

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041271.D
 Acq On : 21 May 2024 18:56
 Operator : SY/MD
 Sample : P2534-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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

Quant Time: May 22 05:47:17 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	5.198	49	868062	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2181233	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2140083	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1608323	9.955	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.745	85	40657	0.346	ppbv	90
3) Chlorodifluoromethane	2.693	51	39646m	0.301	ppbv	
4) Chloromethane	2.832	50	31983	0.618	ppbv	94
9) Propene	2.719	41	52437	1.016	ppbv #	76
10) Heptane	7.590	43	11853m	0.095	ppbv	
11) Trichlorofluoromethane	3.578	101	27938	0.234	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.076	101	7151m	0.081	ppbv	
13) Ethanol	3.253	45	132737	11.476	ppbv	99
15) Acetone	3.481	43	830894	8.110	ppbv	98
19) Isopropyl Alcohol	3.597	45	113195m	1.684	ppbv	
20) Methylene Chloride	3.944	84	1352269	37.958	ppbv	97
26) Hexane	5.221	57	907231	9.942	ppbv #	41
34) 2-Butanone	4.803	43	78604	0.708	ppbv	97
35) Carbon Tetrachloride	6.494	117	8444m	0.069	ppbv	
36) Benzene	6.375	78	33286	0.182	ppbv #	78
38) Trichloroethene	7.298	130	3273m	0.048	ppbv	
44) 2,2,4-Trimethylpentane	7.330	57	50303	0.159	ppbv #	75
50) 4-Methyl-2-Pentanone	8.208	43	27913m	0.140	ppbv	
51) 2-Hexanone	9.568	43	115317m	0.780	ppbv	
52) Tetrachloroethene	10.616	164	11937	0.186	ppbv #	67
53) Toluene	9.220	91	187207	0.882	ppbv	100
58) Ethyl Benzene	12.088	91	21055m	0.072	ppbv	
59) m/p-Xylene	12.342	91	72069m	0.292	ppbv	
60) o-Xylene	13.056	91	27135m	0.117	ppbv	
74) 1,2,4-Trimethylbenzene	16.104	105	45691	0.177	ppbv #	64

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

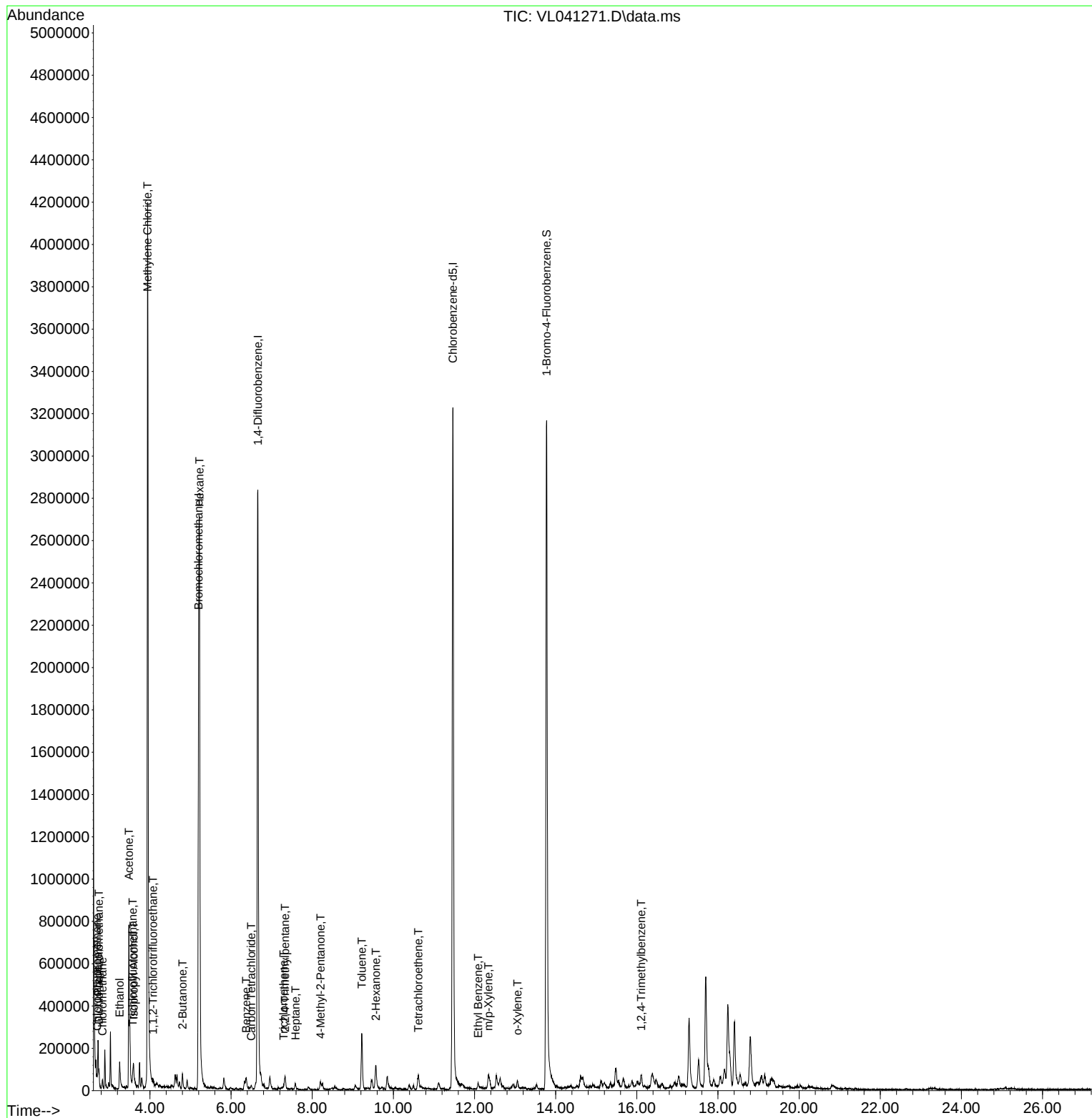
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
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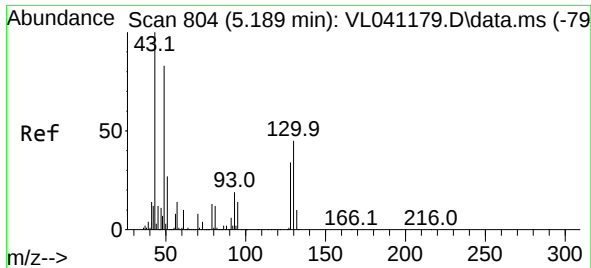
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: May 22 05:47:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed May 22 05:39:49 2024
Response via : Initial Calibration

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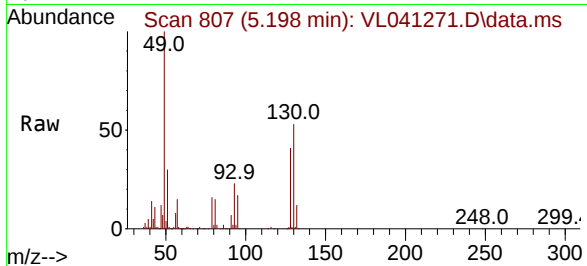
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

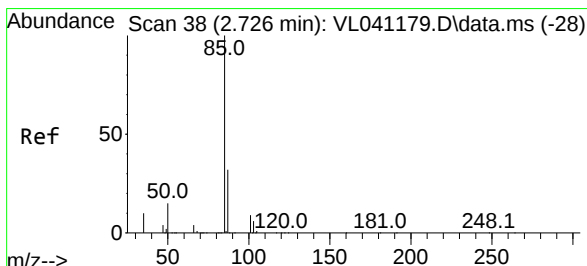
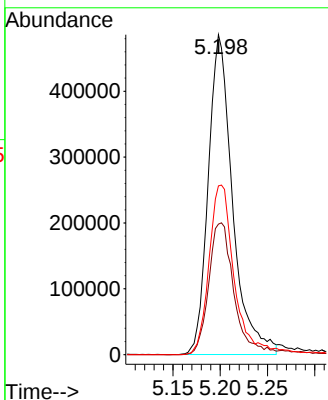
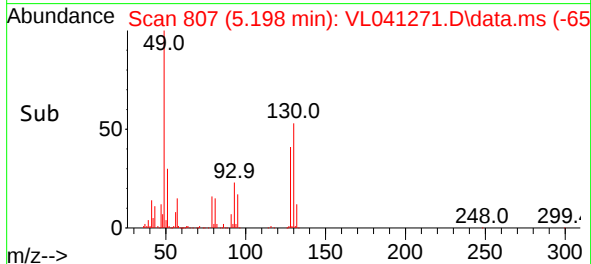
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 868062
Ion Ratio Lower Upper
49 100
128 44.4 21.5 64.5
130 56.5 27.2 81.6

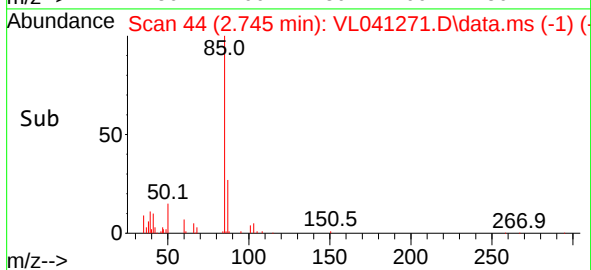
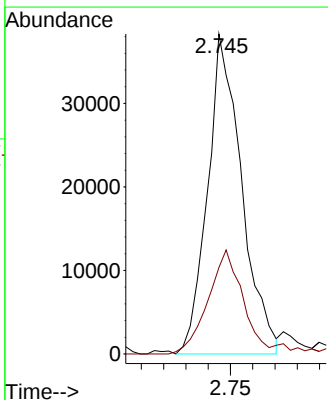
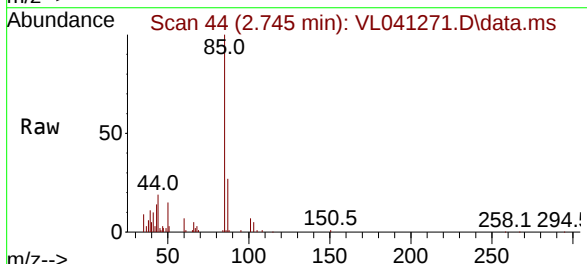
Manual Integrations
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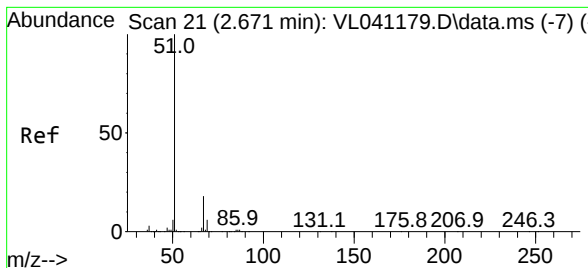
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#2
Dichlorodifluoromethane
Concen: 0.346 ppbv
RT: 2.745 min Scan# 44
Delta R.T. -0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 85 Resp: 40657
Ion Ratio Lower Upper
85 100
87 26.3 25.7 38.5





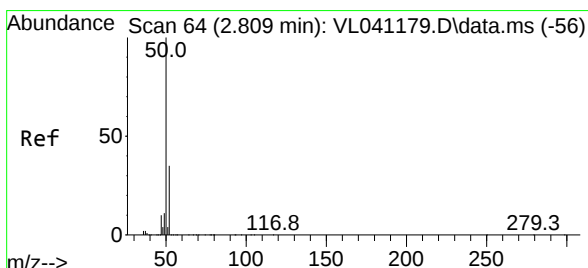
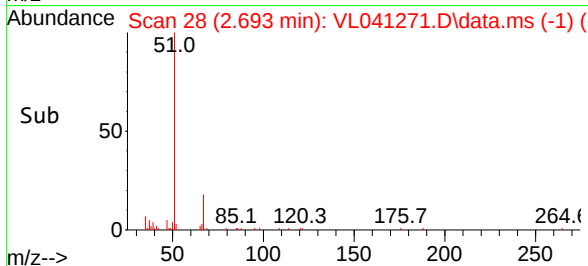
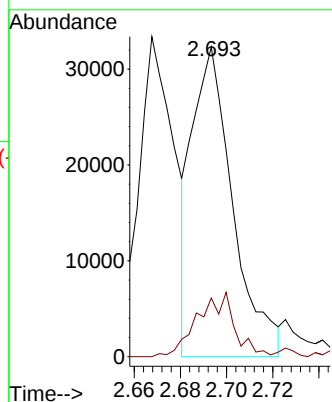
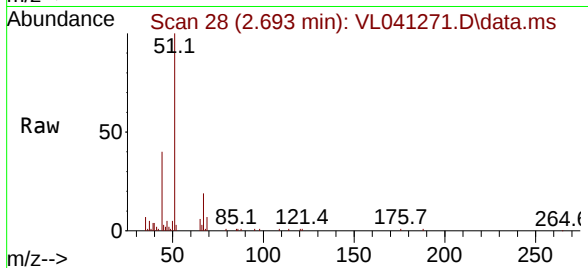
#3
Chlorodifluoromethane
Concen: 0.301 ppbv m
RT: 2.693 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 39640
Ion Ratio Lower Upper
51 100
67 20.7 14.0 21.0

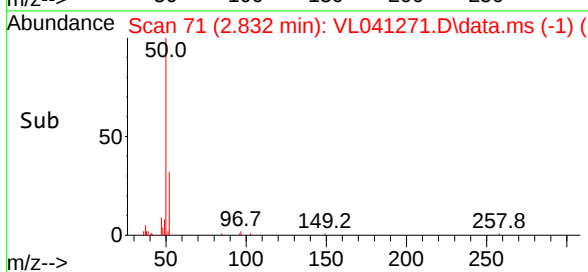
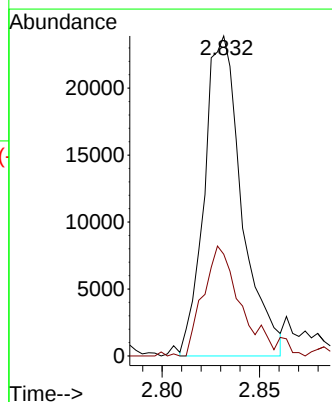
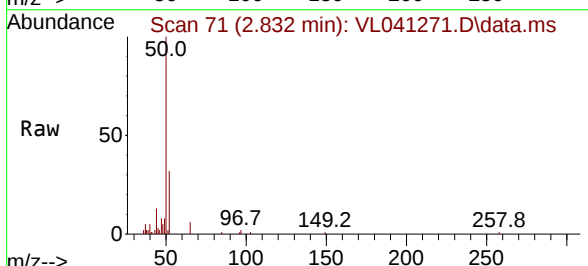
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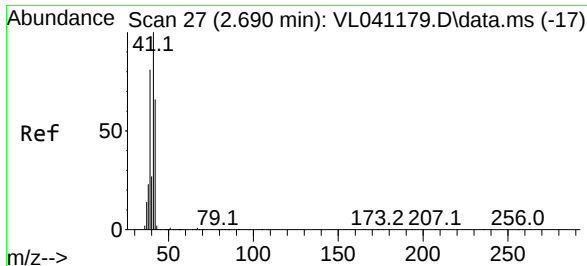
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#4
Chloromethane
Concen: 0.618 ppbv
RT: 2.832 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 50 Resp: 31983
Ion Ratio Lower Upper
50 100
52 32.2 28.3 42.5





#9

Propene

Concen: 1.016 ppbv

RT: 2.719 min Scan# 30

Delta R.T. 0.006 min

Lab File: VL041271.D

Acq: 21 May 2024 18:56

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 5243

Ion Ratio Lower Upper

41 100

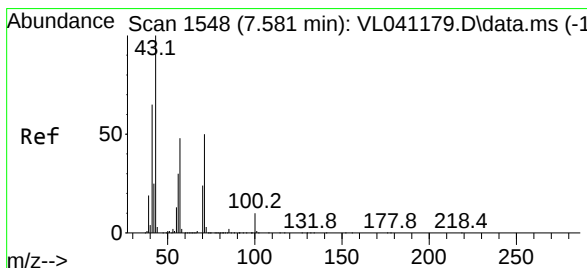
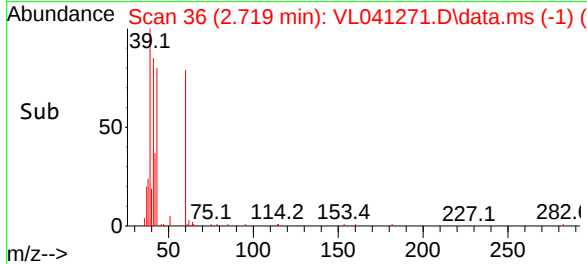
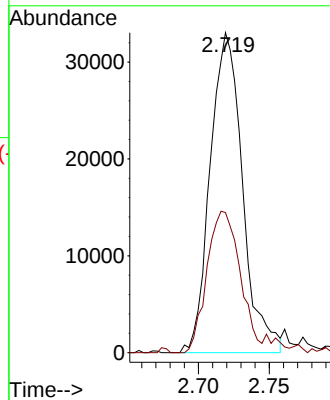
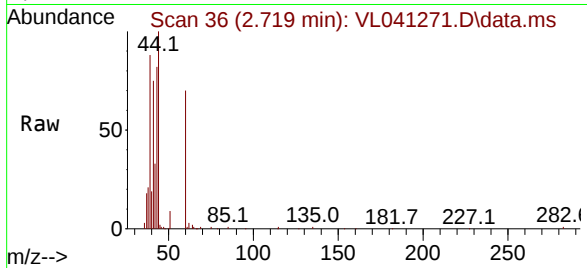
42 49.5 55.3 82.9

Manual Integrations

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Supervised By :Mahesh Dadoda 05/22/2024



#10

Heptane

Concen: 0.095 ppbv m

RT: 7.590 min Scan# 1551

Delta R.T. 0.006 min

Lab File: VL041271.D

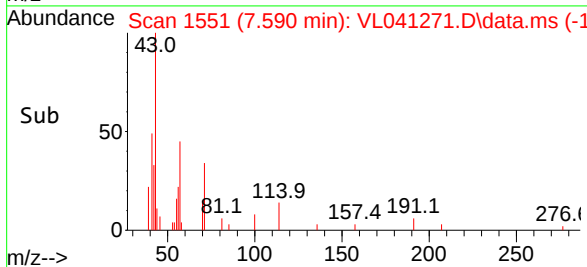
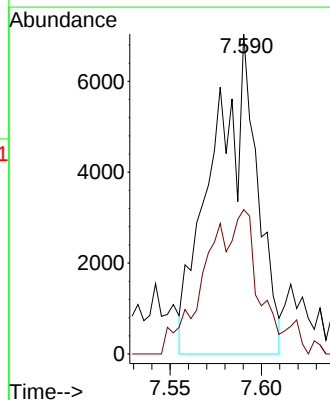
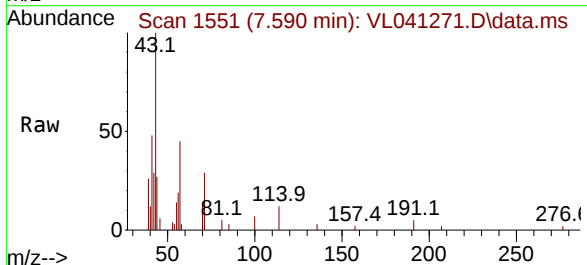
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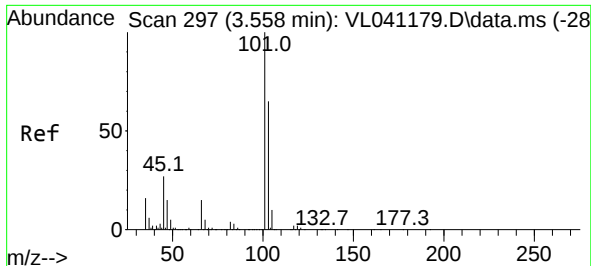
Tgt Ion: 43 Resp: 11853

Ion Ratio Lower Upper

43 100

57 0.0 38.7 58.1





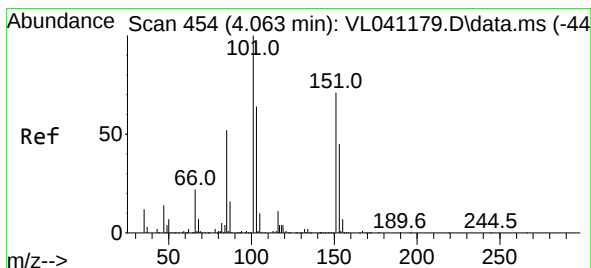
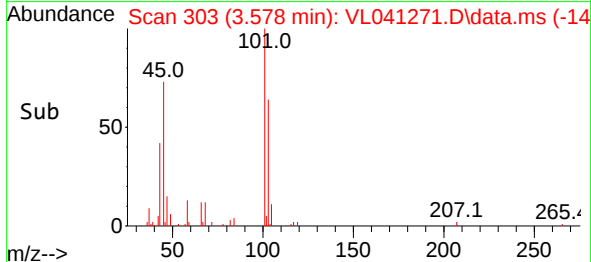
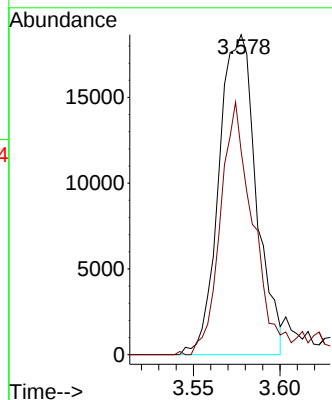
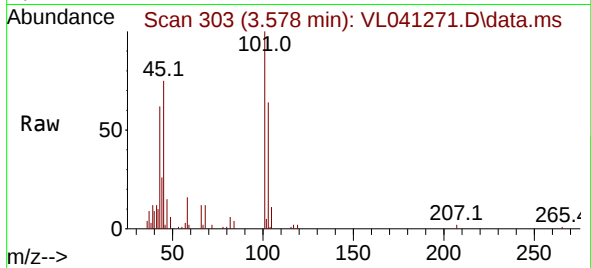
#11
 Trichlorofluoromethane
 Concen: 0.234 ppbv
 RT: 3.578 min Scan# 303
 Delta R.T. 0.003 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion:101 Resp: 27938
 Ion Ratio Lower Upper
 101 100
 103 62.6 51.6 77.4

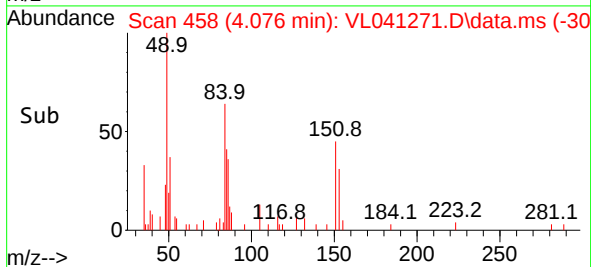
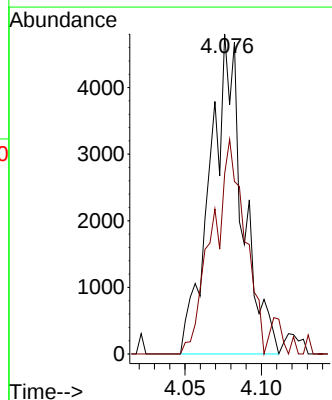
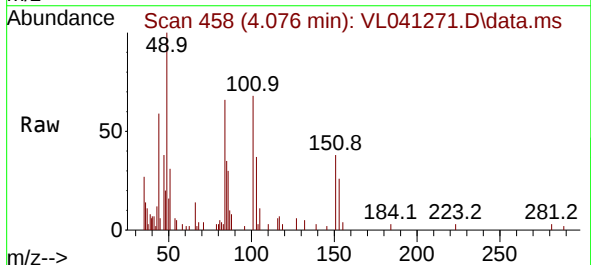
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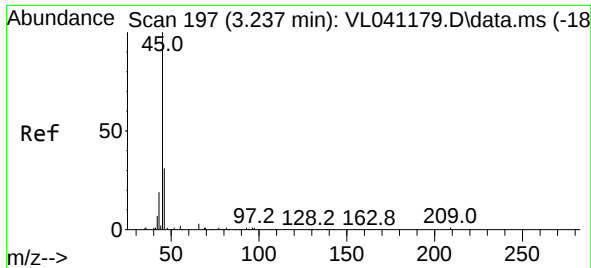
Reviewed By :Semsettin Yesilyurt 05/22/2024
 Supervised By :Mahesh Dadoda 05/22/2024



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.081 ppbv m
 RT: 4.076 min Scan# 458
 Delta R.T. -0.000 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

Tgt Ion:101 Resp: 7151
 Ion Ratio Lower Upper
 101 100
 151 72.6 56.8 85.2





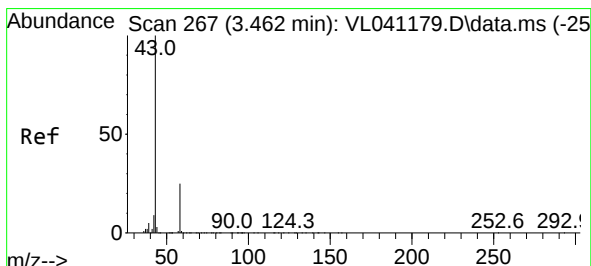
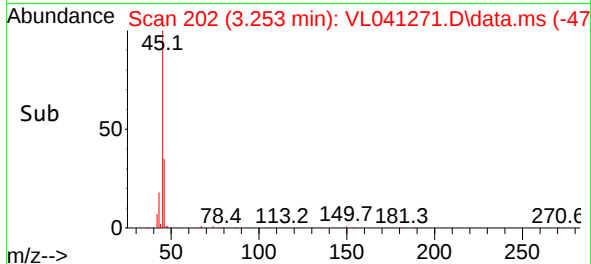
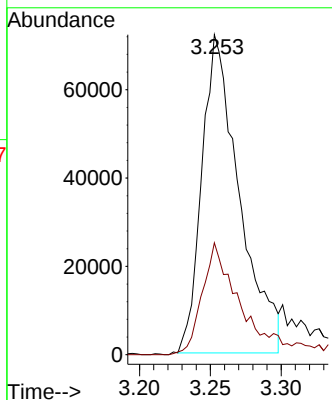
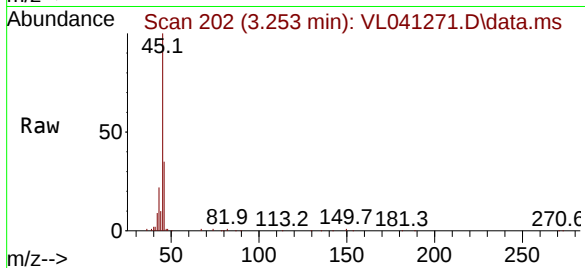
#13
Ethanol
Concen: 11.476 ppbv
RT: 3.253 min Scan# 20
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 13273
Ion Ratio Lower Upper
45 100
46 37.4 14.8 59.0

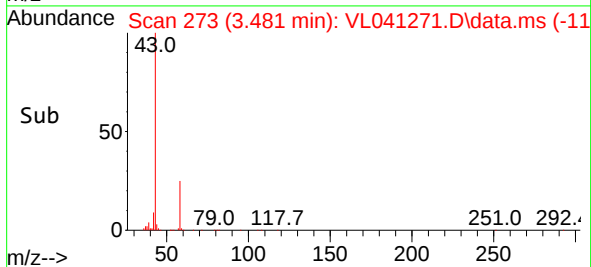
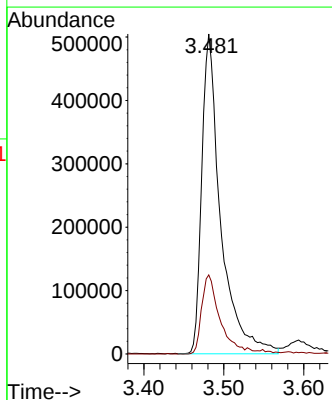
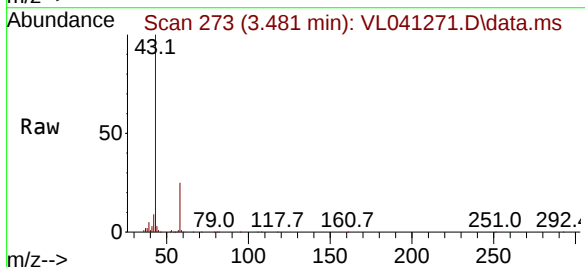
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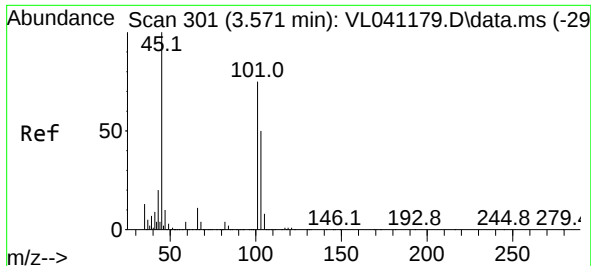
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#15
Acetone
Concen: 8.110 ppbv
RT: 3.481 min Scan# 273
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

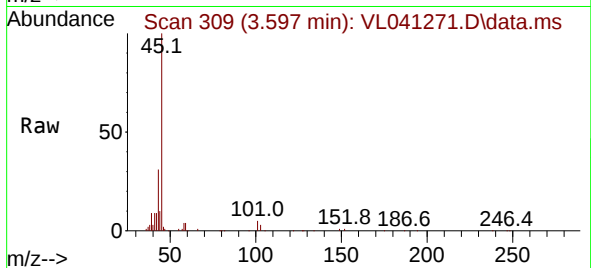
Tgt Ion: 43 Resp: 830894
Ion Ratio Lower Upper
43 100
58 25.9 21.4 32.0





#19
Isopropyl Alcohol
Concen: 1.684 ppbv m
RT: 3.597 min Scan# 301
Delta R.T. 0.009 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

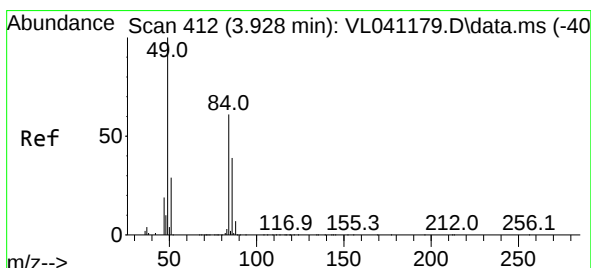
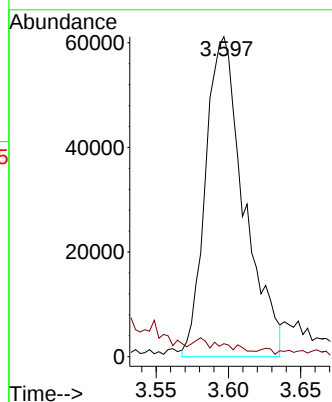
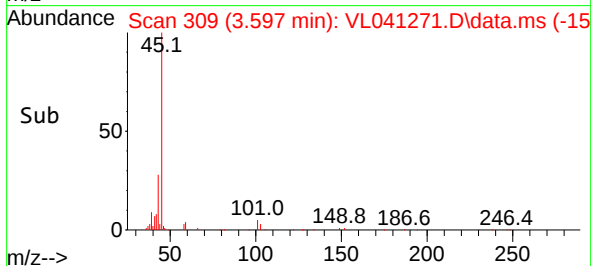
Instrument :
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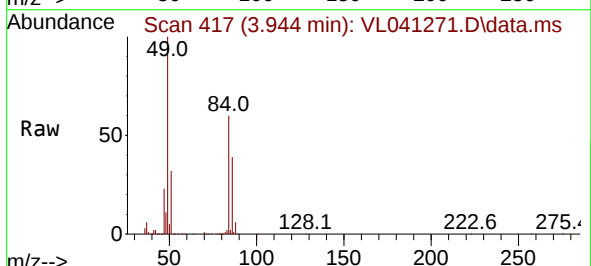
Tgt Ion: 45 Resp: 11319
Ion Ratio Lower Upper
45 100
58 0.0 26.8 40.2

Manual Integrations
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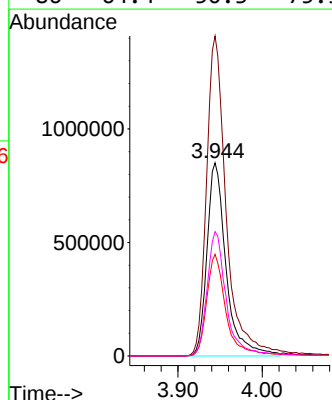
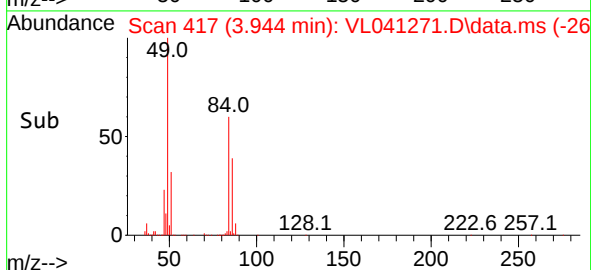
Reviewed By :Semsettin Yesilyurt 05/22/2024
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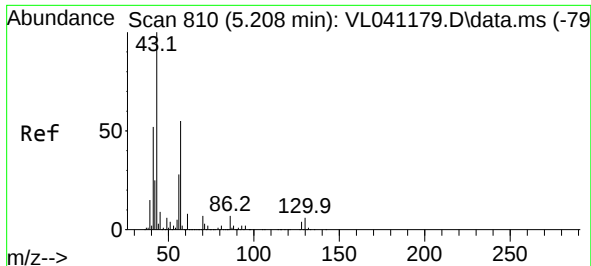


#20
Methylene Chloride
Concen: 37.958 ppbv
RT: 3.944 min Scan# 417
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56



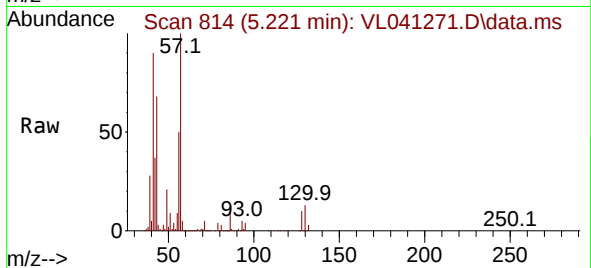
Tgt Ion: 84 Resp: 1352269
Ion Ratio Lower Upper
84 100
49 165.7 130.4 195.6
51 52.6 38.0 57.0
86 64.4 50.3 75.5





#26
Hexane
Concen: 9.942 ppbv
RT: 5.221 min Scan# 810
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

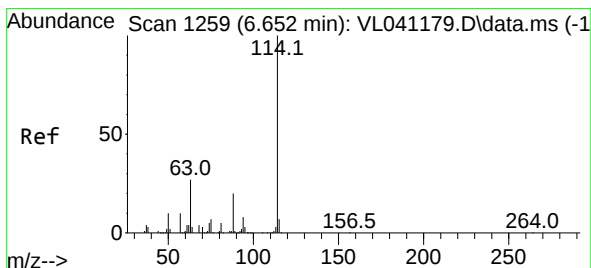
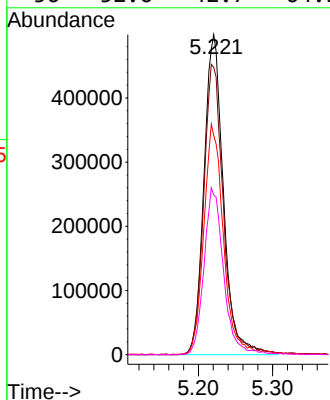
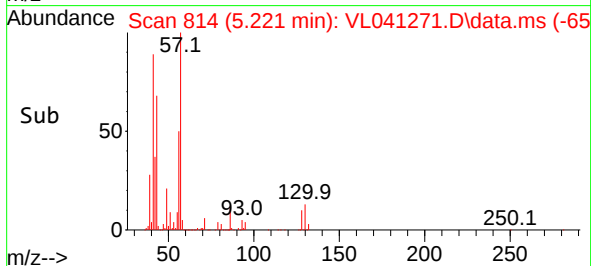
Instrument :
MSVOA_L
ClientSampleId :
IA1



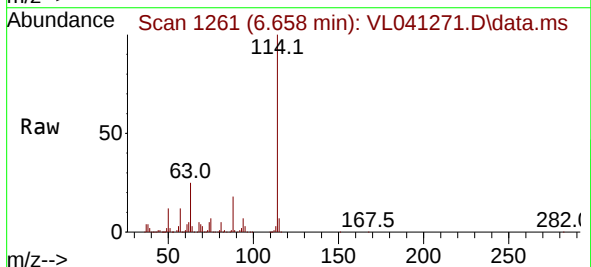
Tgt Ion: 57 Resp: 907233
Ion Ratio Lower Upper
57 100
41 92.9 75.8 113.8
43 73.4 187.0 280.4
56 52.6 42.7 64.1

Manual Integrations
APPROVED

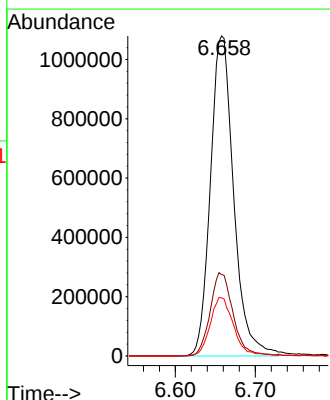
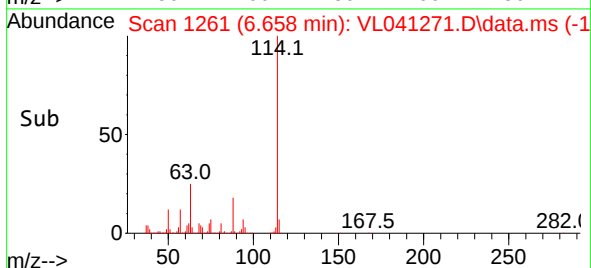
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

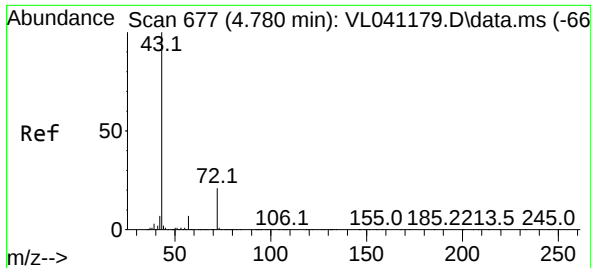


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56



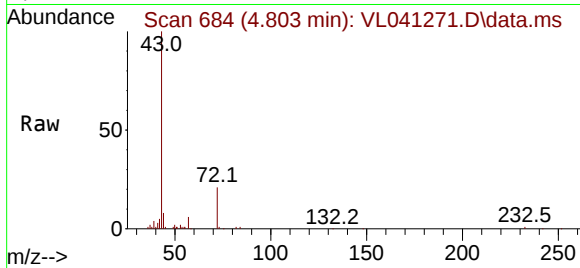
Tgt Ion:114 Resp: 2181233
Ion Ratio Lower Upper
114 100
63 26.0 21.8 32.6
88 18.5 15.2 22.8





#34
2-Butanone
Concen: 0.708 ppbv
RT: 4.803 min Scan# 61
Delta R.T. 0.009 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

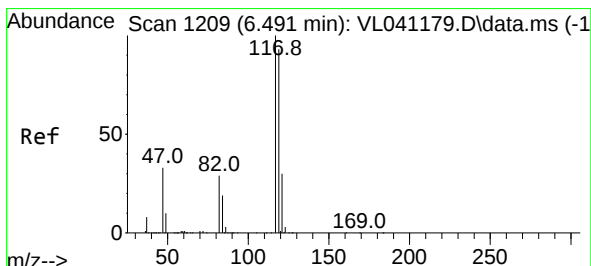
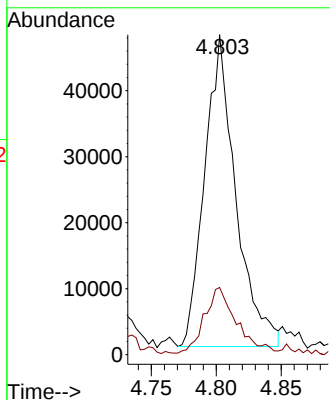
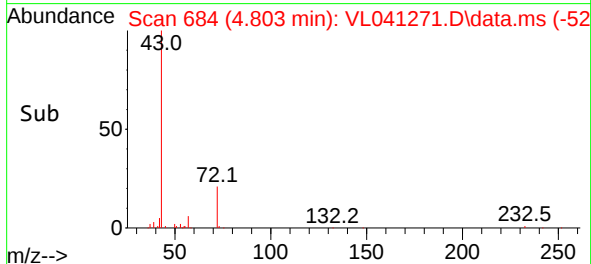
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 78604
Ion Ratio Lower Upper
43 100
72 23.0 17.3 25.9

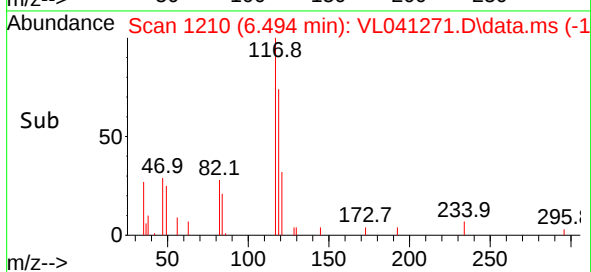
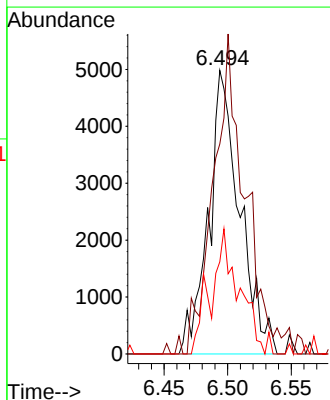
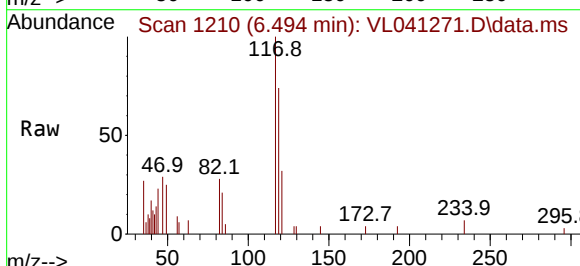
Manual Integrations
APPROVED

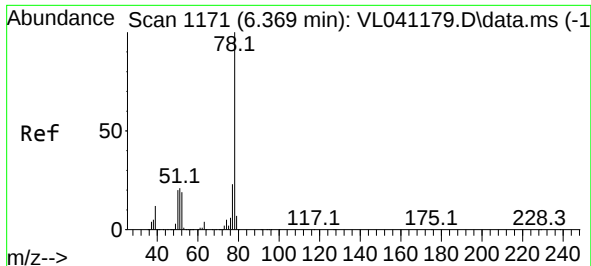
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 6.494 min Scan# 1210
Delta R.T. -0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

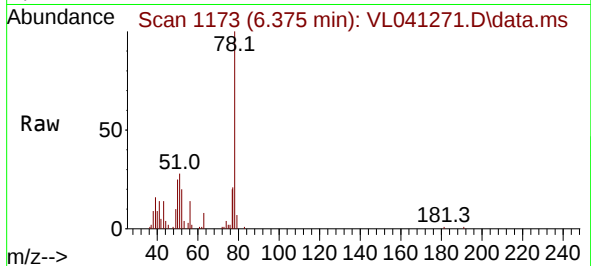
Tgt Ion:117 Resp: 8444
Ion Ratio Lower Upper
117 100
119 74.0 74.3 111.5#
121 32.5 23.8 35.8





#36
Benzene
Concen: 0.182 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

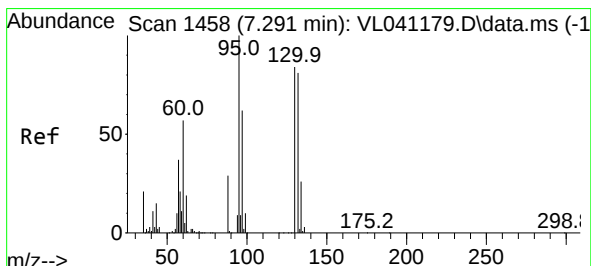
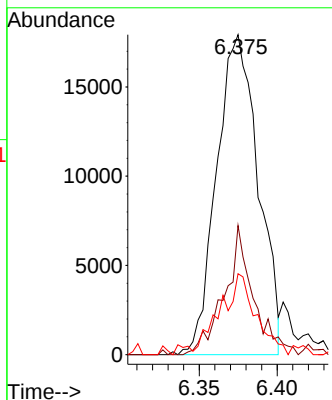
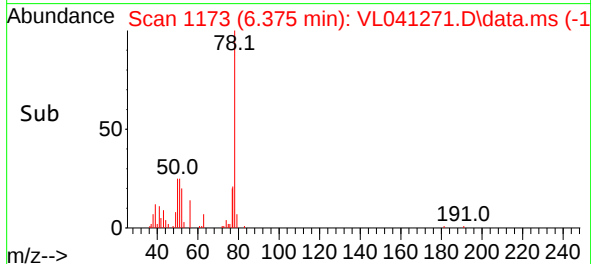
Instrument :
MSVOA_L
ClientSampleId :
IA1



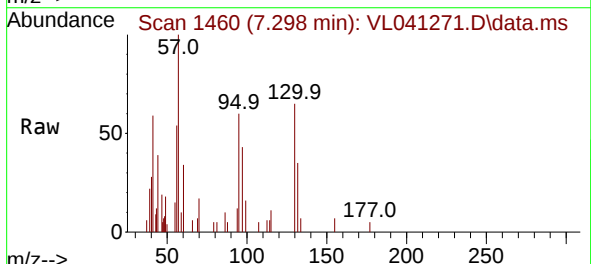
Tgt Ion: 78 Resp: 33280
Ion Ratio Lower Upper
78 100
77 40.4 18.3 27.5
50 22.2 15.9 23.9

Manual Integrations
APPROVED

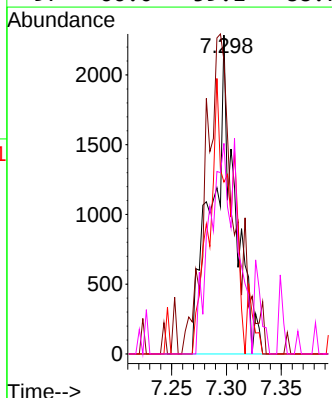
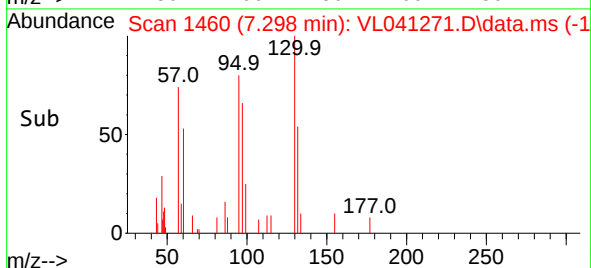
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

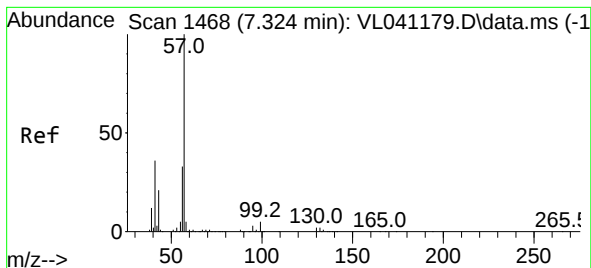


#38
Trichloroethene
Concen: 0.048 ppbv m
RT: 7.298 min Scan# 1460
Delta R.T. 0.006 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56



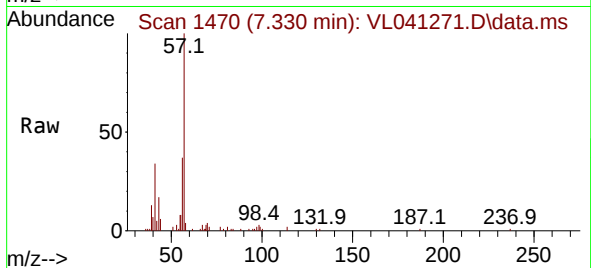
Tgt Ion:130 Resp: 3273
Ion Ratio Lower Upper
130 100
95 92.0 95.0 142.6#
132 53.9 77.0 115.4#
97 66.0 59.1 88.7





#44
2,2,4-Trimethylpentane
Concen: 0.159 ppbv
RT: 7.330 min Scan# 1468
Delta R.T. 0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

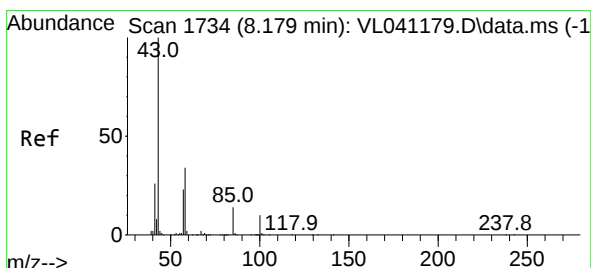
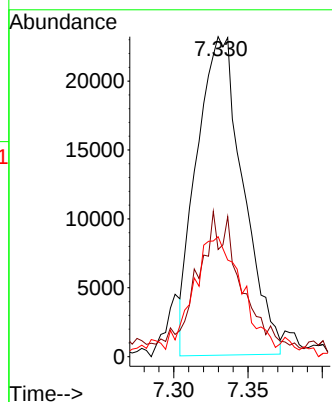
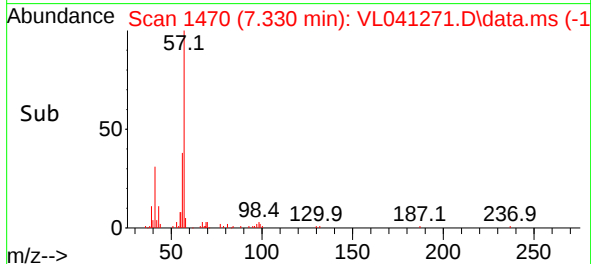
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 5030
Ion Ratio Lower Upper
57 100
41 50.9 29.5 44.3
56 45.9 25.3 37.9

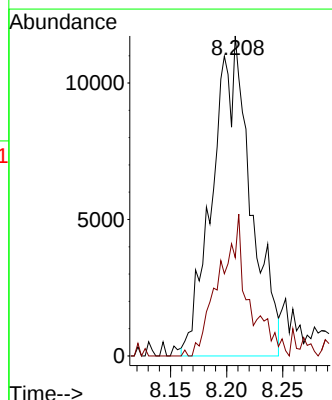
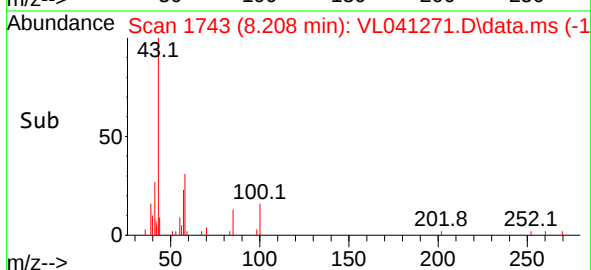
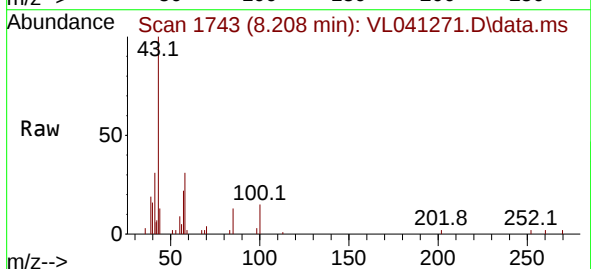
Manual Integrations
APPROVED

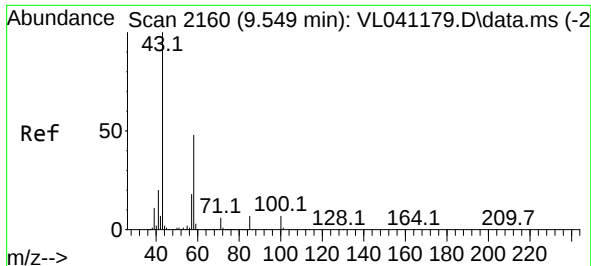
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#50
4-Methyl-2-Pentanone
Concen: 0.140 ppbv m
RT: 8.208 min Scan# 1743
Delta R.T. 0.026 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

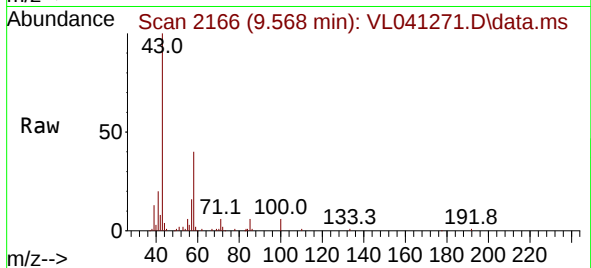
Tgt Ion: 43 Resp: 27913
Ion Ratio Lower Upper
43 100
58 0.0 27.7 41.5





#51
2-Hexanone
Concen: 0.780 ppbv m
RT: 9.568 min Scan# 2166
Delta R.T. 0.019 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

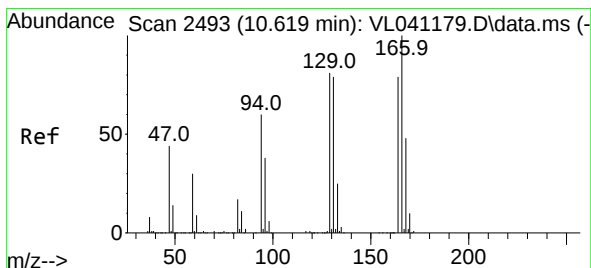
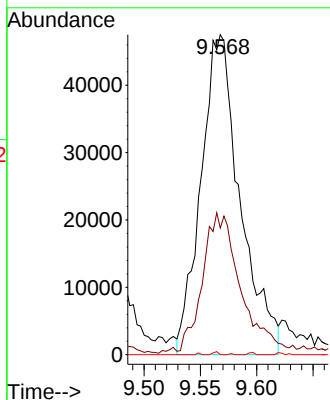
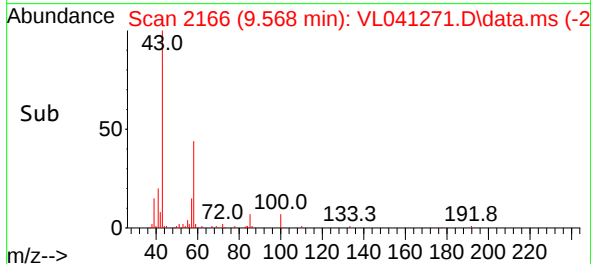
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 11531
Ion Ratio Lower Upper
43 100
58 44.7 38.4 57.6
98 0.2 0.0 0.0

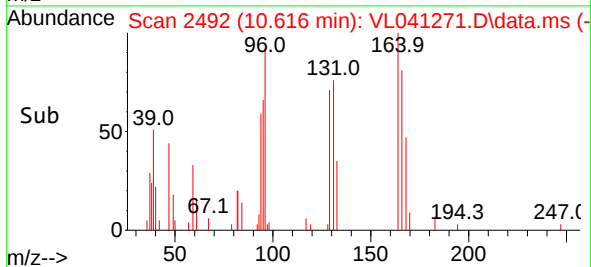
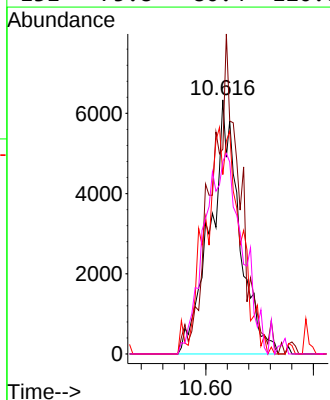
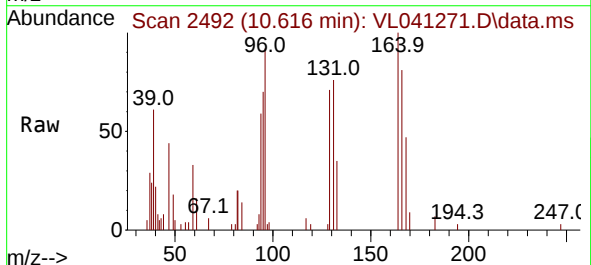
Manual Integrations
APPROVED

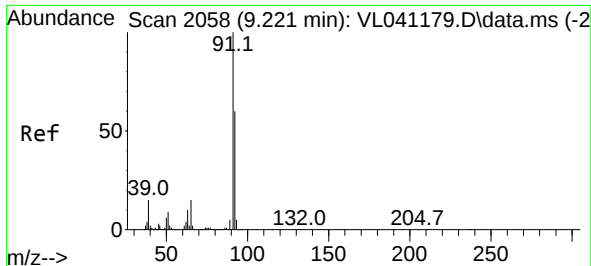
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#52
Tetrachloroethene
Concen: 0.186 ppbv
RT: 10.616 min Scan# 2492
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

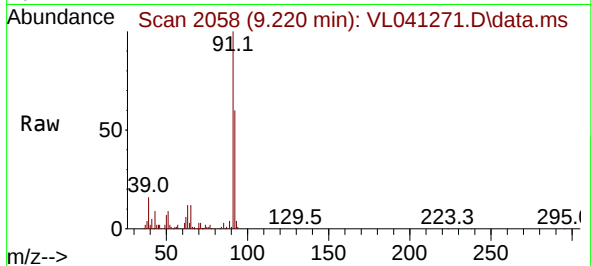
Tgt Ion:164 Resp: 11937
Ion Ratio Lower Upper
164 100
166 80.6 101.1 151.7#
129 70.6 81.7 122.5#
131 75.8 80.4 120.6#





#53
Toluene
Concen: 0.882 ppbv
RT: 9.220 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

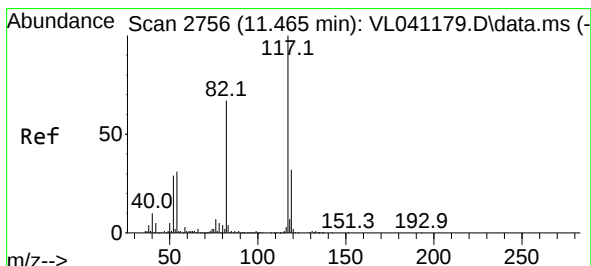
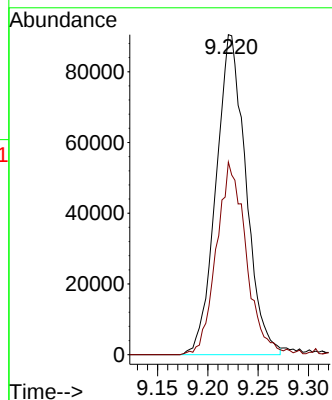
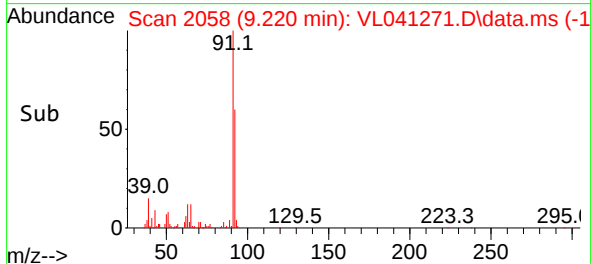
Instrument :
MSVOA_L
ClientSampleId :
IA1



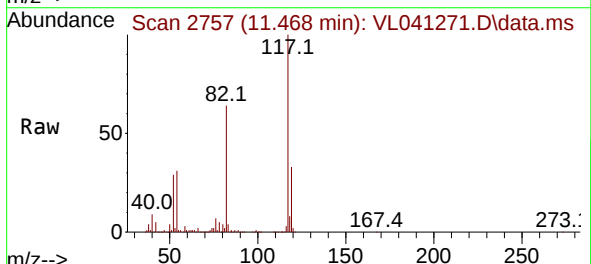
Tgt Ion: 91 Resp: 18720
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.4

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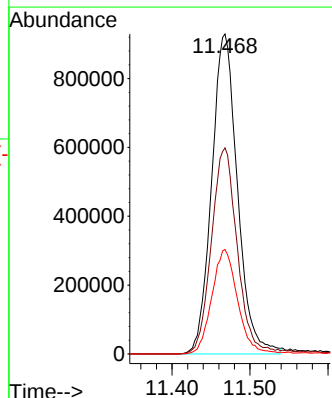
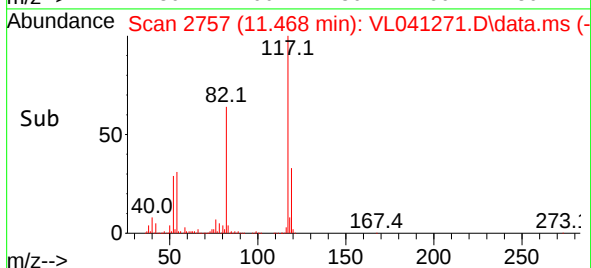
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

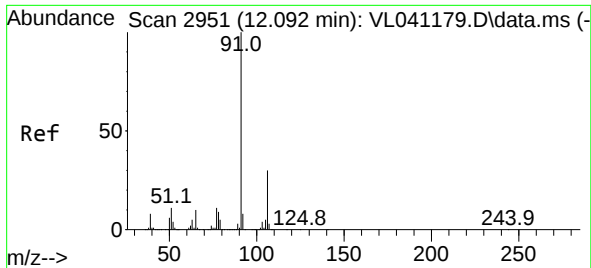


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56



Tgt Ion:117 Resp: 2140083
Ion Ratio Lower Upper
117 100
82 66.4 53.6 80.4
119 33.2 27.2 40.8





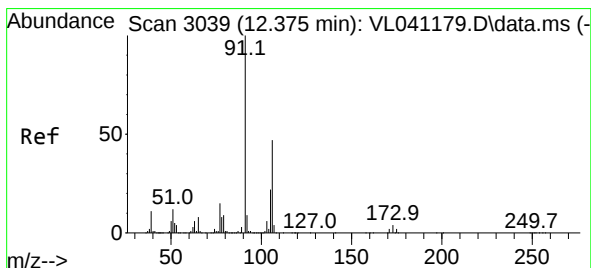
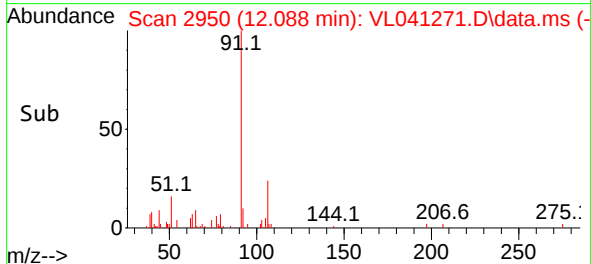
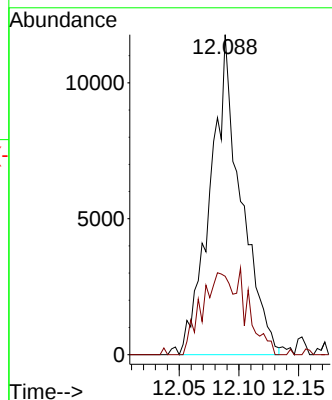
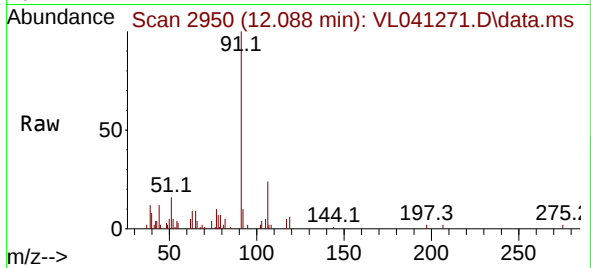
#58
Ethyl Benzene
Concen: 0.072 ppbv m
RT: 12.088 min Scan# 2951
Delta R.T. 0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 2105
Ion Ratio Lower Upper
91 100
106 24.5 24.3 36.5

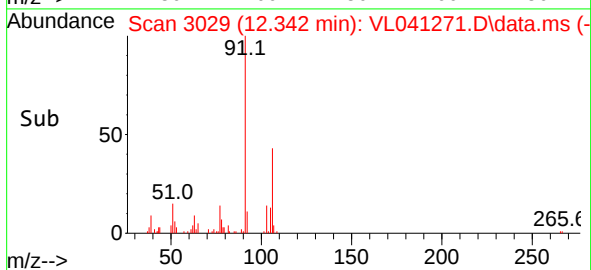
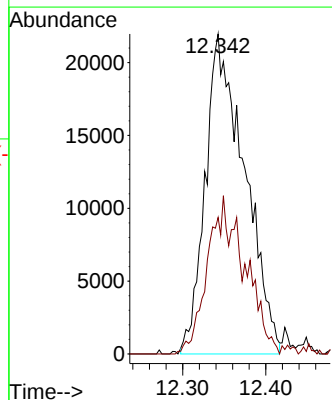
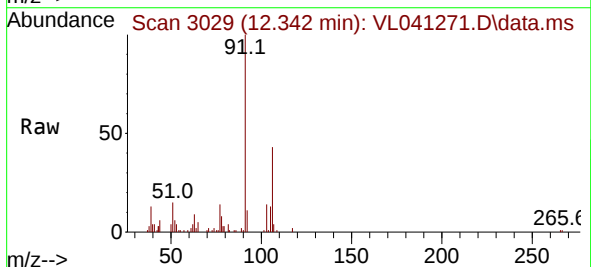
Manual Integrations
APPROVED

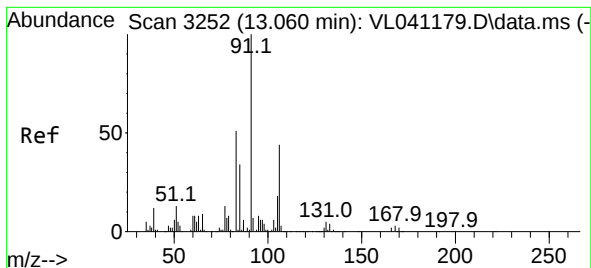
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#59
m/p-Xylene
Concen: 0.292 ppbv m
RT: 12.342 min Scan# 3029
Delta R.T. -0.023 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Tgt Ion: 91 Resp: 72069
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#





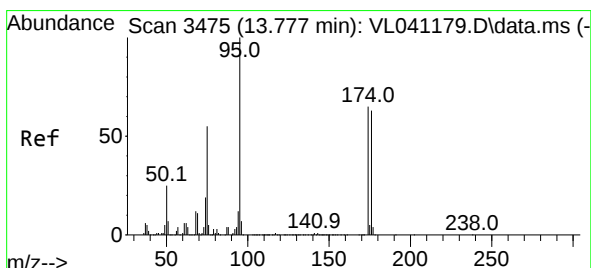
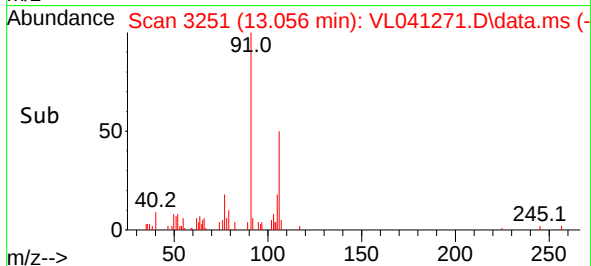
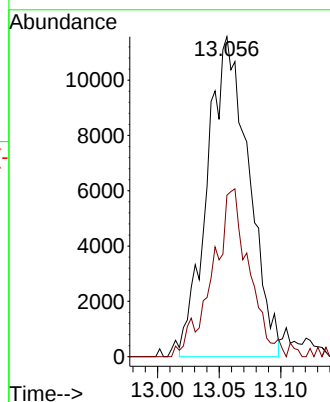
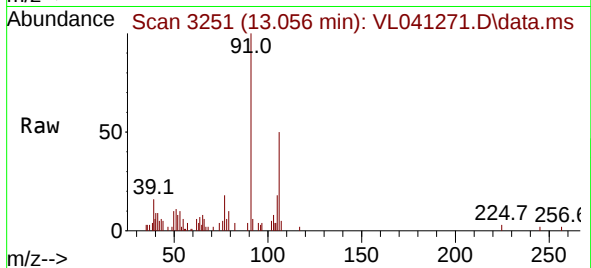
#60
o-Xylene
Concen: 0.117 ppbv m
RT: 13.056 min Scan# 3252
Delta R.T. -0.000 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 2713
Ion Ratio Lower Upper
91 100
106 46.8 22.4 67.3

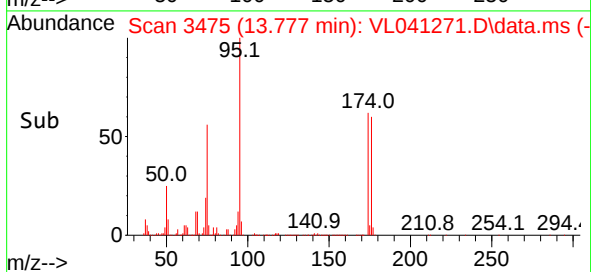
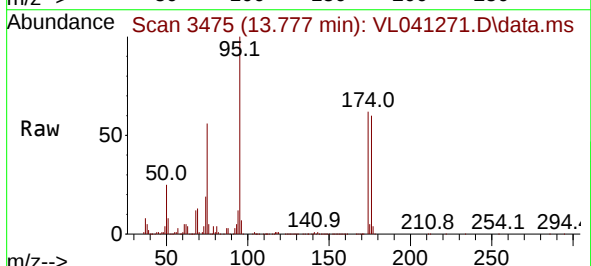
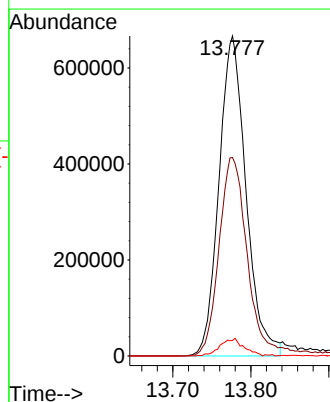
Manual Integrations
APPROVED

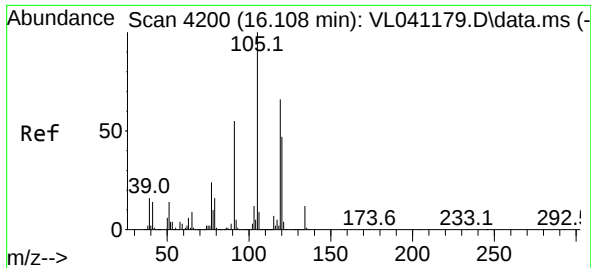
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 9.955 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041271.D
Acq: 21 May 2024 18:56

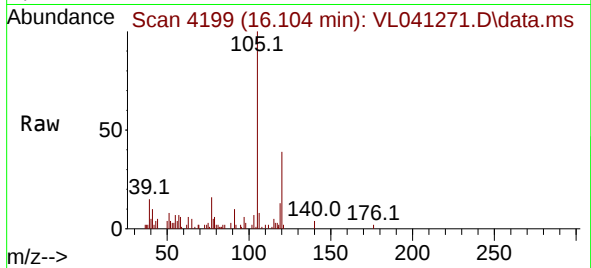
Tgt Ion: 95 Resp: 1608323
Ion Ratio Lower Upper
95 100
174 67.4 53.6 80.4
175 5.0 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.177 ppbv
 RT: 16.104 min Scan# 4199
 Delta R.T. -0.000 min
 Lab File: VL041271.D
 Acq: 21 May 2024 18:56

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	4569
Ion	Ratio	Lower	Upper
105	100		
120	39.4	37.8	56.6
91	9.8	44.3	66.5
77	14.3	19.0	28.4

Manual Integrations
 APPROVED

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

