

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040715.D
 Acq On : 19 Sep 2023 1:46
 Operator : SY/MD
 Sample : 04495-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENT

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2023
 Supervised By : Mahesh Dadoda 09/19/2023

Quant Time: Sep 19 05:25:29 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

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

QLast Update : Tue Sep 19 05:12:43 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	1304095	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3548933	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2956482	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2163708	9.472	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.700%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.738	85	124317	0.433	ppbv	95
3) Chlorodifluoromethane	2.684	51	291968	1.374	ppbv	91
4) Chloromethane	2.825	50	46734	0.575	ppbv	94
9) Propene	2.716	41	249271	4.073	ppbv #	58
11) Trichlorofluoromethane	3.571	101	60785	0.241	ppbv	95
13) Ethanol	3.246	45	830525	45.846	ppbv	96
15) Acetone	3.471	43	5520316	32.092	ppbv	93
17) tert-Butyl alcohol	3.896	59	70391	0.399	ppbv	99
19) Isopropyl Alcohol	3.587	45	841370	8.118	ppbv #	93
20) Methylene Chloride	3.944	84	134774	1.456	ppbv	94
26) Hexane	5.217	57	277792	2.118	ppbv #	46
29) Chloroform	5.282	83	89239	0.394	ppbv	91
34) 2-Butanone	4.796	43	244770	1.371	ppbv	93
35) Carbon Tetrachloride	6.500	117	13399m	0.055	ppbv	
36) Benzene	6.378	78	53945	0.205	ppbv #	83
53) Toluene	9.230	91	222249	0.801	ppbv	98
58) Ethyl Benzene	12.095	91	449410	1.333	ppbv	98
59) m/p-Xylene	12.349	91	1821978	5.756	ppbv	94
60) o-Xylene	13.063	91	704185	2.333	ppbv	99
61) Styrene	12.908	104	121726	0.962	ppbv	95
72) 4-Ethyltoluene	15.198	105	437193	1.292	ppbv	98
73) 1,3,5-Trimethylbenzene	15.355	105	456346	1.497	ppbv	94
74) 1,2,4-Trimethylbenzene	16.114	105	1550890	4.174	ppbv #	64

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

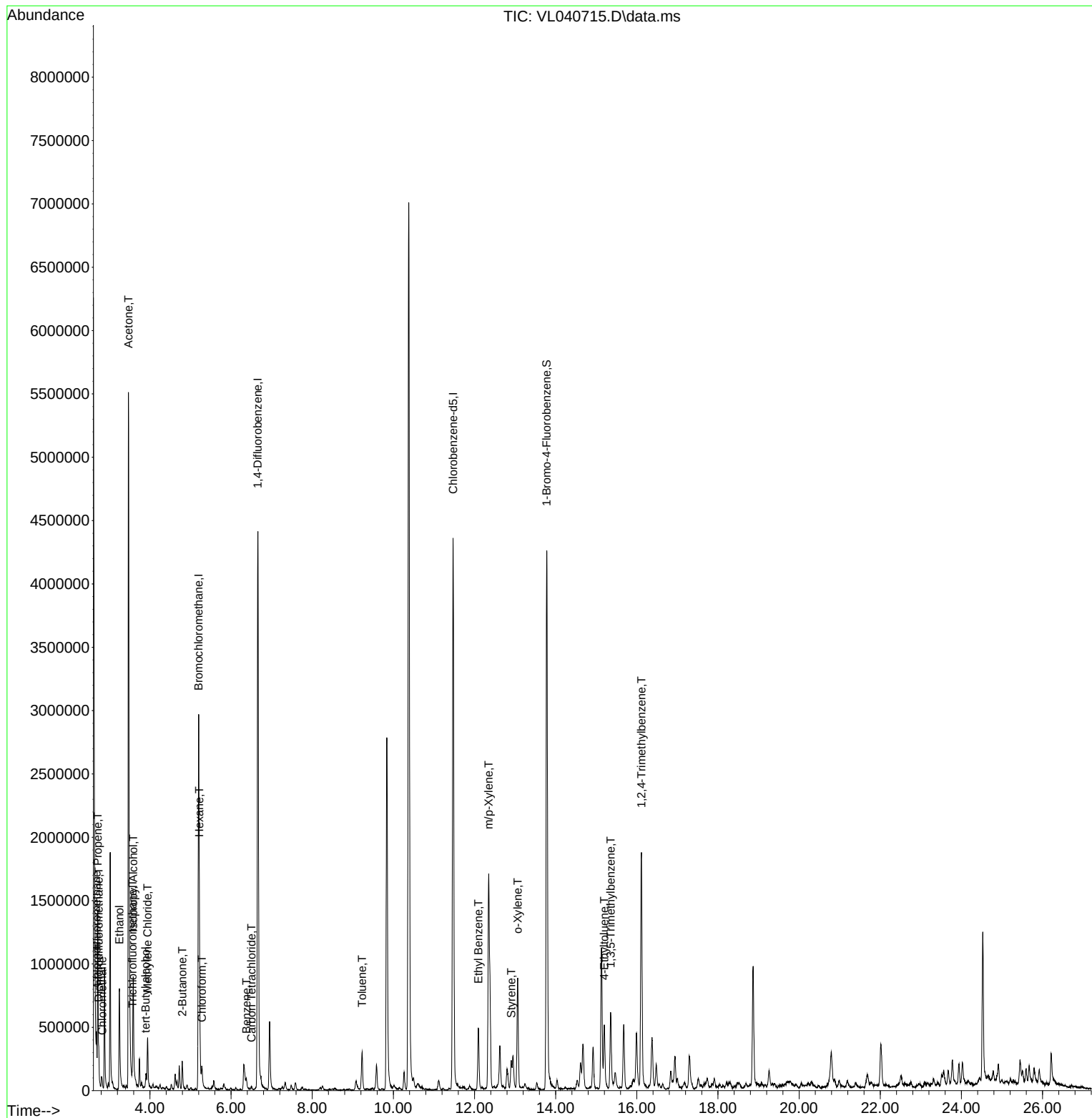
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
Data File : VL040715.D
Acq On : 19 Sep 2023 1:46
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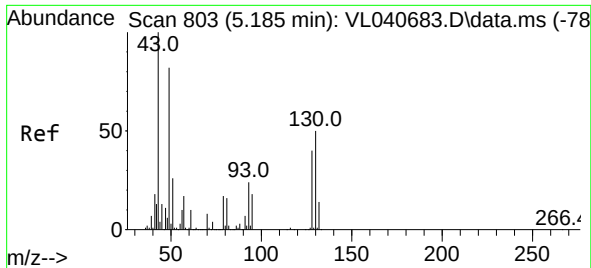
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT

Quant Time: Sep 19 05:25:29 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

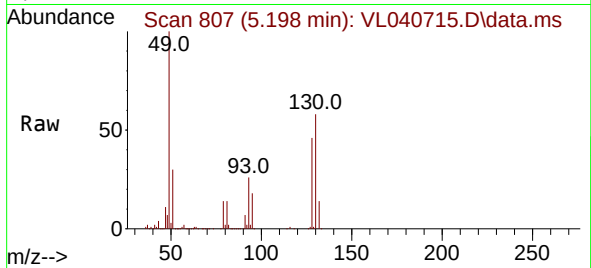
Reviewed By : Semsettin Yesilyurt 09/19/2023
Supervised By : Mahesh Dadoda 09/19/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

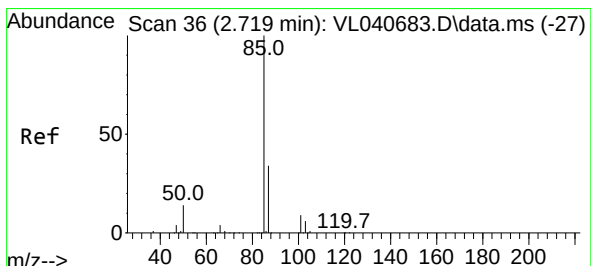
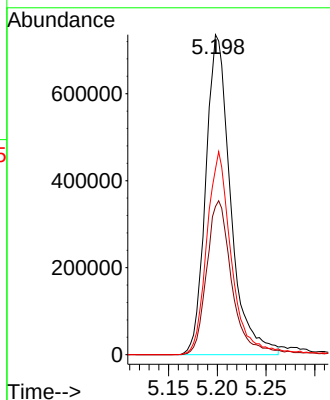
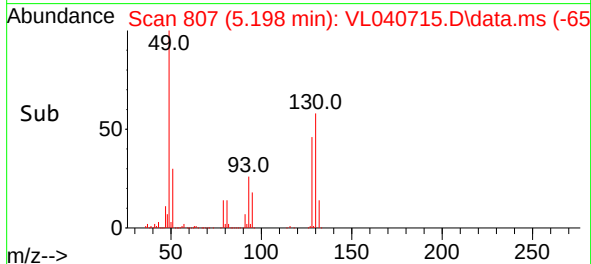
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT



Tgt Ion: 49 Resp: 130409
Ion Ratio Lower Upper
49 100
128 49.5 25.4 76.0
130 64.8 32.3 96.8

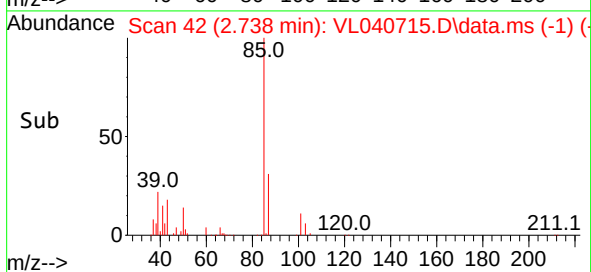
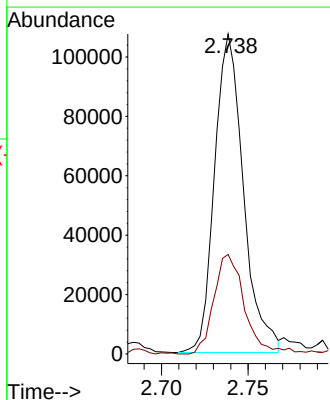
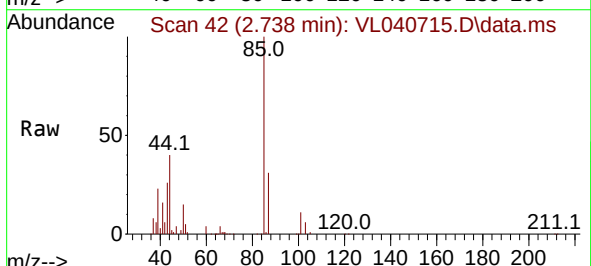
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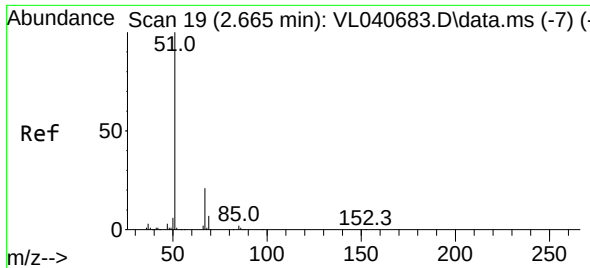
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#2
Dichlorodifluoromethane
Concen: 0.433 ppbv
RT: 2.738 min Scan# 42
Delta R.T. 0.006 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

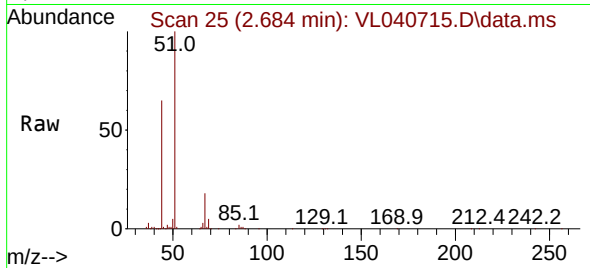
Tgt Ion: 85 Resp: 124317
Ion Ratio Lower Upper
85 100
87 31.2 27.2 40.8





#3
Chlorodifluoromethane
Concen: 1.374 ppbv
RT: 2.684 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

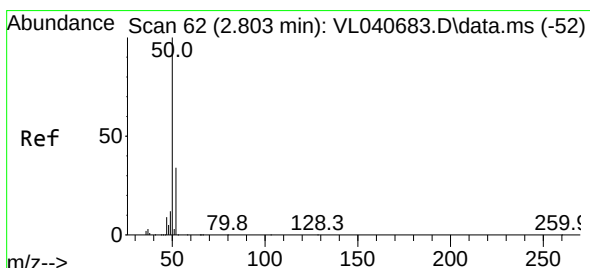
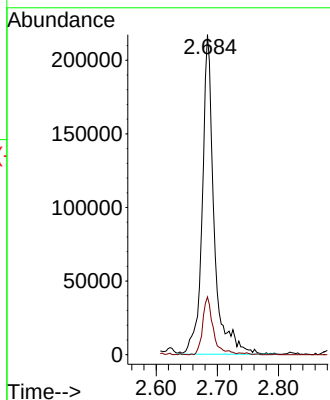
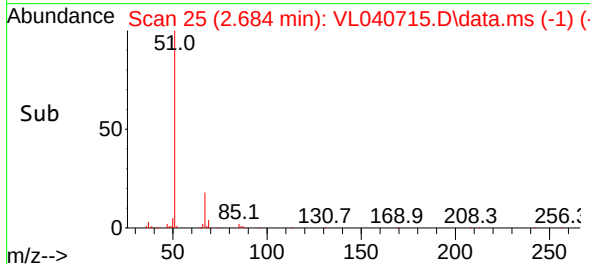
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT



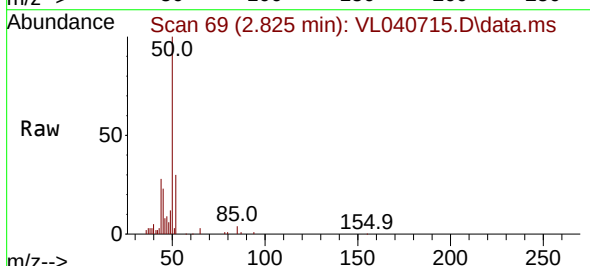
Tgt Ion: 51 Resp: 291968
Ion Ratio Lower Upper
51 100
67 16.7 16.7 25.1

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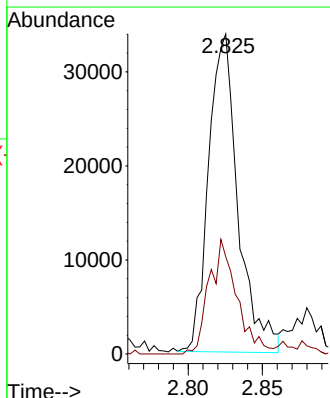
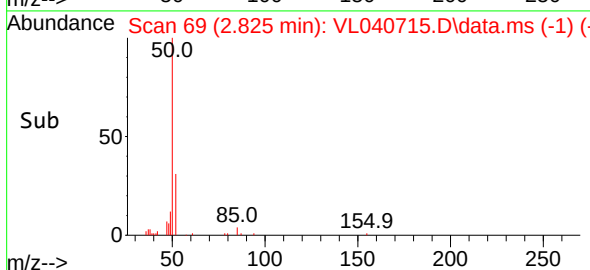
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

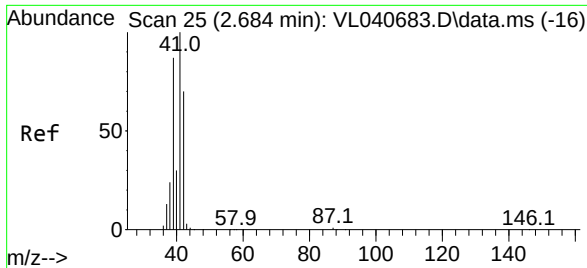


#4
Chloromethane
Concen: 0.575 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.010 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46



Tgt Ion: 50 Resp: 46734
Ion Ratio Lower Upper
50 100
52 30.7 27.1 40.7





#9

Propene

Concen: 4.073 ppbv

RT: 2.716 min Scan# 301

Delta R.T. 0.019 min

Lab File: VL040715.D

Acq: 19 Sep 2023 1:46

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT

Tgt Ion: 41 Resp: 24927

Ion Ratio Lower Upper

41 100

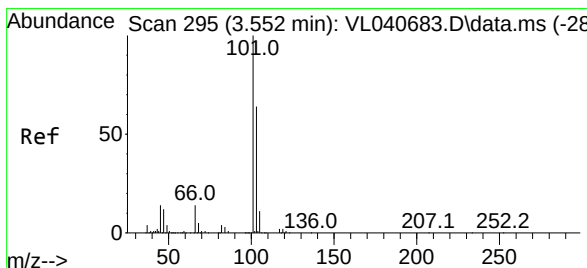
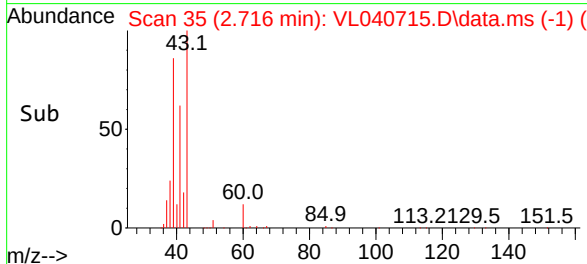
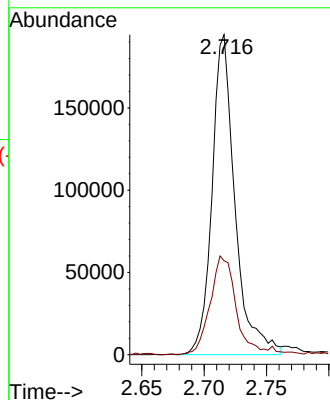
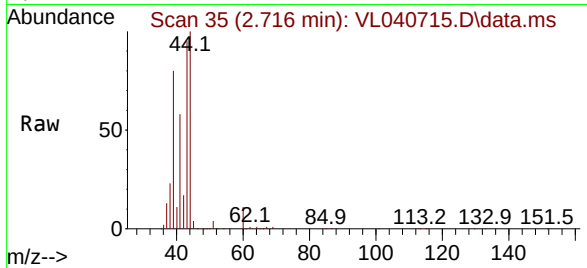
42 36.3 56.7 85.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#11

Trichlorofluoromethane

Concen: 0.241 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.003 min

Lab File: VL040715.D

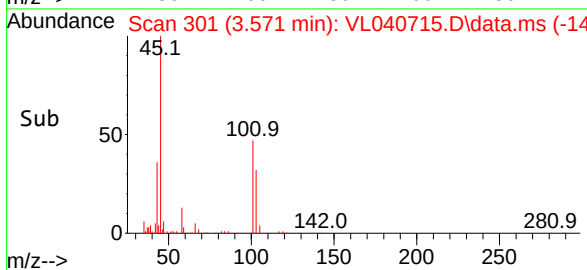
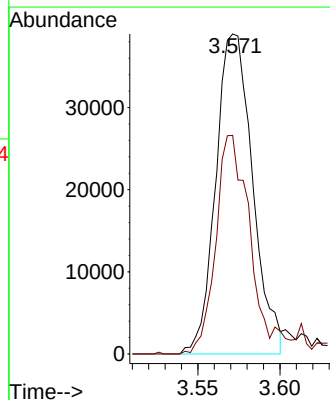
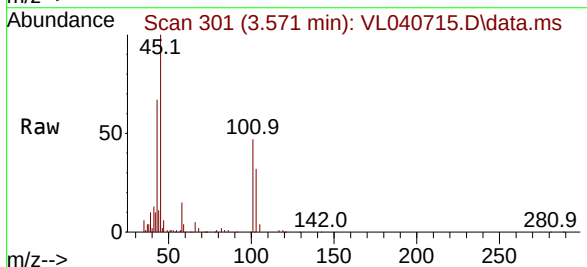
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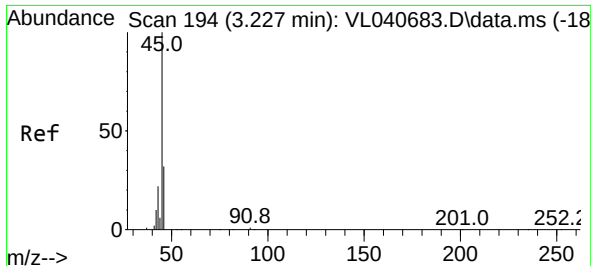
Tgt Ion:101 Resp: 60785

Ion Ratio Lower Upper

101 100

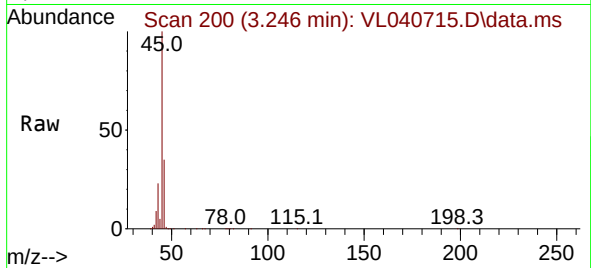
103 68.3 51.3 76.9





#13
Ethanol
Concen: 45.846 ppbv
RT: 3.246 min Scan# 200
Delta R.T. 0.003 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

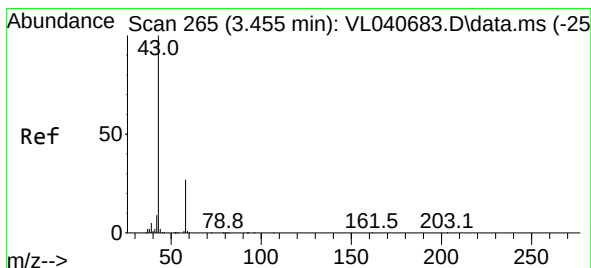
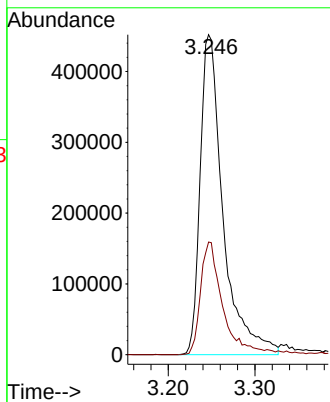
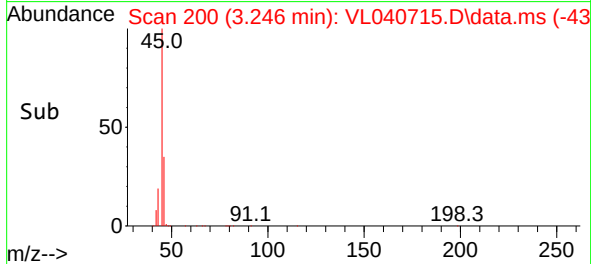
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT



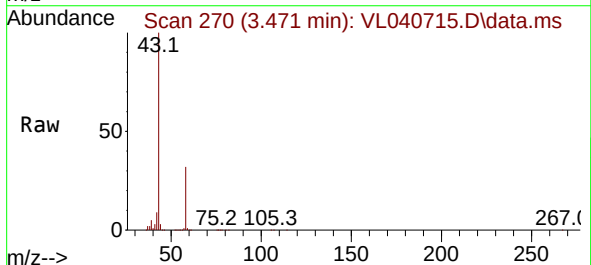
Tgt Ion: 45 Resp: 830529
Ion Ratio Lower Upper
45 100
46 35.7 15.2 61.0

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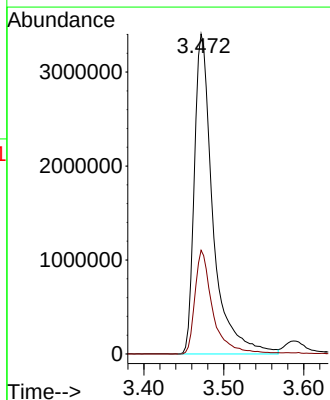
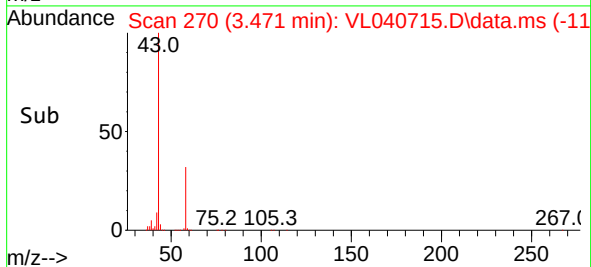
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

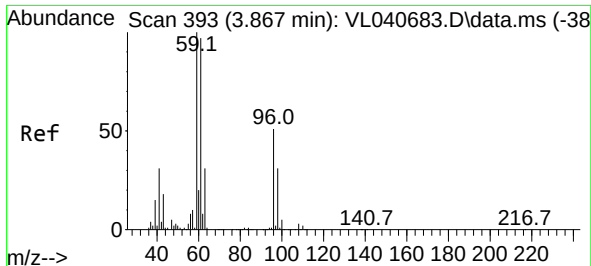


#15
Acetone
Concen: 32.092 ppbv
RT: 3.471 min Scan# 270
Delta R.T. -0.000 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46



Tgt Ion: 43 Resp: 5520316
Ion Ratio Lower Upper
43 100
58 31.9 22.6 34.0





#17

tert-Butyl alcohol

Concen: 0.399 ppbv

RT: 3.896 min Scan# 402

Delta R.T. 0.013 min

Lab File: VL040715.D

Acq: 19 Sep 2023 1:46

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT

Tgt Ion: 59 Resp: 7039

Ion Ratio Lower Upper

59 100

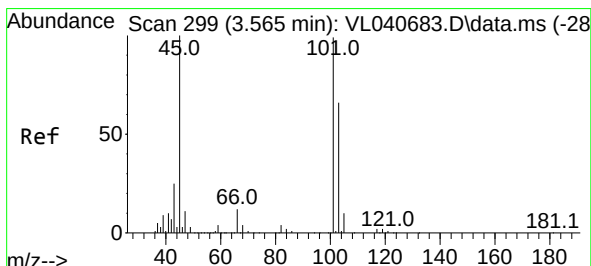
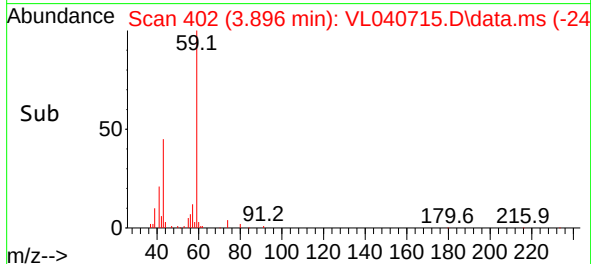
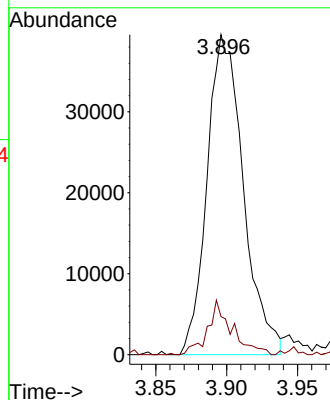
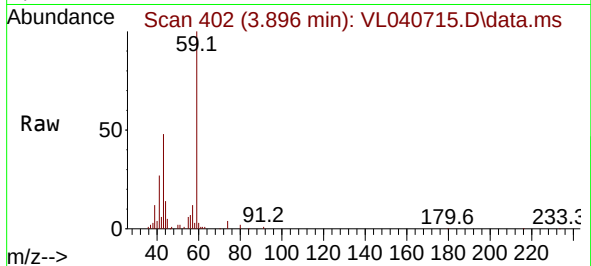
57 11.4 8.7 13.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#19

Isopropyl Alcohol

Concen: 8.118 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.010 min

Lab File: VL040715.D

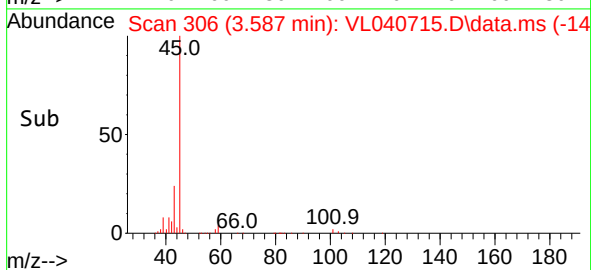
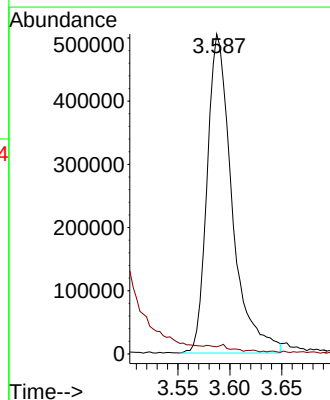
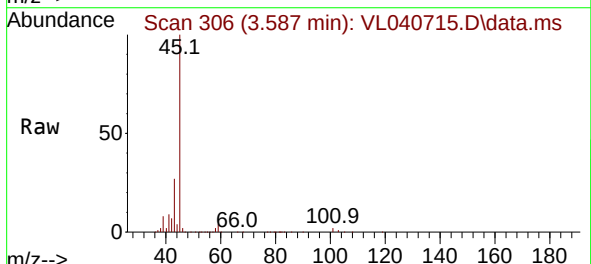
Acq: 19 Sep 2023 1:46

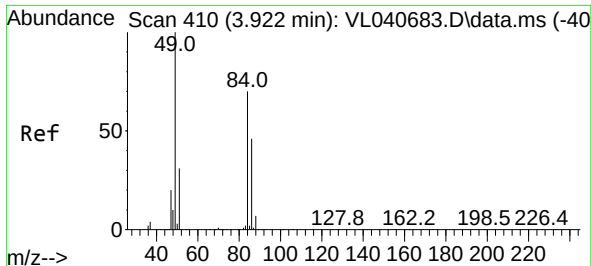
Tgt Ion: 45 Resp: 841370

Ion Ratio Lower Upper

45 100

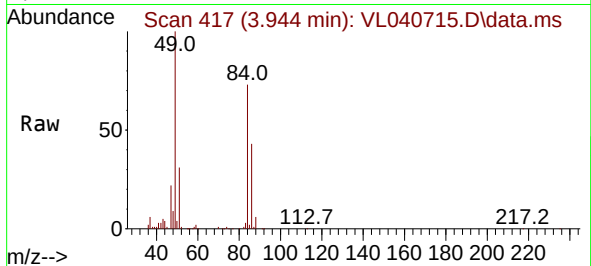
58 0.0 1.9 2.9#





#20
Methylene Chloride
Concen: 1.456 ppbv
RT: 3.944 min Scan# 410
Delta R.T. 0.006 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

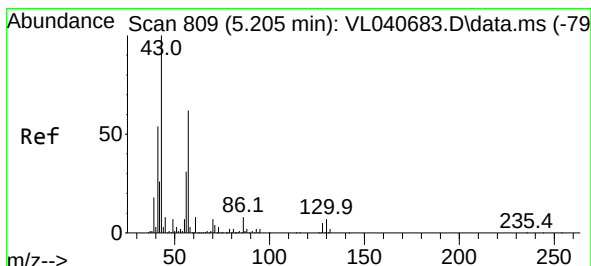
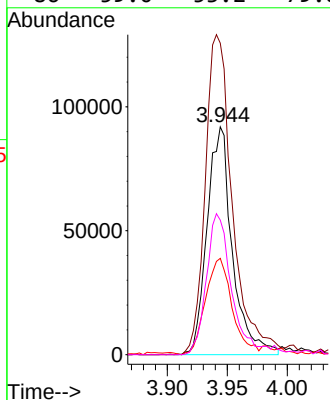
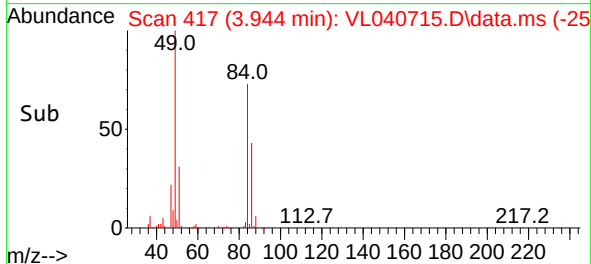
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT



Tgt Ion: 84 Resp: 134774
Ion Ratio Lower Upper
84 100
49 136.5 114.4 171.6
51 42.0 35.5 53.3
86 59.0 53.2 79.8

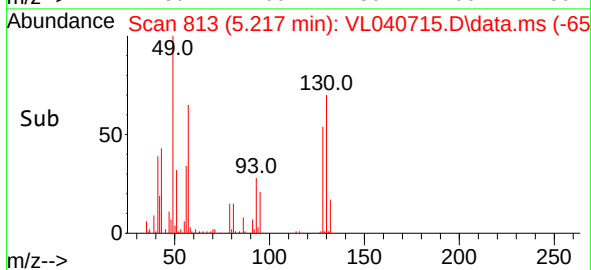
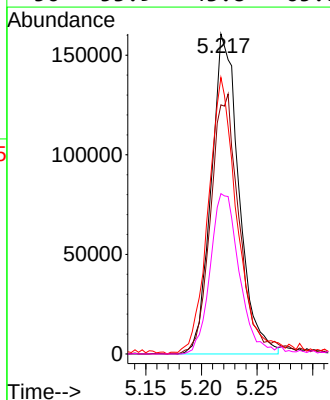
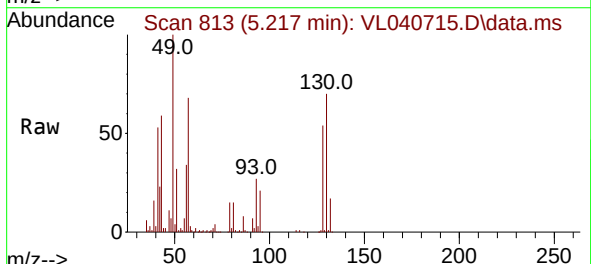
Manual Integrations
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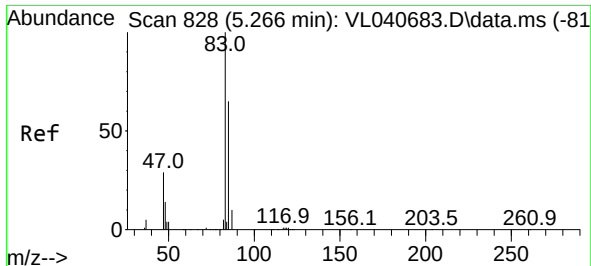
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#26
Hexane
Concen: 2.118 ppbv
RT: 5.217 min Scan# 813
Delta R.T. -0.003 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

Tgt Ion: 57 Resp: 277792
Ion Ratio Lower Upper
57 100
41 87.2 75.2 112.8
43 90.6 185.6 278.4#
56 53.9 43.8 65.8





#29

Chloroform

Concen: 0.394 ppbv

RT: 5.282 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL040715.D

Acq: 19 Sep 2023 1:46

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT

Tgt Ion: 83 Resp: 89239

Ion Ratio Lower Upper

83 100

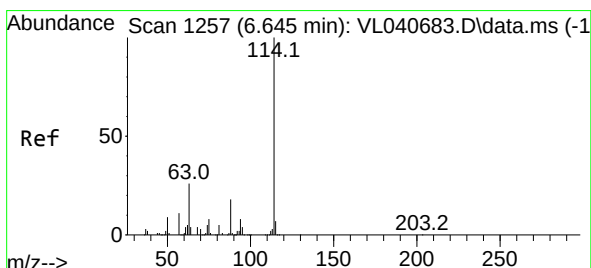
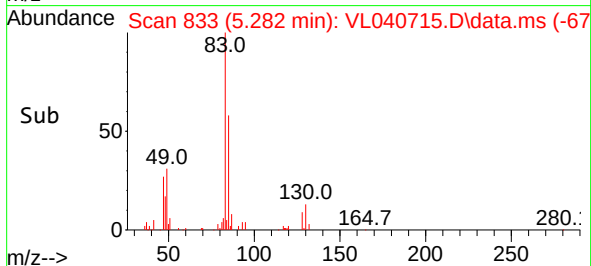
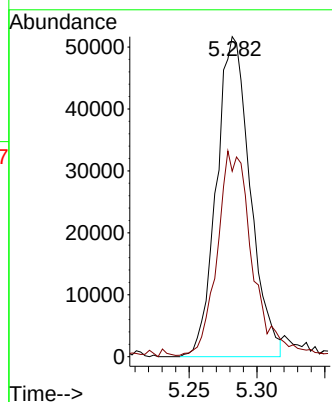
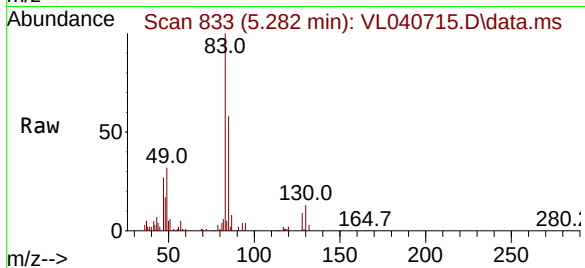
85 57.5 51.8 77.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.003 min

Lab File: VL040715.D

Acq: 19 Sep 2023 1:46

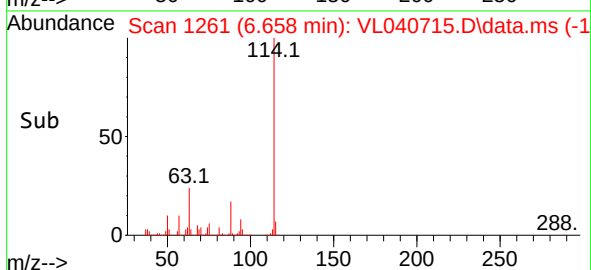
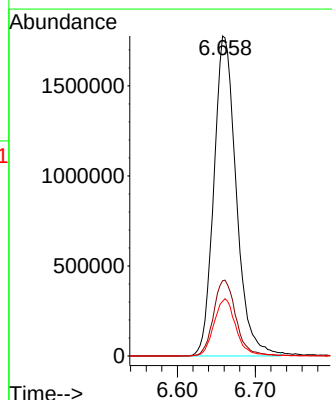
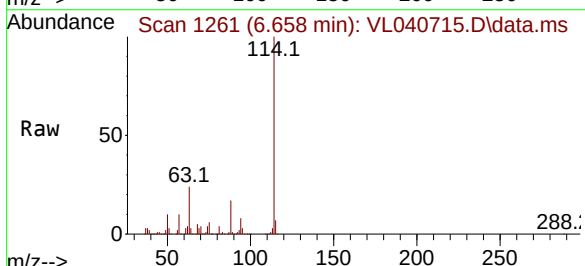
Tgt Ion:114 Resp: 3548933

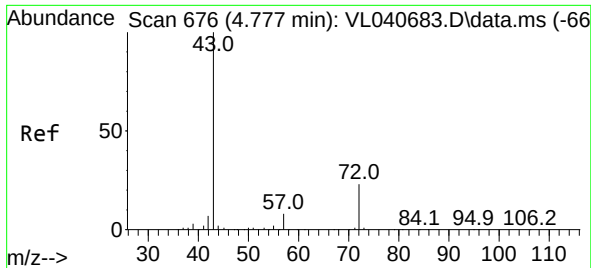
Ion Ratio Lower Upper

114 100

63 24.0 21.1 31.7

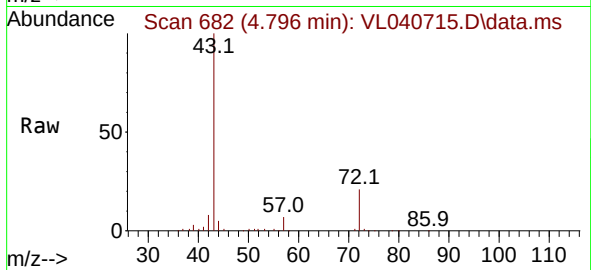
88 17.7 14.5 21.7





#34
2-Butanone
Concen: 1.371 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

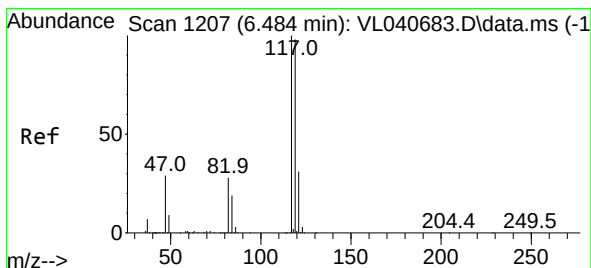
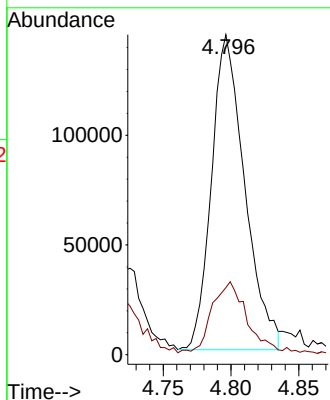
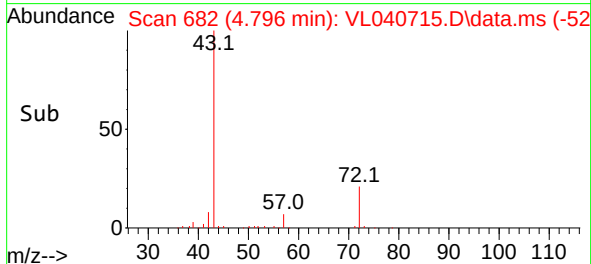
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT



Tgt Ion: 43 Resp: 244770
Ion Ratio Lower Upper
43 100
72 26.7 18.6 27.8

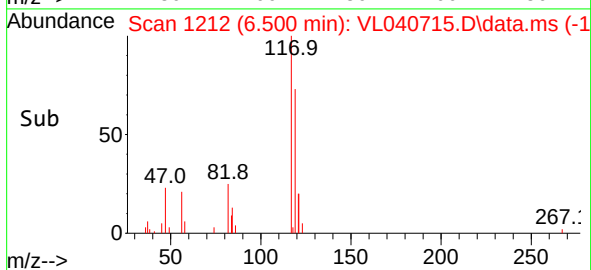
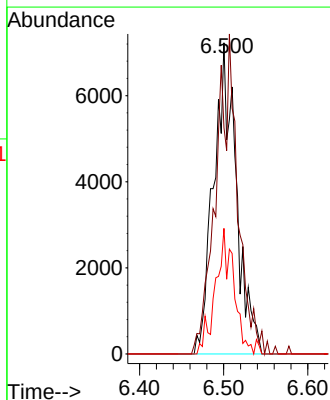
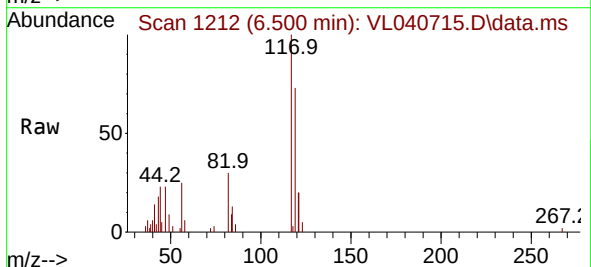
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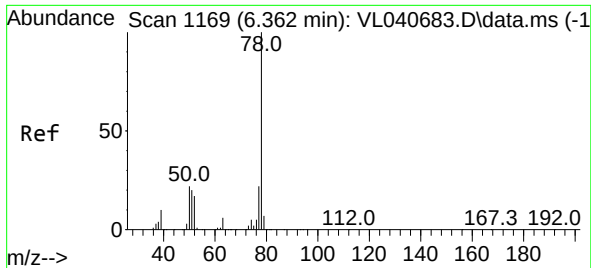
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#35
Carbon Tetrachloride
Concen: 0.055 ppbv m
RT: 6.500 min Scan# 1212
Delta R.T. -0.003 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

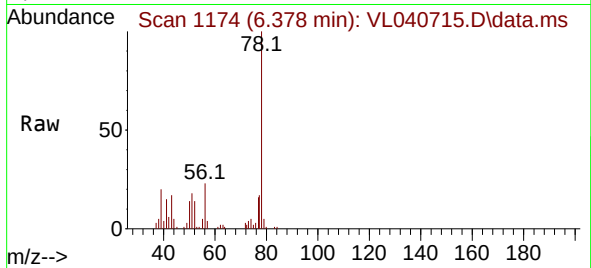
Tgt Ion:117 Resp: 13399
Ion Ratio Lower Upper
117 100
119 72.8 78.6 117.8#
121 20.5 24.7 37.1#





#36
Benzene
Concen: 0.205 ppbv
RT: 6.378 min Scan# 1169
Delta R.T. -0.003 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

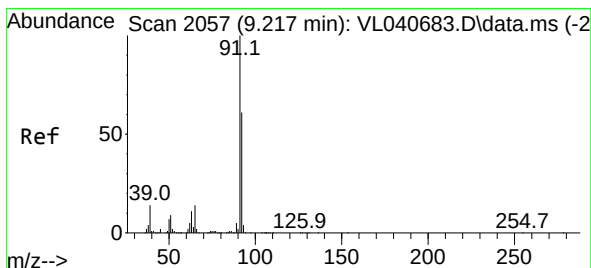
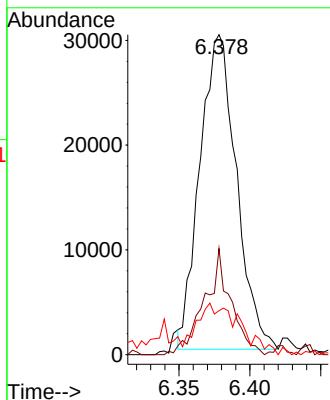
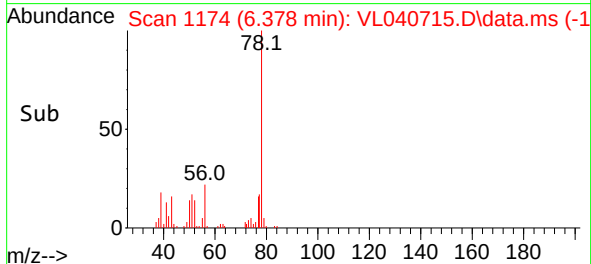
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT



Tgt Ion: 78 Resp: 5394
Ion Ratio Lower Upper
78 100
77 31.0 17.9 26.9
50 14.0 17.3 25.9

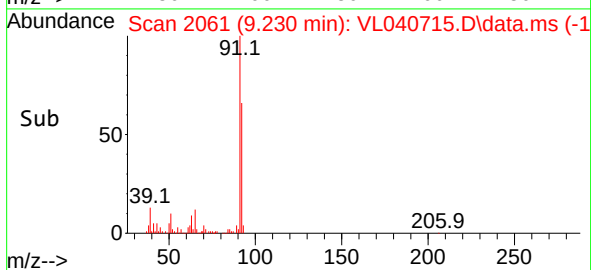
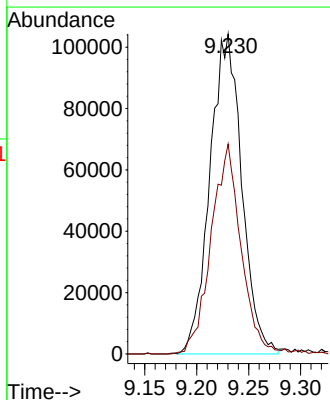
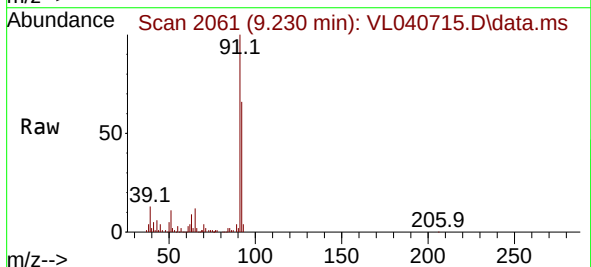
Manual Integrations
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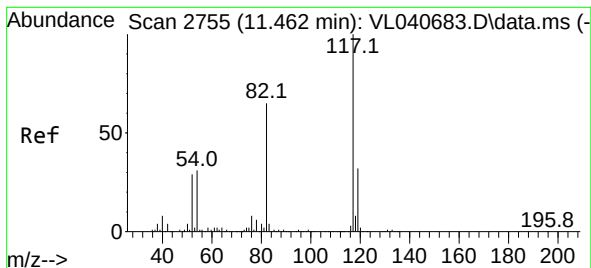
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#53
Toluene
Concen: 0.801 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

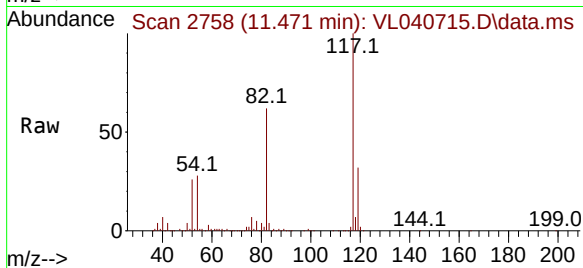
Tgt Ion: 91 Resp: 222249
Ion Ratio Lower Upper
91 100
92 62.2 48.5 72.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

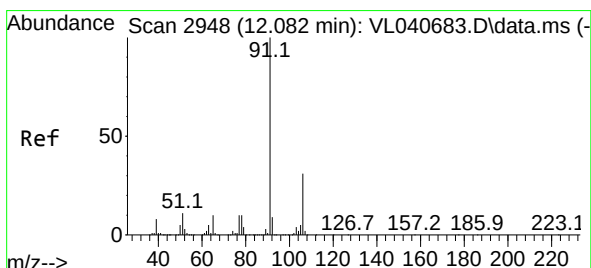
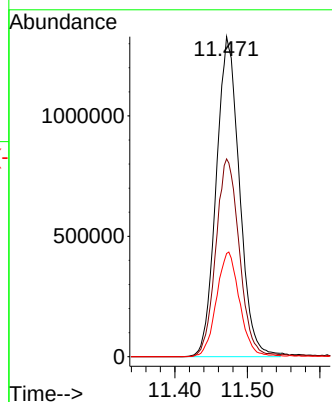
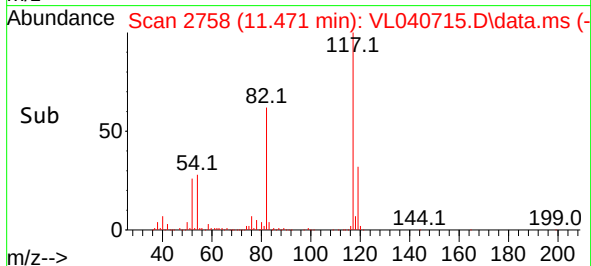
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT



Tgt Ion:117 Resp: 295648
Ion Ratio Lower Upper
117 100
82 63.7 51.4 77.0
119 32.9 24.7 37.1

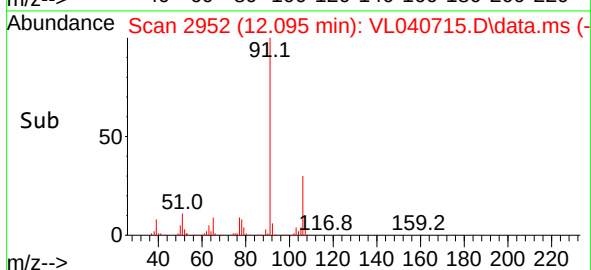
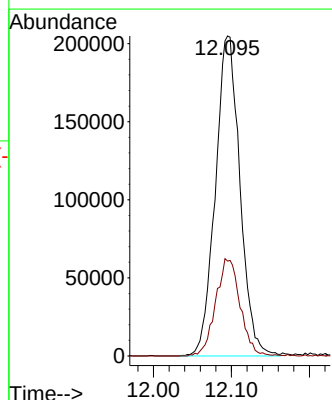
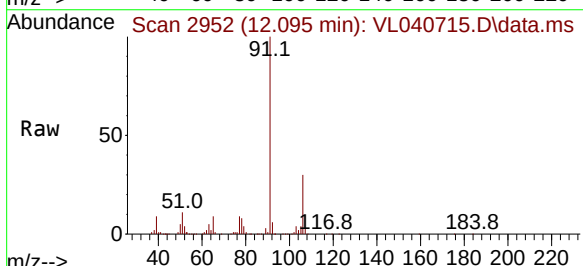
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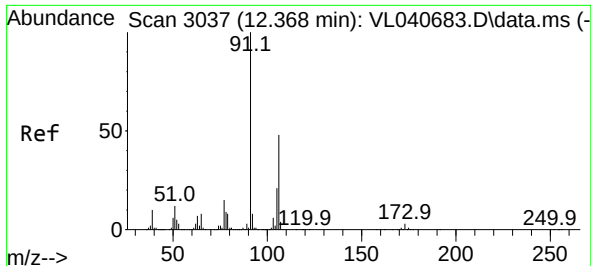
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#58
Ethyl Benzene
Concen: 1.333 ppbv
RT: 12.095 min Scan# 2952
Delta R.T. -0.006 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

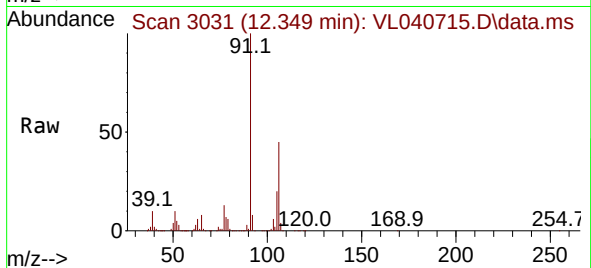
Tgt Ion: 91 Resp: 449410
Ion Ratio Lower Upper
91 100
106 29.7 24.7 37.1





#59
m/p-Xylene
Concen: 5.756 ppbv
RT: 12.349 min Scan# 3031
Delta R.T. -0.032 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

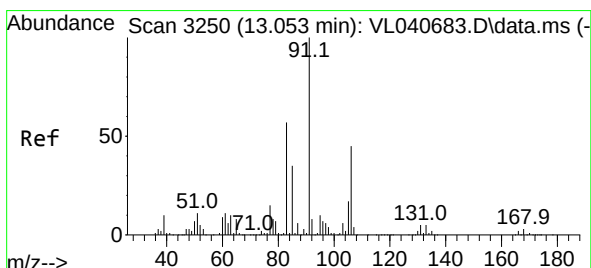
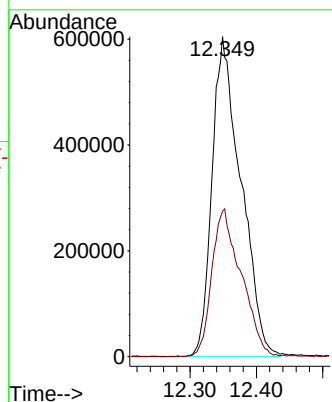
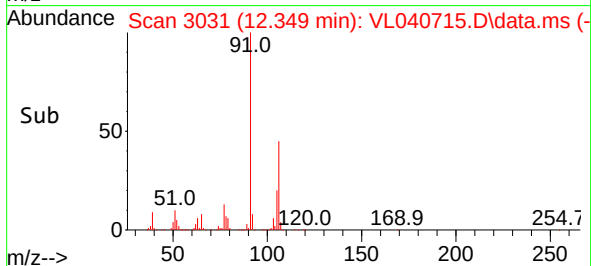
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT



Tgt Ion: 91 Resp: 1821978
Ion Ratio Lower Upper
91 100
106 47.5 34.8 52.2

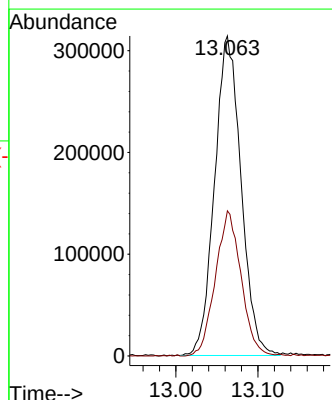
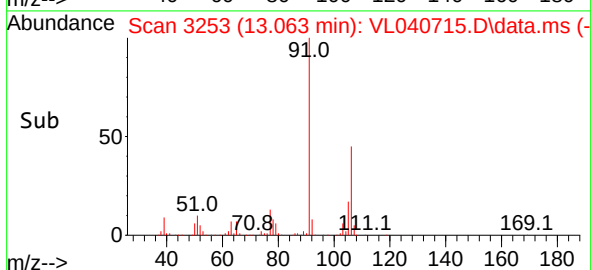
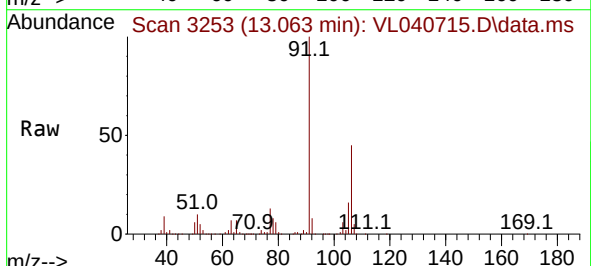
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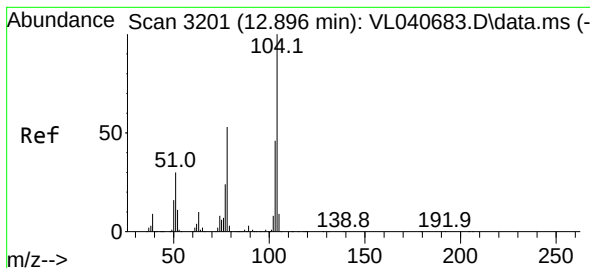
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#60
o-Xylene
Concen: 2.333 ppbv
RT: 13.063 min Scan# 3253
Delta R.T. -0.006 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

Tgt Ion: 91 Resp: 704185
Ion Ratio Lower Upper
91 100
106 44.2 22.3 66.9





#61

Styrene

Concen: 0.962 ppbv

RT: 12.908 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL040715.D

Acq: 19 Sep 2023 1:46

Instrument :

MSVOA_L

ClientSampleId :

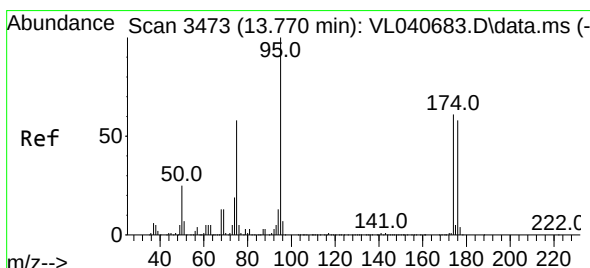
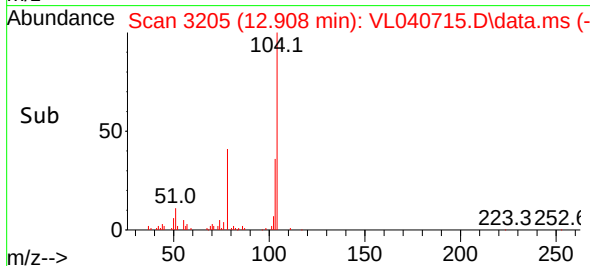
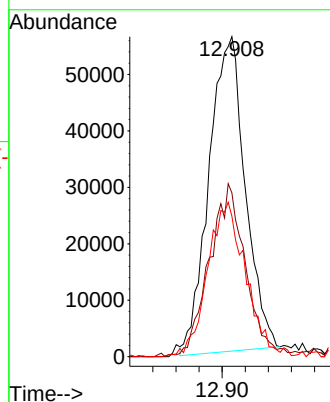
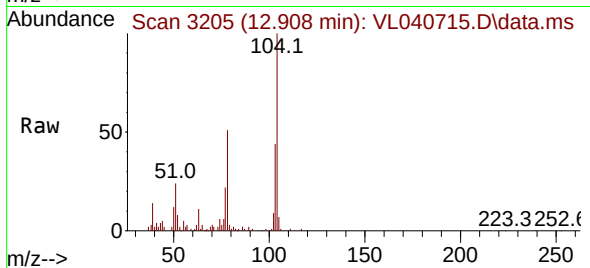
AMBIENT

Tgt Ion:104 Resp: 121720
 Ion Ratio Lower Upper
 104 100
 78 55.1 43.4 65.0
 103 52.1 37.2 55.8

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Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023



#68

1-Bromo-4-Fluorobenzene

Concen: 9.472 ppbv

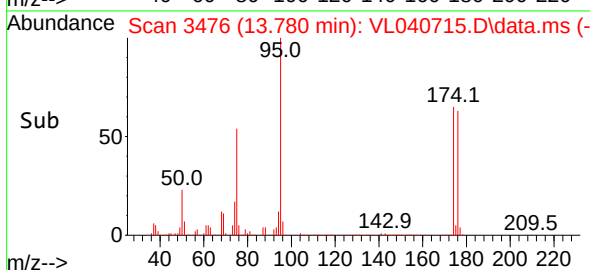
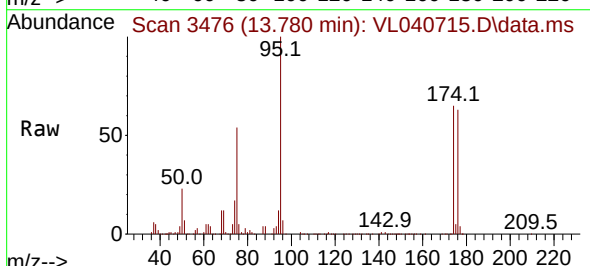
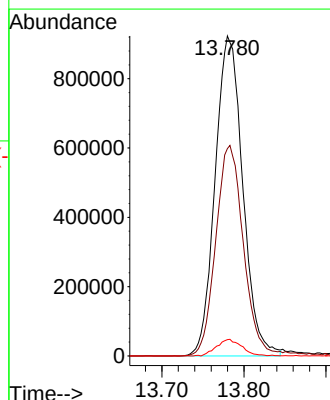
RT: 13.780 min Scan# 3476

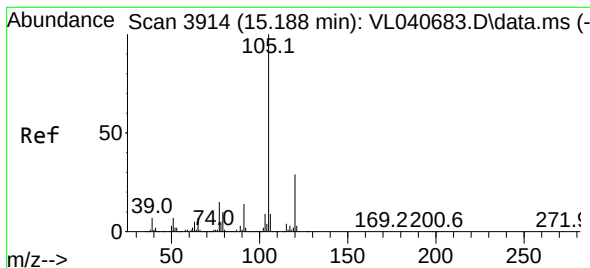
Delta R.T. -0.006 min

Lab File: VL040715.D

Acq: 19 Sep 2023 1:46

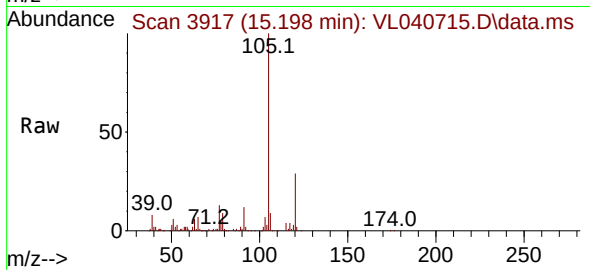
Tgt Ion: 95 Resp: 2163708
 Ion Ratio Lower Upper
 95 100
 174 66.6 48.9 73.3
 175 4.9 3.5 5.3





#72
4-Ethyltoluene
Concen: 1.292 ppbv
RT: 15.198 min Scan# 3917
Delta R.T. -0.003 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46

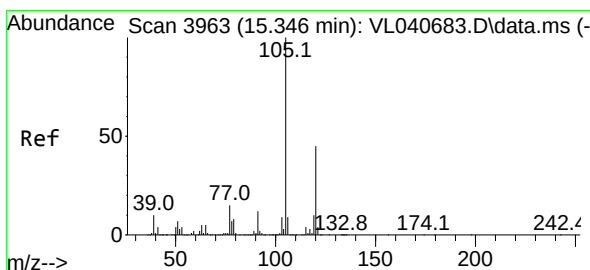
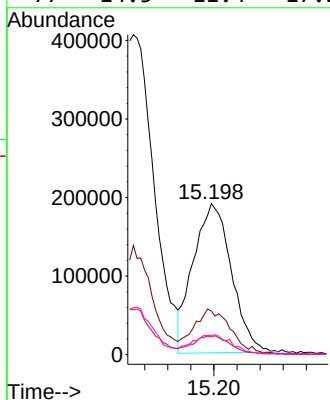
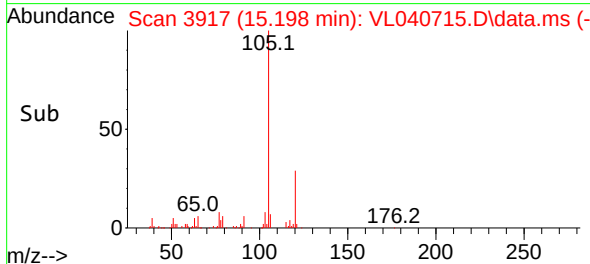
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT



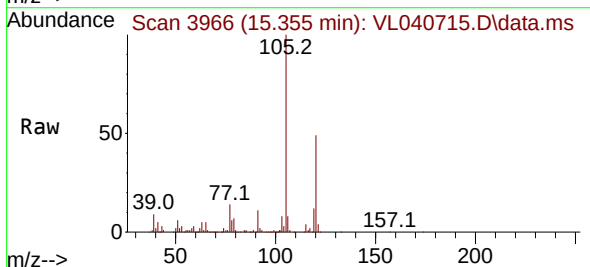
Tgt Ion:105 Resp: 43719
Ion Ratio Lower Upper
105 100
120 31.5 23.9 35.9
91 12.9 11.0 16.4
77 14.5 11.4 17.2

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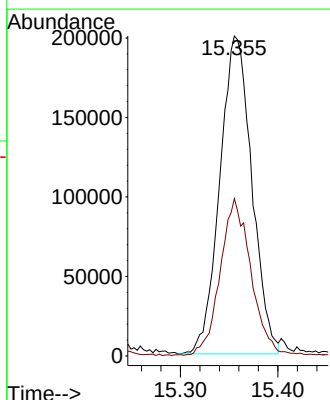
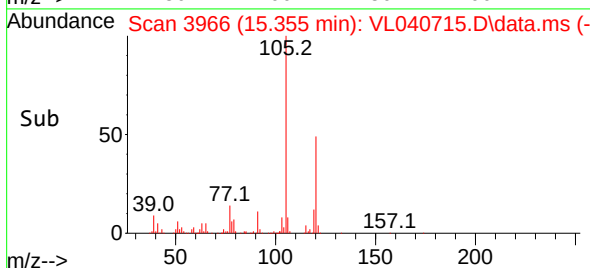
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

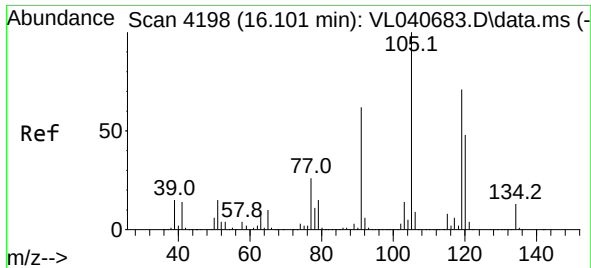


#73
1,3,5-Trimethylbenzene
Concen: 1.497 ppbv
RT: 15.355 min Scan# 3966
Delta R.T. -0.006 min
Lab File: VL040715.D
Acq: 19 Sep 2023 1:46



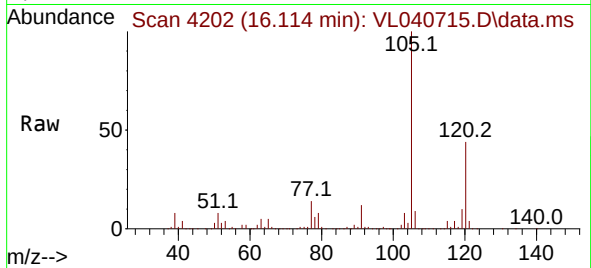
Tgt Ion:105 Resp: 456346
Ion Ratio Lower Upper
105 100
120 49.1 36.1 54.1





#74
 1,2,4-Trimethylbenzene
 Concen: 4.174 ppbv
 RT: 16.114 min Scan# 4198
 Delta R.T. -0.003 min
 Lab File: VL040715.D
 Acq: 19 Sep 2023 1:46

Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENT



Tgt Ion:105 Resp: 1550890
 Ion Ratio Lower Upper
 105 100
 120 44.4 38.6 57.8
 91 11.8 50.0 75.0
 77 13.9 20.6 31.0#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023

