

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041606.D
 Acq On : 18 Sep 2024 14:23
 Operator : SY/MD
 Sample : P4028-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2024
 Supervised By :Mahesh Dadoda 09/19/2024

Quant Time: Sep 19 01:33:12 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	1043004	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.651	114	2822374	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.462	117	2293493	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1683058	9.969	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.738	85	32050	0.213	ppbv	89
3) Chlorodifluoromethane	2.684	51	41525m	0.328	ppbv	
4) Chloromethane	2.819	50	33774	0.485	ppbv	100
9) Propene	2.703	41	64942	1.217	ppbv	88
10) Heptane	7.581	43	19261	0.154	ppbv #	84
11) Trichlorofluoromethane	3.562	101	34484m	0.215	ppbv	
13) Ethanol	3.240	45	1577092	393.119	ppbv	95
15) Acetone	3.472	43	698929	5.338	ppbv	95
19) Isopropyl Alcohol	3.578	45	264623	3.948	ppbv #	98
20) Methylene Chloride	3.935	84	109729	2.231	ppbv	99
26) Hexane	5.214	57	90515	0.923	ppbv #	57
34) 2-Butanone	4.790	43	79658	0.592	ppbv	94
35) Carbon Tetrachloride	6.487	117	9127m	0.066	ppbv	
36) Benzene	6.365	78	86709	0.442	ppbv #	89
44) 2,2,4-Trimethylpentane	7.327	57	73313m	0.216	ppbv	
52) Tetrachloroethene	10.613	164	3447m	0.049	ppbv	
53) Toluene	9.217	91	406933	1.956	ppbv	99
58) Ethyl Benzene	12.085	91	34289	0.140	ppbv	93
59) m/p-Xylene	12.343	91	121273m	0.555	ppbv	
60) o-Xylene	13.056	91	57078m	0.272	ppbv	
61) Styrene	12.880	104	12760m	0.146	ppbv	
64) n-propylbenzene	14.902	120	10402m	0.127	ppbv	
72) 4-Ethyltoluene	15.188	105	47859	0.195	ppbv #	85
73) 1,3,5-Trimethylbenzene	15.346	105	46456	0.215	ppbv	95
74) 1,2,4-Trimethylbenzene	16.101	105	202844m	0.801	ppbv	

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

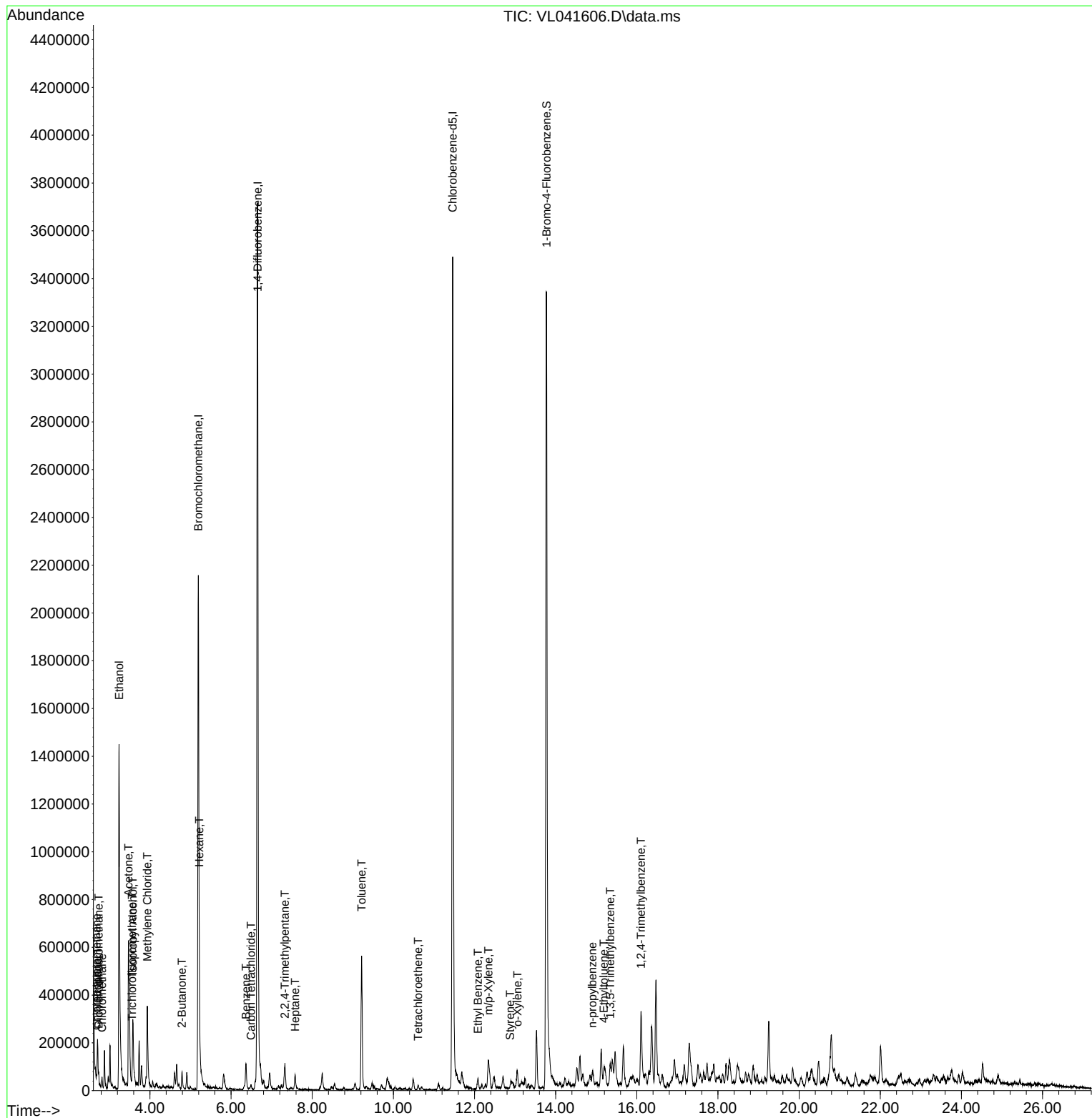
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
Data File : VL041606.D
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Operator : SY/MD
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

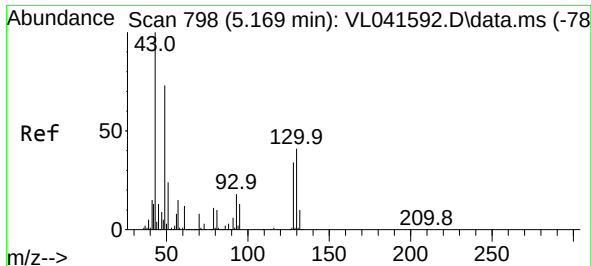
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Sep 19 01:33:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration

Manual Integrations
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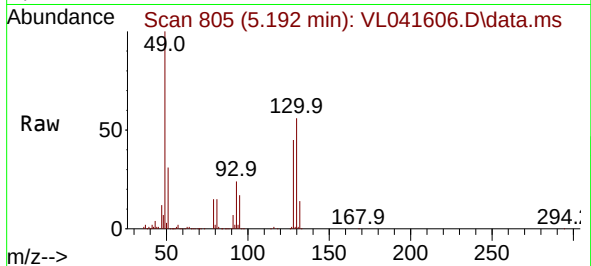
Reviewed By : Semsettin Yesilyurt 09/19/2024
Supervised By : Mahesh Dadoda 09/19/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.023 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

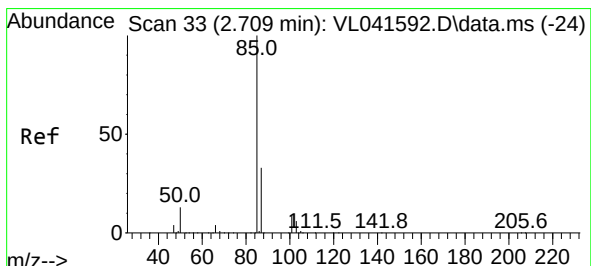
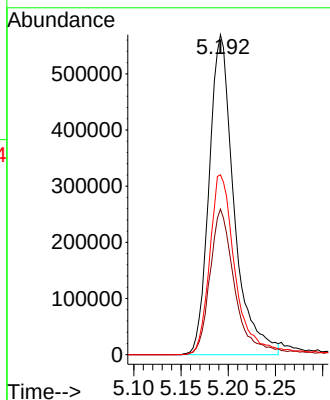
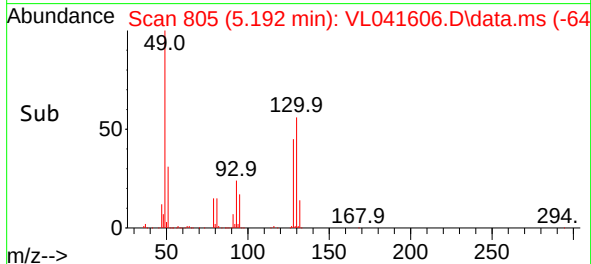
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 1043004
Ion Ratio Lower Upper
49 100
128 47.1 23.8 71.5
130 59.8 30.4 91.3

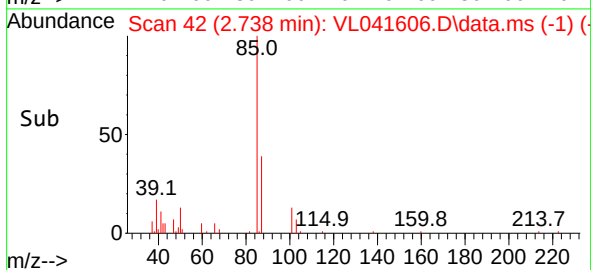
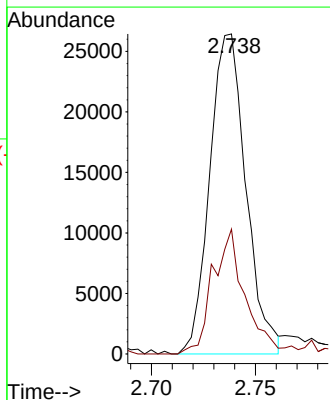
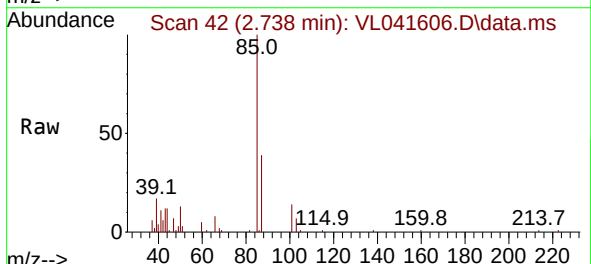
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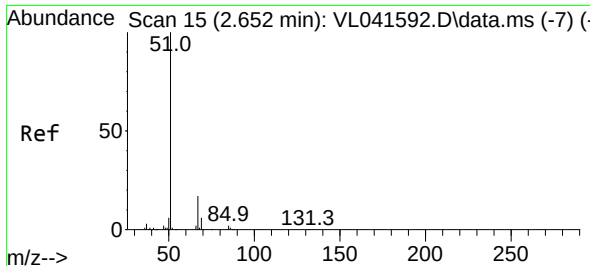
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#2
Dichlorodifluoromethane
Concen: 0.213 ppbv
RT: 2.738 min Scan# 42
Delta R.T. 0.029 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

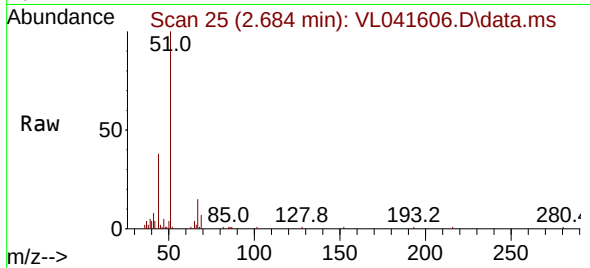
Tgt Ion: 85 Resp: 32050
Ion Ratio Lower Upper
85 100
87 39.0 26.3 39.5





#3
Chlorodifluoromethane
Concen: 0.328 ppbv m
RT: 2.684 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

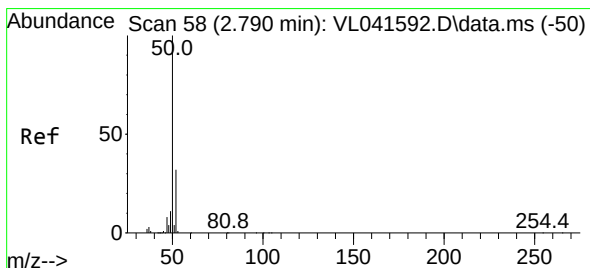
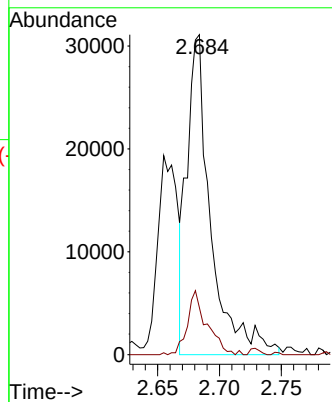
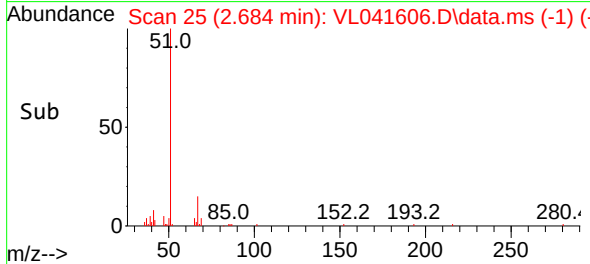
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 51 Resp: 41529
Ion Ratio Lower Upper
51 100
67 16.6 14.1 21.1

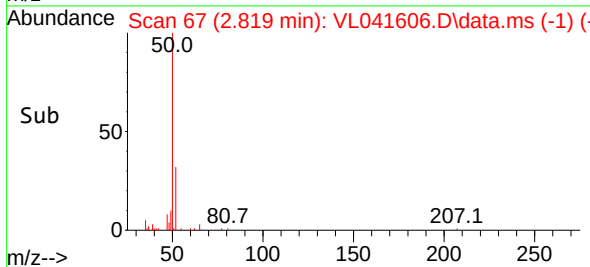
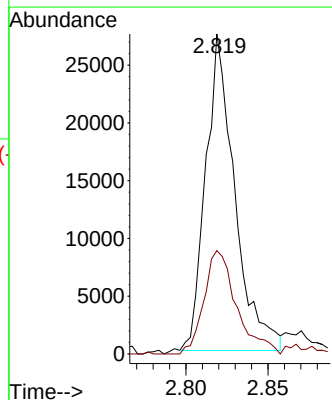
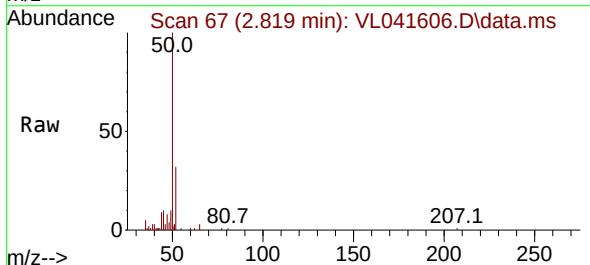
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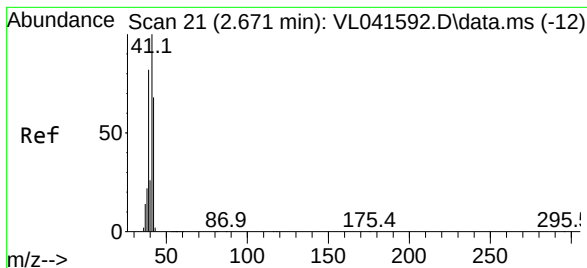
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#4
Chloromethane
Concen: 0.485 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.029 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

Tgt Ion: 50 Resp: 33774
Ion Ratio Lower Upper
50 100
52 31.9 25.4 38.2





#9

Propene

Concen: 1.217 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.032 min

Lab File: VL041606.D

Acq: 18 Sep 2024 14:23

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 6494

Ion Ratio Lower Upper

41 100

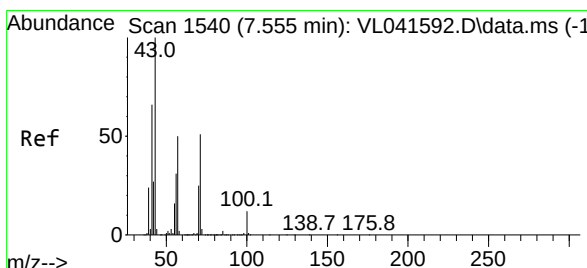
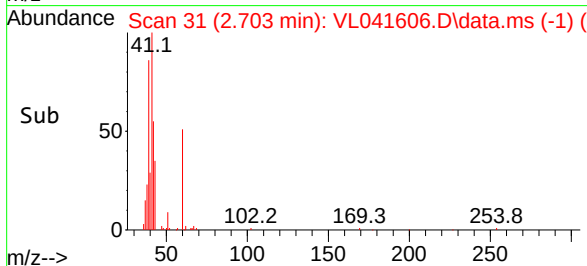
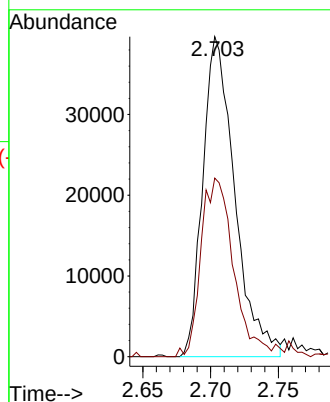
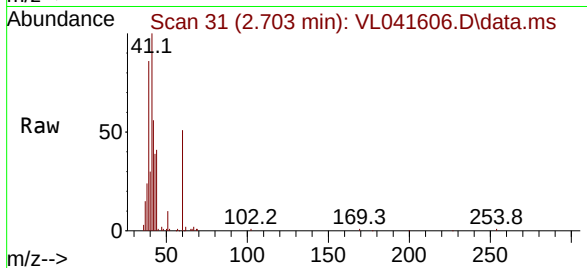
42 59.2 55.2 82.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2024

Supervised By :Mahesh Dadoda 09/19/2024



#10

Heptane

Concen: 0.154 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.026 min

Lab File: VL041606.D

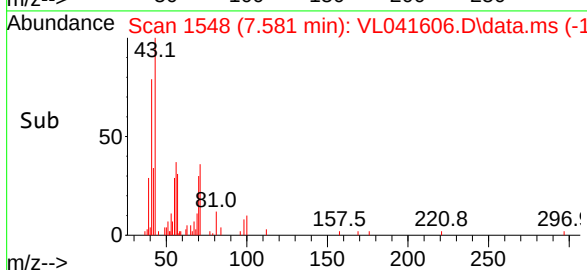
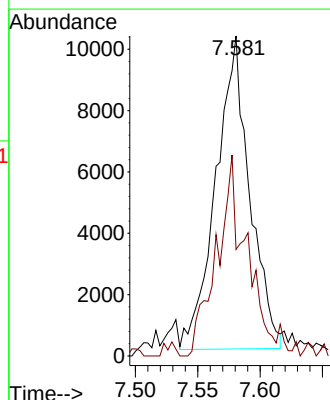
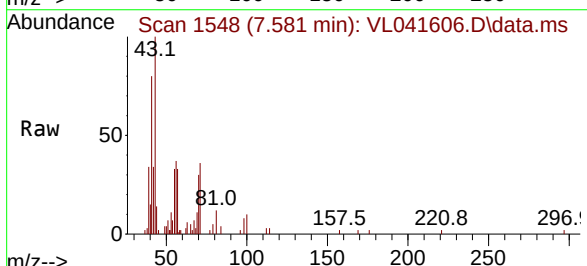
Acq: 18 Sep 2024 14:23

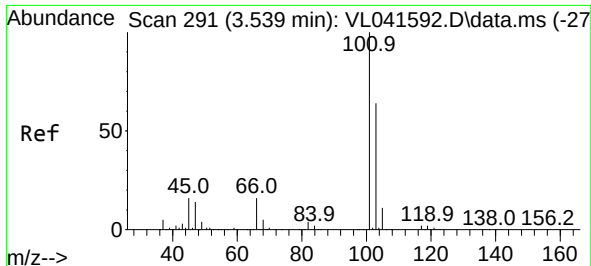
Tgt Ion: 43 Resp: 19261

Ion Ratio Lower Upper

43 100

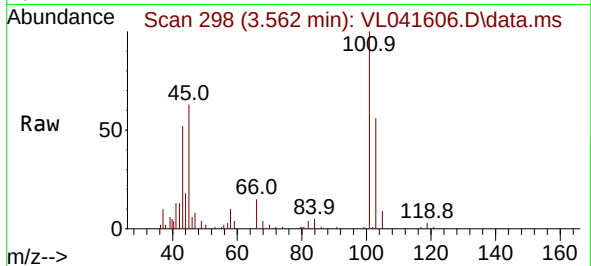
57 60.9 39.8 59.8





#11
Trichlorofluoromethane
Concen: 0.215 ppbv m
RT: 3.562 min Scan# 291
Delta R.T. 0.023 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

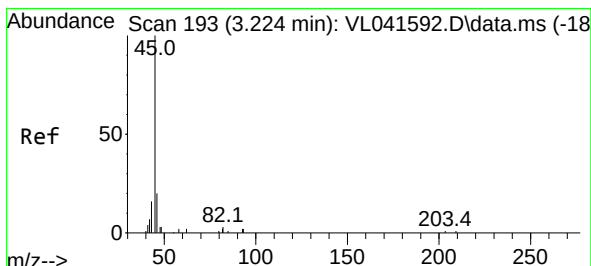
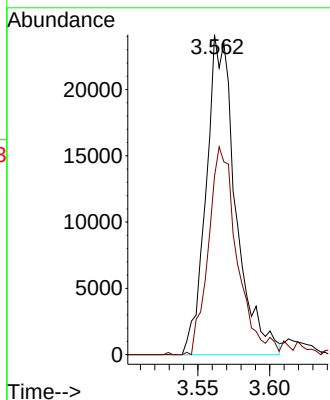
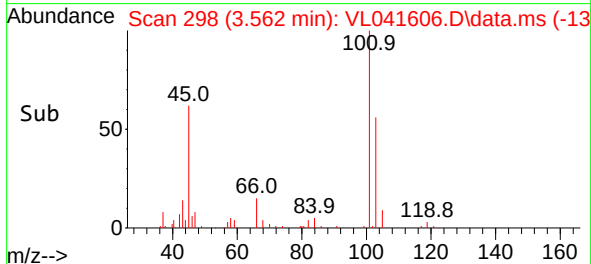
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:101 Resp: 34484
Ion Ratio Lower Upper
101 100
103 55.8 51.2 76.8

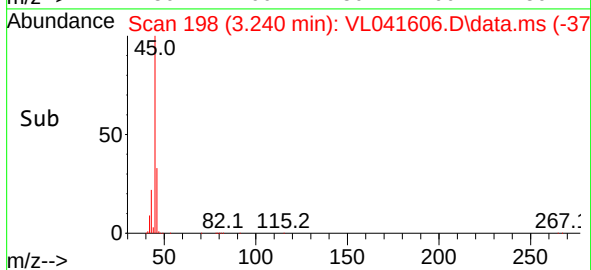
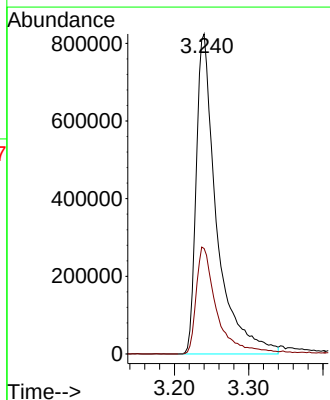
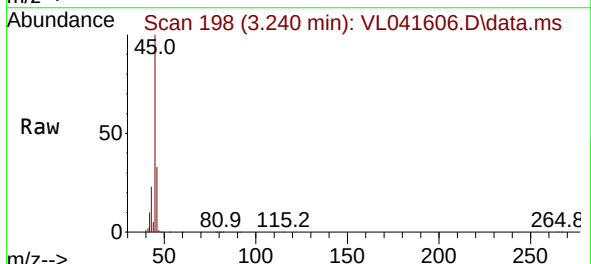
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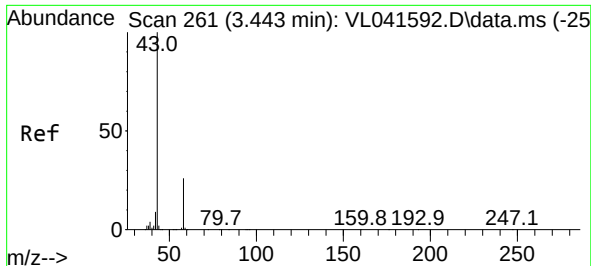
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#13
Ethanol
Concen: 393.119 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.016 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

Tgt Ion: 45 Resp: 1577092
Ion Ratio Lower Upper
45 100
46 35.1 15.2 60.8





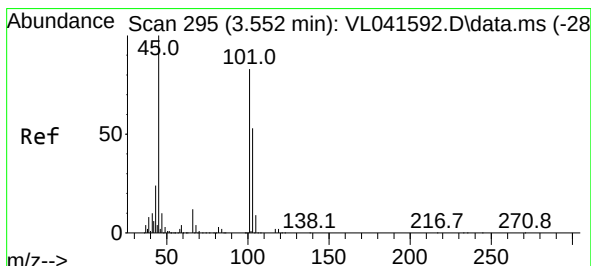
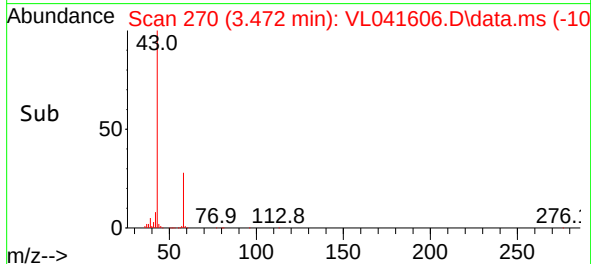
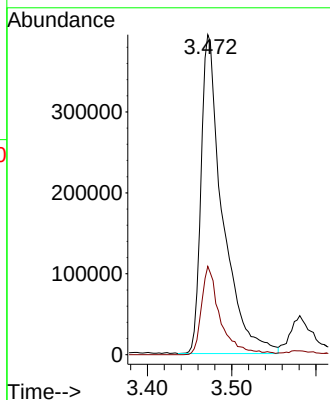
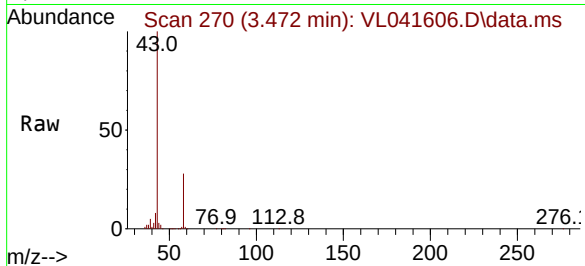
#15
Acetone
Concen: 5.338 ppbv
RT: 3.472 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 698929
Ion Ratio Lower Upper
43 100
58 24.3 21.5 32.3

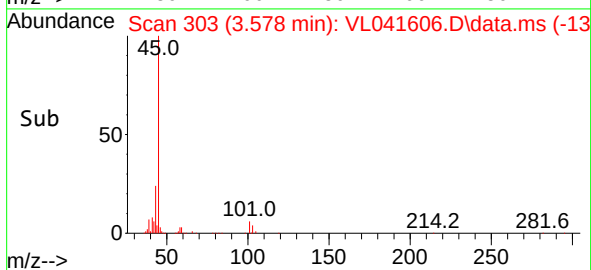
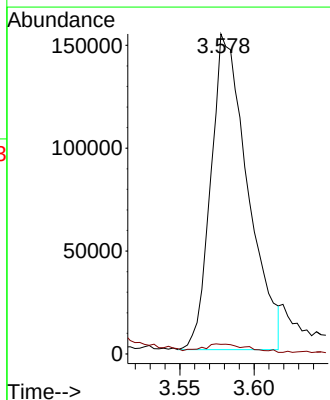
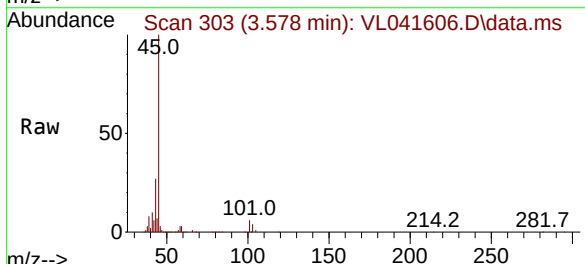
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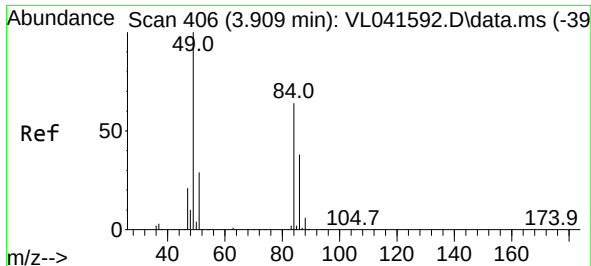
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#19
Isopropyl Alcohol
Concen: 3.948 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.026 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

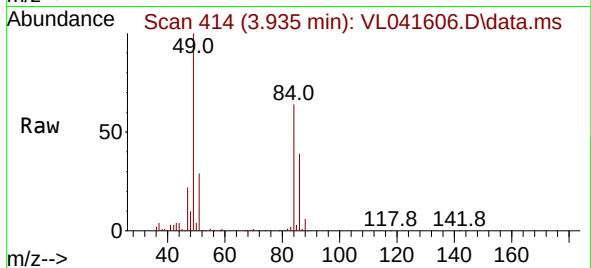
Tgt Ion: 45 Resp: 264623
Ion Ratio Lower Upper
45 100
58 3.3 2.1 3.1#





#20
Methylene Chloride
Concen: 2.231 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.026 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

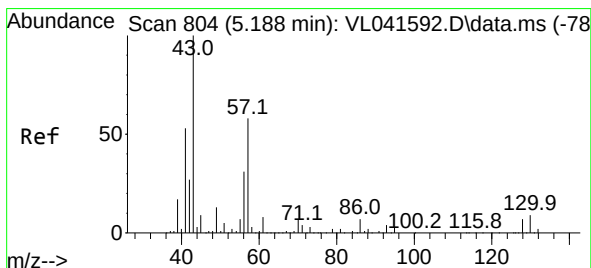
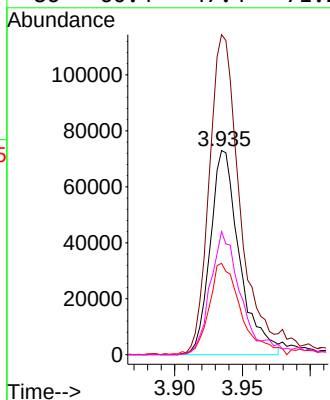
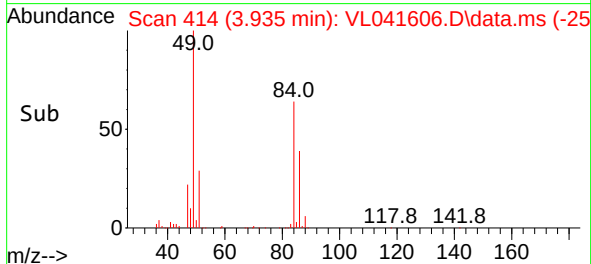
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 84 Resp: 109729
Ion Ratio Lower Upper
84 100
49 156.8 124.3 186.5
51 44.3 36.3 54.5
86 60.4 47.4 71.2

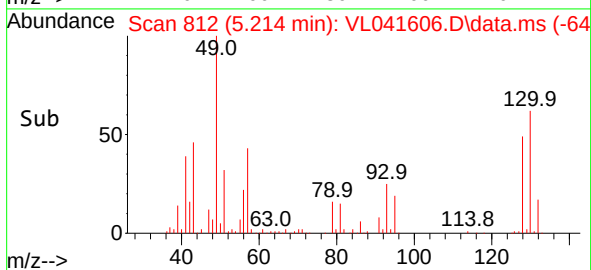
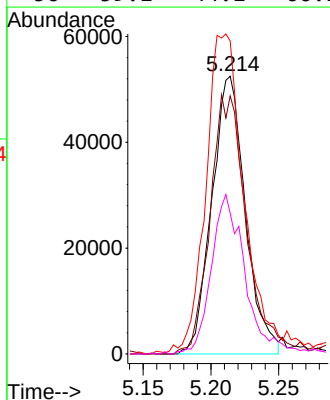
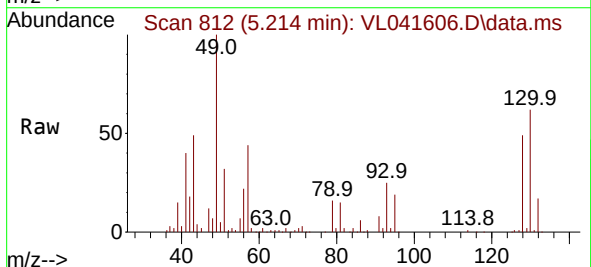
Manual Integrations
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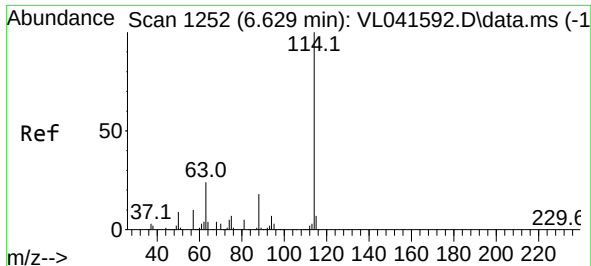
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#26
Hexane
Concen: 0.923 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.026 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

Tgt Ion: 57 Resp: 90515
Ion Ratio Lower Upper
57 100
41 101.8 75.7 113.5
43 135.5 198.5 297.7#
56 59.1 44.1 66.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 114

Delta R.T. 0.023 min

Lab File: VL041606.D

Acq: 18 Sep 2024 14:23

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:114 Resp: 2822374

Ion Ratio Lower Upper

114 100

63 24.9 20.2 30.2

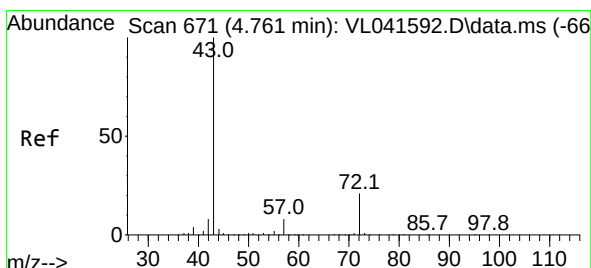
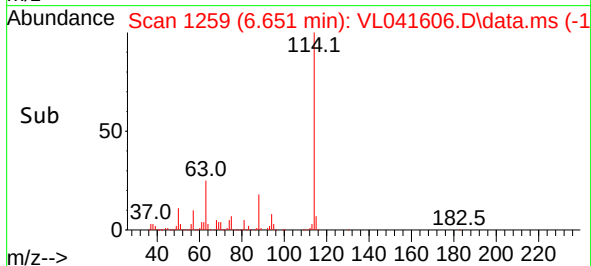
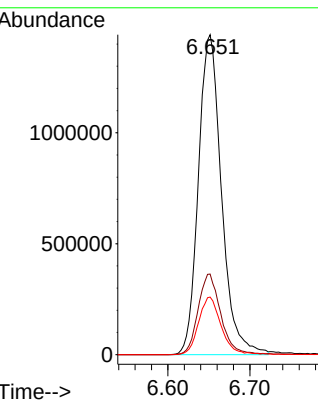
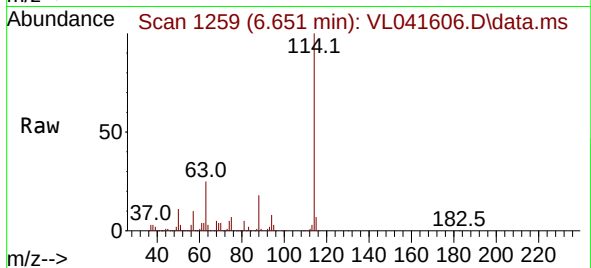
88 17.8 14.2 21.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2024

Supervised By :Mahesh Dadoda 09/19/2024



#34

2-Butanone

Concen: 0.592 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.029 min

Lab File: VL041606.D

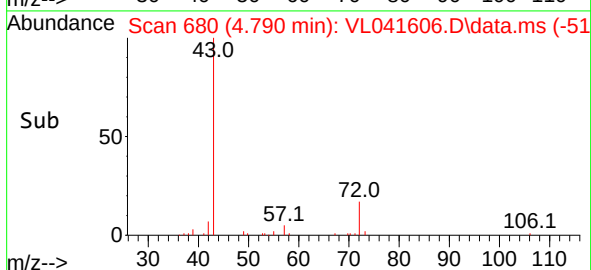
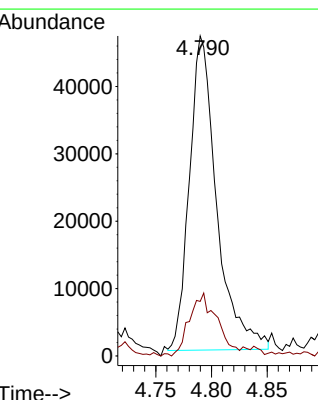
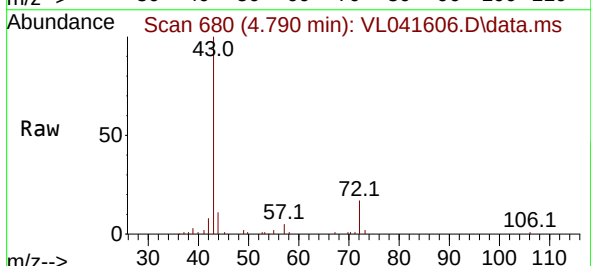
Acq: 18 Sep 2024 14:23

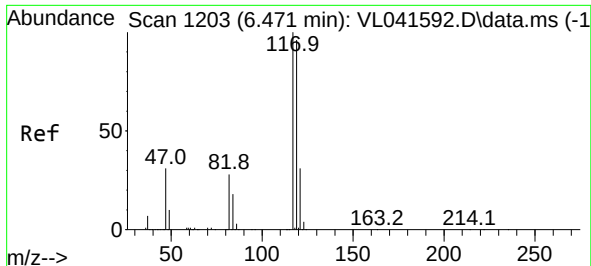
Tgt Ion: 43 Resp: 79658

Ion Ratio Lower Upper

43 100

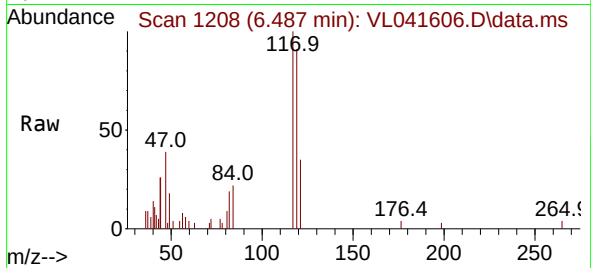
72 23.6 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 6.487 min Scan# 1170
Delta R.T. 0.016 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

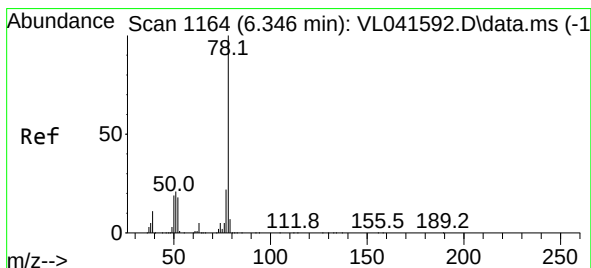
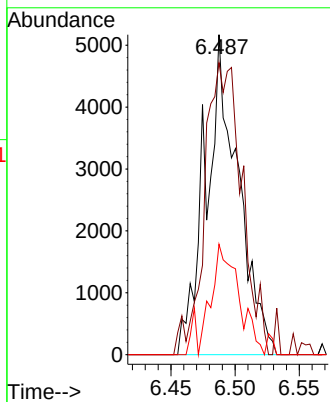
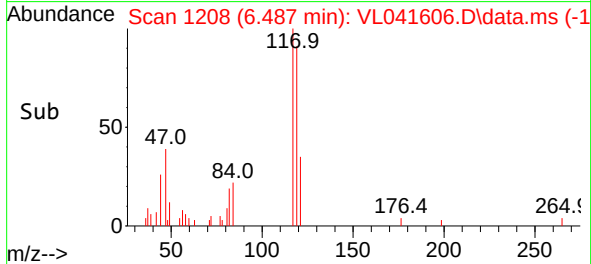
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 117 Resp: 912
Ion Ratio Lower Upper
117 100
119 91.3 76.8 115.2
121 34.5 25.0 37.6

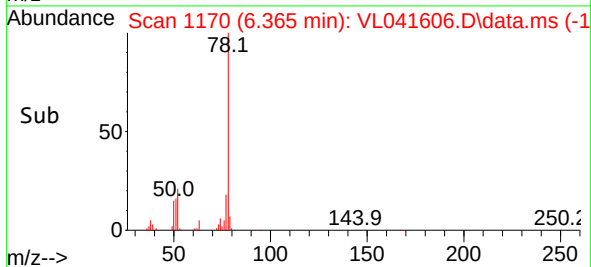
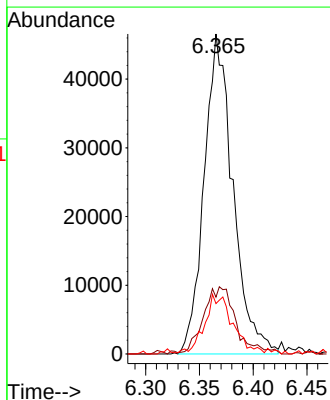
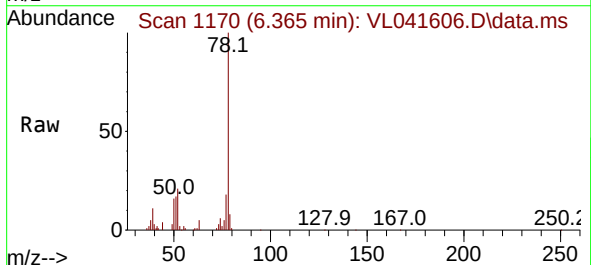
Manual Integrations
APPROVED

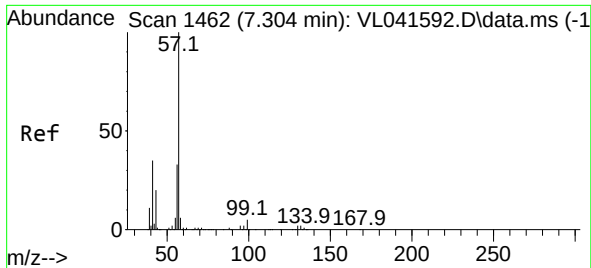
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#36
Benzene
Concen: 0.442 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. 0.019 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

Tgt Ion: 78 Resp: 86709
Ion Ratio Lower Upper
78 100
77 17.4 17.8 26.6#
50 14.1 15.4 23.0#





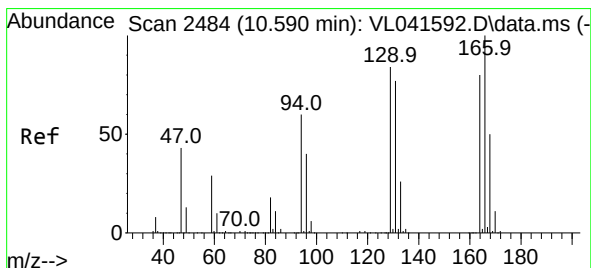
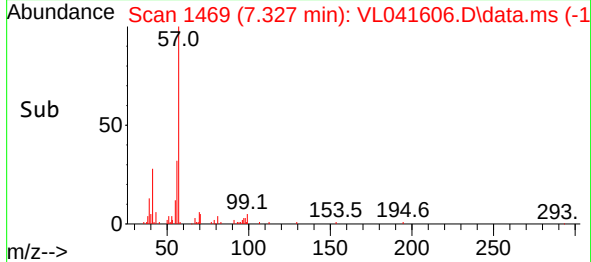
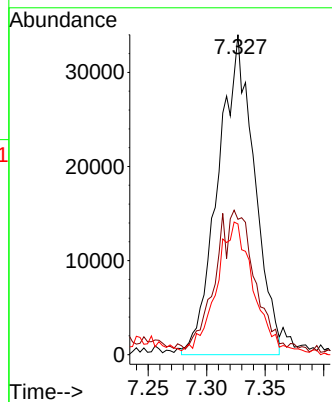
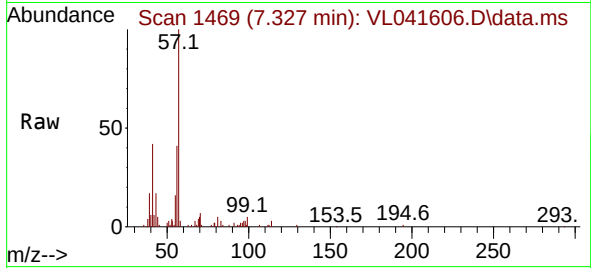
#44
2,2,4-Trimethylpentane
Concen: 0.216 ppbv m
RT: 7.327 min Scan# 1469
Delta R.T. 0.023 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

Instrument : MSVOA_L
ClientSampleId : IA1DUP

Tgt Ion: 57 Resp: 7331
Ion Ratio Lower Upper
57 100
41 51.7 27.0 40.6
56 43.8 25.5 38.3

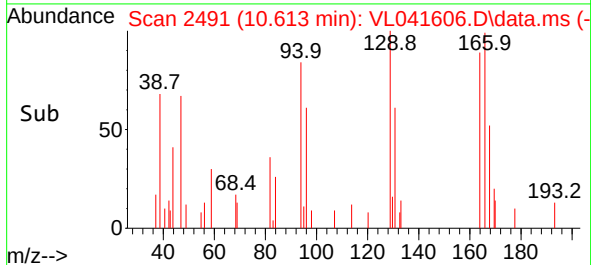
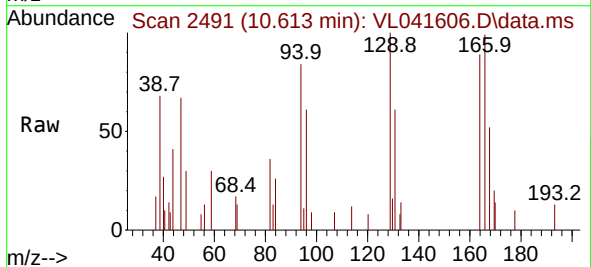
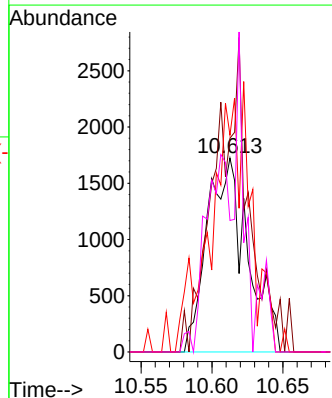
Manual Integrations
APPROVED

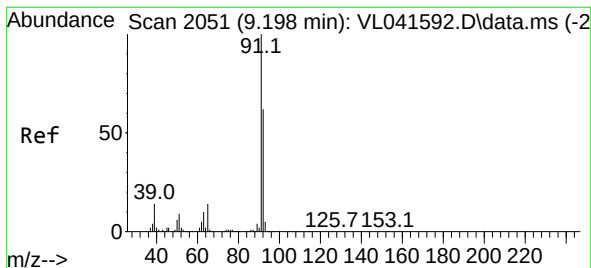
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#52
Tetrachloroethene
Concen: 0.049 ppbv m
RT: 10.613 min Scan# 2491
Delta R.T. 0.023 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

Tgt Ion:164 Resp: 3447
Ion Ratio Lower Upper
164 100
166 110.2 99.4 149.2
129 111.8 83.5 125.3
131 67.8 76.5 114.7#





#53

Toluene

Concen: 1.956 ppbv

RT: 9.217 min Scan# 2051

Delta R.T. 0.019 min

Lab File: VL041606.D

Acq: 18 Sep 2024 14:23

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 91 Resp: 40693

Ion Ratio Lower Upper

91 100

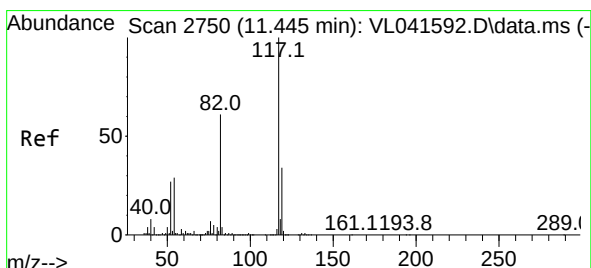
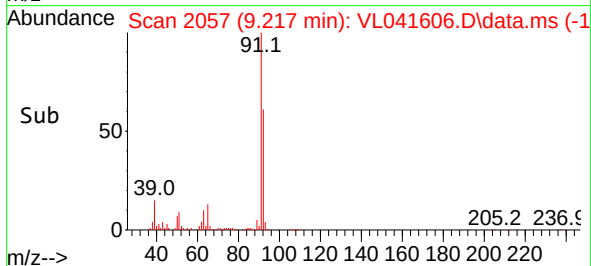
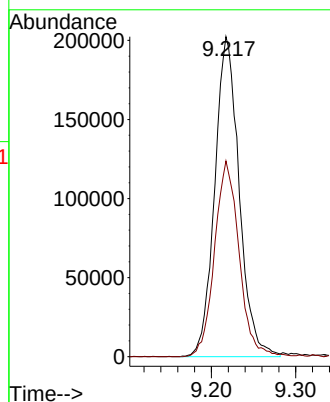
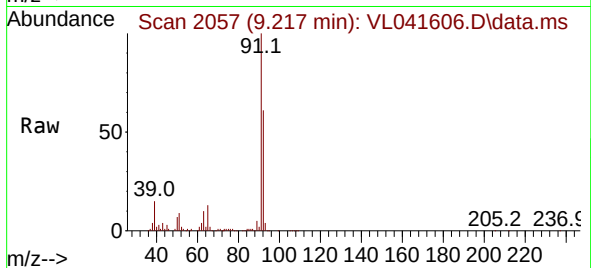
92 62.0 48.9 73.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2024

Supervised By :Mahesh Dadoda 09/19/2024



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.462 min Scan# 2755

Delta R.T. 0.016 min

Lab File: VL041606.D

Acq: 18 Sep 2024 14:23

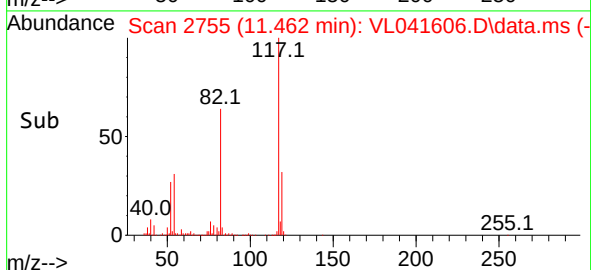
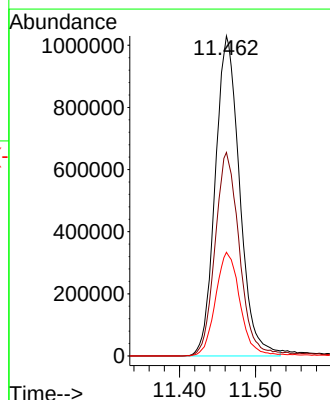
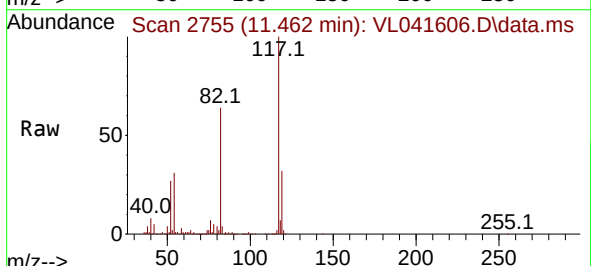
Tgt Ion:117 Resp: 2293493

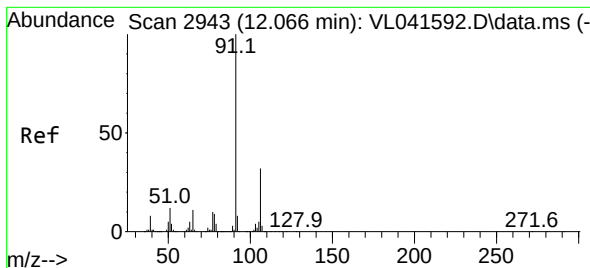
Ion Ratio Lower Upper

117 100

82 65.1 49.4 74.2

119 33.0 24.4 36.6





#58

Ethyl Benzene

Concen: 0.140 ppbv

RT: 12.085 min Scan# 2943

Delta R.T. 0.019 min

Lab File: VL041606.D

Acq: 18 Sep 2024 14:23

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 91 Resp: 34289

Ion Ratio Lower Upper

91 100

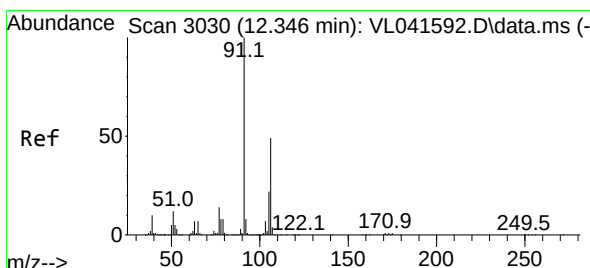
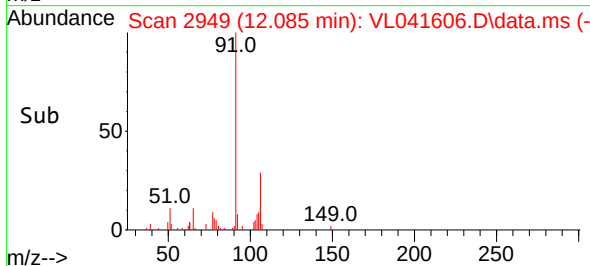
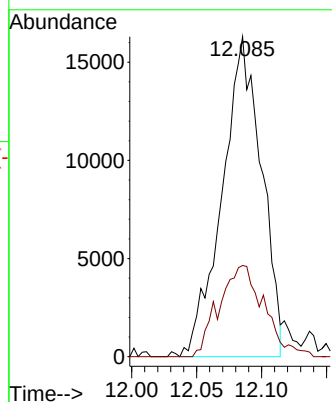
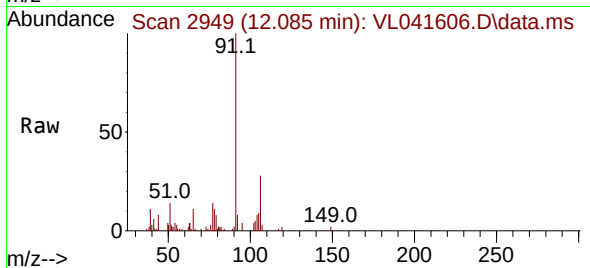
106 28.5 25.8 38.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2024

Supervised By :Mahesh Dadoda 09/19/2024



#59

m/p-Xylene

Concen: 0.555 ppbv m

RT: 12.343 min Scan# 3029

Delta R.T. -0.003 min

Lab File: VL041606.D

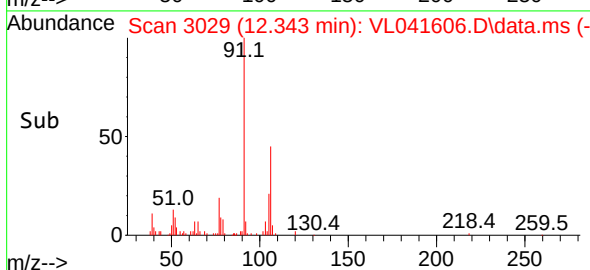
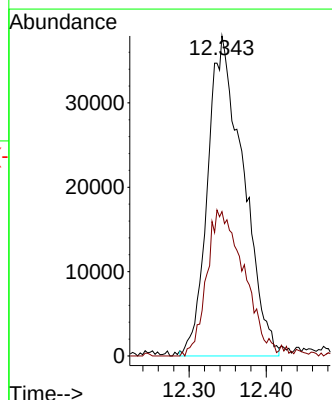
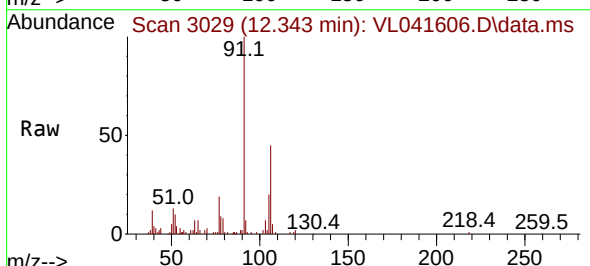
Acq: 18 Sep 2024 14:23

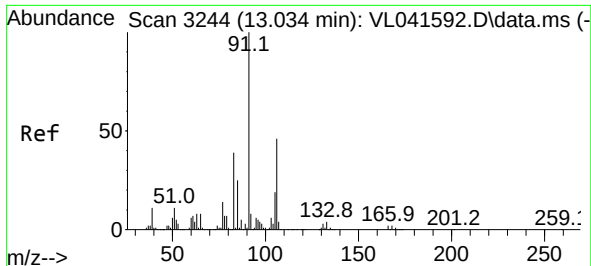
Tgt Ion: 91 Resp: 121273

Ion Ratio Lower Upper

91 100

106 0.0 36.8 55.2#





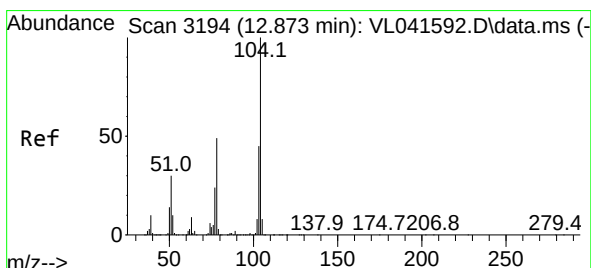
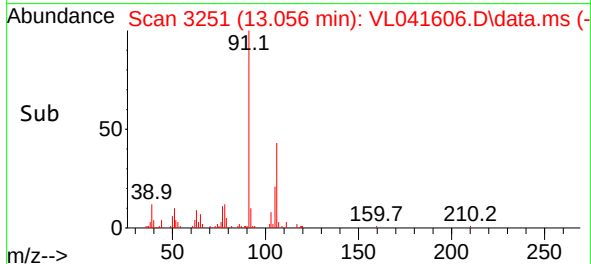
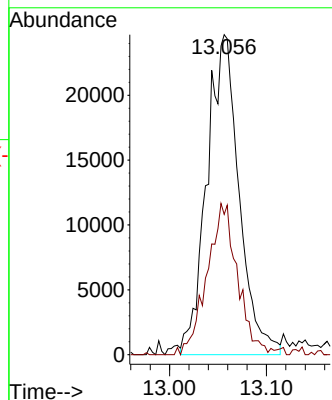
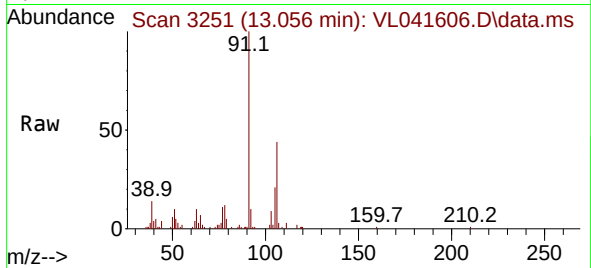
#60
o-Xylene
Concen: 0.272 ppbv m
RT: 13.056 min Scan# 3196
Delta R.T. 0.023 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 57078
Ion Ratio Lower Upper
91 100
106 45.8 23.1 69.3

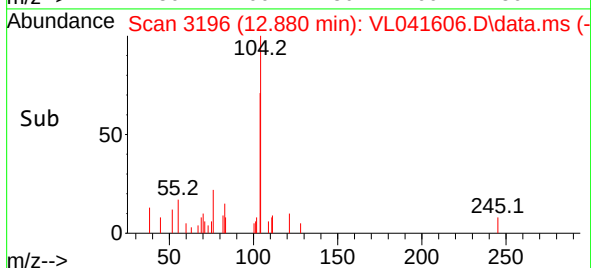
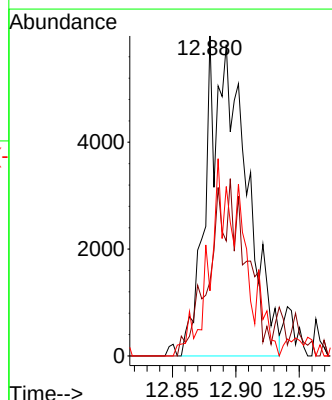
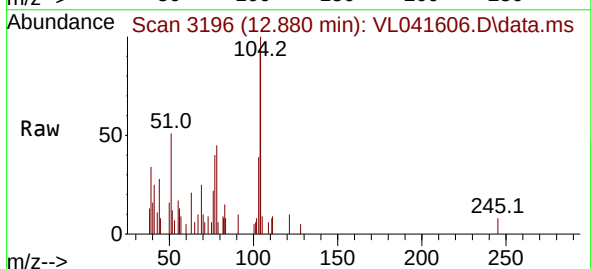
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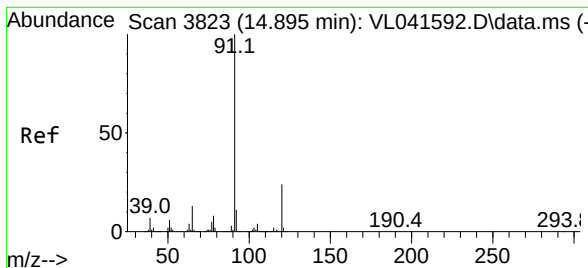
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#61
Styrene
Concen: 0.146 ppbv m
RT: 12.880 min Scan# 3196
Delta R.T. 0.006 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

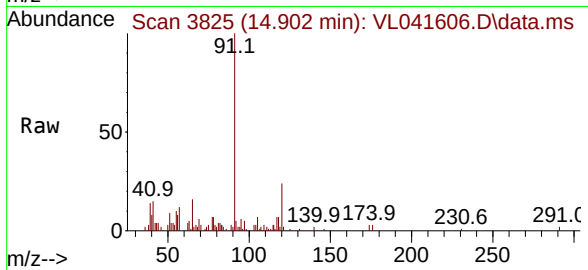
Tgt Ion:104 Resp: 12760
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 37.4 56.0#





#64
n-propylbenzene
Concen: 0.127 ppbv m
RT: 14.902 min Scan# 3825
Delta R.T. 0.006 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

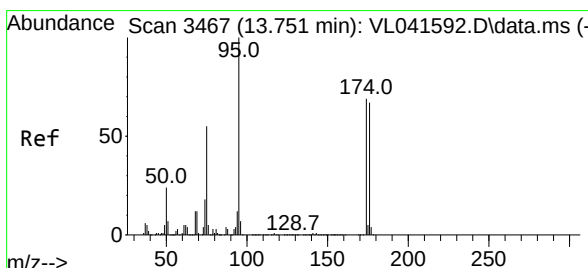
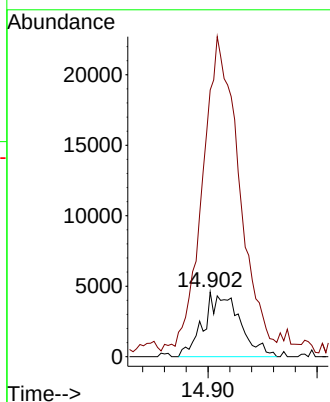
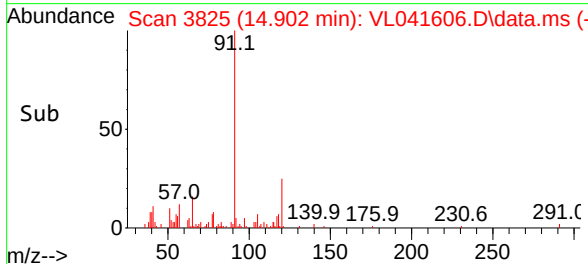
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



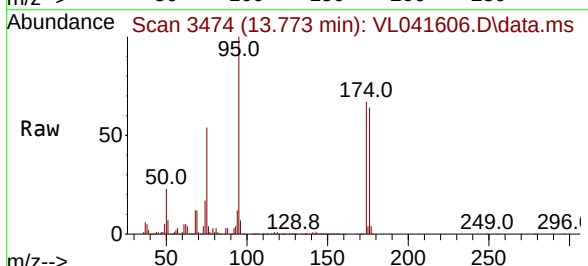
Tgt Ion:120 Resp: 10402
Ion Ratio Lower Upper
120 100
91 0.0 366.4 549.6

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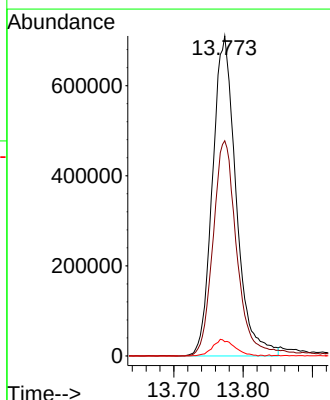
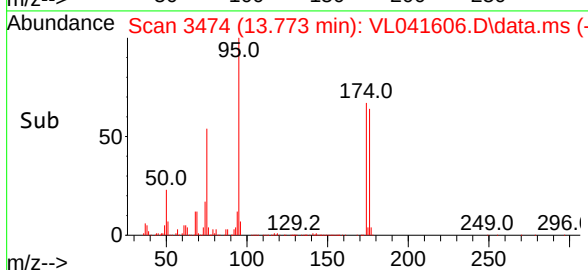
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024

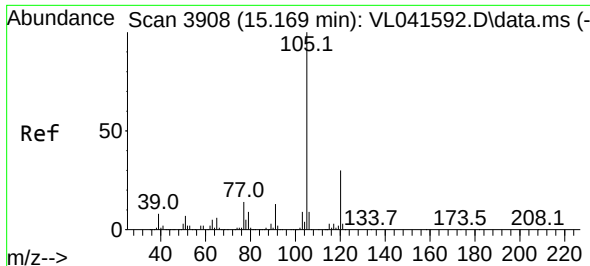


#68
1-Bromo-4-Fluorobenzene
Concen: 9.969 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. 0.023 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23



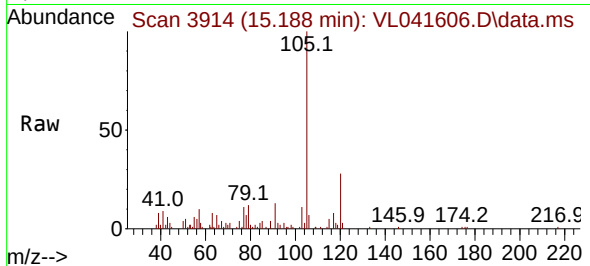
Tgt Ion: 95 Resp: 1683058
Ion Ratio Lower Upper
95 100
174 69.9 55.8 83.8
175 5.0 4.1 6.1





#72
4-Ethyltoluene
Concen: 0.195 ppbv
RT: 15.188 min Scan# 3914
Delta R.T. 0.019 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23

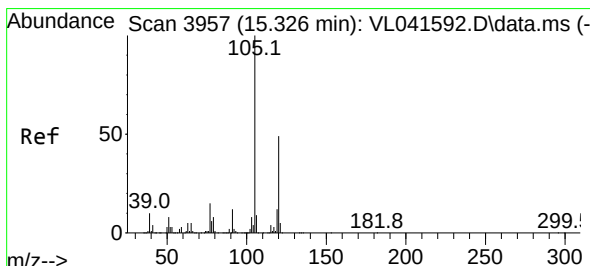
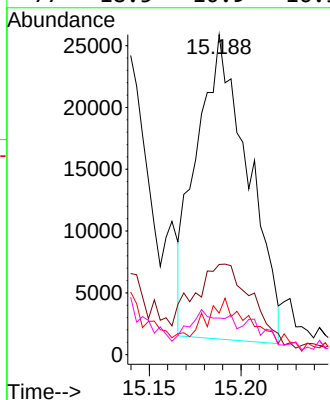
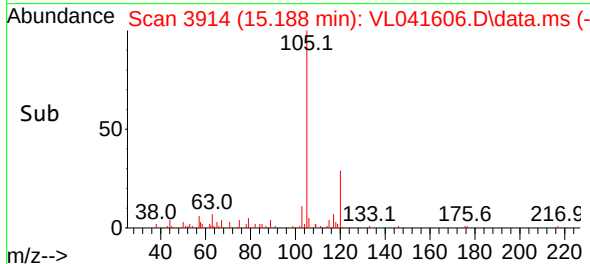
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



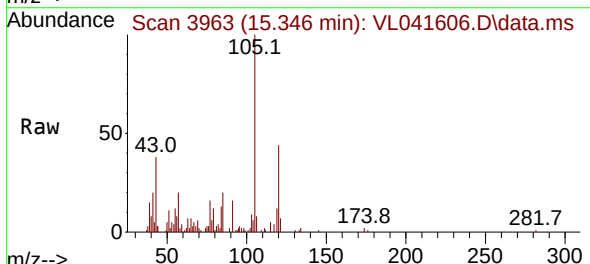
Tgt Ion:105 Resp: 4785
Ion Ratio Lower Upper
105 100
120 39.0 24.1 36.1
91 19.1 10.2 15.2
77 18.5 10.9 16.3

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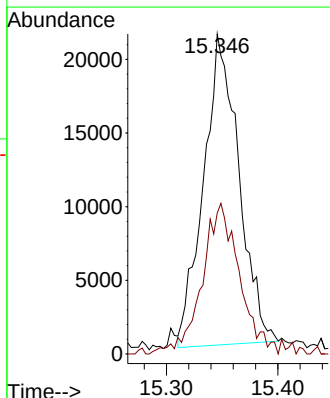
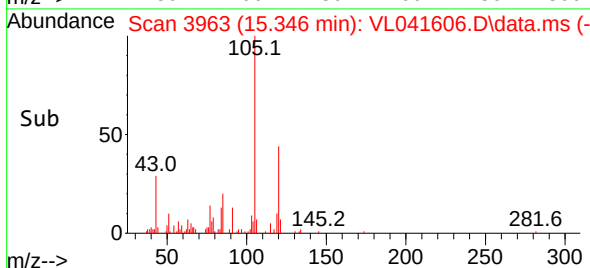
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024

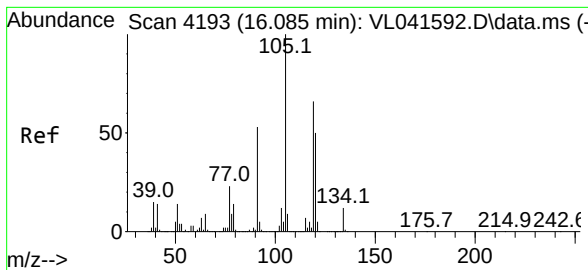


#73
1,3,5-Trimethylbenzene
Concen: 0.215 ppbv
RT: 15.346 min Scan# 3963
Delta R.T. 0.019 min
Lab File: VL041606.D
Acq: 18 Sep 2024 14:23



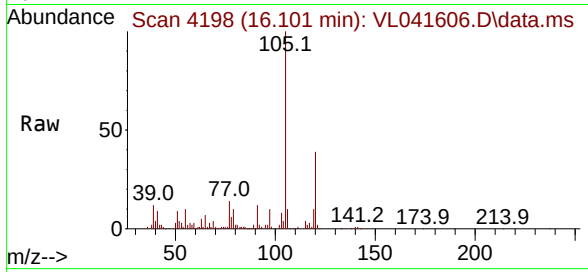
Tgt Ion:105 Resp: 46456
Ion Ratio Lower Upper
105 100
120 45.9 39.4 59.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.801 ppbv m
 RT: 16.101 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL041606.D
 Acq: 18 Sep 2024 14:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion:	105	Resp:	20284
Ion	Ratio	Lower	Upper
105	100		
120	38.6	39.9	59.9
91	12.4	42.6	63.8
77	14.4	18.2	27.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2024
 Supervised By :Mahesh Dadoda 09/19/2024

