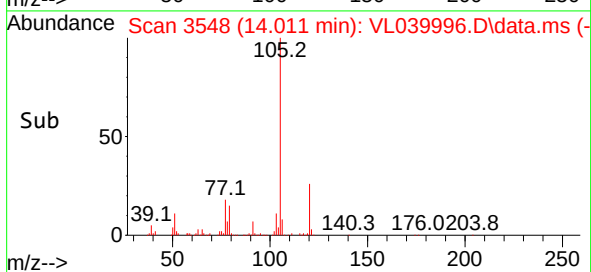
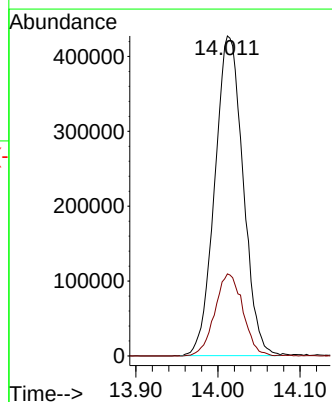
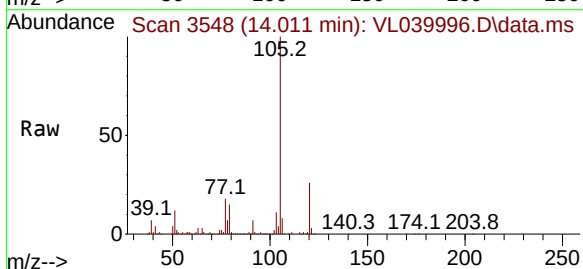
Manual Integrations
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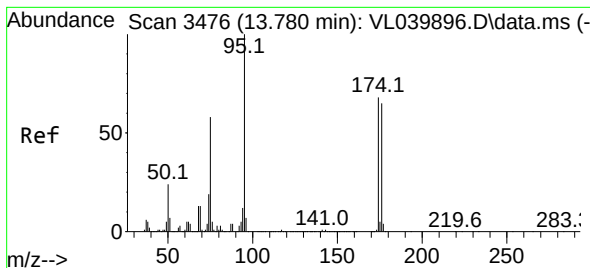
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#62
Isopropylbenzene
Concen: 2.870 ppbv
RT: 14.011 min Scan# 3548
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

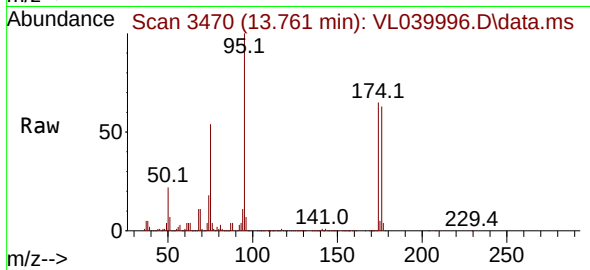
Tgt Ion:105 Resp: 1025628
Ion Ratio Lower Upper
105 100
120 25.6 21.4 32.2





#68
1-Bromo-4-Fluorobenzene
Concen: 10.380 ppbv
RT: 13.761 min Scan# 3476
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

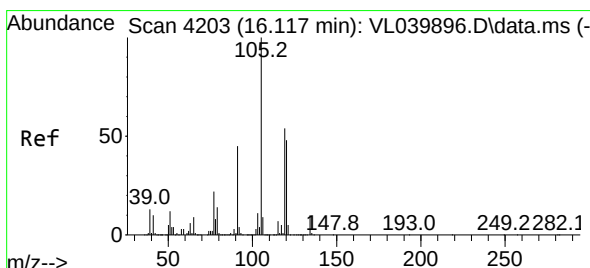
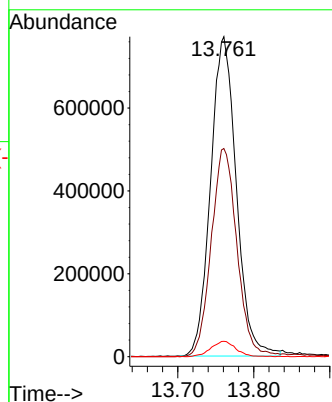
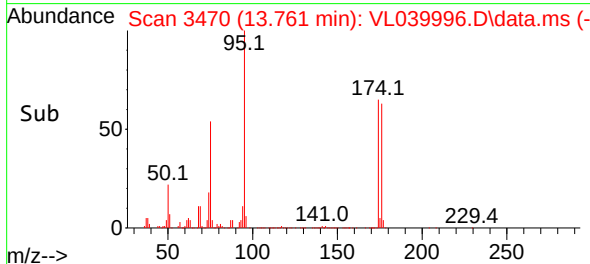
Instrument :
MSVOA_L
ClientSampleId :
SG-2



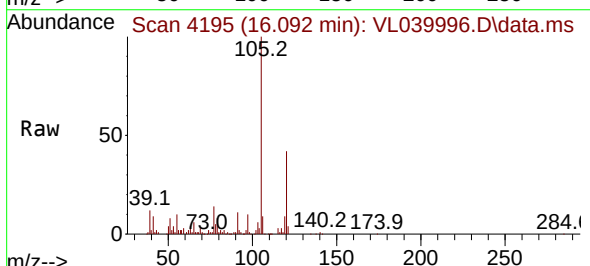
Tgt Ion: 95 Resp: 181450
Ion Ratio Lower Upper
95 100
174 66.4 53.7 80.5
175 4.7 4.0 6.0

Manual Integrations
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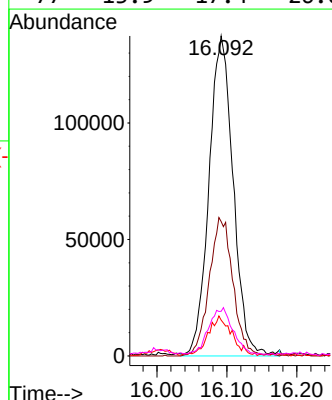
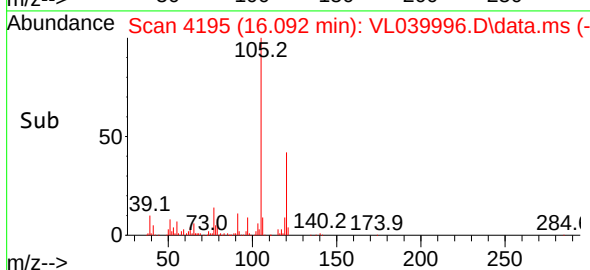
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

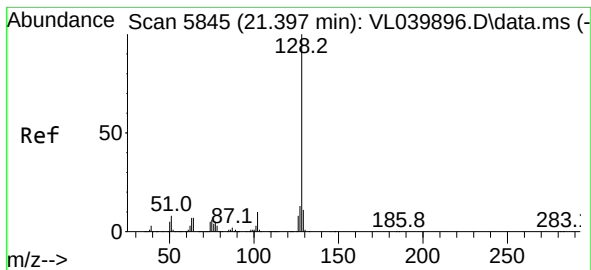


#74
1,2,4-Trimethylbenzene
Concen: 1.226 ppbv m
RT: 16.092 min Scan# 4195
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16



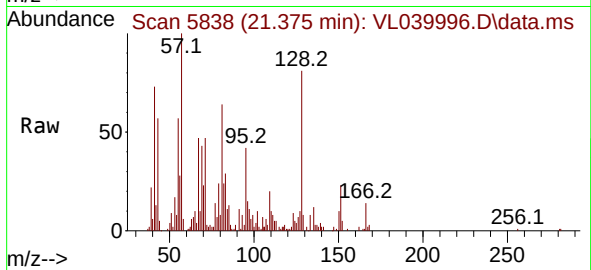
Tgt Ion:105 Resp: 330910
Ion Ratio Lower Upper
105 100
120 42.0 38.7 58.1
91 11.2 36.4 54.6#
77 13.9 17.4 26.0#





#79
Naphthalene
Concen: 0.516 ppbv m
RT: 21.375 min Scan# 5845
Delta R.T. 0.026 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Instrument :
MSVOA_L
ClientSampleId :
SG-2



Tgt Ion:128 Resp: 8343
Ion Ratio Lower Upper
128 100
127 12.0 10.0 15.0
129 9.7 8.8 13.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

