

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039926.D
 Acq On : 22 Nov 2022 21:29
 Operator : SY/AP
 Sample : N5767-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/23/2022
 Supervised By : Mahesh Dadoda 11/24/2022

Quant Time: Nov 23 04:51:57 2022

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

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

QLast Update : Tue Nov 22 03:45:31 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.172	49	1001512	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.635	114	2741876	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.455	117	2416247	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1922841	10.419	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.706	85	77925	0.543	ppbv	95
3) Chlorodifluoromethane	2.652	51	51258m	0.371	ppbv	
4) Chloromethane	2.793	50	30526	0.346	ppbv	90
9) Propene	2.681	41	104249m	1.601	ppbv	
11) Trichlorofluoromethane	3.542	101	41316	0.236	ppbv	96
13) Ethanol	3.221	45	176967	35.606	ppbv	98
15) Acetone	3.452	43	406730	3.062	ppbv	94
20) Methylene Chloride	3.912	84	242569	3.769	ppbv	99
26) Hexane	5.195	57	231913	2.177	ppbv #	38
29) Chloroform	5.253	83	669824	4.731	ppbv	98
34) 2-Butanone	4.777	43	30009	0.229	ppbv #	86
35) Carbon Tetrachloride	6.471	117	11317m	0.073	ppbv	
36) Benzene	6.349	78	80793	0.347	ppbv	94
38) Trichloroethene	7.278	130	21233m	0.163	ppbv	
42) Bromodichloromethane	7.233	83	35068m	0.202	ppbv	
44) 2,2,4-Trimethylpentane	7.307	57	52251	0.134	ppbv #	68
52) Tetrachloroethene	10.597	164	47272m	0.542	ppbv	
53) Toluene	9.208	91	183673	0.692	ppbv	97
58) Ethyl Benzene	12.079	91	58523m	0.179	ppbv	
59) m/p-Xylene	12.336	91	187944m	0.685	ppbv	
60) o-Xylene	13.047	91	63038	0.241	ppbv	99
69) p-Isopropyltoluene	16.989	119	66359m	0.178	ppbv	
73) 1,3,5-Trimethylbenzene	15.349	105	35454m	0.132	ppbv	
74) 1,2,4-Trimethylbenzene	16.104	105	94601	0.332	ppbv #	70

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

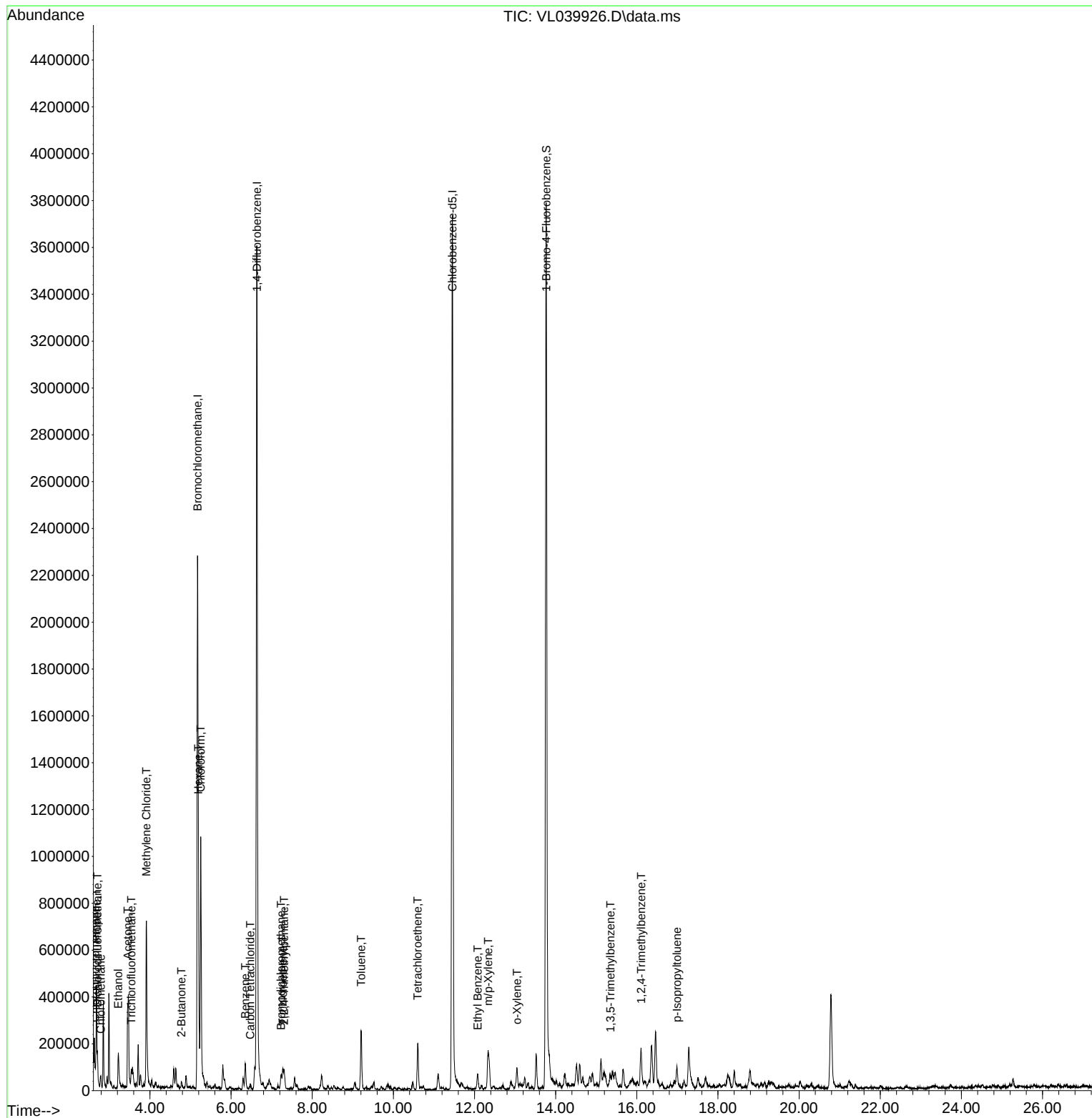
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
Data File : VL039926.D
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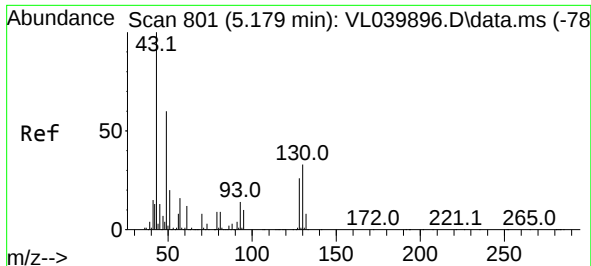
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Nov 23 04:51:57 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 : Tue Nov 22 03:45:31 2022
Response via : Initial Calibration

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 11/23/2022
Supervised By : Mahesh Dadoda 11/24/2022





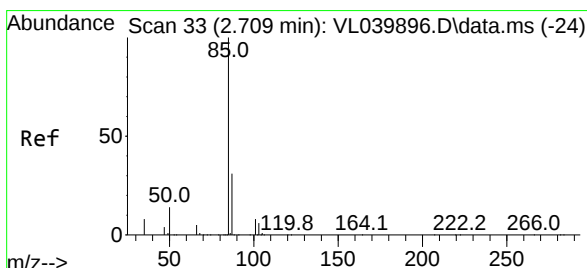
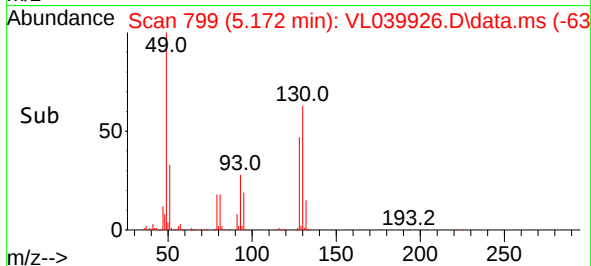
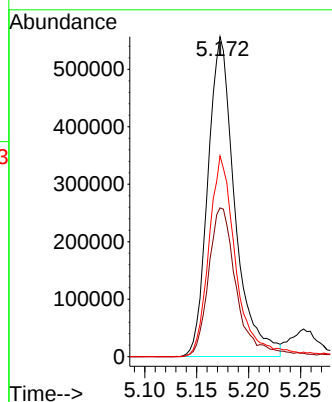
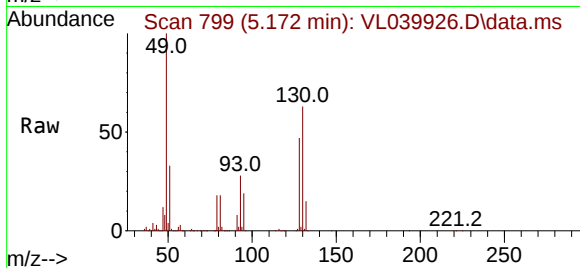
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.172 min Scan# 79
Delta R.T. 0.016 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 100151
Ion Ratio Lower Upper
49 100
128 50.1 22.1 66.3
130 65.3 27.7 83.1

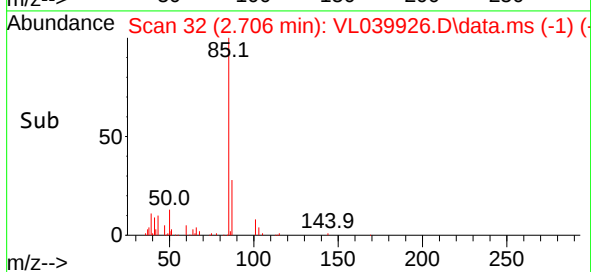
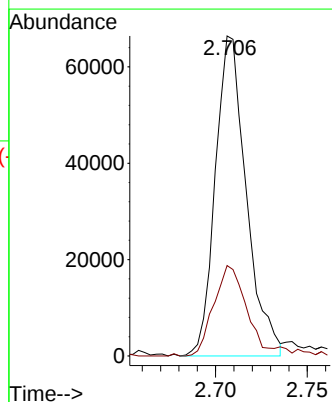
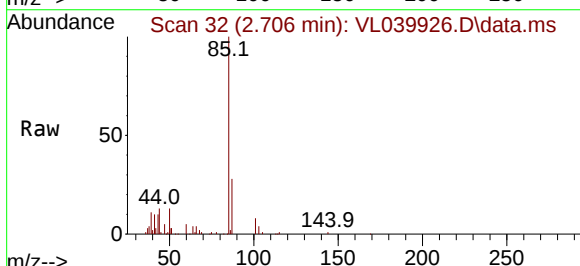
Manual Integrations
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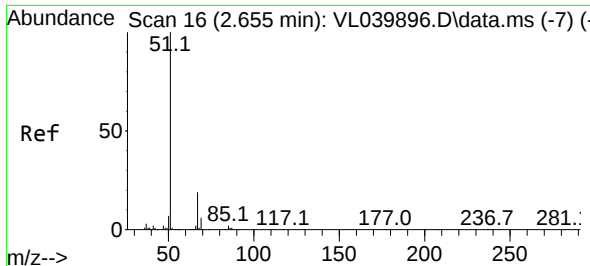
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#2
Dichlorodifluoromethane
Concen: 0.543 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.010 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

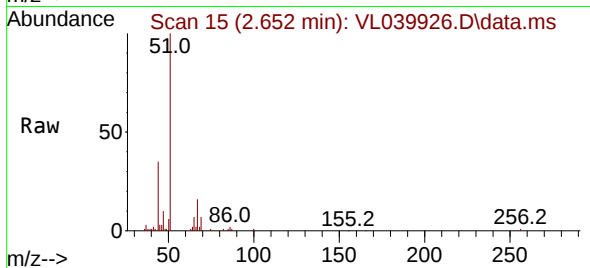
Tgt Ion: 85 Resp: 77925
Ion Ratio Lower Upper
85 100
87 28.2 25.0 37.4





#3
Chlorodifluoromethane
Concen: 0.371 ppbv m
RT: 2.652 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

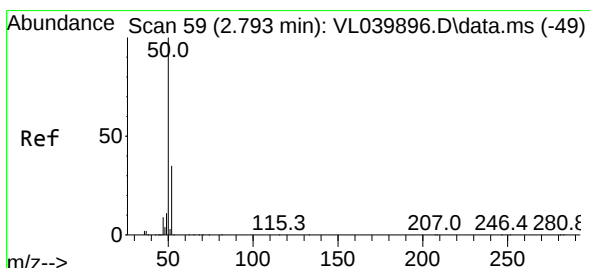
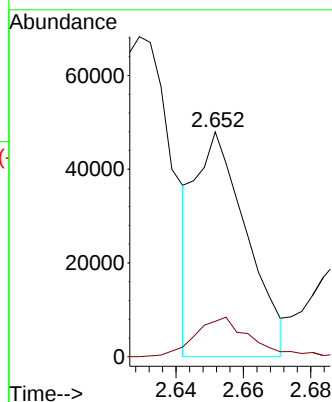
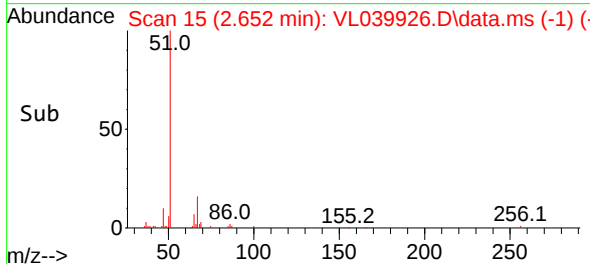
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 51 Resp: 51258
Ion Ratio Lower Upper
51 100
67 1.2 14.2 21.4

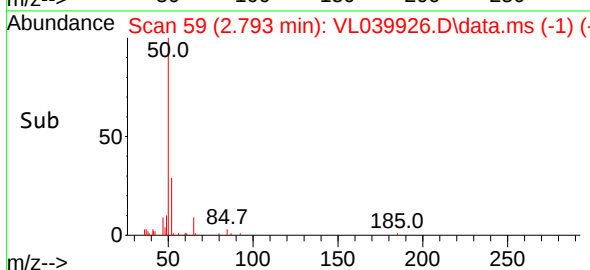
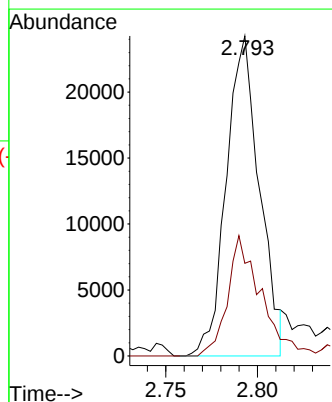
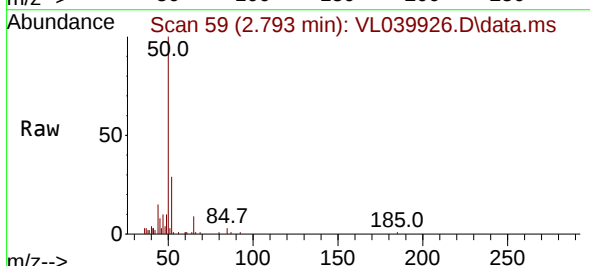
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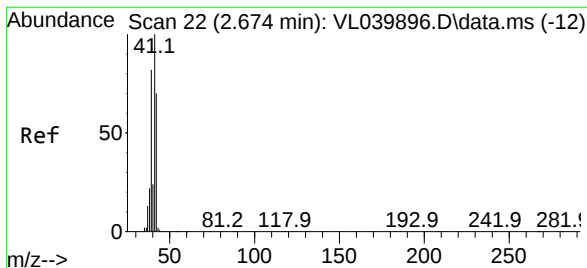
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#4
Chloromethane
Concen: 0.346 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

Tgt Ion: 50 Resp: 30526
Ion Ratio Lower Upper
50 100
52 29.0 27.8 41.8





#9

Propene

Concen: 1.601 ppbv m

RT: 2.681 min Scan# 24

Delta R.T. 0.019 min

Lab File: VL039926.D

Acq: 22 Nov 2022 21:29

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 41 Resp: 104249

Ion Ratio Lower Upper

41 100

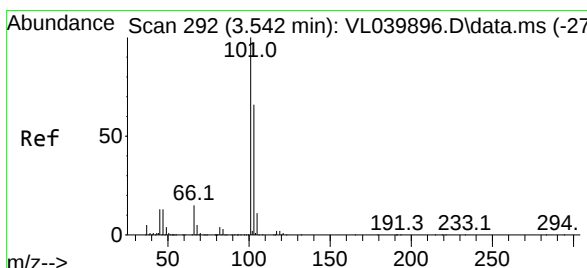
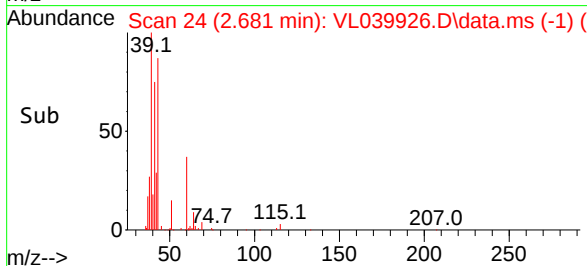
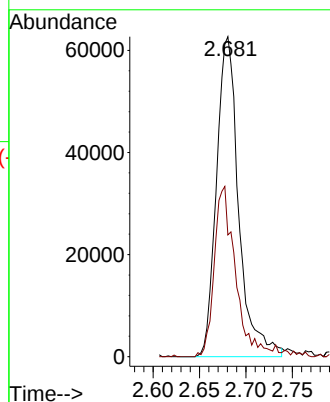
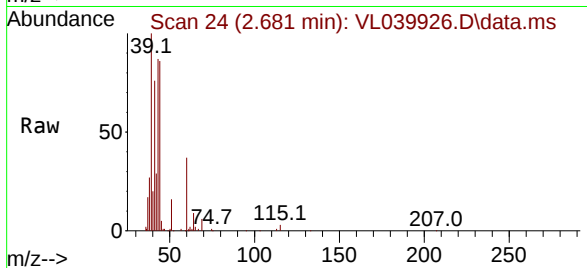
42 58.4 55.8 83.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/23/2022

Supervised By :Mahesh Dadoda 11/24/2022



#11

Trichlorofluoromethane

Concen: 0.236 ppbv

RT: 3.542 min Scan# 292

Delta R.T. 0.013 min

Lab File: VL039926.D

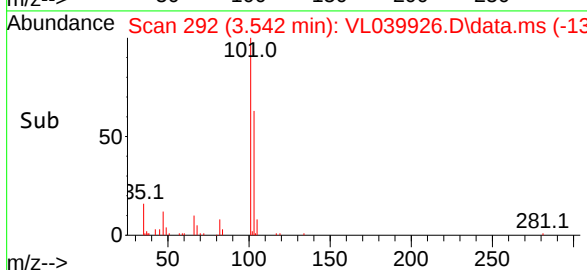
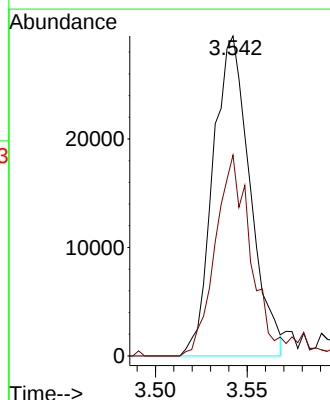
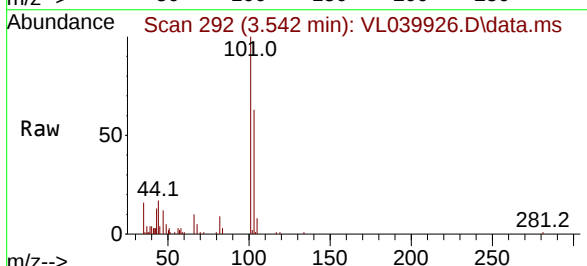
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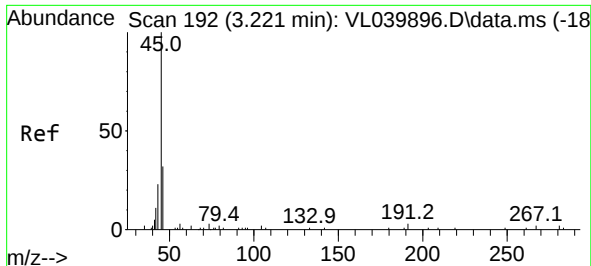
Tgt Ion:101 Resp: 41316

Ion Ratio Lower Upper

101 100

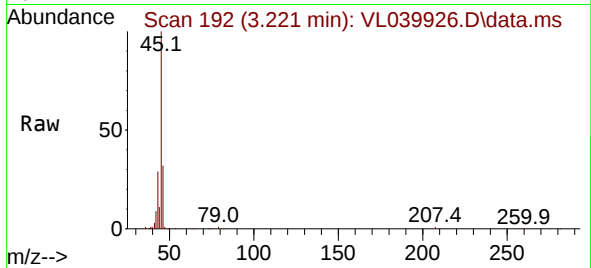
103 62.7 52.6 78.8





#13
Ethanol
Concen: 35.606 ppbv
RT: 3.221 min Scan# 192
Delta R.T. 0.013 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

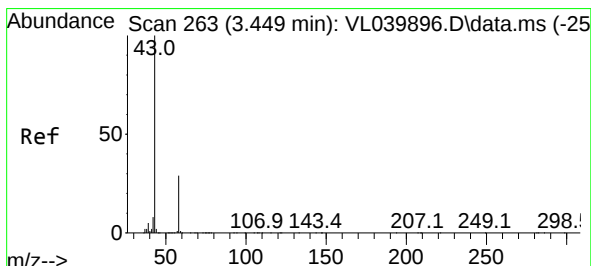
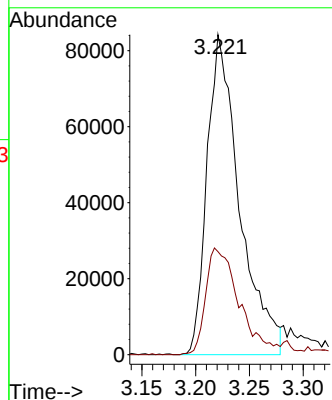
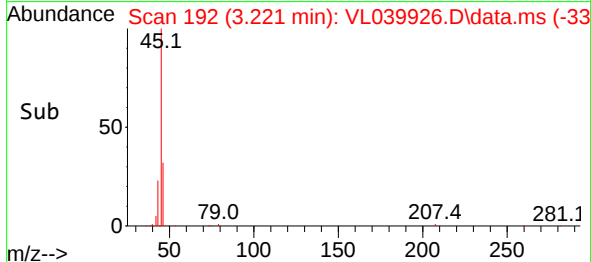
Instrument :
MSVOA_L
ClientSampleId :
IA2



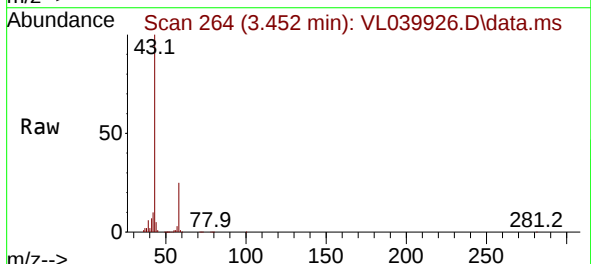
Tgt Ion: 45 Resp: 17696
Ion Ratio Lower Upper
45 100
46 37.6 14.6 58.2

Manual Integrations
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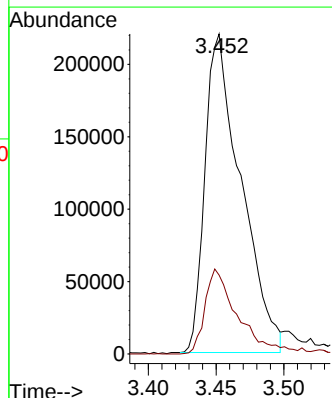
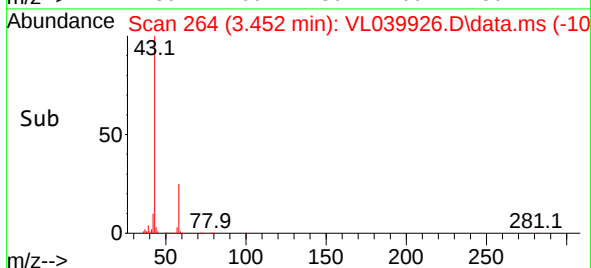
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022

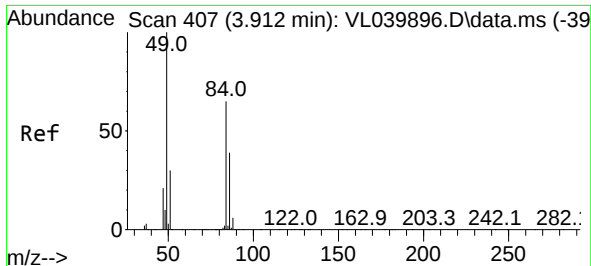


#15
Acetone
Concen: 3.062 ppbv
RT: 3.452 min Scan# 264
Delta R.T. 0.019 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29



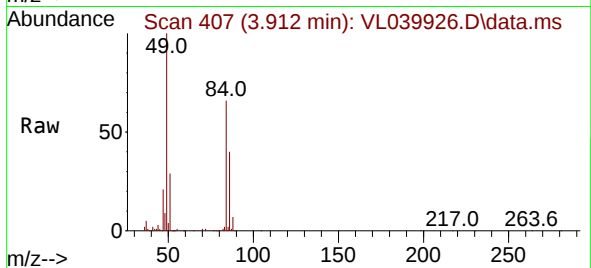
Tgt Ion: 43 Resp: 406730
Ion Ratio Lower Upper
43 100
58 25.3 22.9 34.3





#20
Methylene Chloride
Concen: 3.769 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.013 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

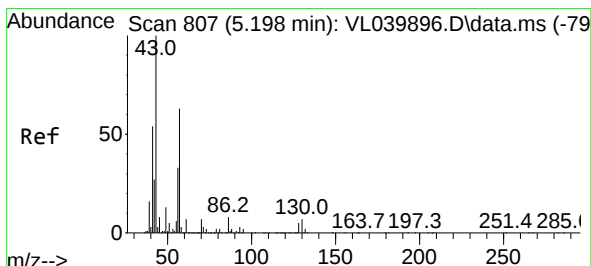
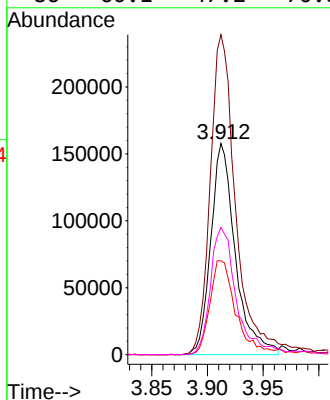
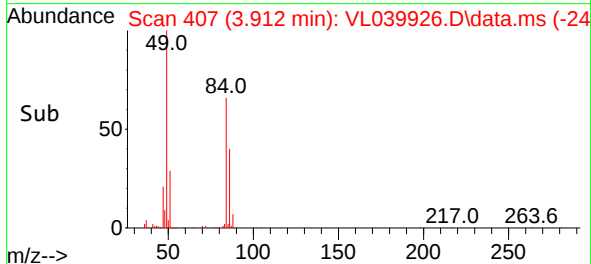
Instrument :
MSVOA_L
ClientSampleId :
IA2



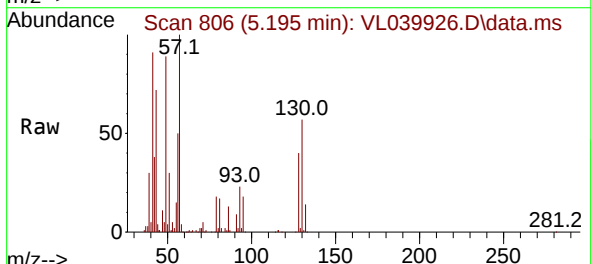
Tgt Ion: 84 Resp: 242569
Ion Ratio Lower Upper
84 100
49 151.5 122.2 183.4
51 44.5 36.3 54.5
86 60.1 47.2 70.8

Manual Integrations
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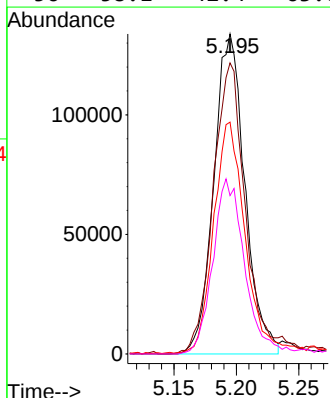
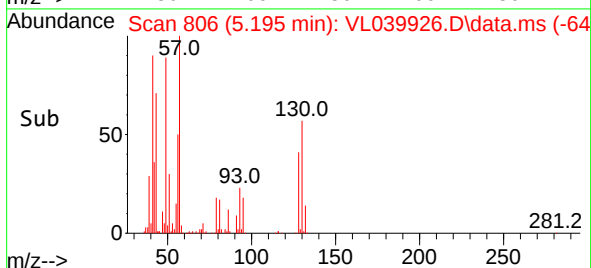
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Supervised By :Mahesh Dadoda 11/24/2022

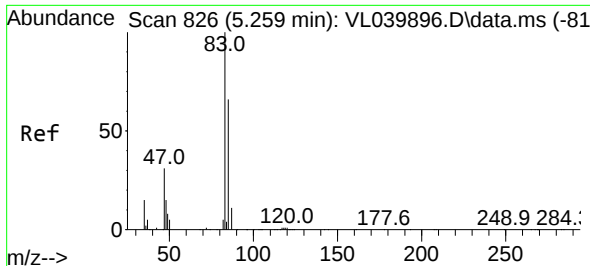


#26
Hexane
Concen: 2.177 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.013 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29



Tgt Ion: 57 Resp: 231913
Ion Ratio Lower Upper
57 100
41 97.5 72.3 108.5
43 75.5 188.7 283.1#
56 58.1 42.4 63.6





#29

Chloroform

Concen: 4.731 ppbv

RT: 5.253 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL039926.D

Acq: 22 Nov 2022 21:29

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 83 Resp: 669824

Ion Ratio Lower Upper

83 100

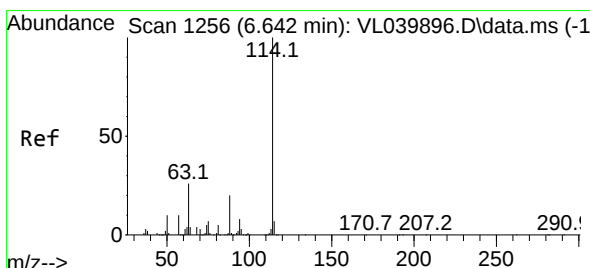
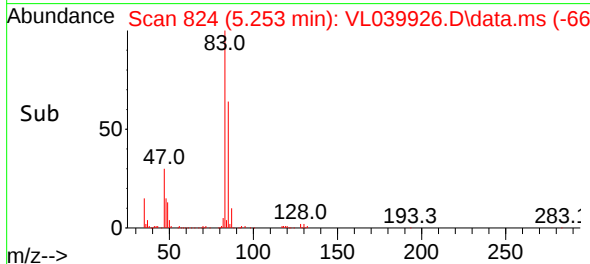
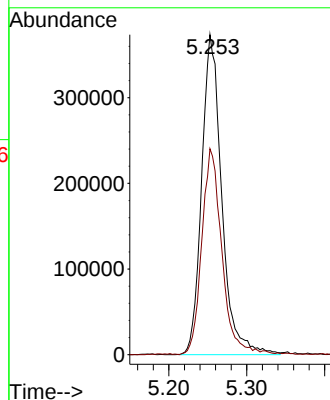
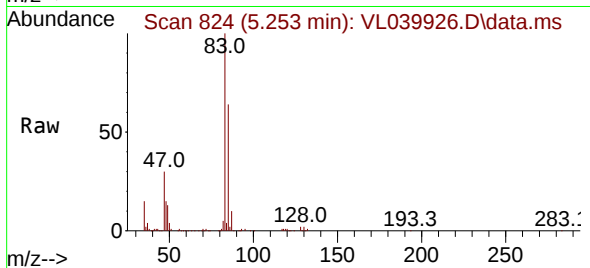
85 64.3 52.4 78.6

Manual Integrations

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Supervised By :Mahesh Dadoda 11/24/2022



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 1254

Delta R.T. 0.016 min

Lab File: VL039926.D

Acq: 22 Nov 2022 21:29

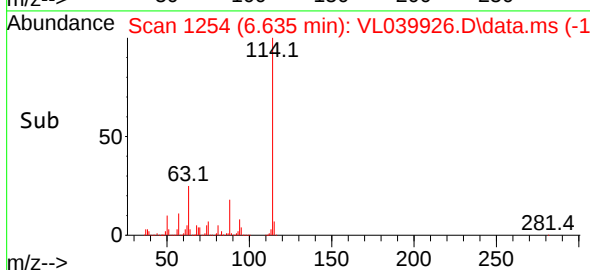
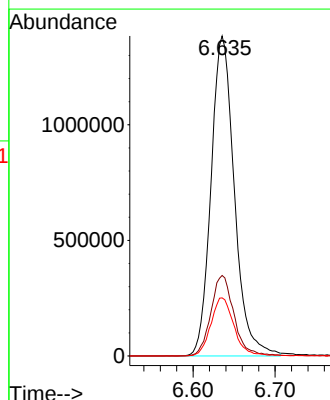
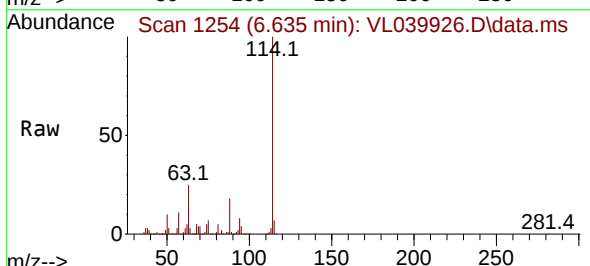
Tgt Ion:114 Resp: 2741876

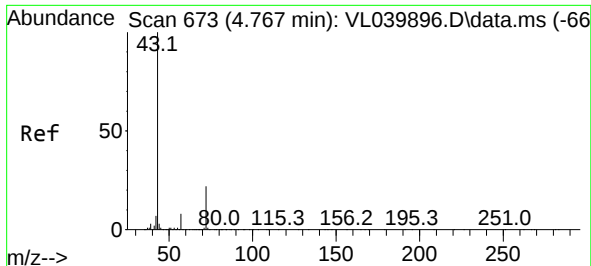
Ion Ratio Lower Upper

114 100

63 25.1 21.4 32.0

88 18.2 15.3 22.9





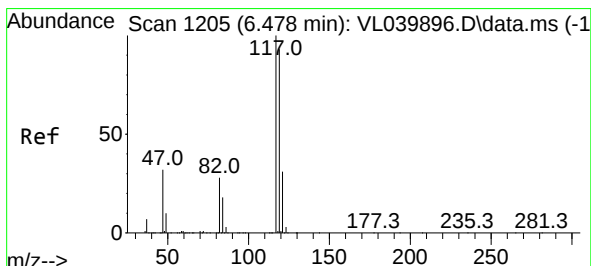
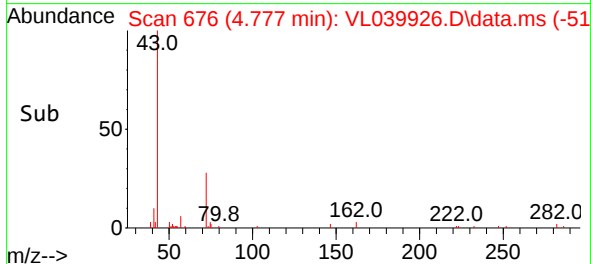
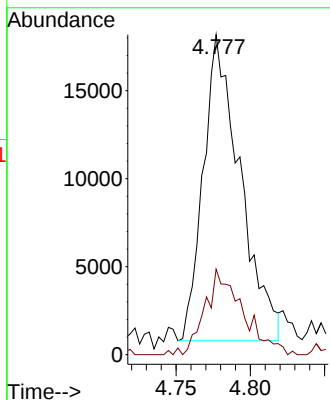
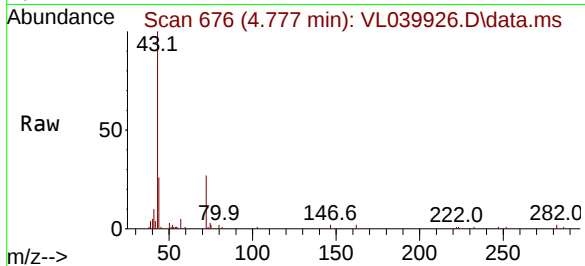
#34
2-Butanone
Concen: 0.229 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 3000
Ion Ratio Lower Upper
43 100
72 28.6 17.4 26.2

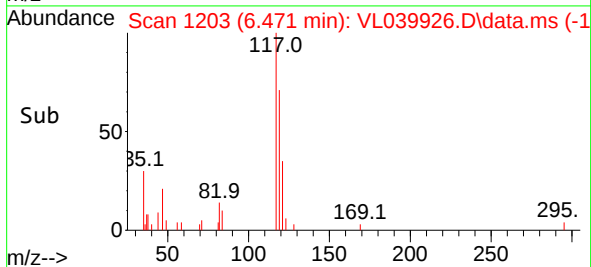
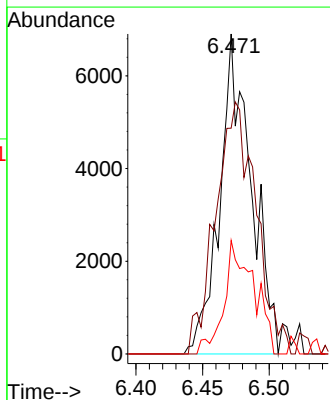
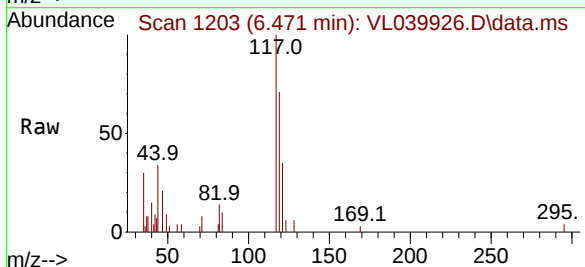
Manual Integrations
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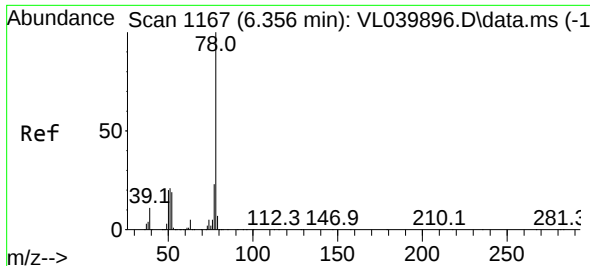
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 6.471 min Scan# 1203
Delta R.T. 0.010 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

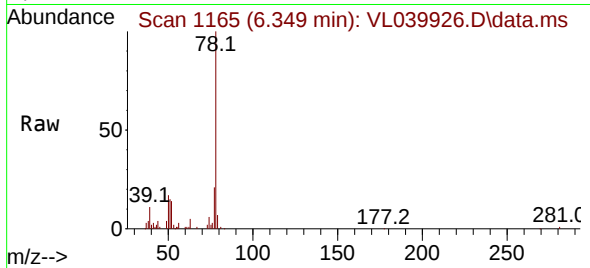
Tgt Ion:117 Resp: 11317
Ion Ratio Lower Upper
117 100
119 70.6 74.7 112.1#
121 35.4 24.5 36.7





#36
Benzene
Concen: 0.347 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.013 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

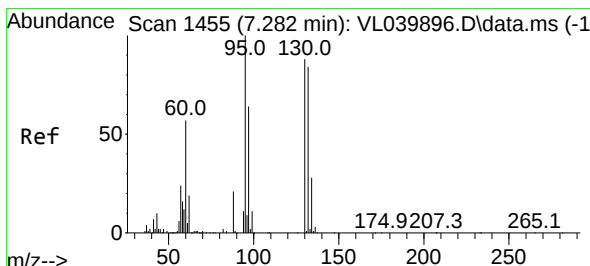
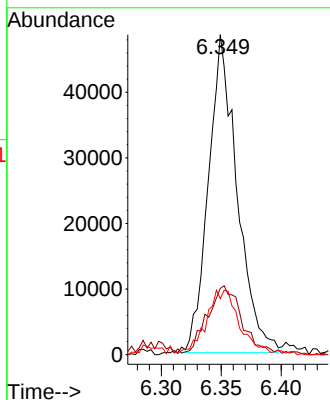
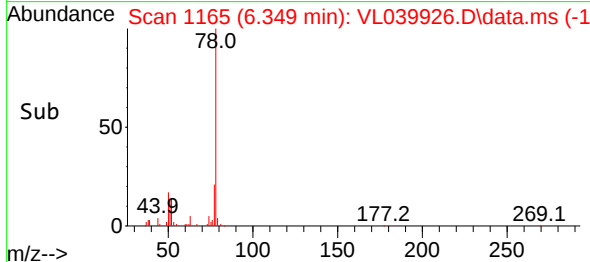
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 78 Resp: 8079
Ion Ratio Lower Upper
78 100
77 19.4 18.2 27.2
50 17.2 15.8 23.8

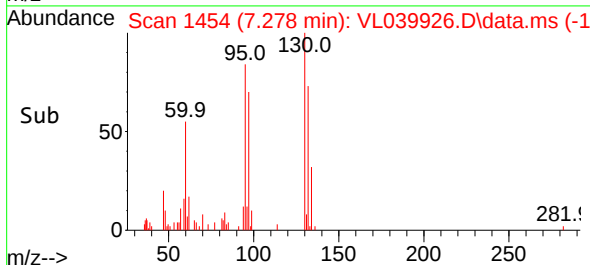
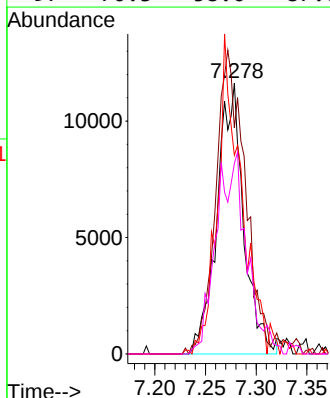
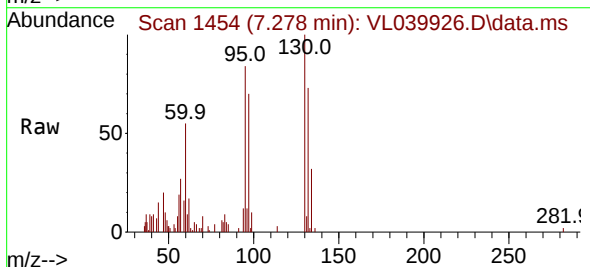
Manual Integrations
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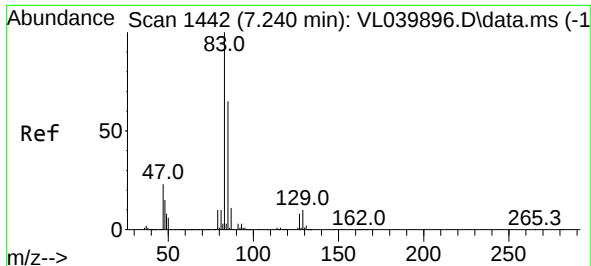
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#38
Trichloroethene
Concen: 0.163 ppbv m
RT: 7.278 min Scan# 1454
Delta R.T. 0.019 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

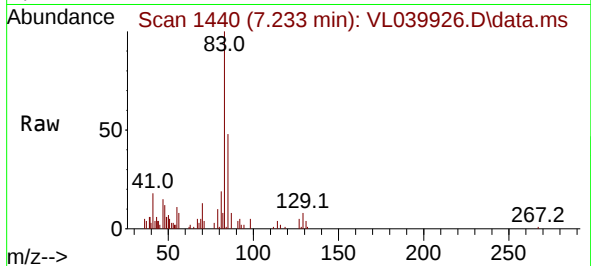
Tgt Ion:130 Resp: 21233
Ion Ratio Lower Upper
130 100
95 83.5 90.6 135.8#
132 73.4 76.2 114.4#
97 70.3 58.0 87.0





#42
Bromodichloromethane
Concen: 0.202 ppbv
RT: 7.233 min Scan# 1440
Delta R.T. 0.016 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

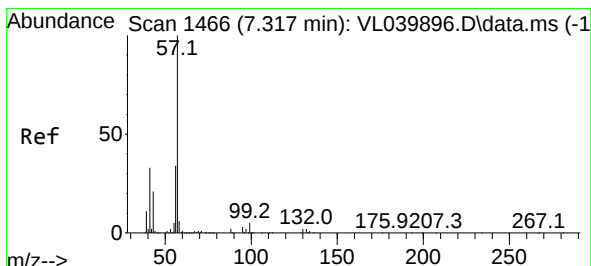
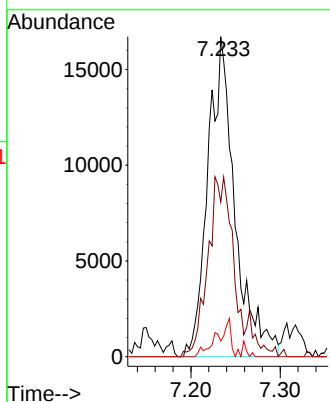
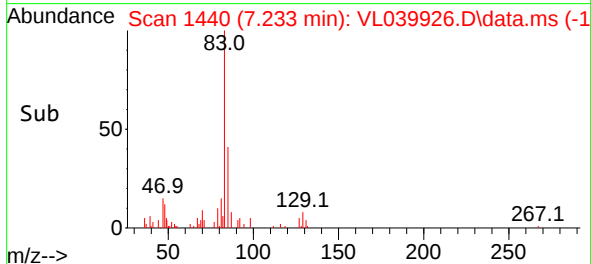
Instrument : MSVOA_L
ClientSampleId : IA2



Tgt Ion: 83 Resp: 35068
Ion Ratio Lower Upper
83 100
85 48.3 52.0 78.0#
127 4.9 6.5 9.7#

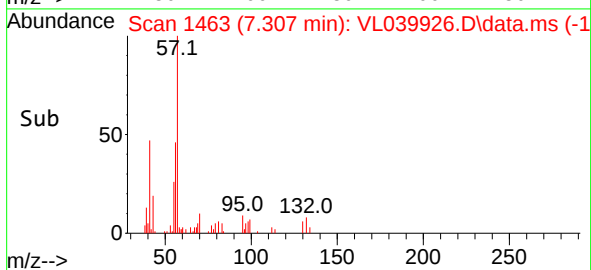
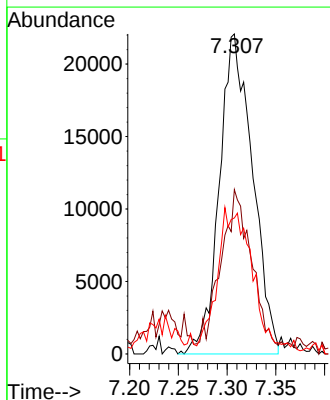
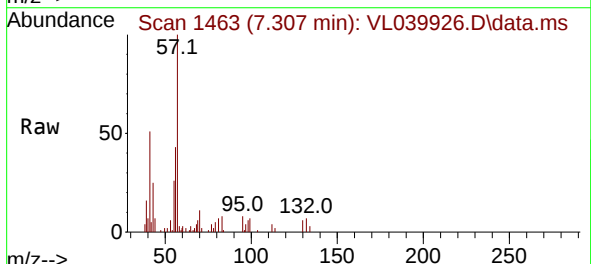
Manual Integrations
APPROVED

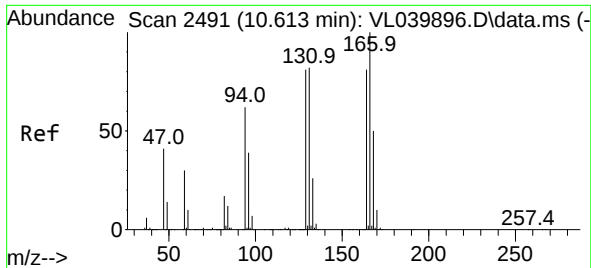
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#44
2,2,4-Trimethylpentane
Concen: 0.134 ppbv
RT: 7.307 min Scan# 1463
Delta R.T. 0.013 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

Tgt Ion: 57 Resp: 52251
Ion Ratio Lower Upper
57 100
41 50.1 26.2 39.2#
56 50.7 25.5 38.3#





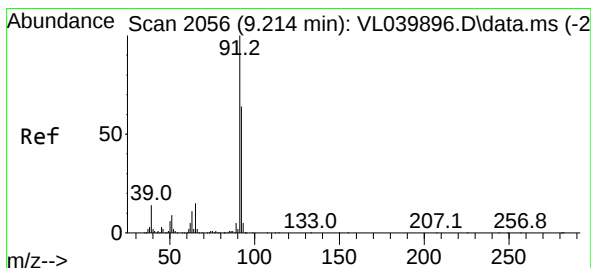
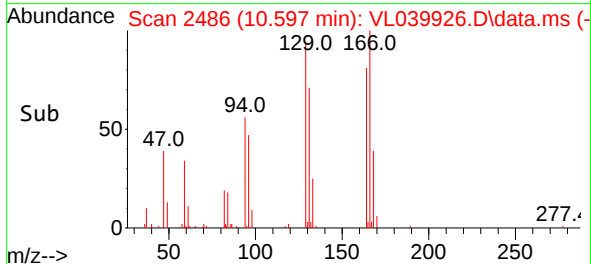
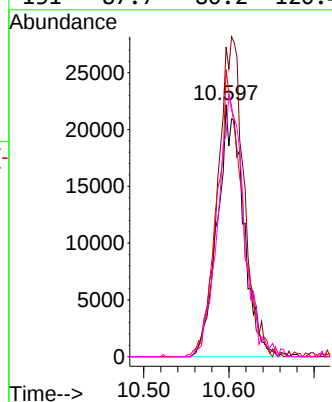
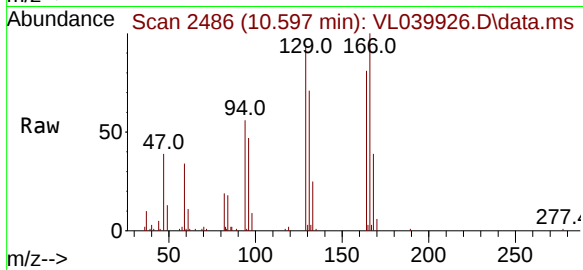
#52
Tetrachloroethene
Concen: 0.542 ppbv m
RT: 10.597 min Scan# 2491
Delta R.T. 0.010 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion:164 Resp: 4727
Ion Ratio Lower Upper
164 100
166 122.9 98.3 147.5
129 113.9 79.7 119.5
131 87.7 80.2 120.4

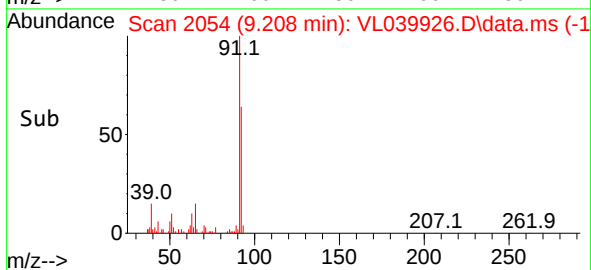
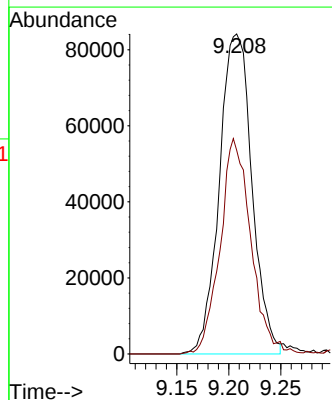
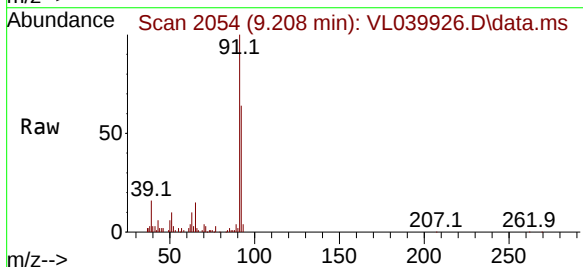
Manual Integrations
APPROVED

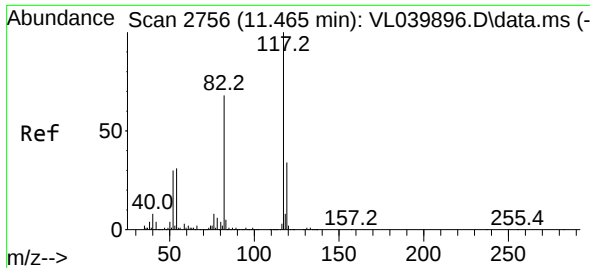
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#53
Toluene
Concen: 0.692 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. 0.016 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

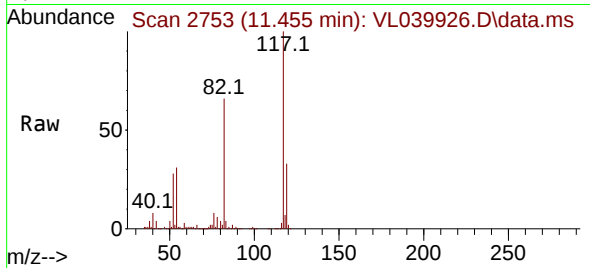
Tgt Ion: 91 Resp: 183673
Ion Ratio Lower Upper
91 100
92 64.1 49.8 74.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

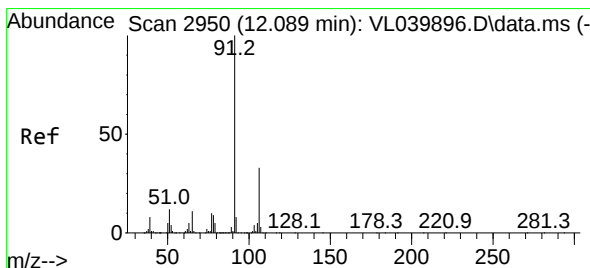
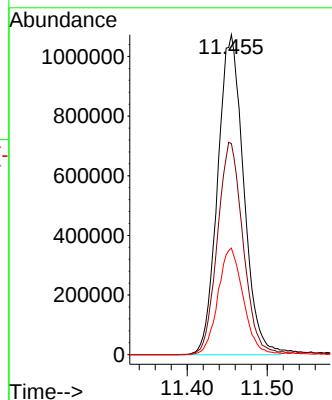
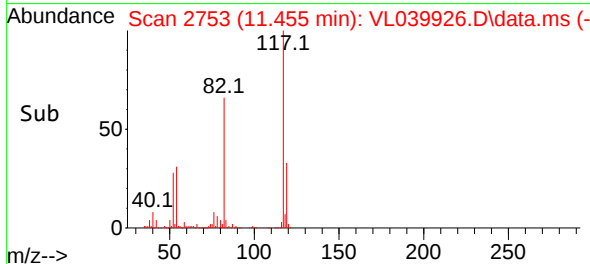
Instrument :
MSVOA_L
ClientSampleId :
IA2



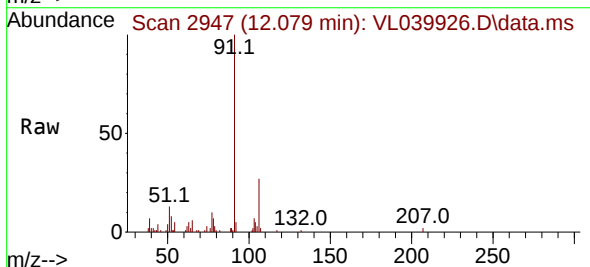
Tgt Ion:117 Resp: 241624
Ion Ratio Lower Upper
117 100
82 67.1 52.3 78.5
119 33.0 25.7 38.5

Manual Integrations
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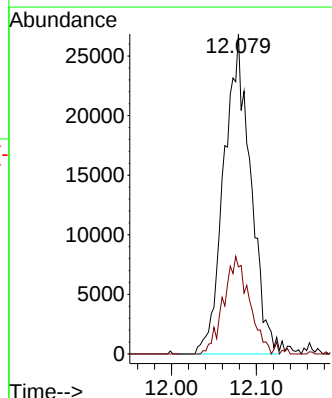
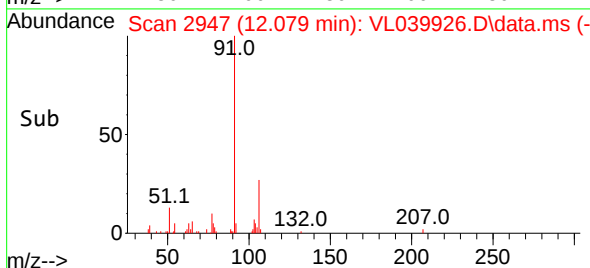
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022

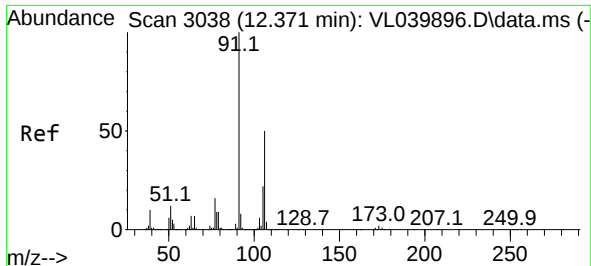


#58
Ethyl Benzene
Concen: 0.179 ppbv m
RT: 12.079 min Scan# 2947
Delta R.T. 0.016 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29



Tgt Ion: 91 Resp: 58523
Ion Ratio Lower Upper
91 100
106 27.2 26.1 39.1





#59

m/p-Xylene

Concen: 0.685 ppbv m

RT: 12.336 min Scan# 3038

Delta R.T. -0.010 min

Lab File: VL039926.D

Acq: 22 Nov 2022 21:29

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 91 Resp: 187944

Ion Ratio Lower Upper

91 100

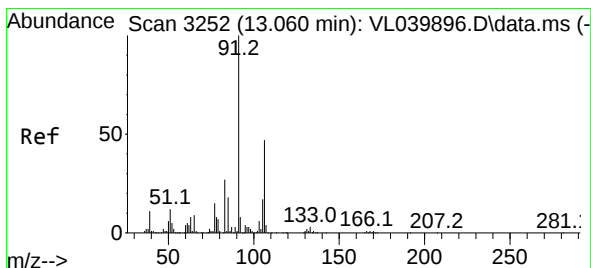
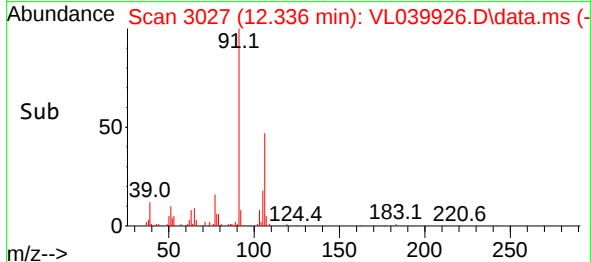
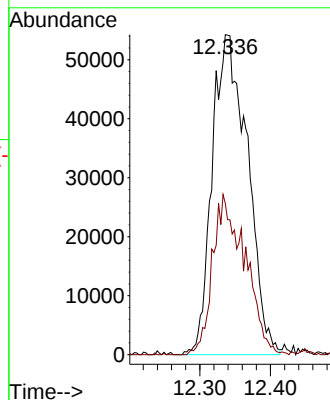
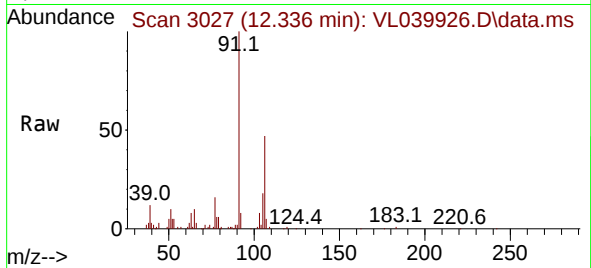
106 0.0 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/23/2022

Supervised By :Mahesh Dadoda 11/24/2022



#60

o-Xylene

Concen: 0.241 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. 0.010 min

Lab File: VL039926.D

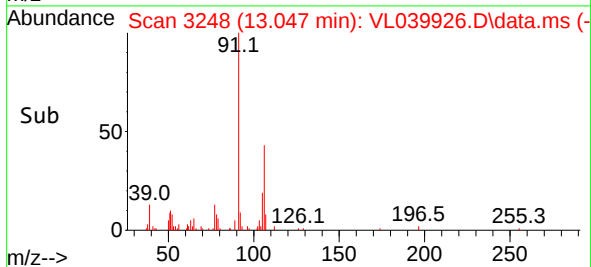
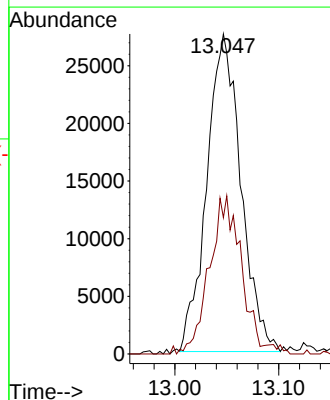
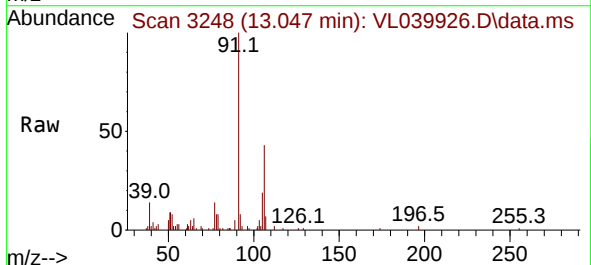
Acq: 22 Nov 2022 21:29

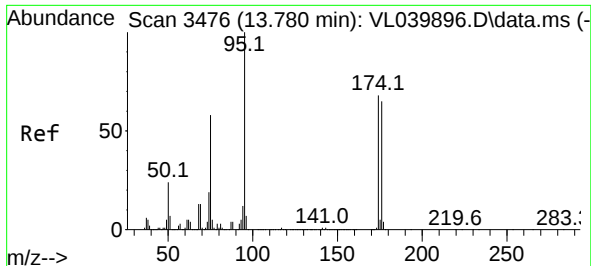
Tgt Ion: 91 Resp: 63038

Ion Ratio Lower Upper

91 100

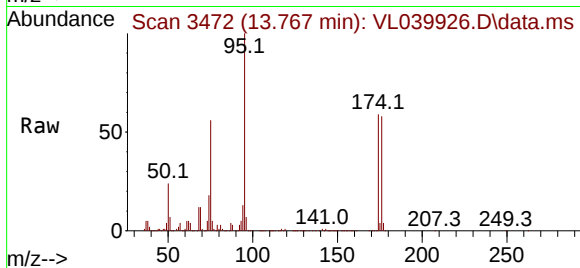
106 47.1 23.2 69.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.419 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. 0.013 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

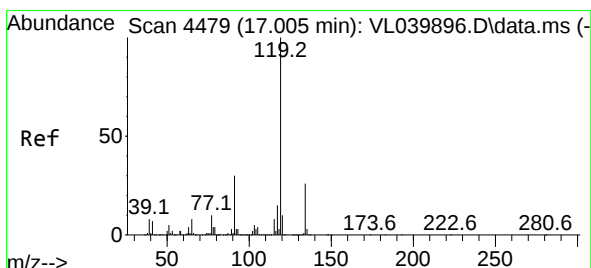
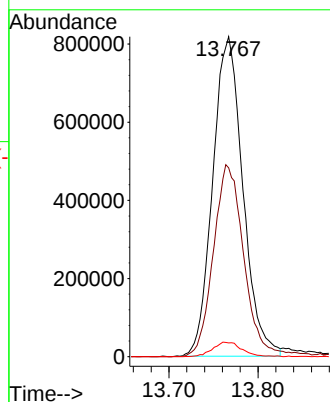
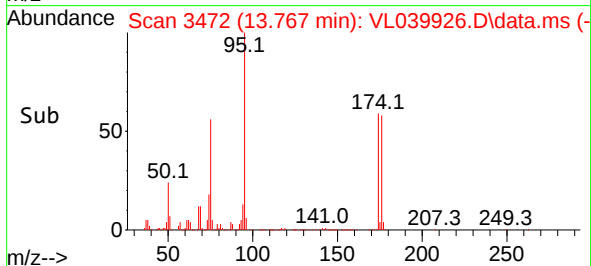
Instrument :
MSVOA_L
ClientSampleId :
IA2



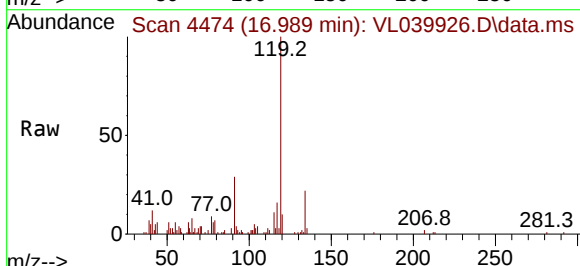
Tgt Ion: 95 Resp: 192284
Ion Ratio Lower Upper
95 100
174 60.9 53.7 80.5
175 4.5 4.0 6.0

Manual Integrations
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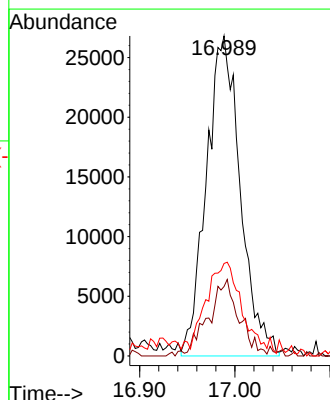
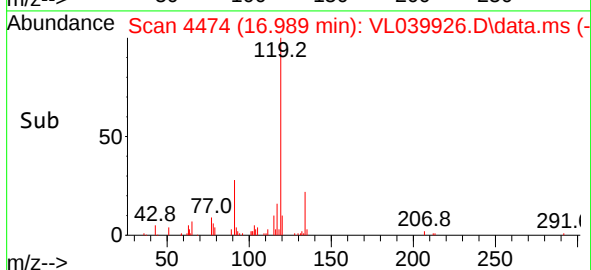
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022

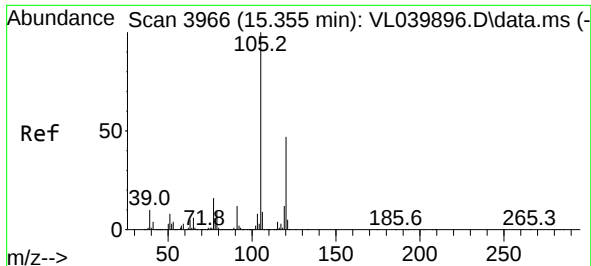


#69
p-Isopropyltoluene
Concen: 0.178 ppbv m
RT: 16.989 min Scan# 4474
Delta R.T. 0.010 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29



Tgt Ion:119 Resp: 66359
Ion Ratio Lower Upper
119 100
134 22.6 21.0 31.4
91 38.9 24.4 36.6#





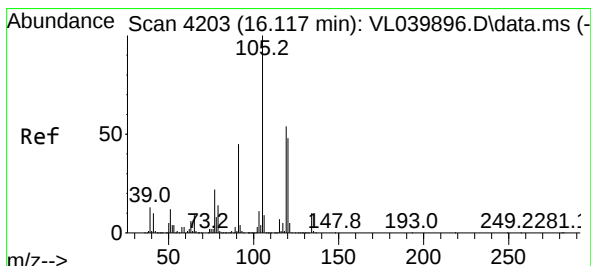
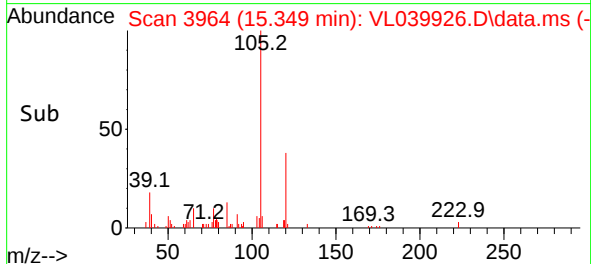
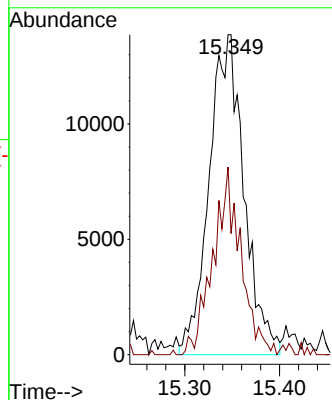
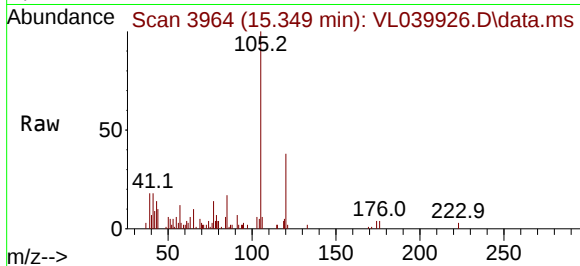
#73
1,3,5-Trimethylbenzene
Concen: 0.132 ppbv m
RT: 15.349 min Scan# 3964
Delta R.T. 0.016 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion:105 Resp: 35454
Ion Ratio Lower Upper
105 100
120 37.8 37.9 56.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.332 ppbv
RT: 16.104 min Scan# 4199
Delta R.T. 0.013 min
Lab File: VL039926.D
Acq: 22 Nov 2022 21:29

Tgt Ion:105 Resp: 94601
Ion Ratio Lower Upper
105 100
120 39.5 38.7 58.1
91 11.2 36.4 54.6#
77 12.7 17.4 26.0#

