

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
 Data File : VL039798.D
 Acq On : 25 Oct 2022 21:57
 Operator : SY/AP
 Sample : N5227-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 H

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/28/2022
 Supervised By : Mahesh Dadoda 10/31/2022

Quant Time: Oct 27 16:29:45 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M

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

QLast Update : Mon Oct 24 20:00:55 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.205	49	881567	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2426231	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2120758	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1535083	10.175	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.745	85	22757	0.247	ppbv	98
9) Propene	2.710	41	4757045	104.551	ppbv	92
10) Heptane	7.584	43	303346	2.785	ppbv	95
11) Trichlorofluoromethane	3.581	101	29863	0.232	ppbv	86
13) Ethanol	3.263	45	74610	22.832	ppbv	95
15) Acetone	3.484	43	2302743	21.869	ppbv	94
19) Isopropyl Alcohol	3.600	45	44209	0.896	ppbv #	89
20) Methylene Chloride	3.951	84	44078	1.100	ppbv #	92
26) Hexane	5.224	57	562039	6.566	ppbv #	36
27) Carbon Disulfide	4.144	76	76258	0.750	ppbv #	92
30) Cyclohexane	6.610	84	33247m	0.474	ppbv	
34) 2-Butanone	4.799	43	644190	5.644	ppbv	99
35) Carbon Tetrachloride	6.494	117	7138m	0.052	ppbv	
36) Benzene	6.378	78	1963590	10.509	ppbv	99
53) Toluene	9.221	91	1377376	7.036	ppbv	98
58) Ethyl Benzene	12.092	91	172710m	0.715	ppbv	
59) m/p-Xylene	12.343	91	270442m	1.240	ppbv	
60) o-Xylene	13.060	91	97588	0.477	ppbv	94
61) Styrene	12.899	104	43764	0.408	ppbv #	84
74) 1,2,4-Trimethylbenzene	16.104	105	67974	0.285	ppbv #	68
75) 1,3-Dichlorobenzene	16.336	146	18518m	0.128	ppbv	
79) Naphthalene	21.390	128	15607m	0.107	ppbv	

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

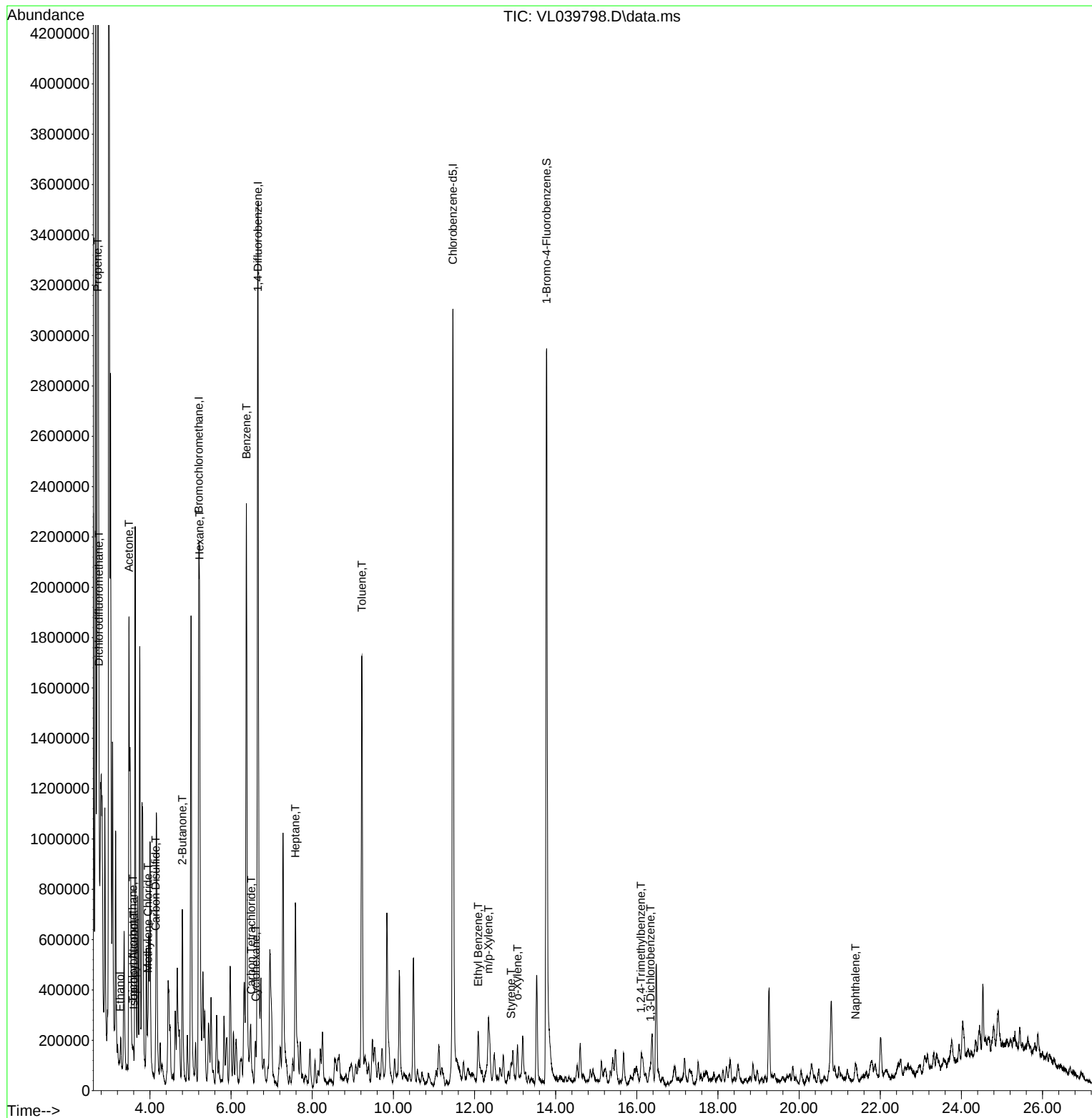
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
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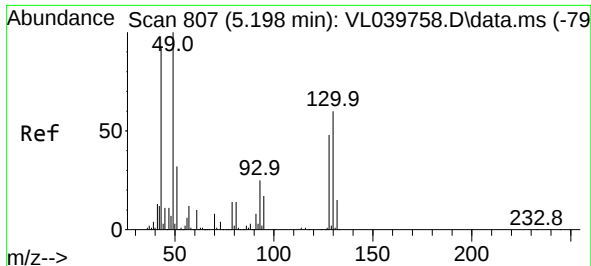
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Quant Time: Oct 27 16:29:45 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Oct 24 20:00:55 2022
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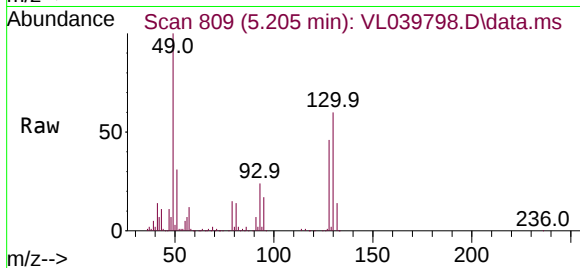
Reviewed By : Semsettin Yesilyurt 10/28/2022
Supervised By : Mahesh Dadoda 10/31/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.205 min Scan# 807
Delta R.T. 0.007 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

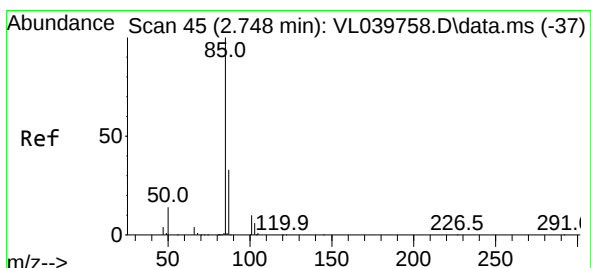
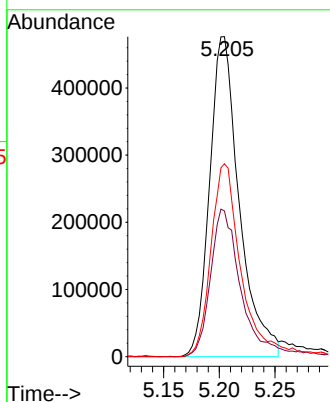
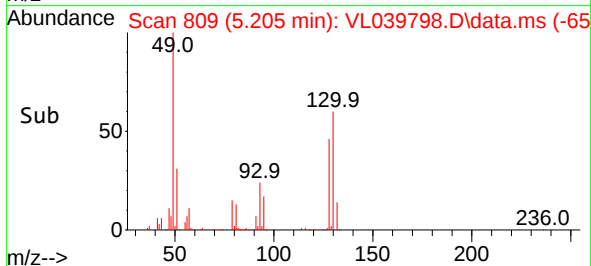
Instrument :
MSVOA_L
ClientSampleId :
H



Tgt Ion: 49 Resp: 88156
Ion Ratio Lower Upper
49 100
128 48.4 24.6 74.0
130 63.2 31.8 95.3

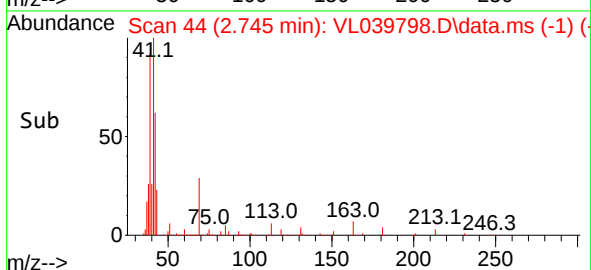
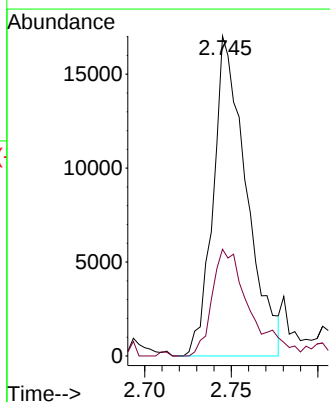
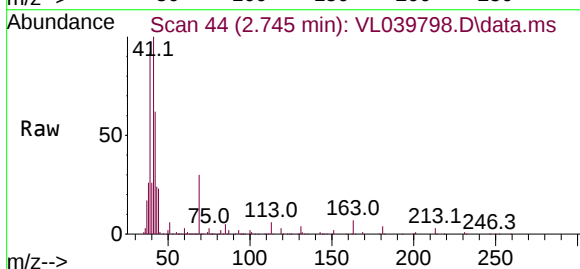
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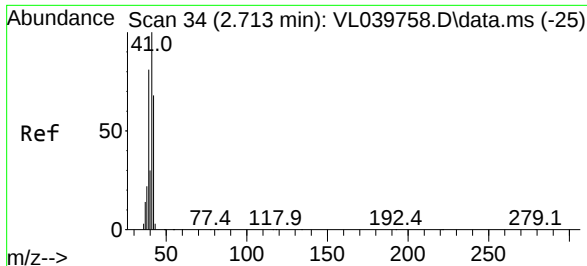
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#2
Dichlorodifluoromethane
Concen: 0.247 ppbv
RT: 2.745 min Scan# 44
Delta R.T. -0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

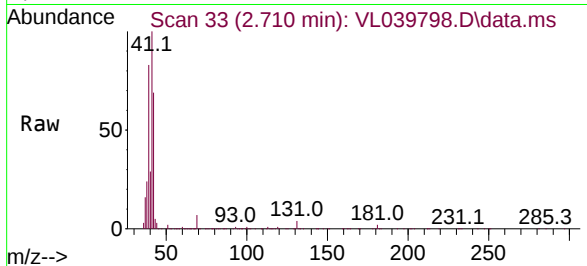
Tgt Ion: 85 Resp: 22757
Ion Ratio Lower Upper
85 100
87 33.8 26.1 39.1





#9
Propene
Concen: 104.551 ppbv
RT: 2.710 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

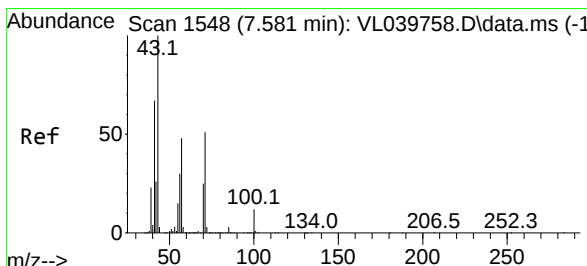
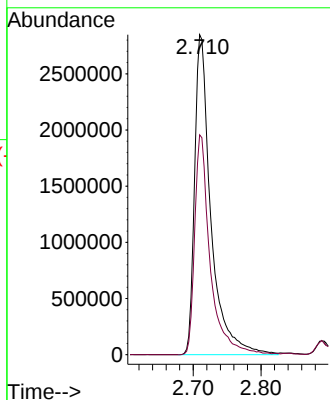
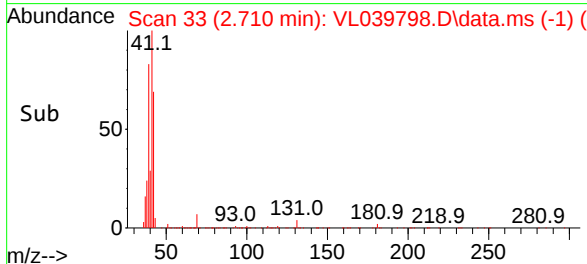
Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion: 41 Resp: 475704
Ion Ratio Lower Upper
41 100
42 66.0 58.0 87.0

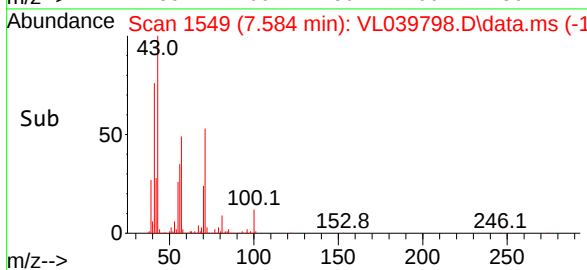
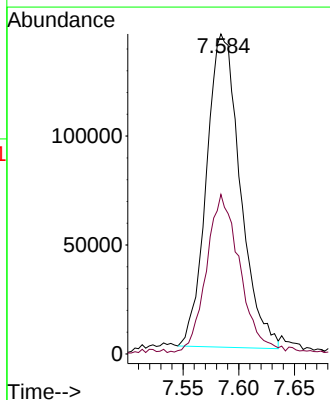
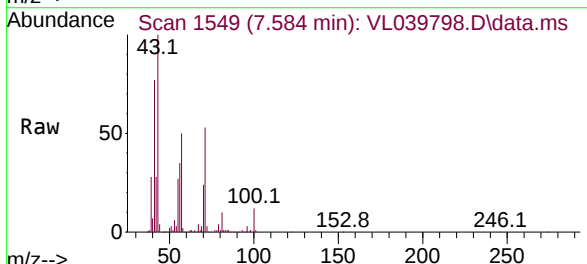
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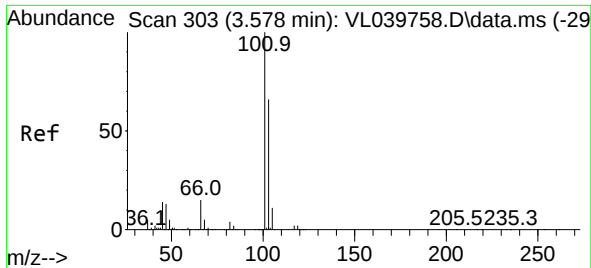
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#10
Heptane
Concen: 2.785 ppbv
RT: 7.584 min Scan# 1549
Delta R.T. 0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

Tgt Ion: 43 Resp: 303346
Ion Ratio Lower Upper
43 100
57 53.7 40.0 60.0





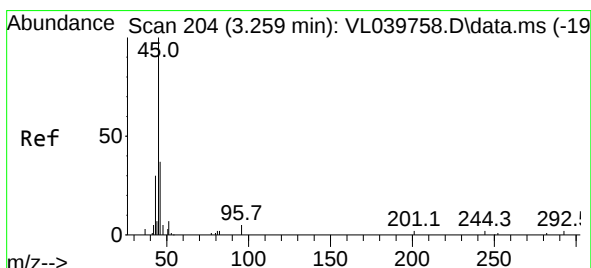
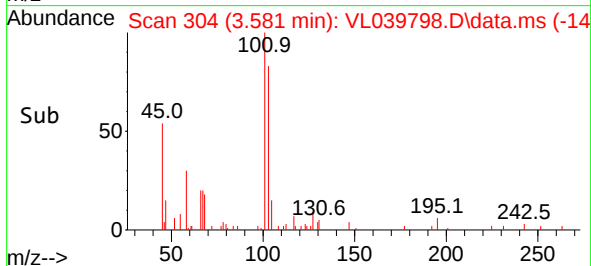
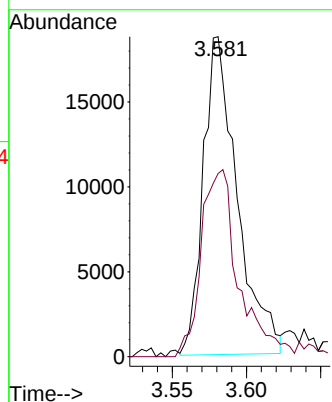
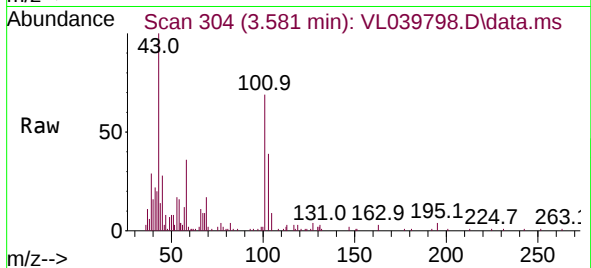
#11
Trichlorofluoromethane
Concen: 0.232 ppbv
RT: 3.581 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion:101 Resp: 2986
Ion Ratio Lower Upper
101 100
103 55.2 52.7 79.1

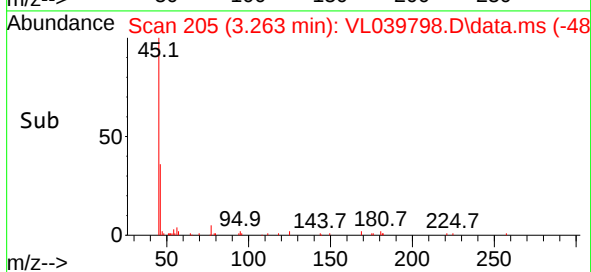
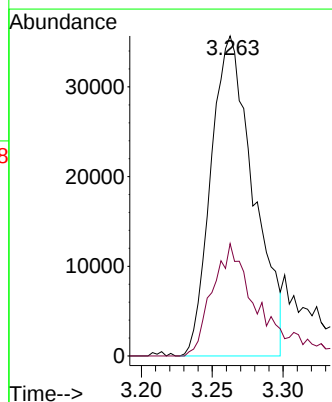
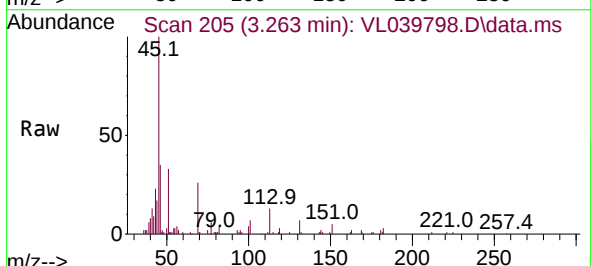
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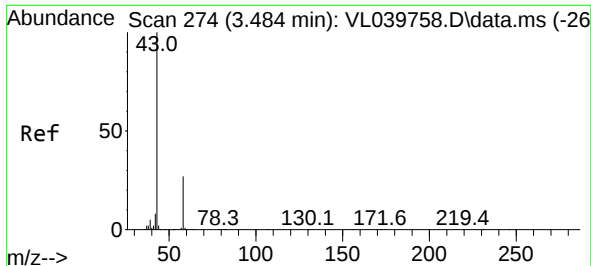
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#13
Ethanol
Concen: 22.832 ppbv
RT: 3.263 min Scan# 205
Delta R.T. 0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

Tgt Ion: 45 Resp: 74610
Ion Ratio Lower Upper
45 100
46 41.1 15.3 61.3





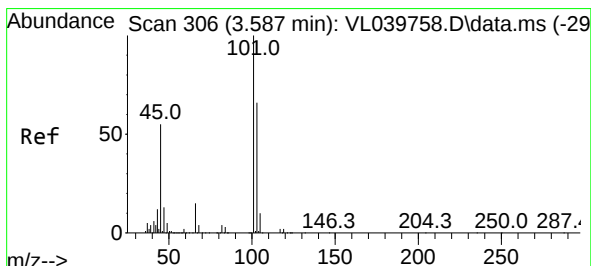
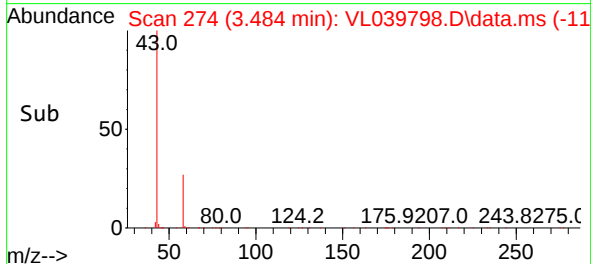
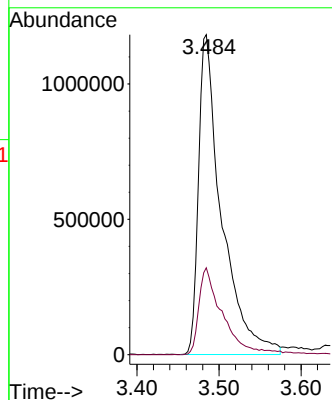
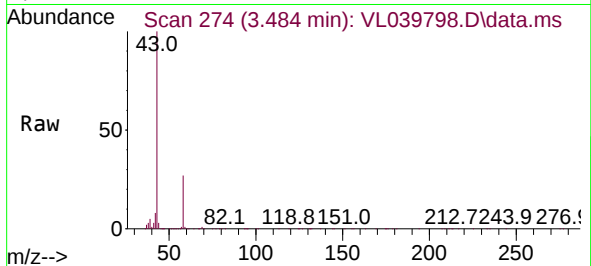
#15
Acetone
Concen: 21.869 ppbv
RT: 3.484 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

Instrument :
MSVOA_L
ClientSampleId :
H

Tgt Ion: 43 Resp: 230274
Ion Ratio Lower Upper
43 100
58 28.9 20.7 31.1

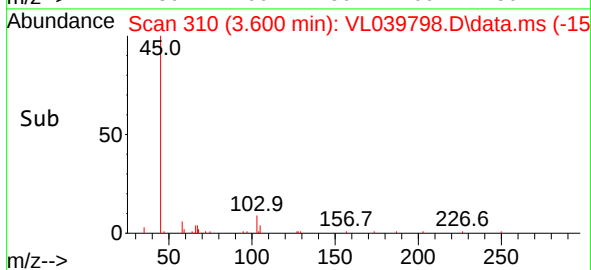
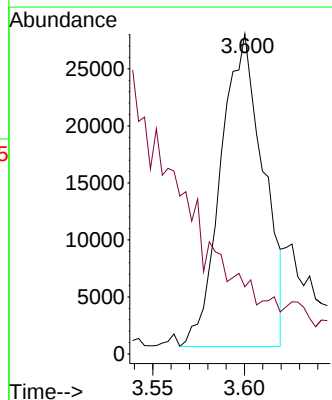
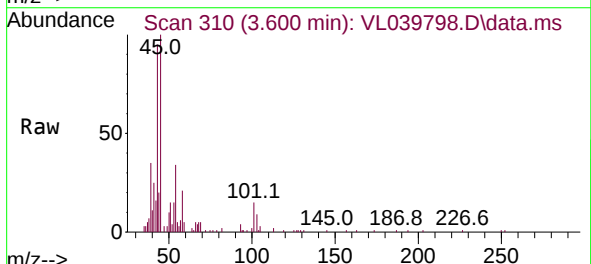
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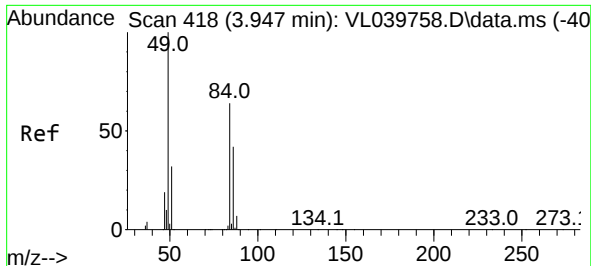
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#19
Isopropyl Alcohol
Concen: 0.896 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.013 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

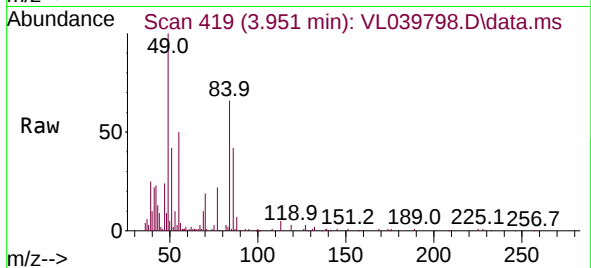
Tgt Ion: 45 Resp: 44209
Ion Ratio Lower Upper
45 100
58 0.0 2.8 4.2#





#20
Methylene Chloride
Concen: 1.100 ppbv
RT: 3.951 min Scan# 418
Delta R.T. 0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

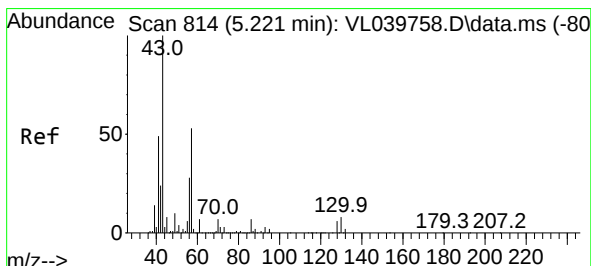
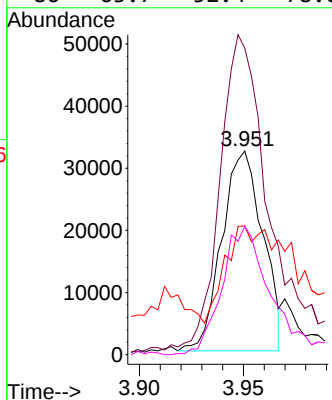
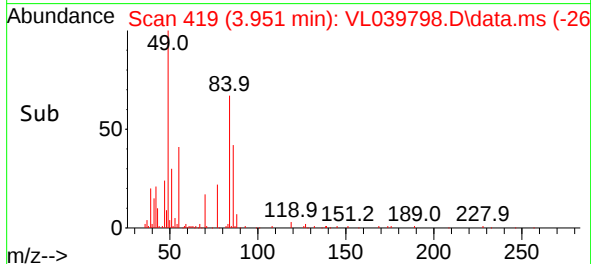
Instrument :
MSVOA_L
ClientSampleId :
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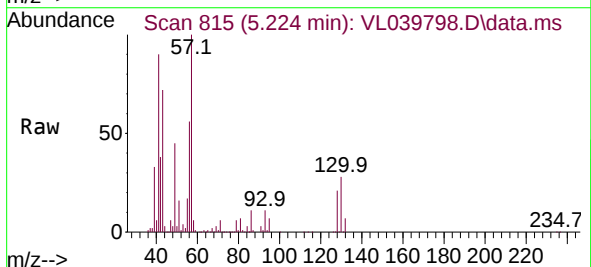
Tgt Ion: 84 Resp: 44078
Ion Ratio Lower Upper
84 100
49 149.5 126.0 189.0
51 34.5 40.9 61.3
86 63.7 52.4 78.6

Manual Integrations
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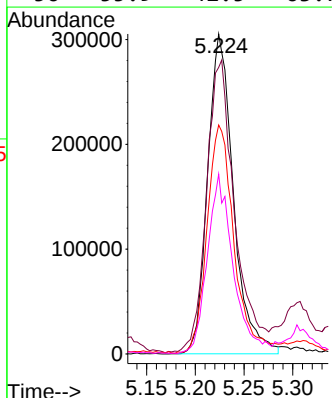
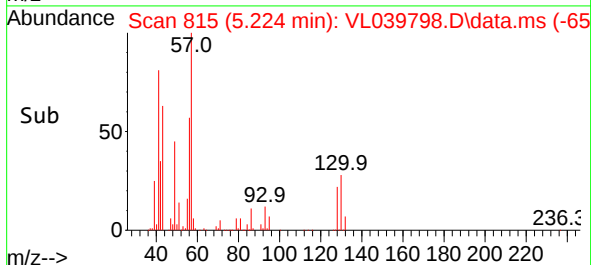
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Supervised By :Mahesh Dadoda 10/31/2022

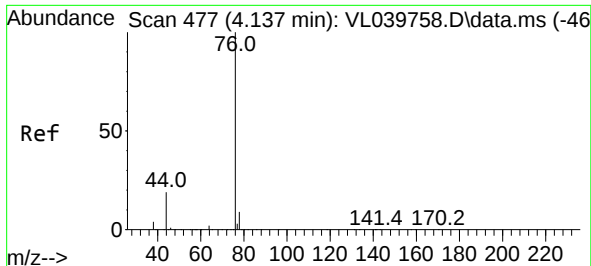


#26
Hexane
Concen: 6.566 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57



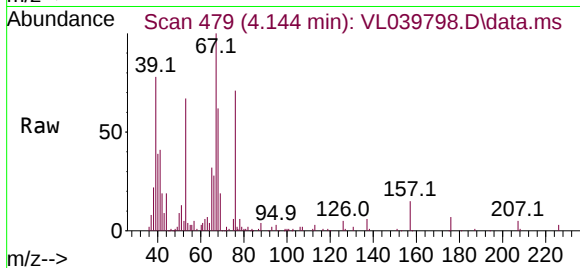
Tgt Ion: 57 Resp: 562039
Ion Ratio Lower Upper
57 100
41 100.5 76.1 114.1
43 75.1 197.1 295.7#
56 55.9 42.5 63.7





#27
Carbon Disulfide
Concen: 0.750 ppbv
RT: 4.144 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

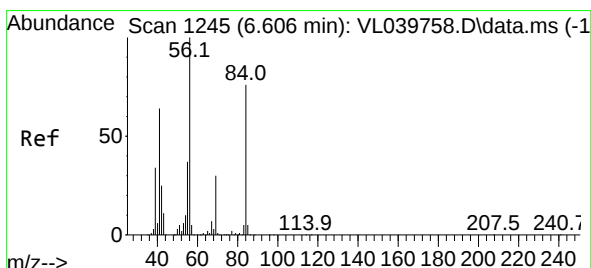
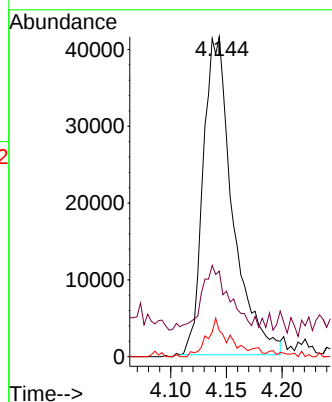
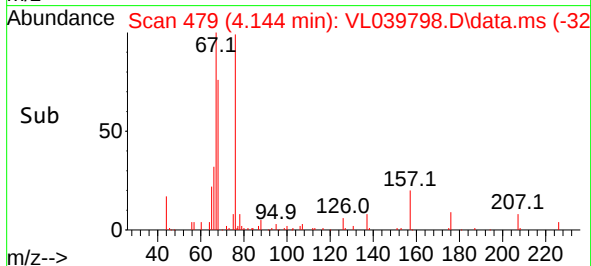
Instrument :
MSVOA_L
ClientSampleId :
H



Tgt Ion: 76 Resp: 76258
Ion Ratio Lower Upper
76 100
44 25.5 16.6 25.0
78 10.8 7.6 11.4

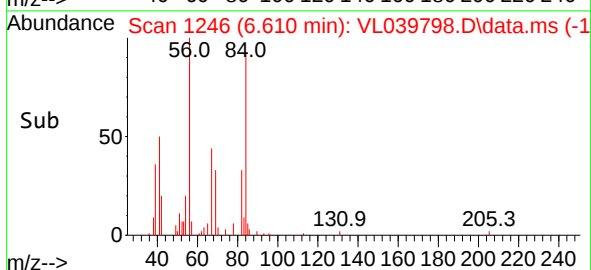
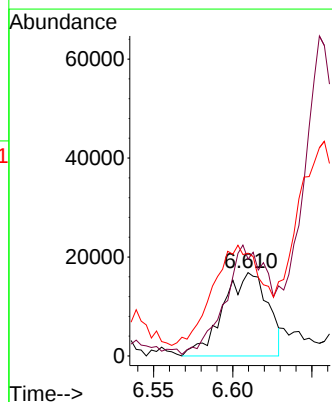
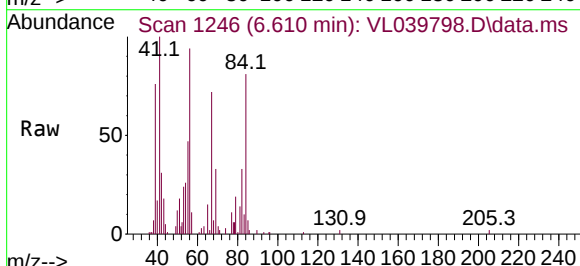
Manual Integrations
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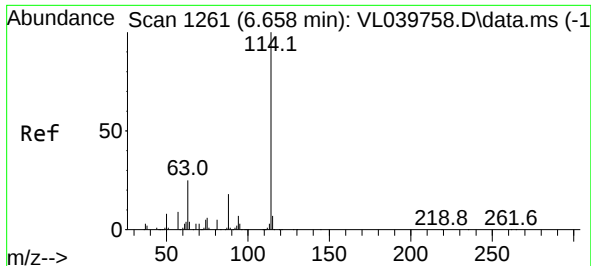
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#30
Cyclohexane
Concen: 0.474 ppbv m
RT: 6.610 min Scan# 1246
Delta R.T. 0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

Tgt Ion: 84 Resp: 33247
Ion Ratio Lower Upper
84 100
56 119.8 111.8 167.6
41 137.2 71.5 107.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL039798.D

Acq: 25 Oct 2022 21:57

Instrument :

MSVOA_L

ClientSampleId :

H

Tgt Ion:114 Resp: 242623

Ion Ratio Lower Upper

114 100

63 25.2 20.1 30.1

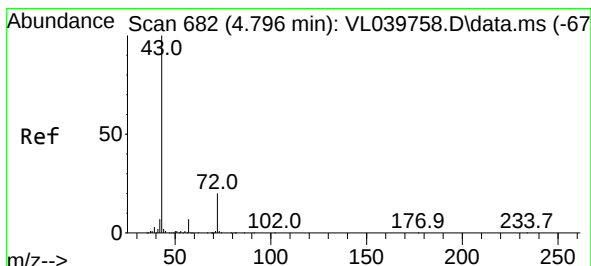
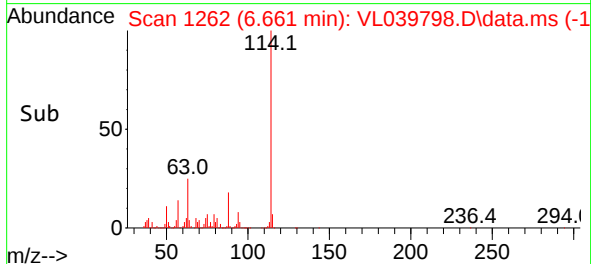
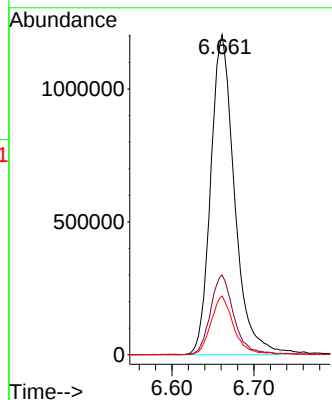
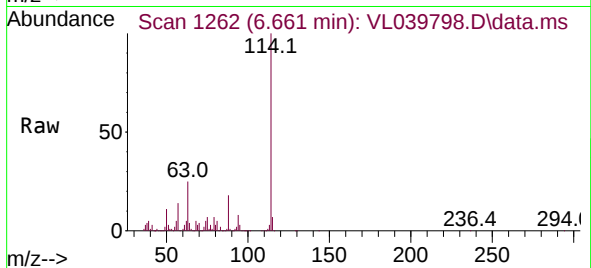
88 17.8 14.5 21.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2022

Supervised By :Mahesh Dadoda 10/31/2022



#34

2-Butanone

Concen: 5.644 ppbv

RT: 4.799 min Scan# 683

Delta R.T. 0.003 min

Lab File: VL039798.D

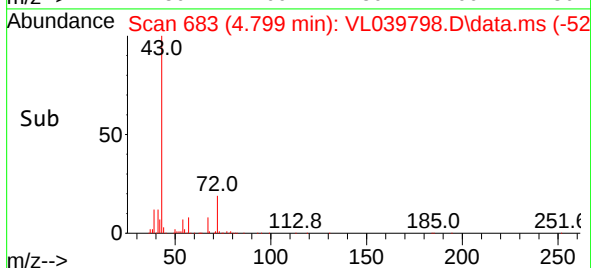
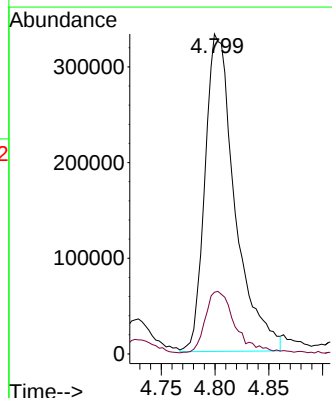
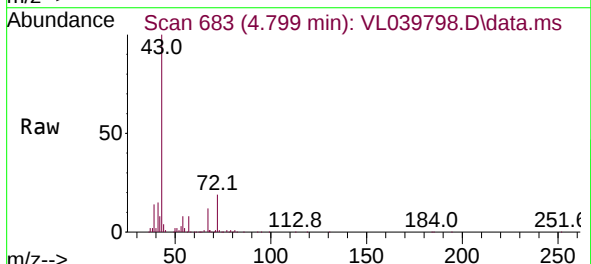
Acq: 25 Oct 2022 21:57

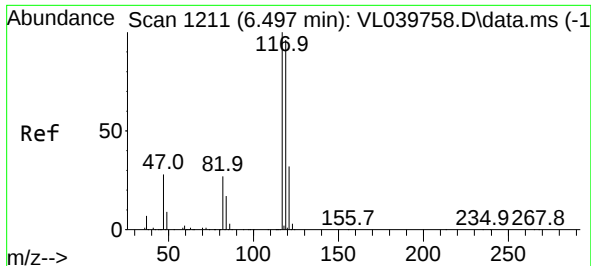
Tgt Ion: 43 Resp: 644190

Ion Ratio Lower Upper

43 100

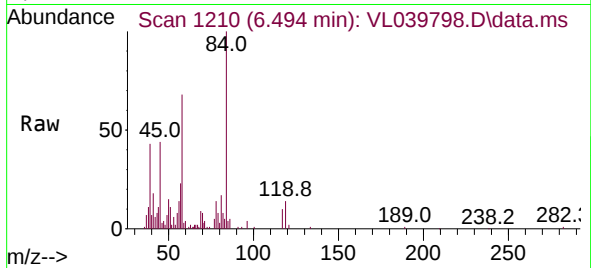
72 20.9 16.5 24.7





#35
Carbon Tetrachloride
Concen: 0.052 ppbv m
RT: 6.494 min Scan# 1173
Delta R.T. -0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

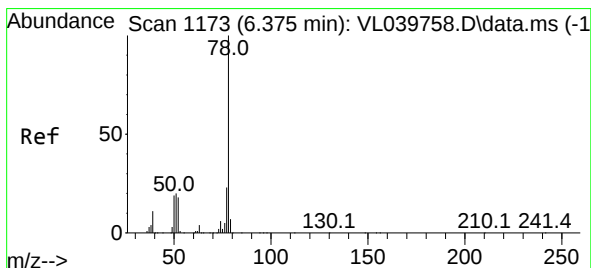
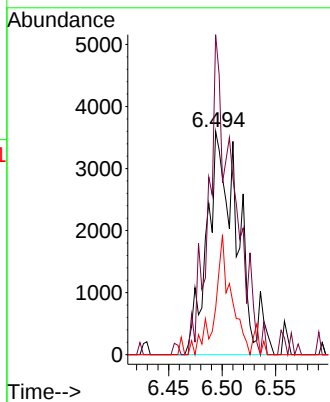
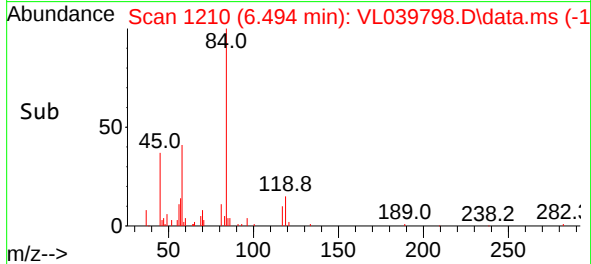
Instrument :
MSVOA_L
ClientSampleId :
H



Tgt Ion:117 Resp: 7138
Ion Ratio Lower Upper
117 100
119 143.3 76.6 115.0
121 20.8 25.3 37.9

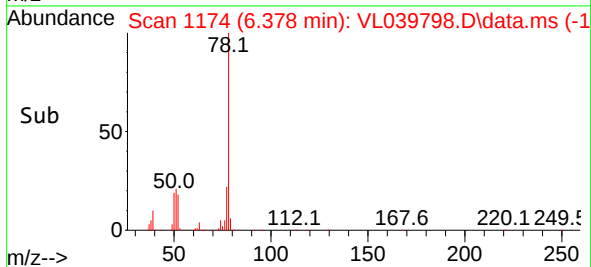
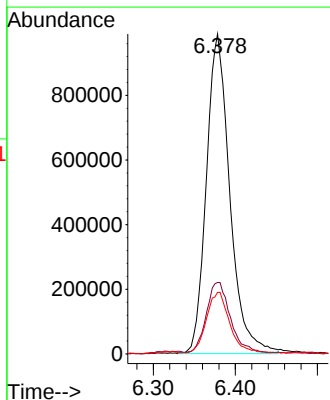
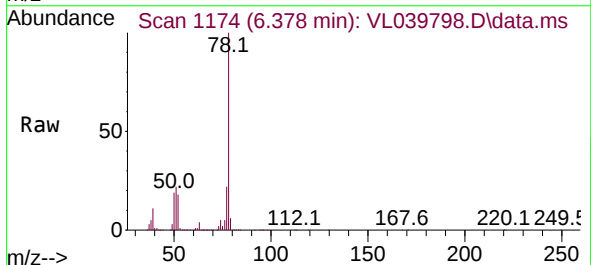
Manual Integrations
APPROVED

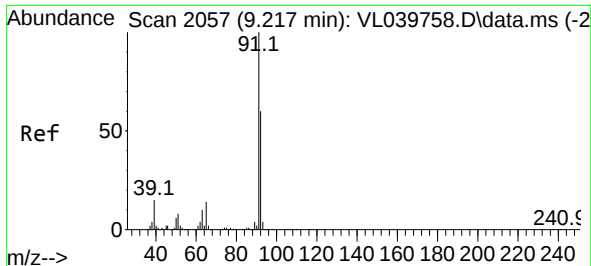
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#36
Benzene
Concen: 10.509 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

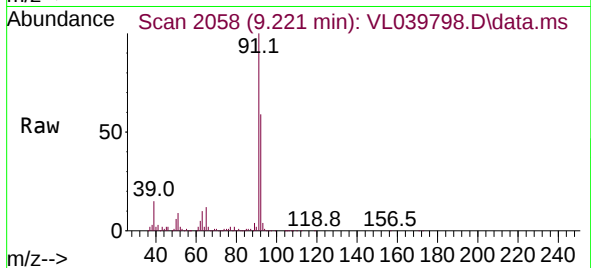
Tgt Ion: 78 Resp: 1963590
Ion Ratio Lower Upper
78 100
77 21.9 18.3 27.5
50 18.8 15.2 22.8





#53
Toluene
Concen: 7.036 ppbv
RT: 9.221 min Scan# 2057
Delta R.T. 0.004 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

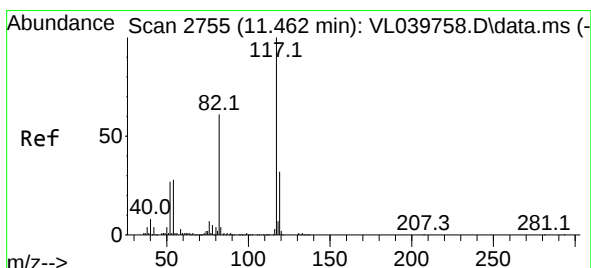
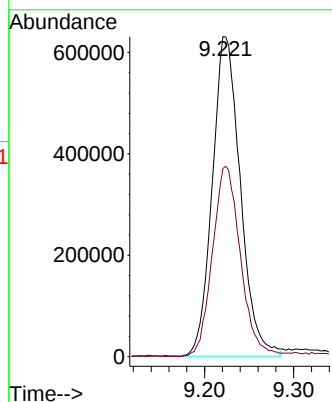
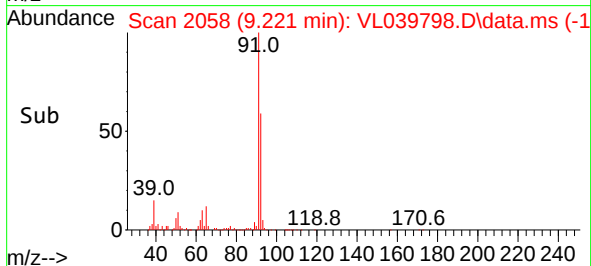
Instrument : MSVOA_L
Client Sample Id : H



Tgt Ion: 91 Resp: 1377370
Ion Ratio Lower Upper
91 100
92 61.5 48.0 72.0

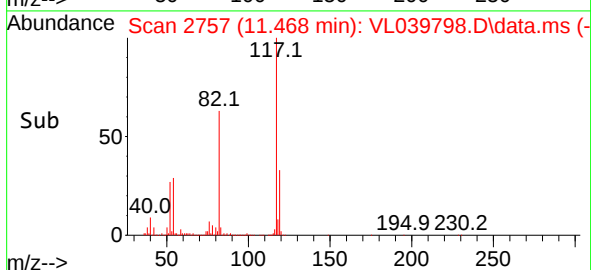
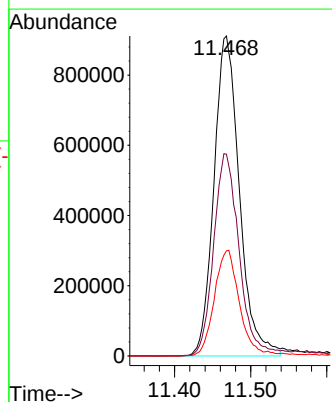
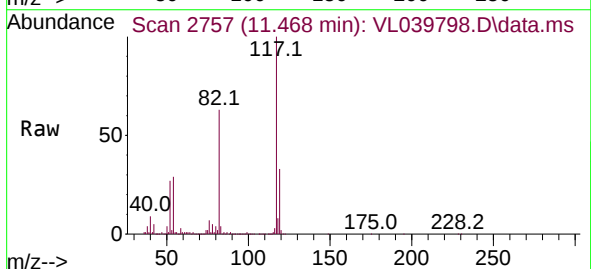
Manual Integrations
APPROVED

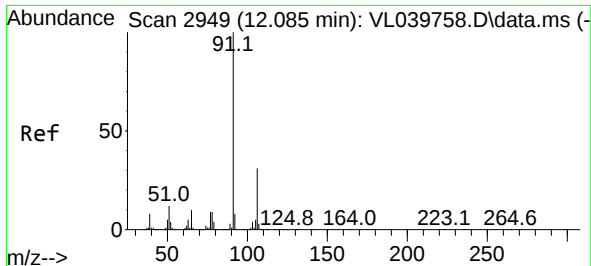
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.006 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

Tgt Ion:117 Resp: 2120758
Ion Ratio Lower Upper
117 100
82 65.4 49.9 74.9
119 33.4 25.2 37.8





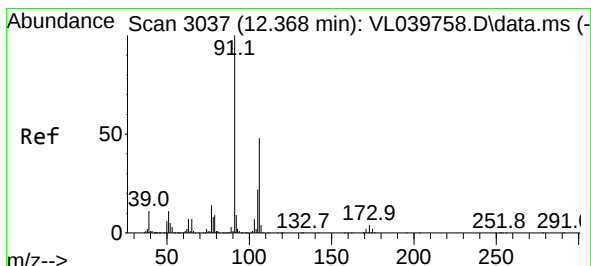
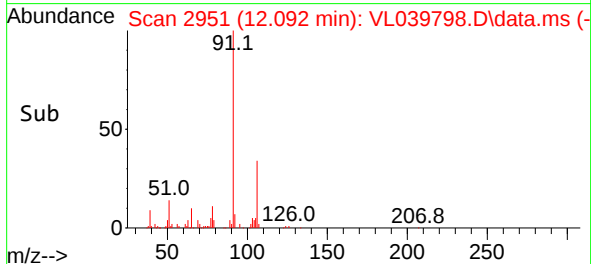
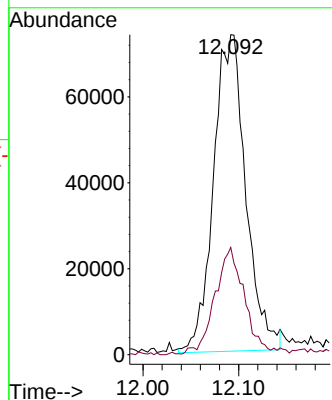
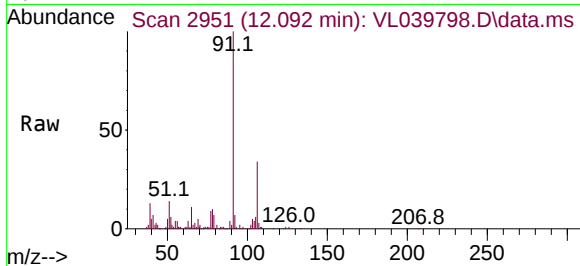
#58
Ethyl Benzene
Concen: 0.715 ppbv m
RT: 12.092 min Scan# 2949
Delta R.T. 0.006 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

Instrument :
MSVOA_L
ClientSampleId :
H

Tgt Ion: 91 Resp: 172710
Ion Ratio Lower Upper
91 100
106 33.5 24.6 36.8

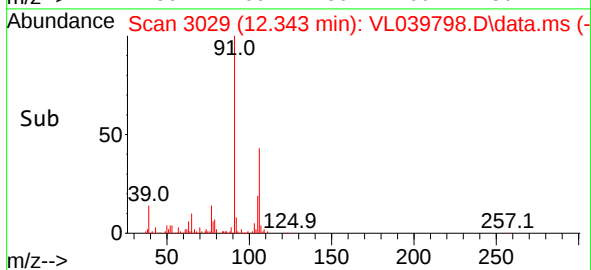
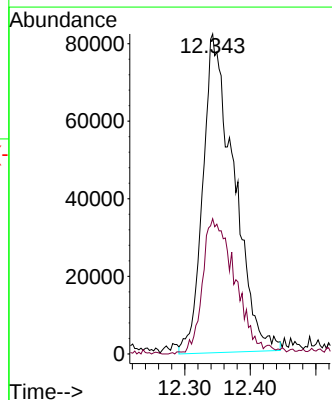
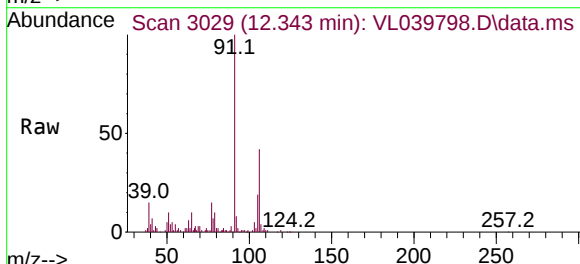
Manual Integrations
APPROVED

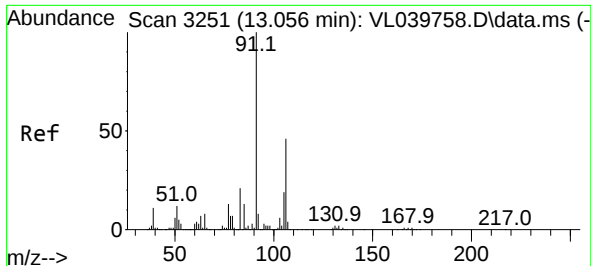
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#59
m/p-Xylene
Concen: 1.240 ppbv m
RT: 12.343 min Scan# 3029
Delta R.T. -0.026 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

Tgt Ion: 91 Resp: 270442
Ion Ratio Lower Upper
91 100
106 45.1 36.4 54.6





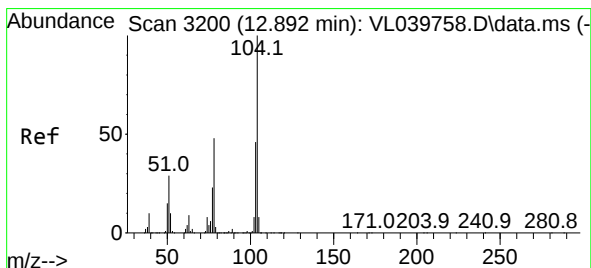
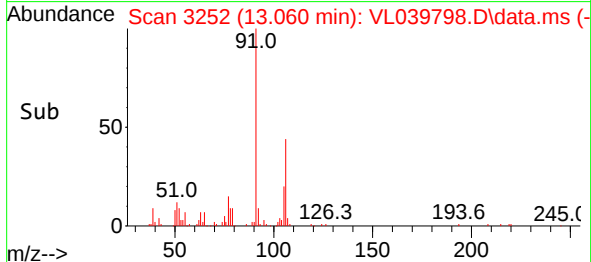
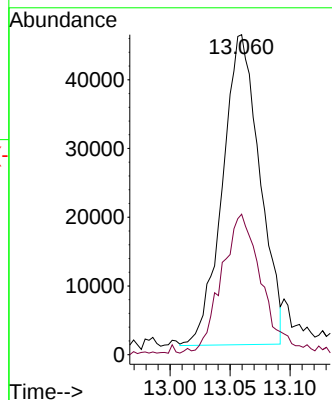
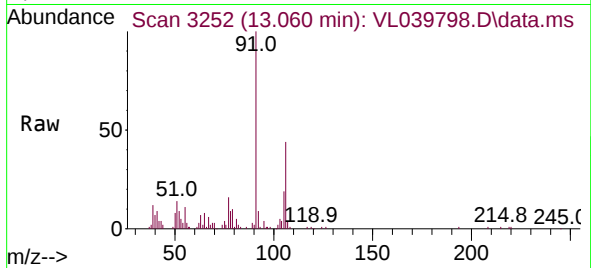
#60
o-Xylene
Concen: 0.477 ppbv
RT: 13.060 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

Instrument :
MSVOA_L
ClientSampleId :
H

Tgt Ion: 91 Resp: 9758
Ion Ratio Lower Upper
91 100
106 50.0 22.9 68.8

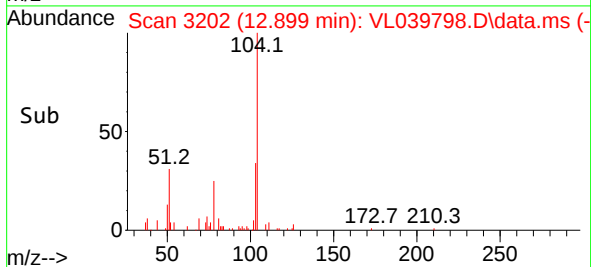
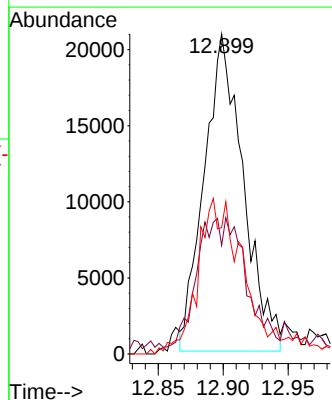
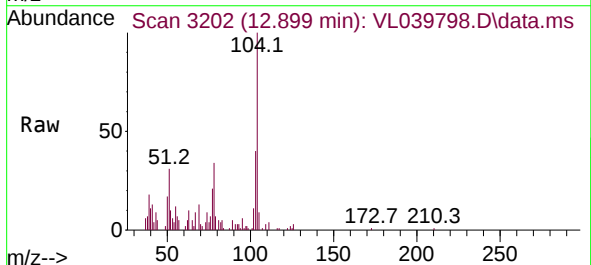
Manual Integrations
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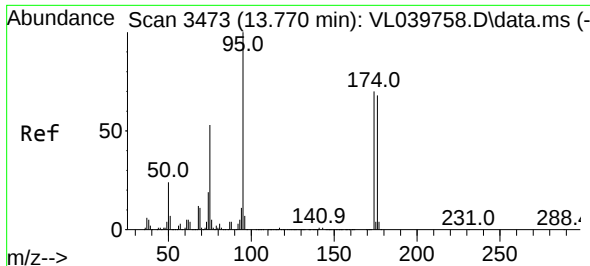
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#61
Styrene
Concen: 0.408 ppbv
RT: 12.899 min Scan# 3202
Delta R.T. 0.006 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

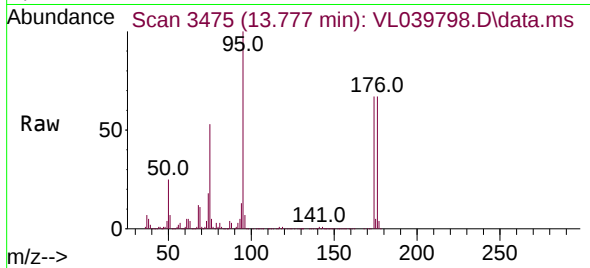
Tgt Ion:104 Resp: 43764
Ion Ratio Lower Upper
104 100
78 61.3 39.9 59.9#
103 59.3 38.8 58.2#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.175 ppbv
RT: 13.777 min Scan# 3473
Delta R.T. 0.006 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

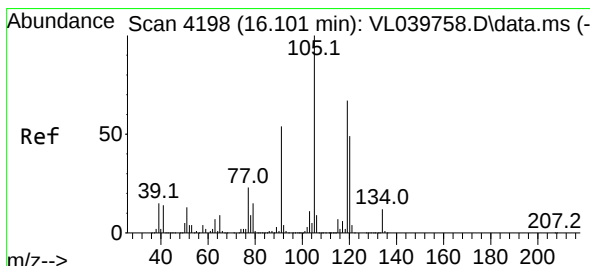
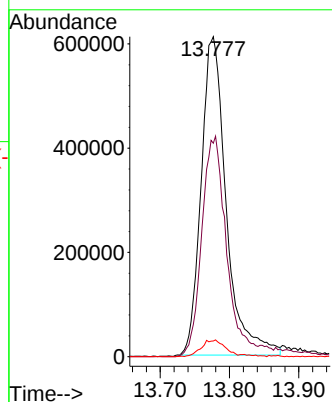
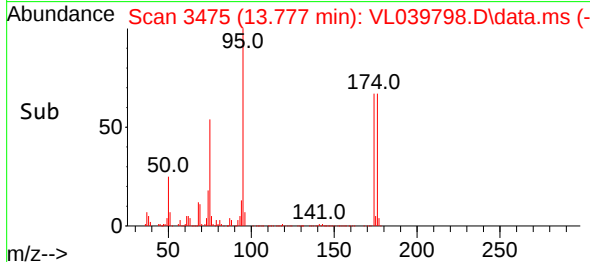
Instrument :
MSVOA_L
ClientSampleId :
H



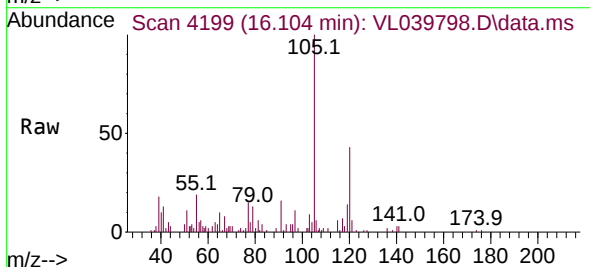
Tgt Ion: 95 Resp: 153508
Ion Ratio Lower Upper
95 100
174 73.0 57.3 85.9
175 5.5 4.2 6.2

Manual Integrations
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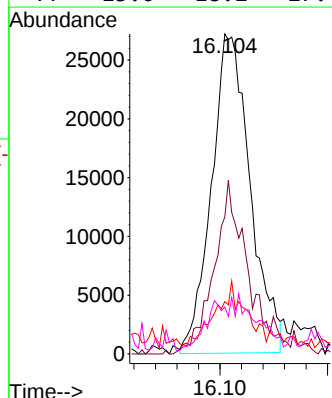
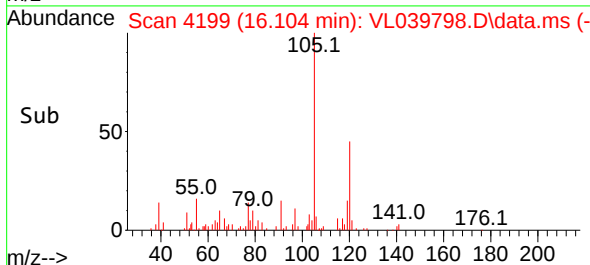
Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022

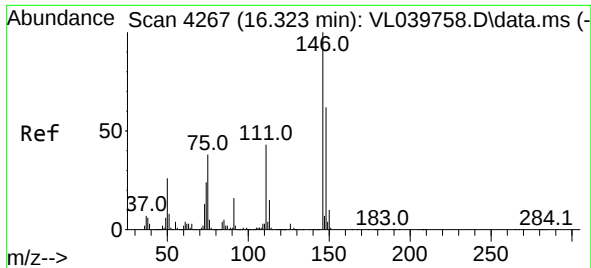


#74
1,2,4-Trimethylbenzene
Concen: 0.285 ppbv
RT: 16.104 min Scan# 4199
Delta R.T. 0.003 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57



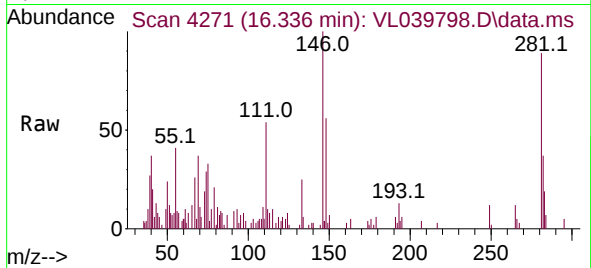
Tgt Ion:105 Resp: 67974
Ion Ratio Lower Upper
105 100
120 41.8 39.6 59.4
91 13.4 42.9 64.3#
77 13.0 18.2 27.4#





#75
1,3-Dichlorobenzene
Concen: 0.128 ppbv m
RT: 16.336 min Scan# 4267
Delta R.T. 0.013 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57

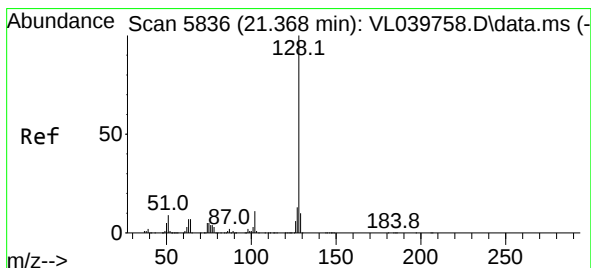
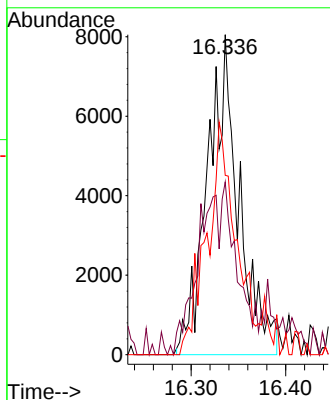
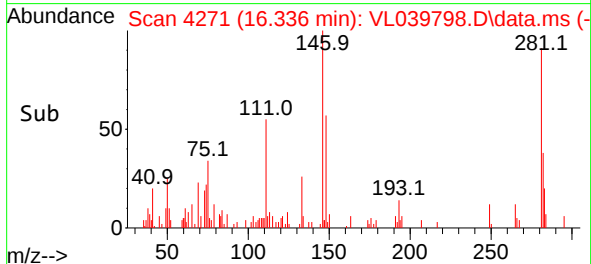
Instrument :
MSVOA_L
ClientSampleId :
H



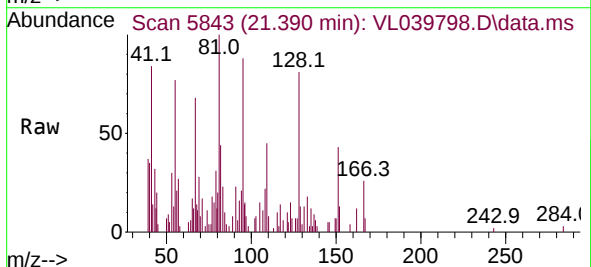
Tgt Ion:146 Resp: 18518
Ion Ratio Lower Upper
146 100
111 66.0 22.4 67.3
148 0.0 32.4 97.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2022
Supervised By :Mahesh Dadoda 10/31/2022



#79
Naphthalene
Concen: 0.107 ppbv m
RT: 21.390 min Scan# 5843
Delta R.T. 0.023 min
Lab File: VL039798.D
Acq: 25 Oct 2022 21:57



Tgt Ion:128 Resp: 15607
Ion Ratio Lower Upper
128 100
127 8.8 10.5 15.7#
129 15.5 8.4 12.6#

