

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041278.D
 Acq On : 21 May 2024 23:39
 Operator : SY/MD
 Sample : P2533-03RE
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1RE

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024
 Supervised By :Mahesh Dadoda 05/22/2024

Quant Time: May 22 05:49:44 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

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

QLast Update : Wed May 22 05:39:49 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.201	49	767994	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2041567	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2059988	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1613130	10.373	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.755	85	29197	0.281	ppbv	95
3) Chlorodifluoromethane	2.700	51	384012	3.292	ppbv	99
4) Chloromethane	2.838	50	30972	0.677	ppbv	96
9) Propene	2.729	41	60962m	1.335	ppbv	
10) Heptane	7.578	43	13035	0.118	ppbv	87
11) Trichlorofluoromethane	3.581	101	25620	0.243	ppbv	95
12) 1,1,2-Trichlorotrifluo...	4.079	101	5128m	0.066	ppbv	
13) Ethanol	3.266	45	6609410	645.911	ppbv	98
15) Acetone	3.484	43	1493357	16.476	ppbv	97
19) Isopropyl Alcohol	3.603	45	5390719	90.638	ppbv #	43
20) Methylene Chloride	3.947	84	112911	3.582	ppbv	96
25) Ethyl Acetate	5.211	43	595578	3.292	ppbv #	96
26) Hexane	5.221	57	140510	1.740	ppbv #	23
29) Chloroform	5.285	83	24766m	0.222	ppbv	
34) 2-Butanone	4.803	43	54810	0.527	ppbv	93
35) Carbon Tetrachloride	6.510	117	8354m	0.073	ppbv	
36) Benzene	6.375	78	40728	0.238	ppbv	95
38) Trichloroethene	7.288	130	2202m	0.034	ppbv	
44) 2,2,4-Trimethylpentane	7.327	57	51663m	0.175	ppbv	
52) Tetrachloroethene	10.616	164	150959	2.507	ppbv	94
53) Toluene	9.224	91	139117	0.700	ppbv	96
58) Ethyl Benzene	12.089	91	26656m	0.094	ppbv	
59) m/p-Xylene	12.346	91	78325m	0.330	ppbv	
60) o-Xylene	13.060	91	29570m	0.133	ppbv	
61) Styrene	12.899	104	36518	0.311	ppbv	99
69) p-Isopropyltoluene	16.992	119	64769m	0.187	ppbv	
74) 1,2,4-Trimethylbenzene	16.101	105	33284m	0.134	ppbv	
76) 1,4-Dichlorobenzene	16.474	146	31778	0.231	ppbv	94

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

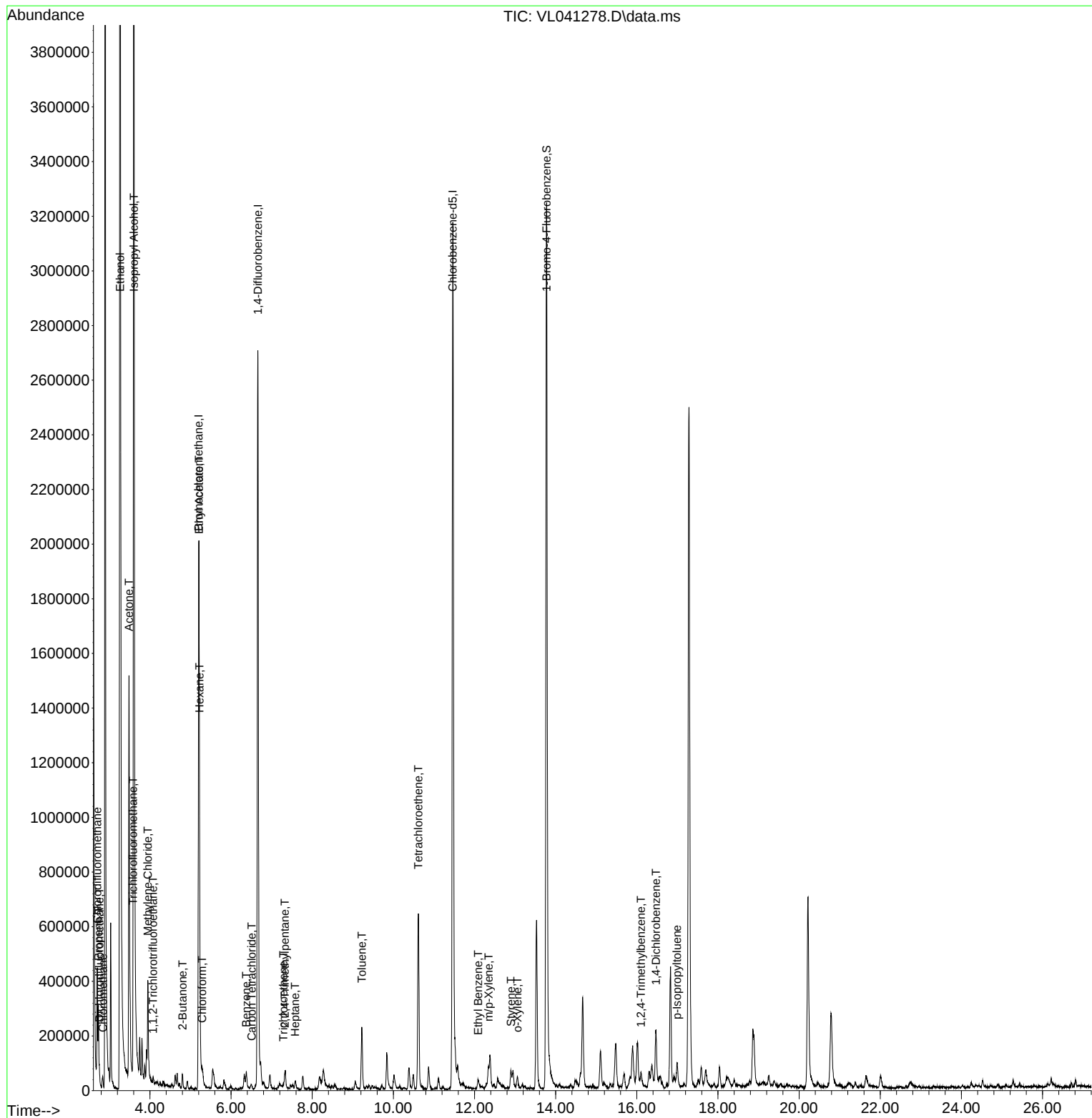
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
Data File : VL041278.D
Acq On : 21 May 2024 23:39
Operator : SY/MD
Sample : P2533-03RE
Misc : 400mL/MSVOA_L
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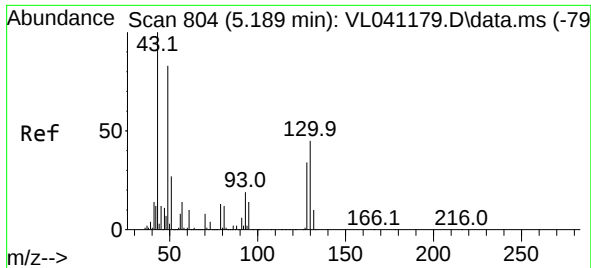
Instrument :
MSVOA_L
ClientSampleId :
IA1RE

Quant Time: May 22 05:49:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed May 22 05:39:49 2024
Response via : Initial Calibration

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 05/22/2024
Supervised By : Mahesh Dadoda 05/22/2024





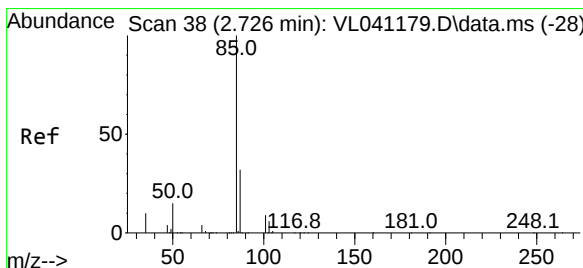
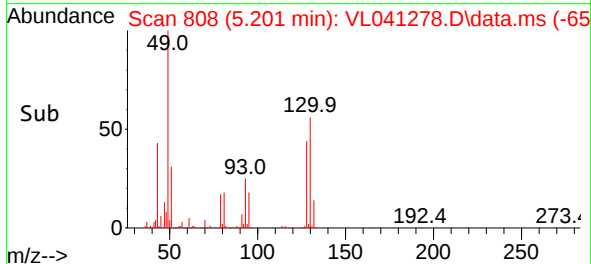
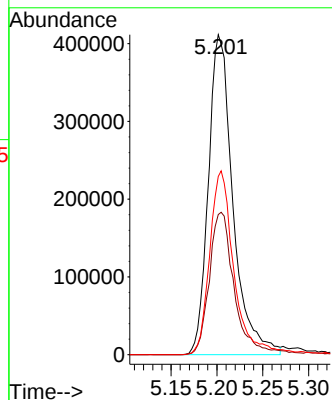
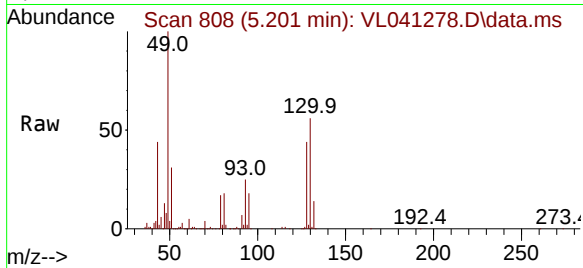
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

Instrument :
MSVOA_L
ClientSampleId :
IA1RE

Tgt Ion: 49 Resp: 767994
Ion Ratio Lower Upper
49 100
128 46.0 21.5 64.5
130 58.0 27.2 81.6

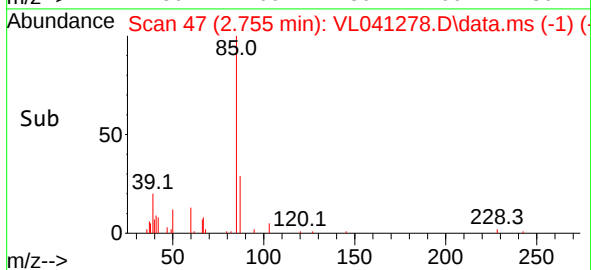
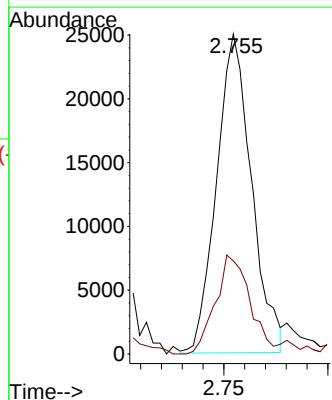
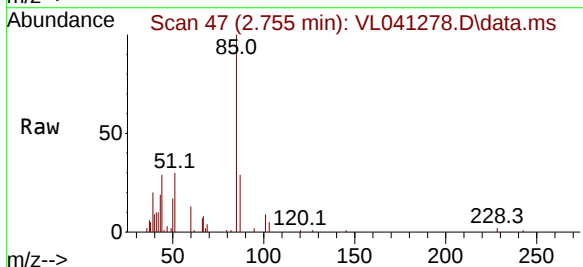
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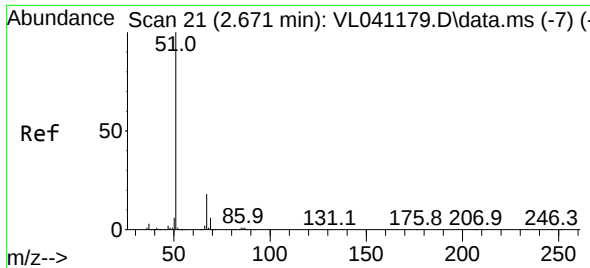
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#2
Dichlorodifluoromethane
Concen: 0.281 ppbv
RT: 2.755 min Scan# 47
Delta R.T. 0.006 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

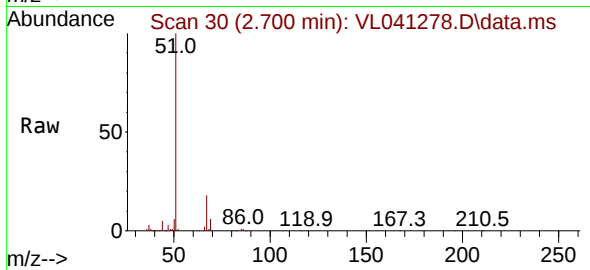
Tgt Ion: 85 Resp: 29197
Ion Ratio Lower Upper
85 100
87 29.3 25.7 38.5





#3
Chlorodifluoromethane
Concen: 3.292 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.006 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

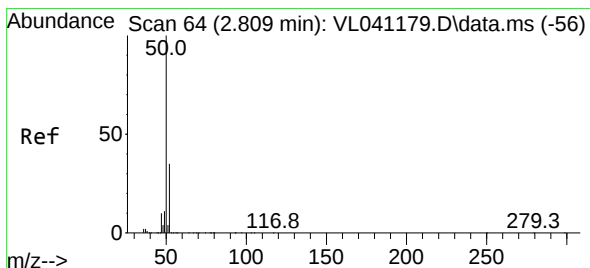
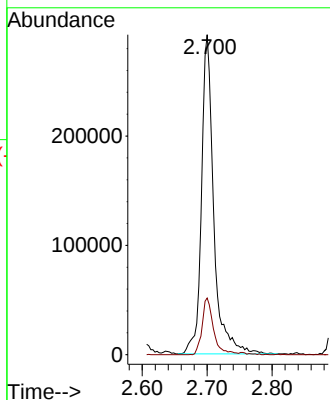
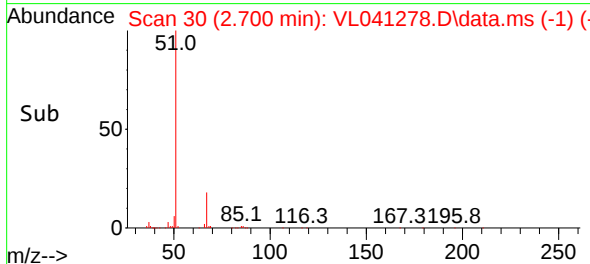
Instrument :
MSVOA_L
ClientSampleId :
IA1RE



Tgt Ion: 51 Resp: 384012
Ion Ratio Lower Upper
51 100
67 17.1 14.0 21.0

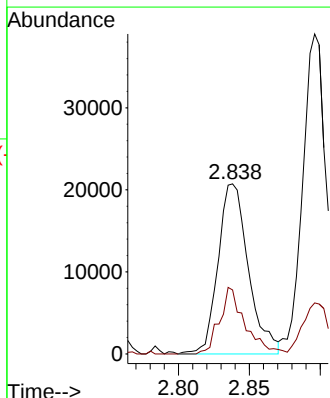
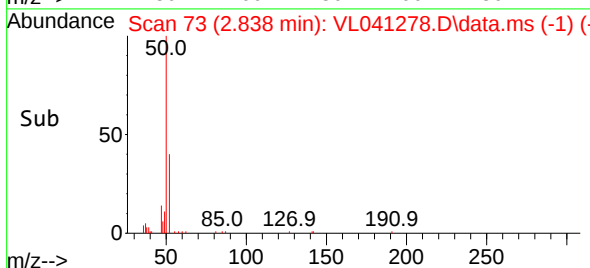
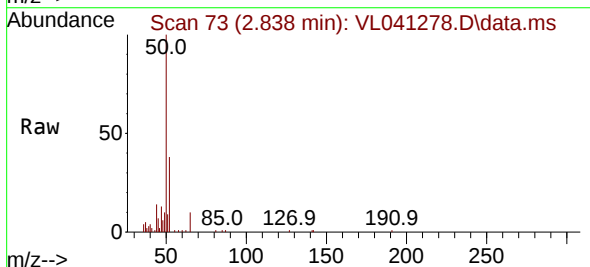
Manual Integrations
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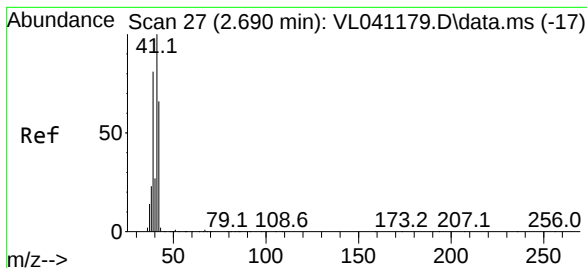
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#4
Chloromethane
Concen: 0.677 ppbv
RT: 2.838 min Scan# 73
Delta R.T. 0.006 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

Tgt Ion: 50 Resp: 30972
Ion Ratio Lower Upper
50 100
52 37.6 28.3 42.5





#9

Propene

Concen: 1.335 ppbv m

RT: 2.729 min Scan# 39

Delta R.T. 0.016 min

Lab File: VL041278.D

Acq: 21 May 2024 23:39

Instrument :

MSVOA_L

ClientSampleId :

IA1RE

Tgt Ion: 41 Resp: 6096

Ion Ratio Lower Upper

41 100

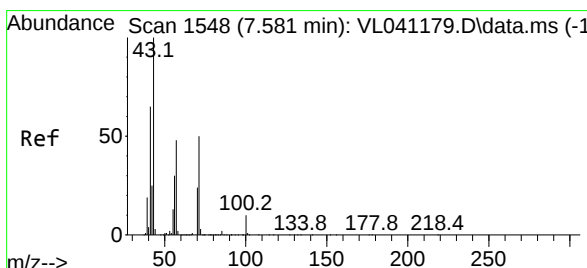
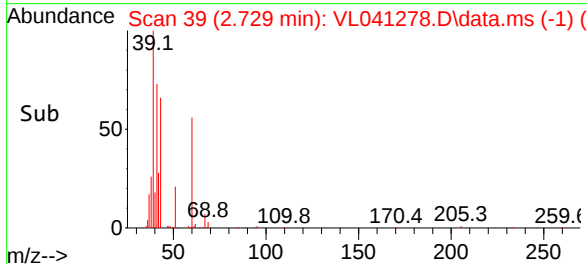
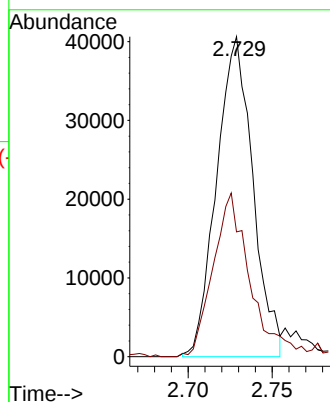
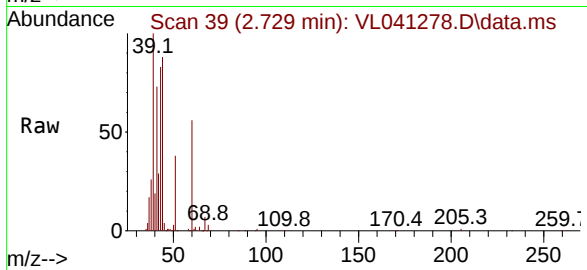
42 2122.5 55.3 82.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/22/2024

Supervised By :Mahesh Dadoda 05/22/2024



#10

Heptane

Concen: 0.118 ppbv

RT: 7.578 min Scan# 1547

Delta R.T. -0.006 min

Lab File: VL041278.D

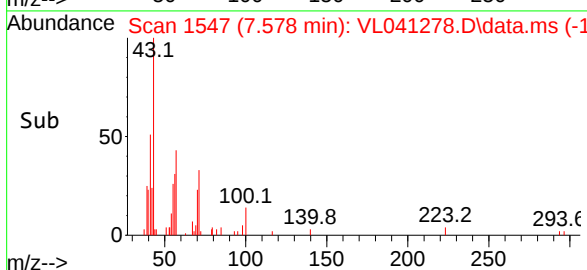
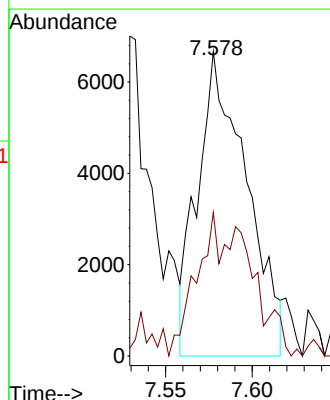
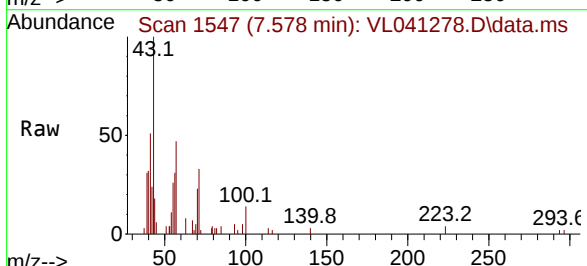
Acq: 21 May 2024 23:39

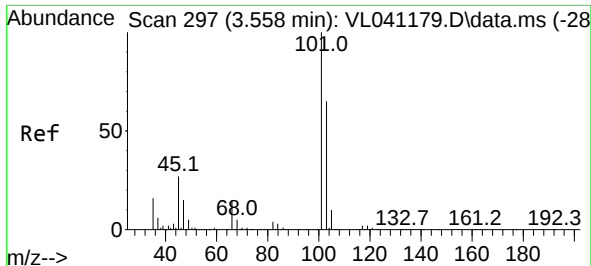
Tgt Ion: 43 Resp: 13035

Ion Ratio Lower Upper

43 100

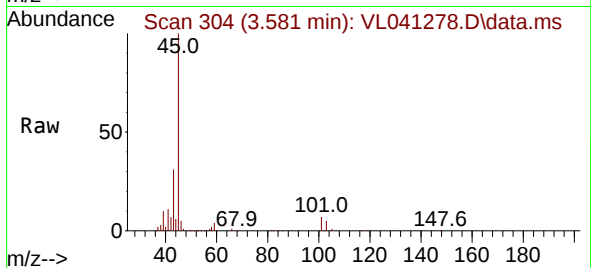
57 57.1 38.7 58.1





#11
 Trichlorofluoromethane
 Concen: 0.243 ppbv
 RT: 3.581 min Scan# 304
 Delta R.T. 0.006 min
 Lab File: VL041278.D
 Acq: 21 May 2024 23:39

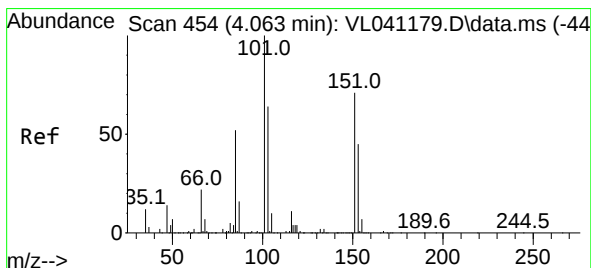
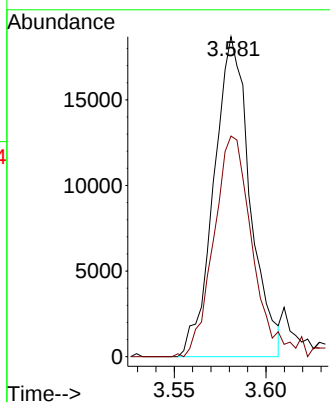
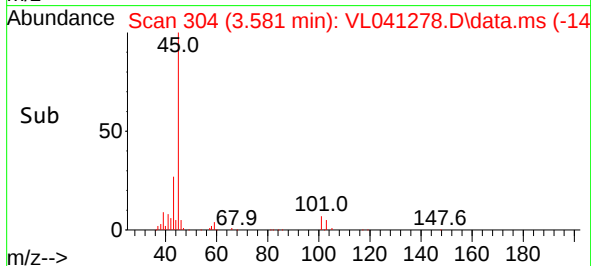
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1RE



Tgt Ion:101 Resp: 25620
 Ion Ratio Lower Upper
 101 100
 103 68.0 51.6 77.4

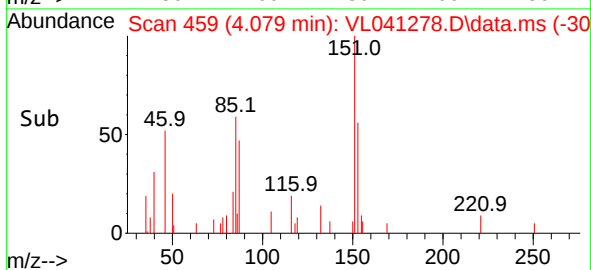
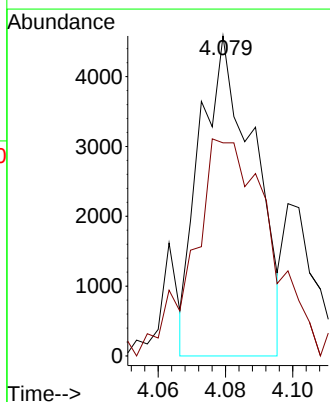
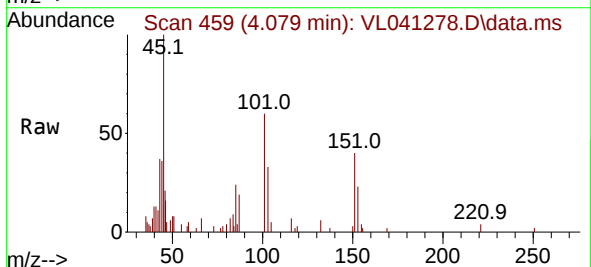
Manual Integrations
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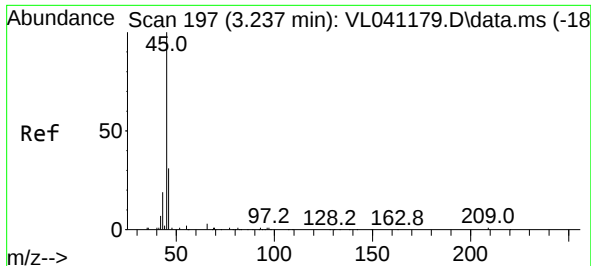
Reviewed By :Semsettin Yesilyurt 05/22/2024
 Supervised By :Mahesh Dadoda 05/22/2024



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.066 ppbv m
 RT: 4.079 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL041278.D
 Acq: 21 May 2024 23:39

Tgt Ion:101 Resp: 5128
 Ion Ratio Lower Upper
 101 100
 151 101.2 56.8 85.2#





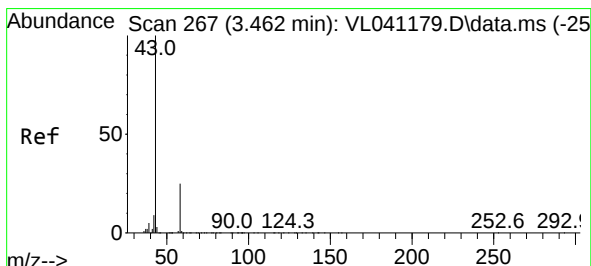
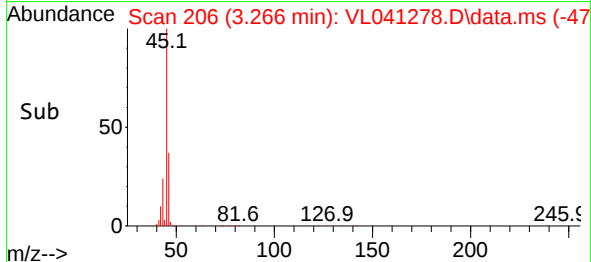
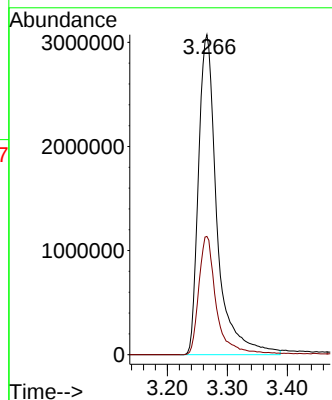
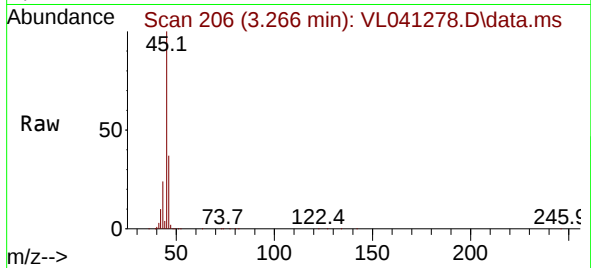
#13
Ethanol
Concen: 645.911 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.013 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

Instrument :
MSVOA_L
ClientSampleId :
IA1RE

Tgt Ion: 45 Resp: 6609410
Ion Ratio Lower Upper
45 100
46 35.8 14.8 59.0

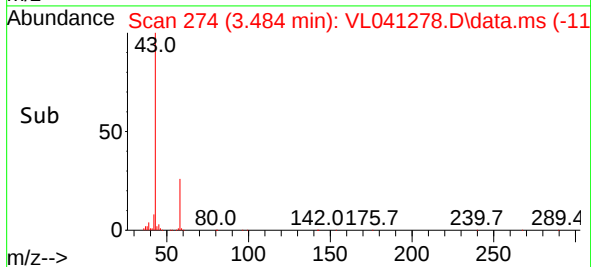
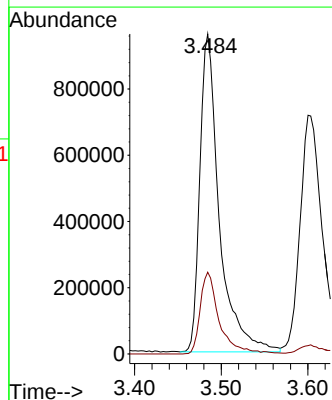
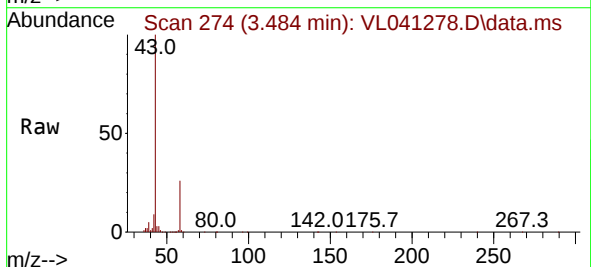
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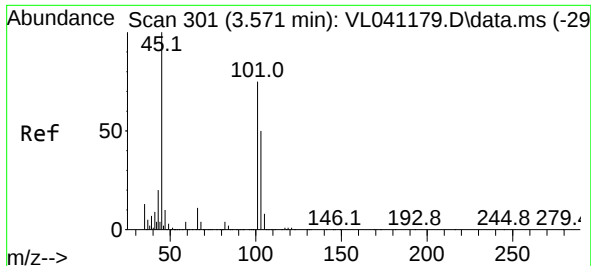
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#15
Acetone
Concen: 16.476 ppbv
RT: 3.484 min Scan# 274
Delta R.T. 0.003 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

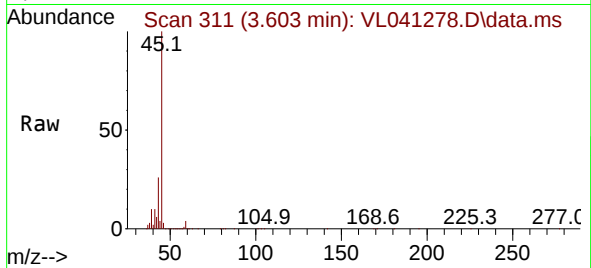
Tgt Ion: 43 Resp: 1493357
Ion Ratio Lower Upper
43 100
58 25.3 21.4 32.0





#19
Isopropyl Alcohol
Concen: 90.638 ppbv
RT: 3.603 min Scan# 311
Delta R.T. 0.016 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

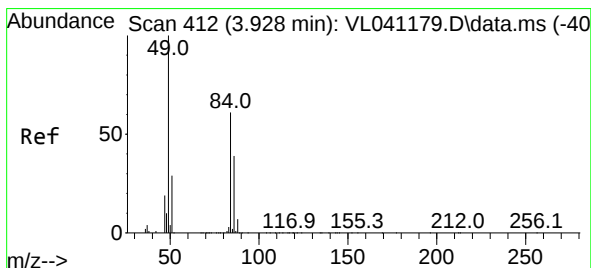
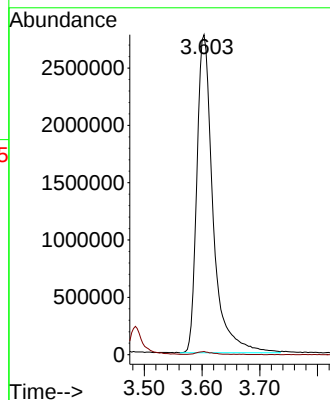
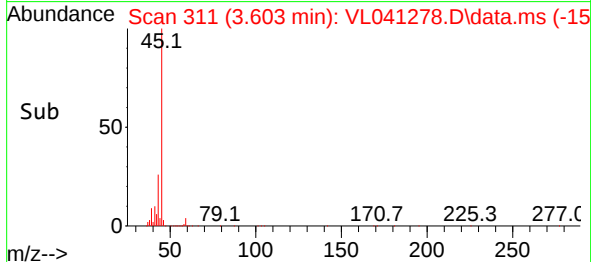
Instrument :
MSVOA_L
ClientSampleId :
IA1RE



Tgt Ion: 45 Resp: 5390719
Ion Ratio Lower Upper
45 100
58 1.2 26.8 40.2

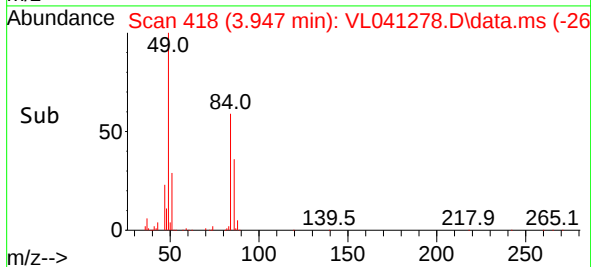
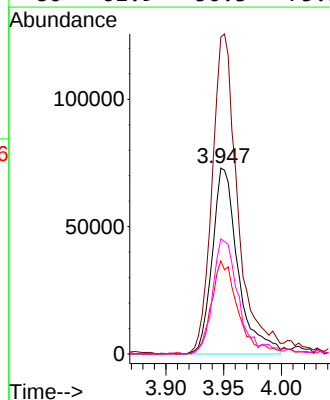
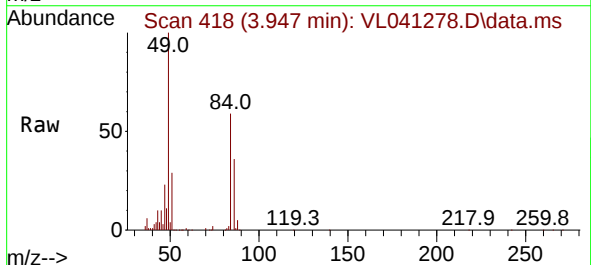
Manual Integrations
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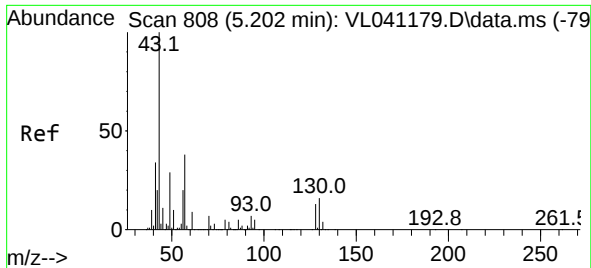
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#20
Methylene Chloride
Concen: 3.582 ppbv
RT: 3.947 min Scan# 418
Delta R.T. 0.003 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

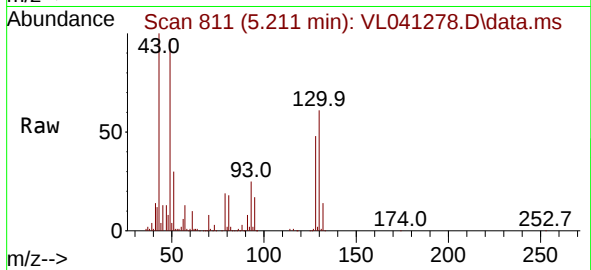
Tgt Ion: 84 Resp: 112911
Ion Ratio Lower Upper
84 100
49 170.5 130.4 195.6
51 49.4 38.0 57.0
86 61.9 50.3 75.5





#25
Ethyl Acetate
Concen: 3.292 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.000 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

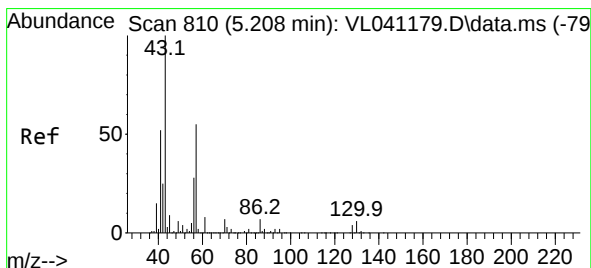
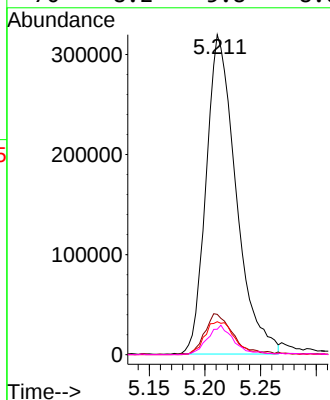
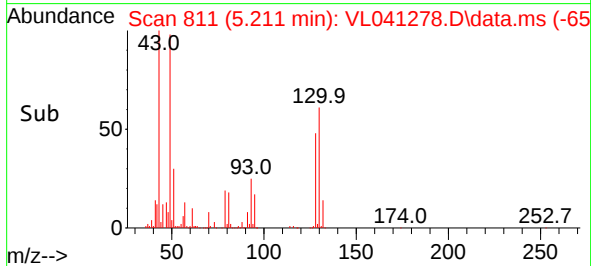
Instrument :
MSVOA_L
ClientSampleId :
IA1RE



Tgt Ion: 43 Resp: 595578
Ion Ratio Lower Upper
43 100
45 12.3 8.2 12.2
61 10.8 7.7 11.5
70 8.2 5.8 8.6

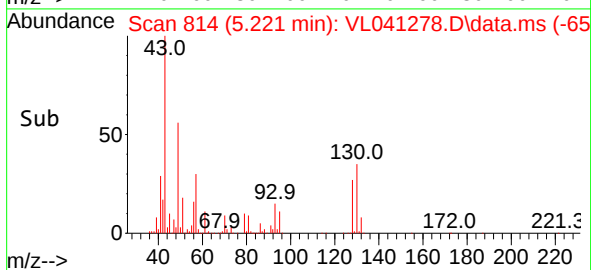
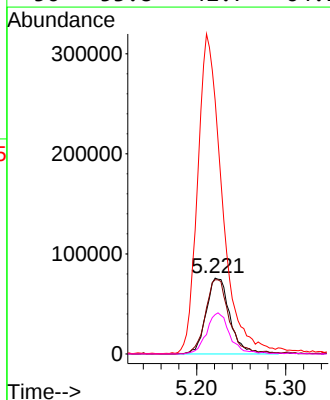
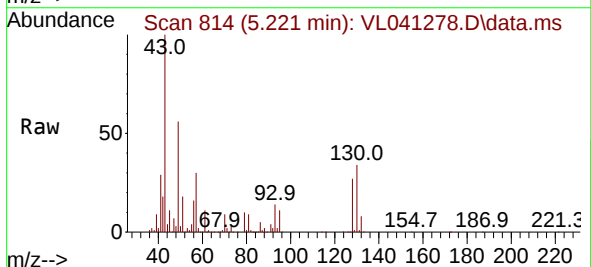
Manual Integrations
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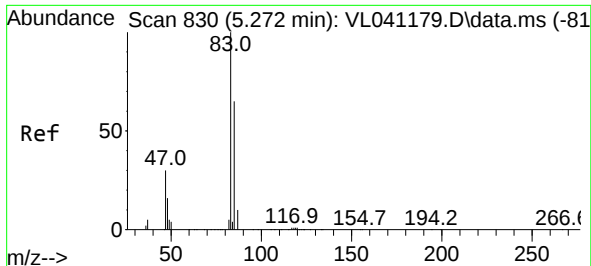
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#26
Hexane
Concen: 1.740 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.000 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

Tgt Ion: 57 Resp: 140510
Ion Ratio Lower Upper
57 100
41 100.7 75.8 113.8
43 440.1 187.0 280.4
56 53.8 42.7 64.1





#29

Chloroform

Concen: 0.222 ppbv m

RT: 5.285 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL041278.D

Acq: 21 May 2024 23:39

Instrument :

MSVOA_L

ClientSampleId :

IA1RE

Tgt Ion: 83 Resp: 24760

Ion Ratio Lower Upper

83 100

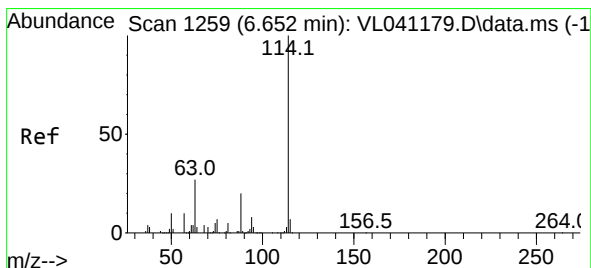
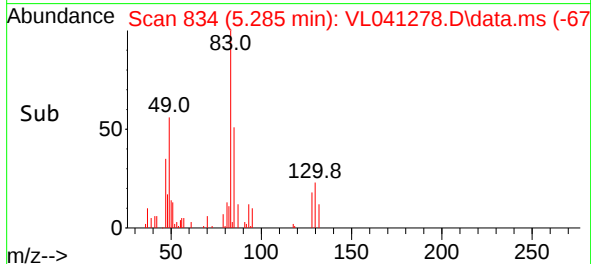
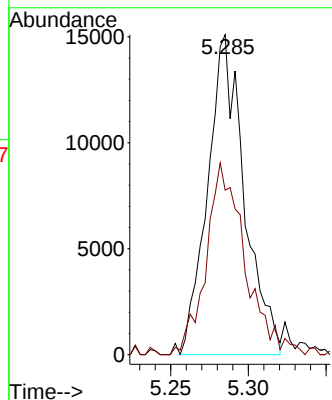
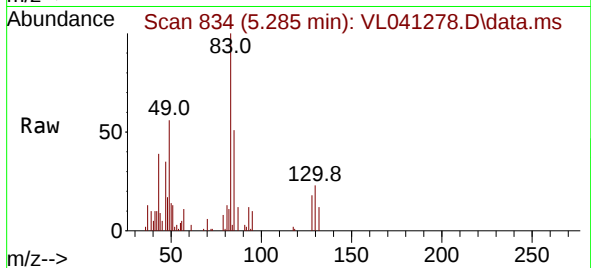
85 51.4 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024

Supervised By :Mahesh Dadoda 05/22/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 1262

Delta R.T. 0.003 min

Lab File: VL041278.D

Acq: 21 May 2024 23:39

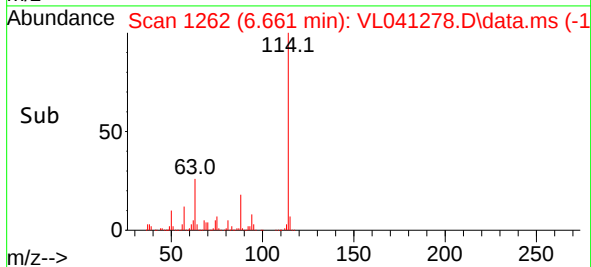
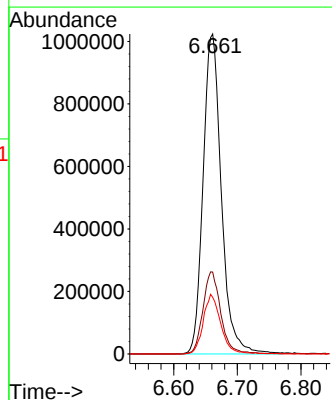
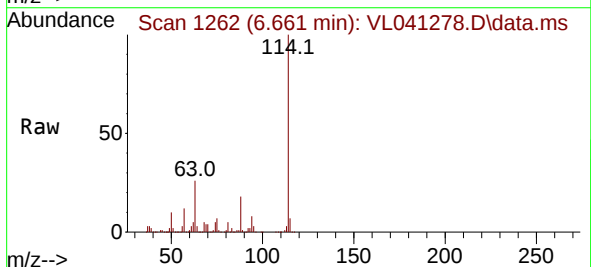
Tgt Ion:114 Resp: 2041567

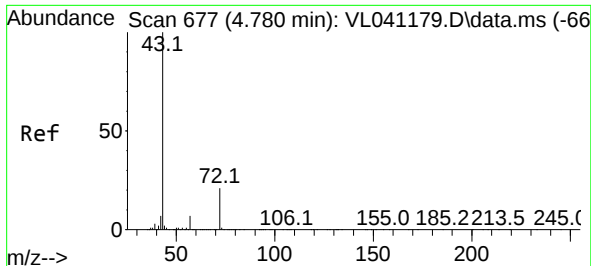
Ion Ratio Lower Upper

114 100

63 25.4 21.8 32.6

88 18.0 15.2 22.8





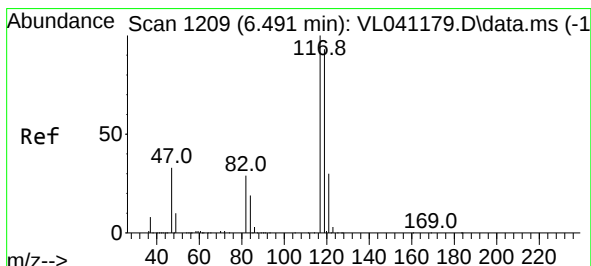
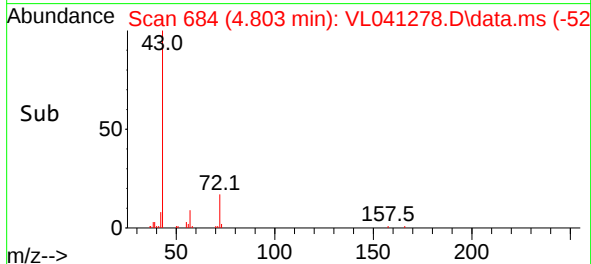
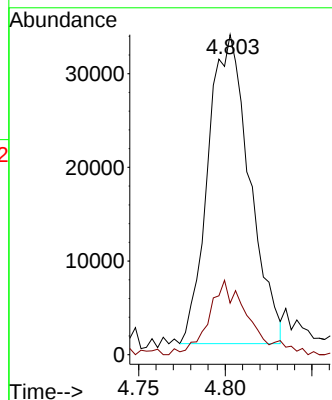
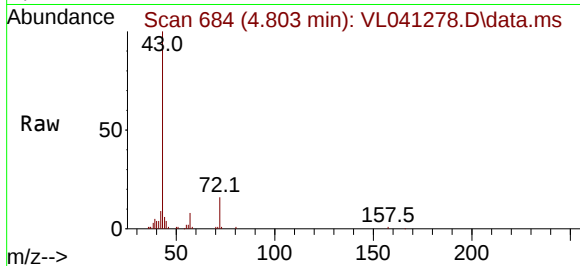
#34
2-Butanone
Concen: 0.527 ppbv
RT: 4.803 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

Instrument :
MSVOA_L
Client SampleId :
IA1RE

Tgt Ion: 43 Resp: 54810
Ion Ratio Lower Upper
43 100
72 24.9 17.3 25.9

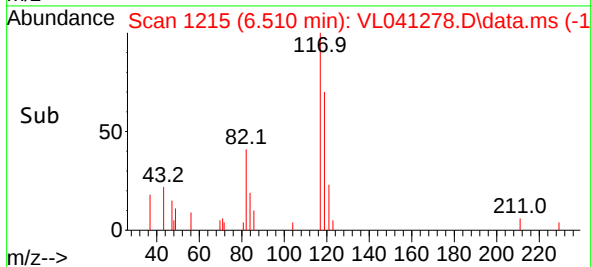
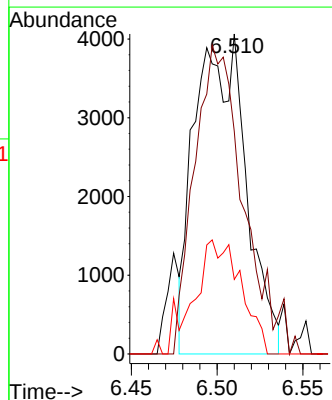
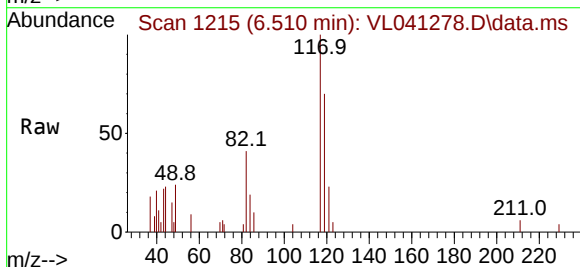
Manual Integrations
APPROVED

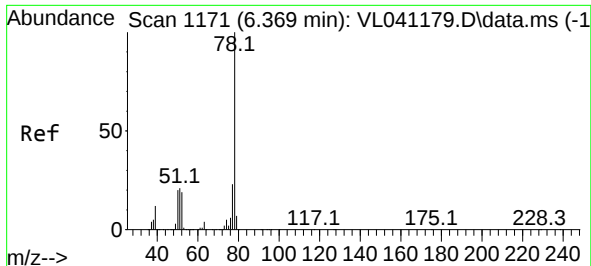
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 6.510 min Scan# 1215
Delta R.T. 0.013 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

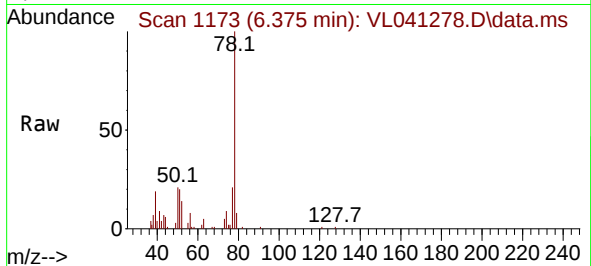
Tgt Ion:117 Resp: 8354
Ion Ratio Lower Upper
117 100
119 69.6 74.3 111.5#
121 23.3 23.8 35.8#





#36
Benzene
Concen: 0.238 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

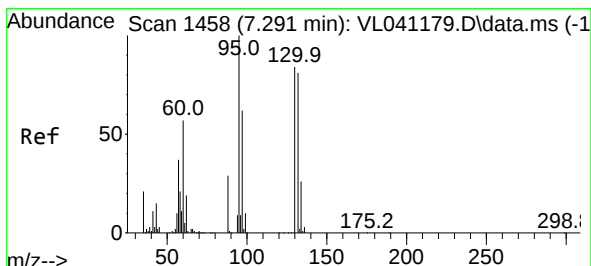
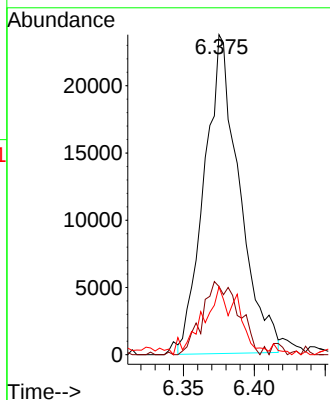
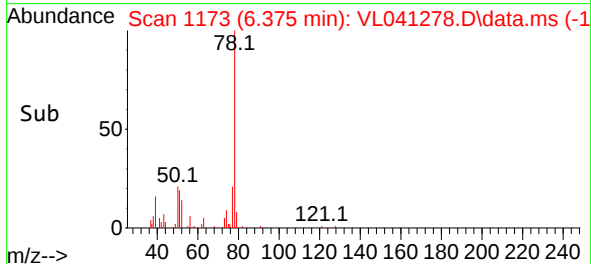
Instrument :
MSVOA_L
ClientSampleId :
IA1RE



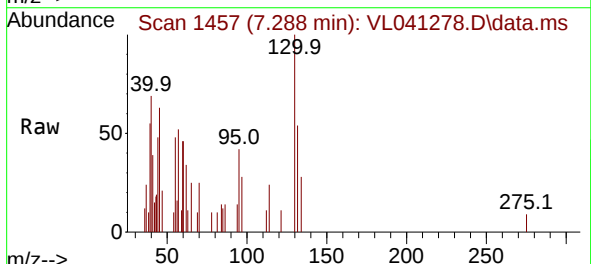
Tgt Ion: 78 Resp: 40728
Ion Ratio Lower Upper
78 100
77 18.8 18.3 27.5
50 20.5 15.9 23.9

Manual Integrations
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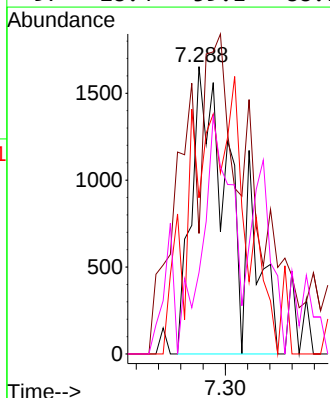
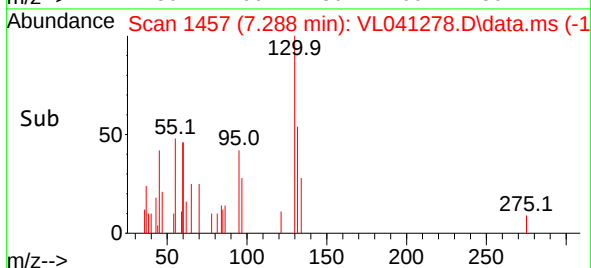
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

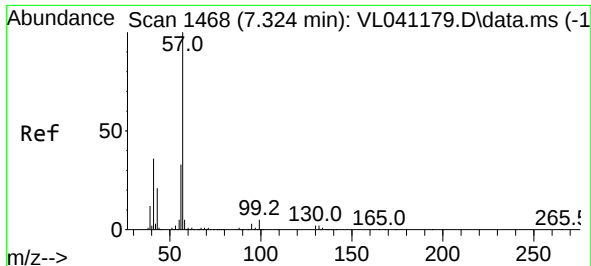


#38
Trichloroethene
Concen: 0.034 ppbv m
RT: 7.288 min Scan# 1457
Delta R.T. -0.003 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39



Tgt Ion:130 Resp: 2202
Ion Ratio Lower Upper
130 100
95 41.9 95.0 142.6#
132 54.4 77.0 115.4#
97 28.4 59.1 88.7#





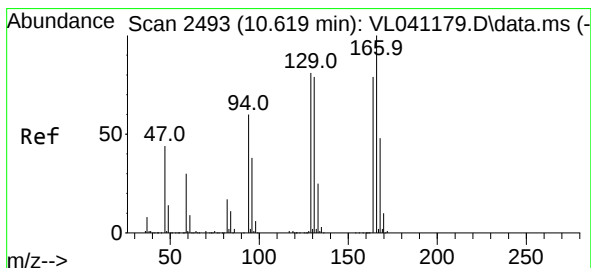
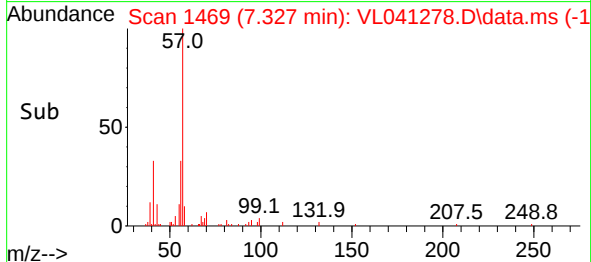
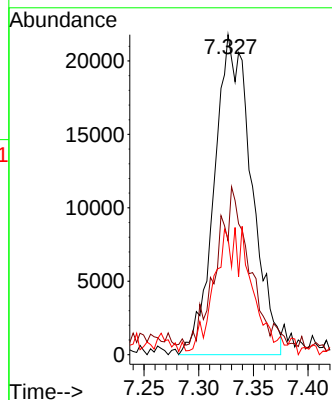
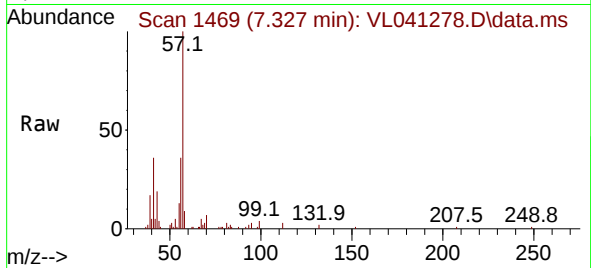
#44
2,2,4-Trimethylpentane
Concen: 0.175 ppbv m
RT: 7.327 min Scan# 1469
Delta R.T. -0.000 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

Instrument :
MSVOA_L
ClientSampleId :
IA1RE

Tgt Ion: 57 Resp: 5166
Ion Ratio Lower Upper
57 100
41 48.6 29.5 44.3
56 0.0 25.3 37.9

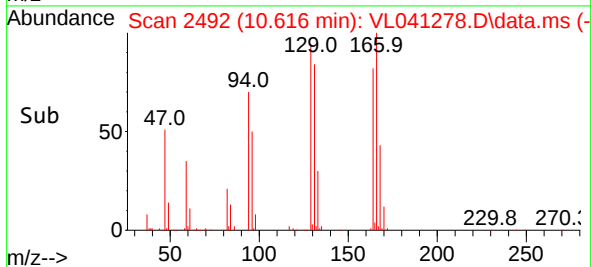
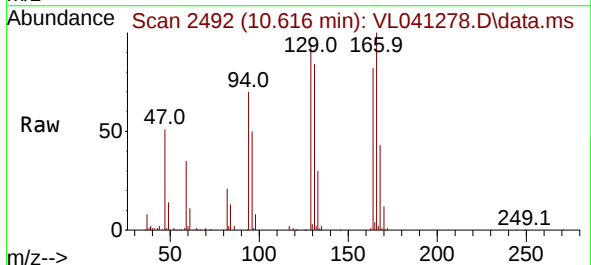
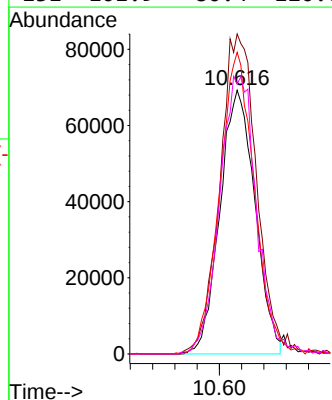
Manual Integrations
APPROVED

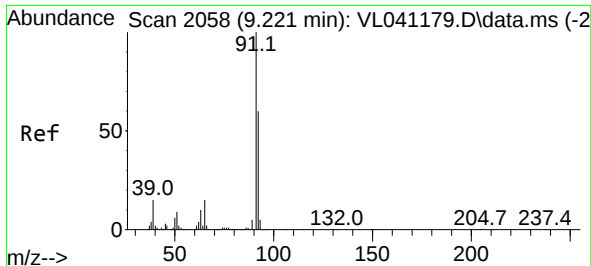
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#52
Tetrachloroethene
Concen: 2.507 ppbv
RT: 10.616 min Scan# 2492
Delta R.T. -0.000 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

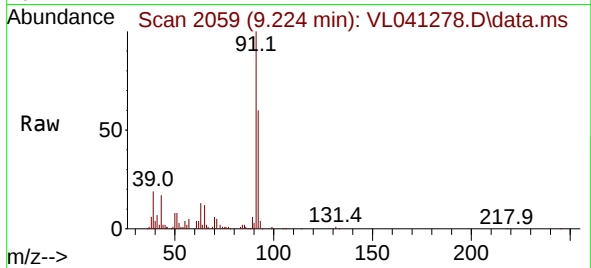
Tgt Ion:164 Resp: 150959
Ion Ratio Lower Upper
164 100
166 121.3 101.1 151.7
129 114.4 81.7 122.5
131 101.9 80.4 120.6





#53
Toluene
Concen: 0.700 ppbv
RT: 9.224 min Scan# 2058
Delta R.T. 0.003 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

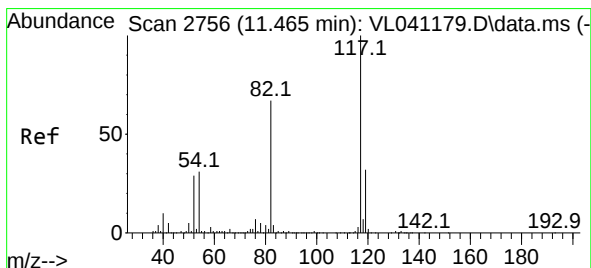
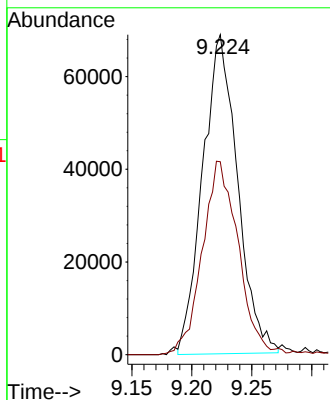
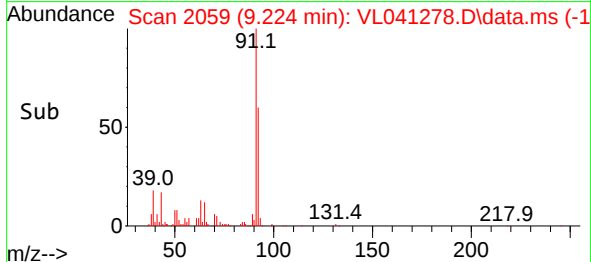
Instrument :
MSVOA_L
ClientSampleId :
IA1RE



Tgt Ion: 91 Resp: 13911
Ion Ratio Lower Upper
91 100
92 63.7 48.2 72.4

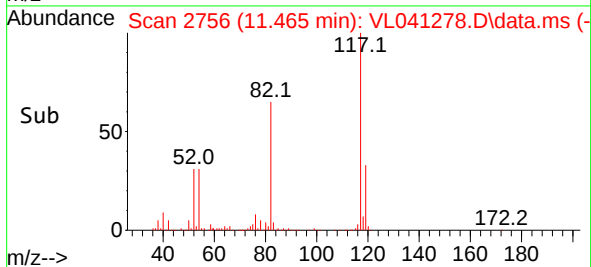
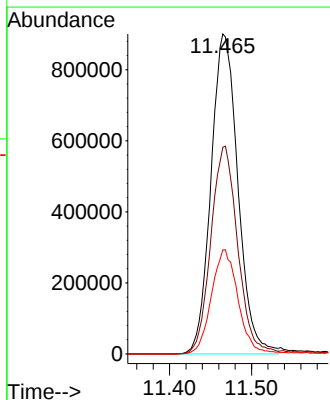
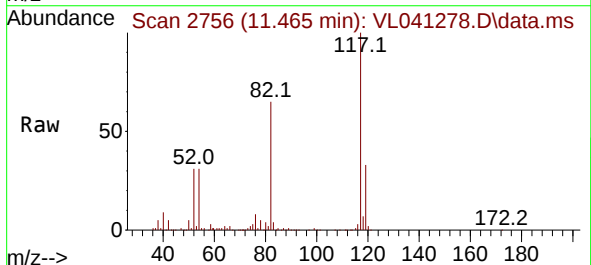
Manual Integrations
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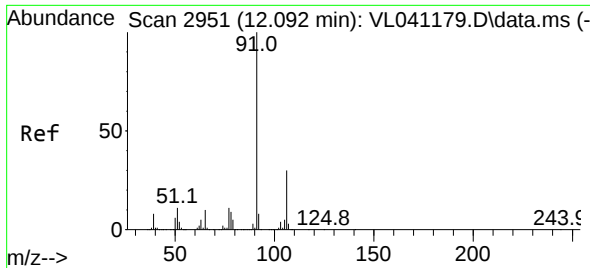
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.000 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

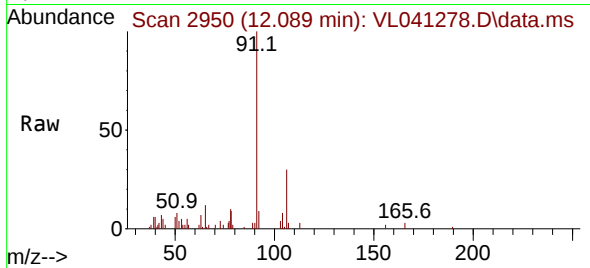
Tgt Ion:117 Resp: 2059988
Ion Ratio Lower Upper
117 100
82 66.2 53.6 80.4
119 32.8 27.2 40.8





#58
Ethyl Benzene
Concen: 0.094 ppbv m
RT: 12.089 min Scan# 2950
Delta R.T. 0.003 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

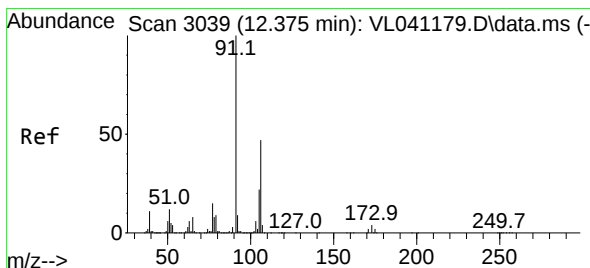
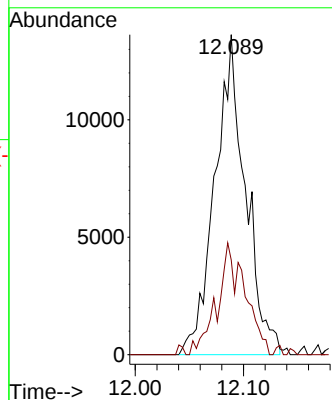
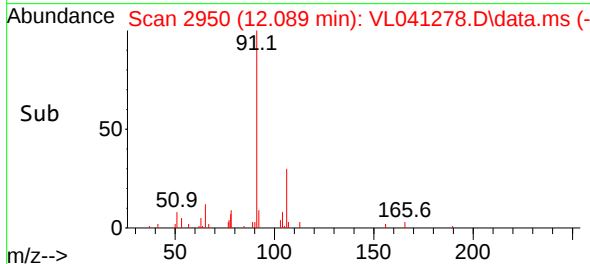
Instrument :
MSVOA_L
ClientSampleId :
IA1RE



Tgt Ion: 91 Resp: 26650
Ion Ratio Lower Upper
91 100
106 29.6 24.3 36.5

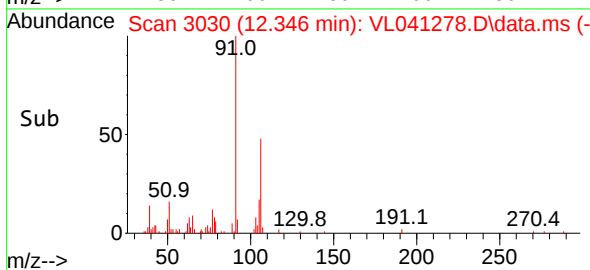
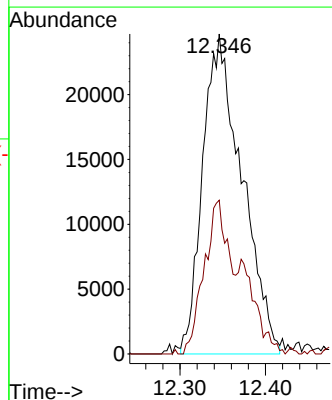
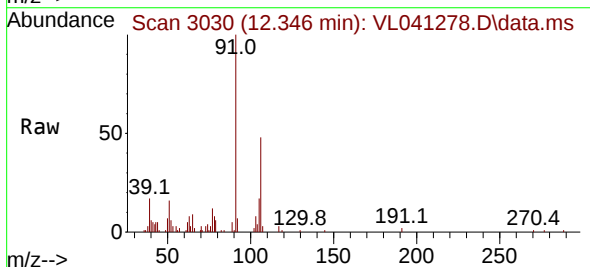
Manual Integrations
APPROVED

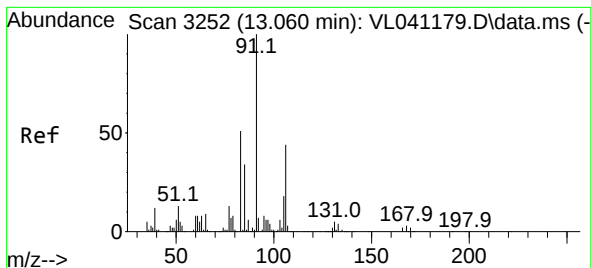
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#59
m/p-Xylene
Concen: 0.330 ppbv m
RT: 12.346 min Scan# 3030
Delta R.T. -0.019 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

Tgt Ion: 91 Resp: 78325
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#





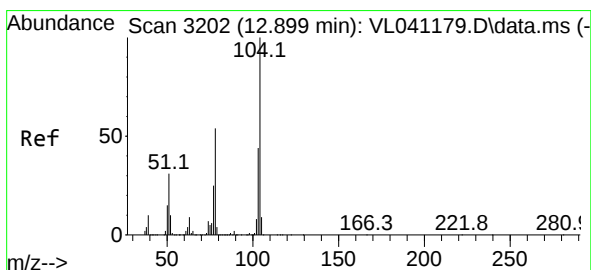
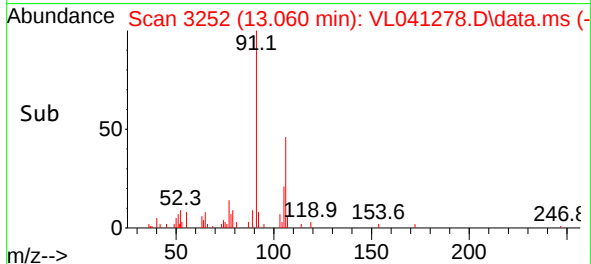
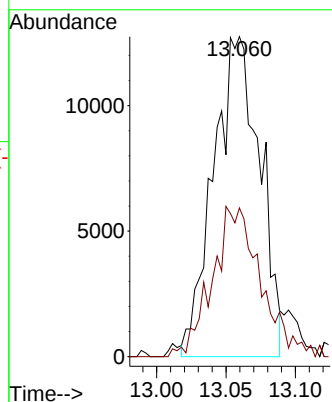
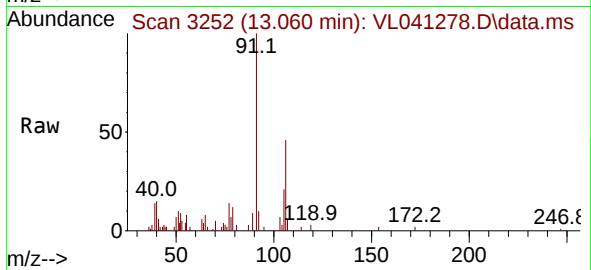
#60
o-Xylene
Concen: 0.133 ppbv m
RT: 13.060 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

Instrument :
MSVOA_L
ClientSampleId :
IA1RE

Tgt Ion: 91 Resp: 29570
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3

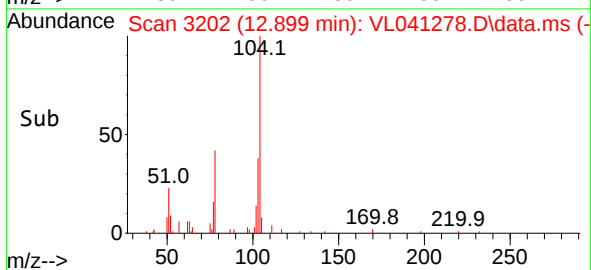
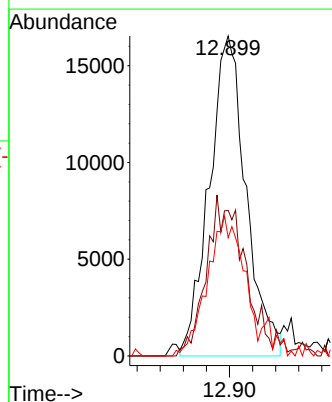
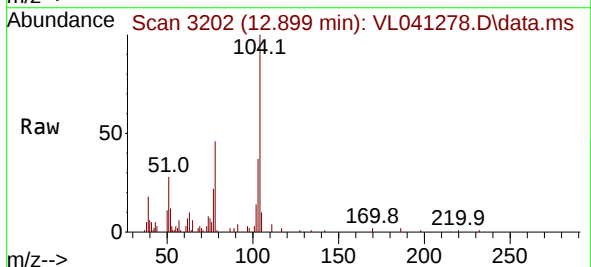
Manual Integrations
APPROVED

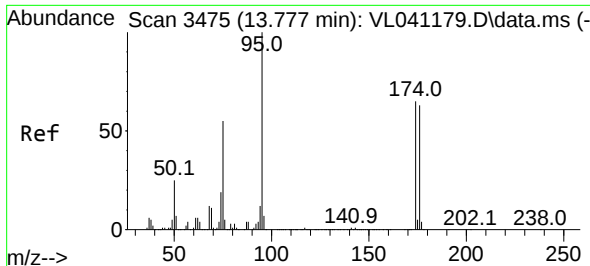
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#61
Styrene
Concen: 0.311 ppbv
RT: 12.899 min Scan# 3202
Delta R.T. 0.006 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

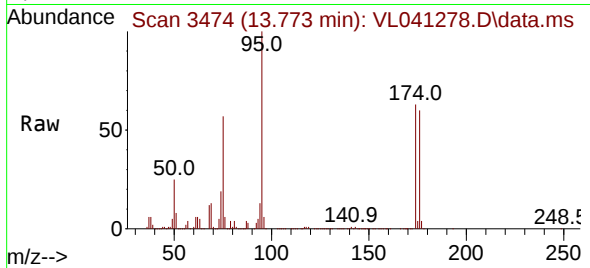
Tgt Ion:104 Resp: 36518
Ion Ratio Lower Upper
104 100
78 54.6 42.6 63.8
103 48.0 38.4 57.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.373 ppbv
RT: 13.773 min Scan# 3475
Delta R.T. -0.000 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39

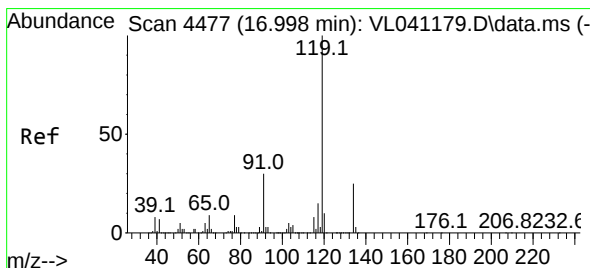
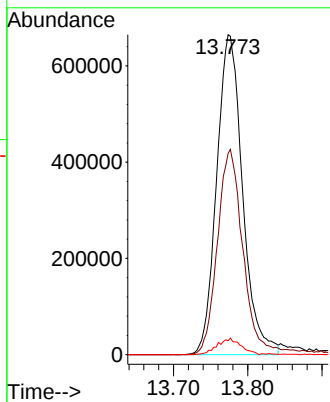
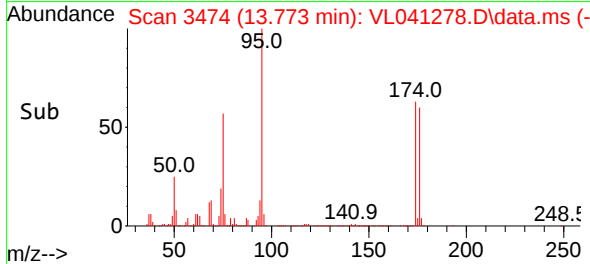
Instrument :
MSVOA_L
ClientSampleId :
IA1RE



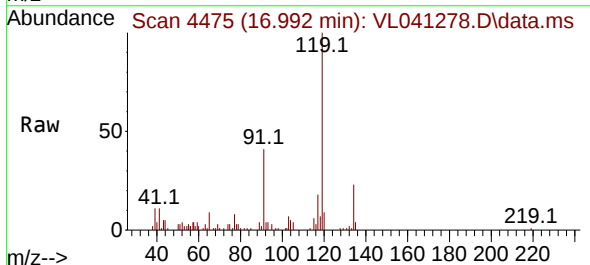
Tgt Ion: 95 Resp: 1613130
Ion Ratio Lower Upper
95 100
174 65.4 53.6 80.4
175 4.9 4.2 6.4

Manual Integrations
APPROVED

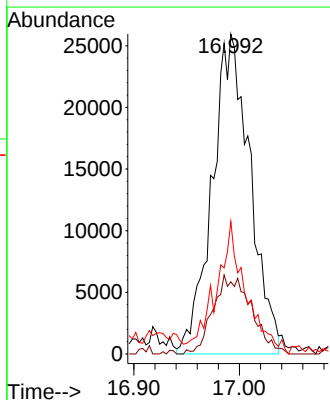
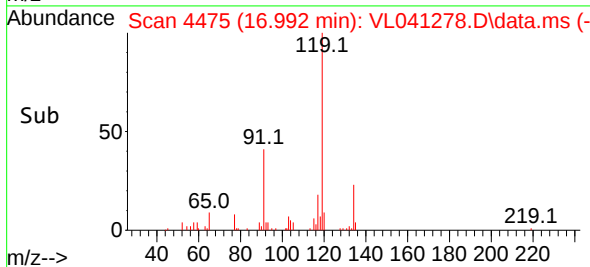
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

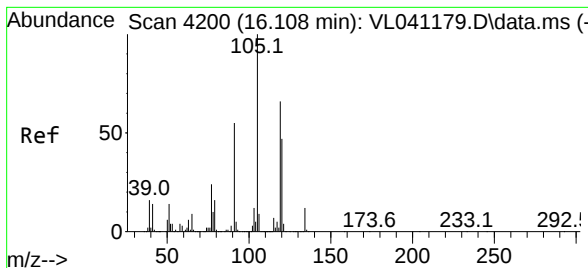


#69
p-Isopropyltoluene
Concen: 0.187 ppbv m
RT: 16.992 min Scan# 4475
Delta R.T. 0.003 min
Lab File: VL041278.D
Acq: 21 May 2024 23:39



Tgt Ion:119 Resp: 64769
Ion Ratio Lower Upper
119 100
134 0.0 20.1 30.1#
91 32.9 24.2 36.2





#74

1,2,4-Trimethylbenzene

Concen: 0.134 ppbv m

RT: 16.101 min Scan# 4198

Delta R.T. -0.003 min

Lab File: VL041278.D

Acq: 21 May 2024 23:39

Instrument :

MSVOA_L

ClientSampleId :

IA1RE

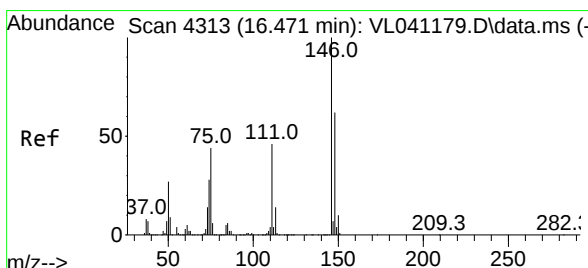
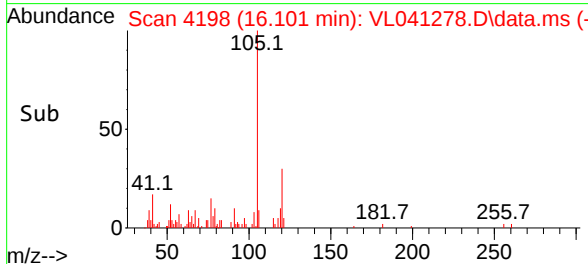
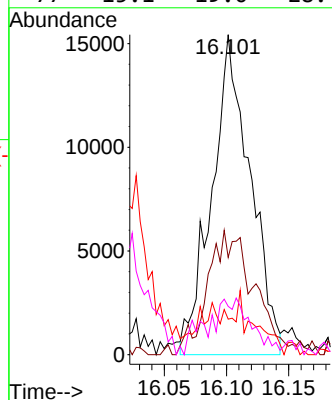
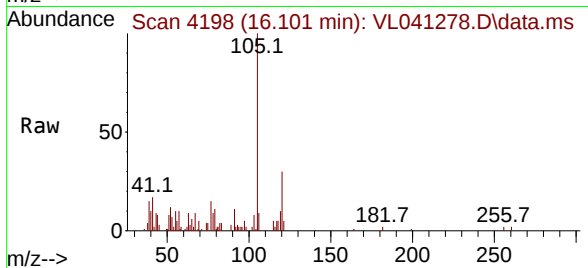
Tgt Ion:105 Resp: 33284

Ion	Ratio	Lower	Upper
105	100		
120	30.4	37.8	56.6
91	11.1	44.3	66.5
77	15.1	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#76

1,4-Dichlorobenzene

Concen: 0.231 ppbv

RT: 16.474 min Scan# 4314

Delta R.T. 0.006 min

Lab File: VL041278.D

Acq: 21 May 2024 23:39

Tgt Ion:146 Resp: 31778

Ion	Ratio	Lower	Upper
146	100		
111	51.5	23.3	69.8
148	68.9	32.6	97.7

