

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050224\
 Data File : VL041197.D
 Acq On : 2 May 2024 15:54
 Operator : SY/MD
 Sample : P2334-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-SS02-20240425

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/06/2024
 Supervised By : Mahesh Dadoda 05/07/2024

Quant Time: May 03 03:41:04 2024

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

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

QLast Update : Fri May 03 03:34:47 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	873352	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2260054	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2090424	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.783 95 1576767 9.991 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.735	85	45755	0.387	ppbv	98
4) Chloromethane	2.819	50	12479	0.240	ppbv #	79
9) Propene	2.706	41	62260m	1.199	ppbv	
10) Heptane	7.587	43	34815	0.277	ppbv	97
11) Trichlorofluoromethane	3.565	101	31090	0.259	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.070	101	6938m	0.078	ppbv	
13) Ethanol	3.243	45	148718	12.780	ppbv	94
15) Acetone	3.475	43	474729	4.606	ppbv	95
17) tert-Butyl alcohol	3.890	59	13647m	0.123	ppbv	
19) Isopropyl Alcohol	3.584	45	55050m	0.814	ppbv	
20) Methylene Chloride	3.938	84	2074202	57.870	ppbv	96
26) Hexane	5.217	57	1794677	19.548	ppbv #	40
27) Carbon Disulfide	4.131	76	37241	0.343	ppbv #	72
29) Chloroform	5.279	83	57079	0.451	ppbv	88
30) Cyclohexane	6.616	84	8361m	0.115	ppbv	
32) 1,1,1-Trichloroethane	6.008	97	130017	1.029	ppbv	100
34) 2-Butanone	4.803	43	61507	0.535	ppbv	97
35) Carbon Tetrachloride	6.500	117	39727	0.313	ppbv	91
36) Benzene	6.375	78	34137	0.180	ppbv #	88
38) Trichloroethene	7.298	130	3035317	42.946	ppbv	98
52) Tetrachloroethene	10.619	164	48575	0.729	ppbv	86
53) Toluene	9.230	91	137855m	0.627	ppbv	
58) Ethyl Benzene	12.098	91	42142m	0.147	ppbv	
59) m/p-Xylene	12.359	91	91103m	0.378	ppbv	
60) o-Xylene	13.063	91	38713m	0.171	ppbv	
73) 1,3,5-Trimethylbenzene	15.362	105	56673m	0.245	ppbv	
74) 1,2,4-Trimethylbenzene	16.117	105	94066	0.372	ppbv #	68
79) Naphthalene	21.397	128	709841	2.949	ppbv	98

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

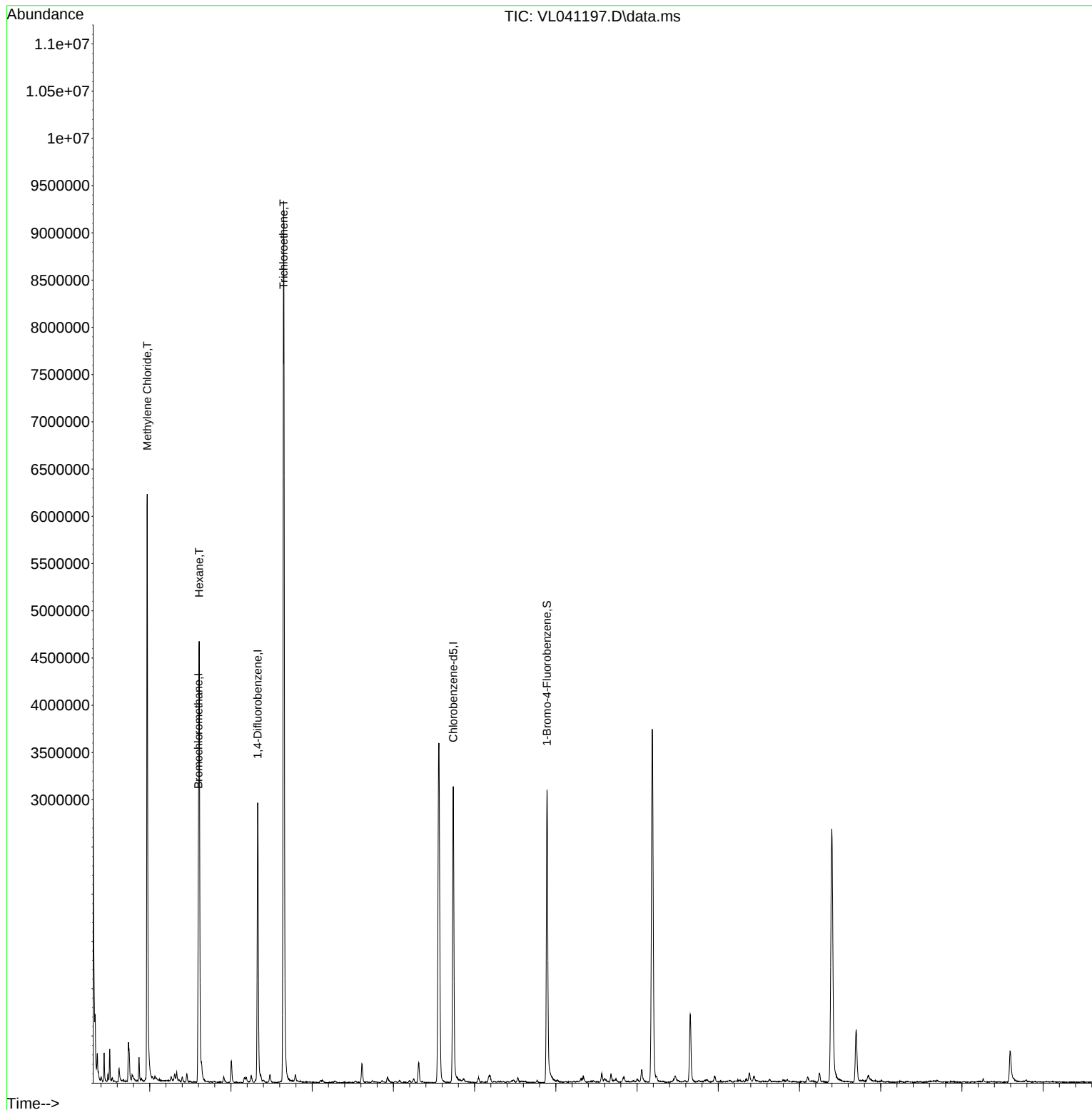
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050224\
Data File : VL041197.D
Acq On : 2 May 2024 15:54
Operator : SY/MD
Sample : P2334-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

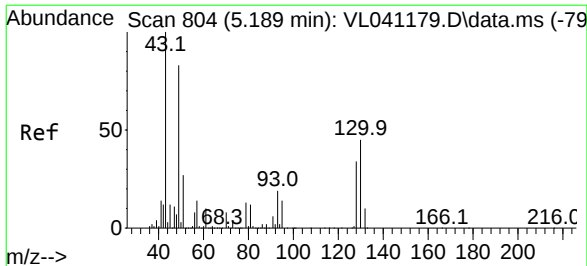
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS02-20240425

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024

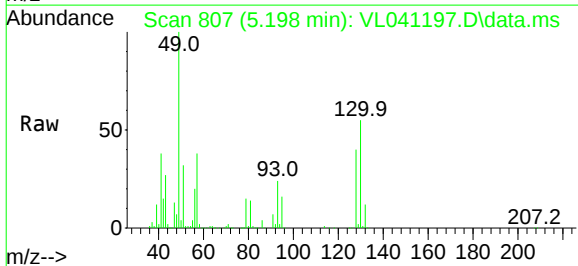
Quant Time: May 03 03:41:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 03 03:34:47 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

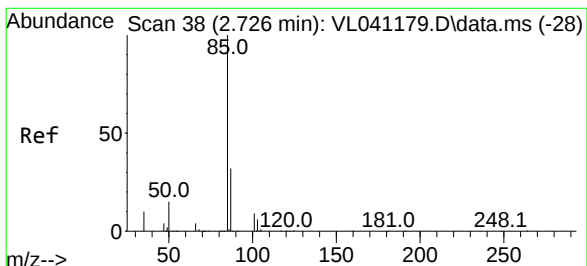
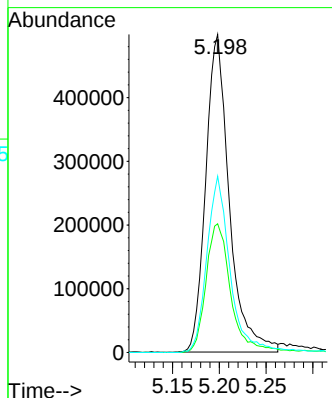
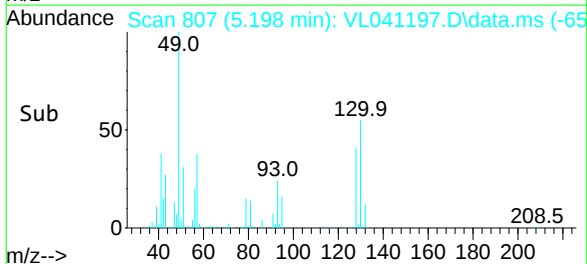
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS02-20240425



Tgt Ion: 49 Resp: 873352
Ion Ratio Lower Upper
49 100
128 43.4 21.5 64.5
130 56.0 27.2 81.6

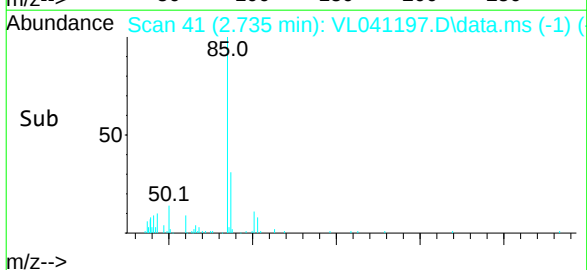
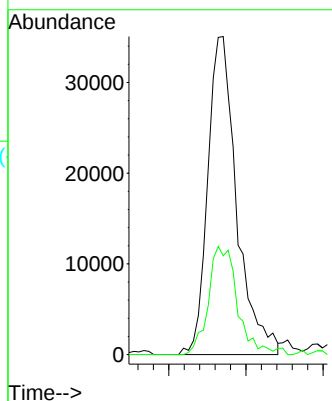
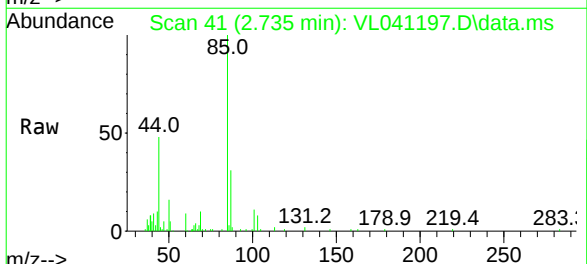
Manual Integrations
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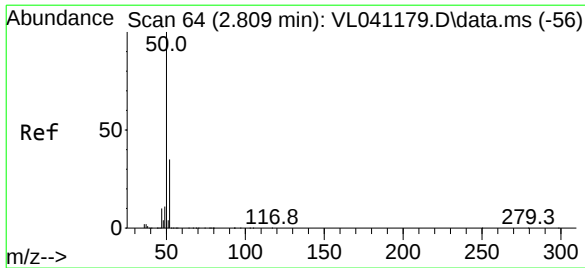
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#2
Dichlorodifluoromethane
Concen: 0.387 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Tgt Ion: 85 Resp: 45755
Ion Ratio Lower Upper
85 100
87 31.0 25.7 38.5





#4

Chloromethane

Concen: 0.240 ppbv

RT: 2.819 min Scan# 67

Delta R.T. 0.006 min

Lab File: VL041197.D

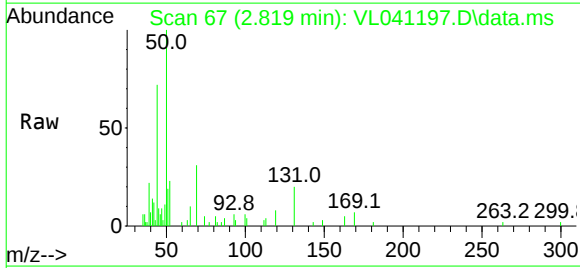
Acq: 2 May 2024 15:54

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS02-20240425



Tgt Ion: 50 Resp: 12479

Ion Ratio Lower Upper

50 100

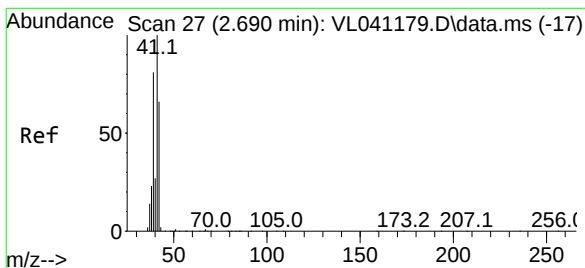
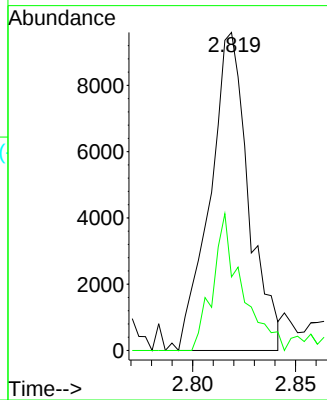
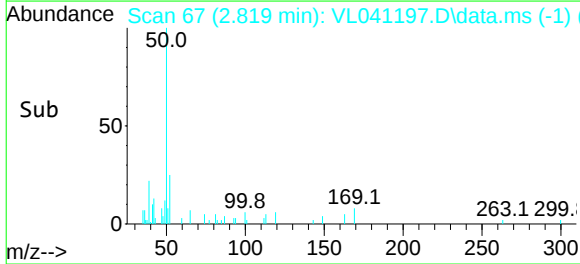
52 23.1 28.3 42.5#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/06/2024

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#9

Propene

Concen: 1.199 ppbv m

RT: 2.706 min Scan# 32

Delta R.T. 0.013 min

Lab File: VL041197.D

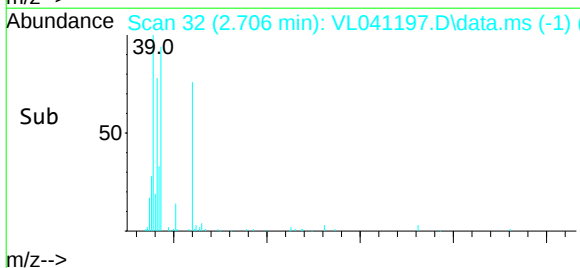
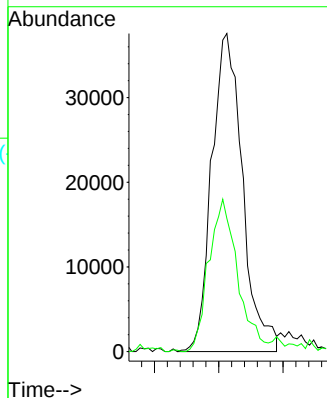
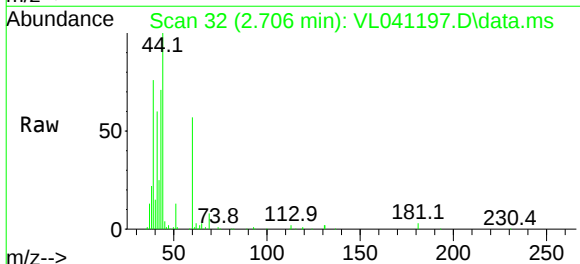
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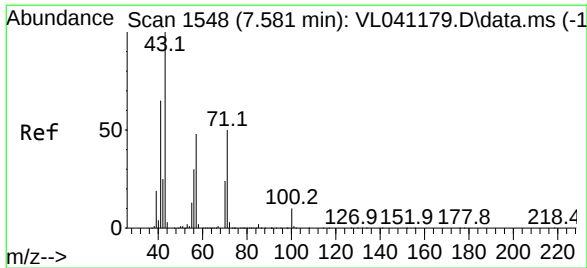
Tgt Ion: 41 Resp: 62260

Ion Ratio Lower Upper

41 100

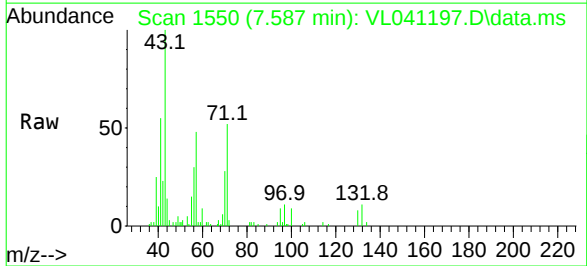
42 77.7 55.3 82.9





#10
Heptane
Concen: 0.277 ppbv
RT: 7.587 min Scan# 1548
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

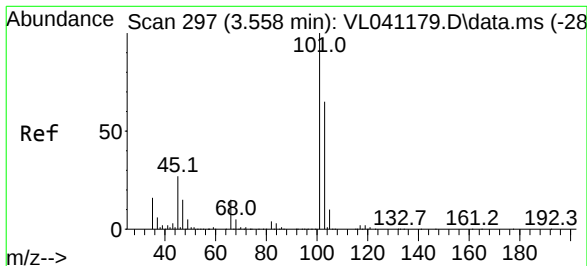
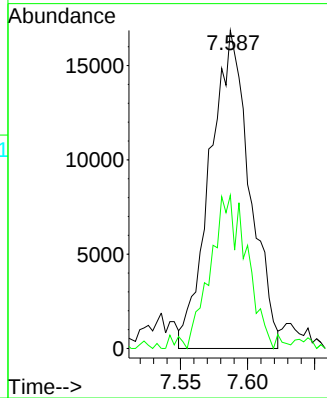
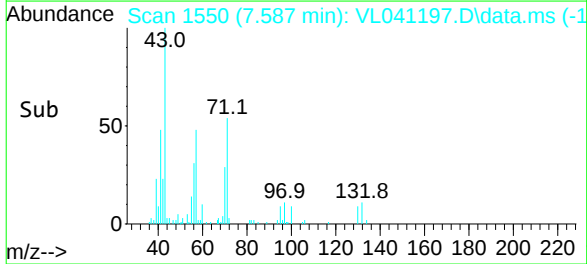
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS02-20240425



Tgt Ion: 43 Resp: 34815
Ion Ratio Lower Upper
43 100
57 46.2 38.7 58.1

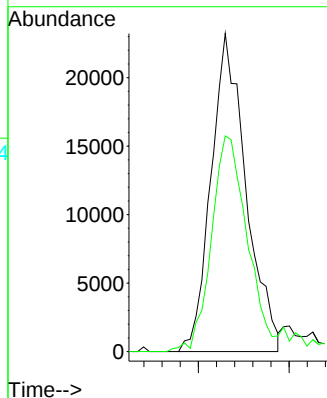
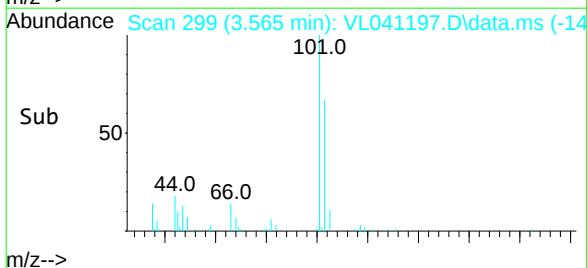
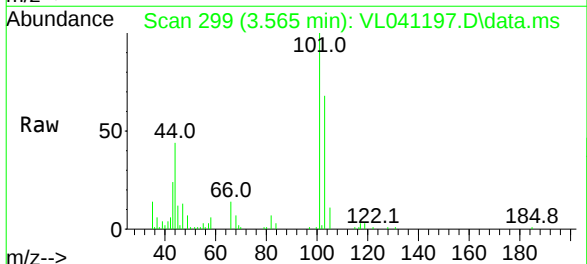
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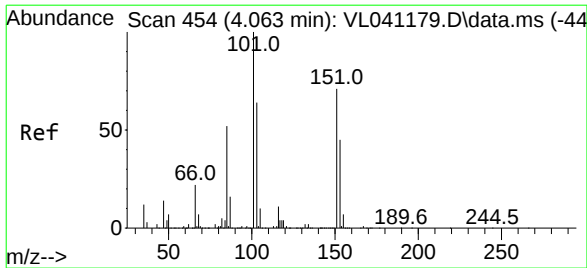
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#11
Trichlorofluoromethane
Concen: 0.259 ppbv
RT: 3.565 min Scan# 299
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Tgt Ion:101 Resp: 31090
Ion Ratio Lower Upper
101 100
103 66.5 51.6 77.4





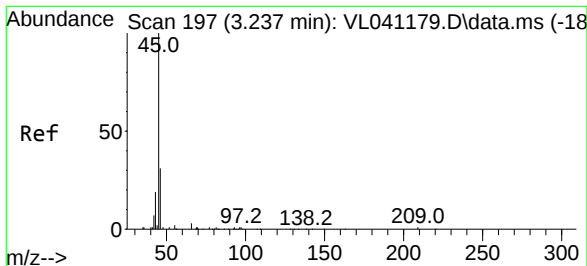
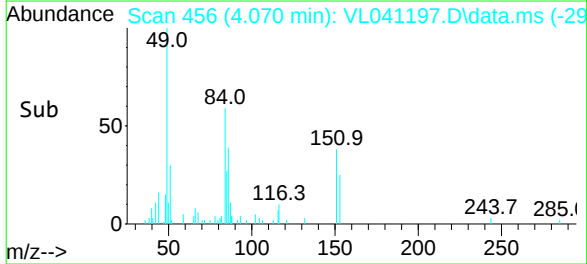
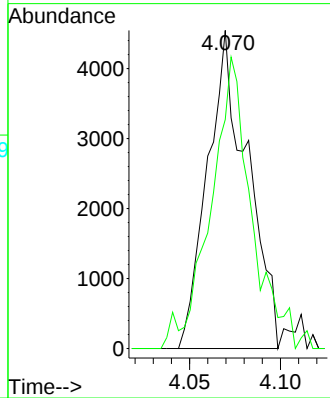
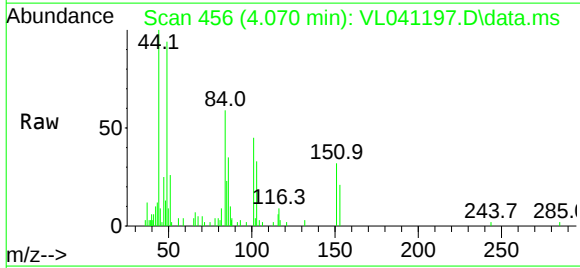
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.078 ppbv
RT: 4.070 min Scan# 454
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS02-20240425

Tgt Ion: 101 Resp: 6938
Ion Ratio Lower Upper
101 100
151 94.1 56.8 85.2#

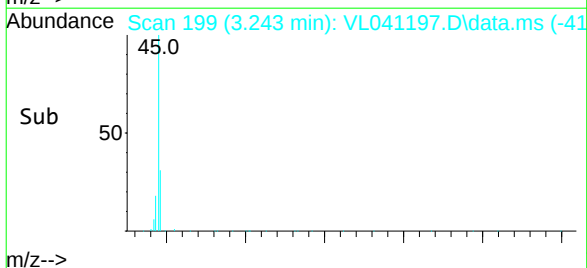
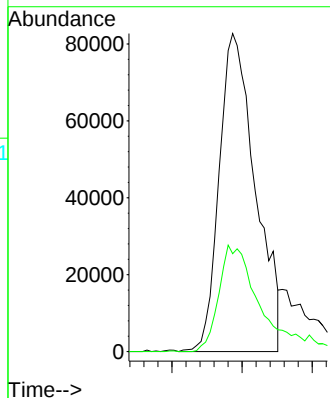
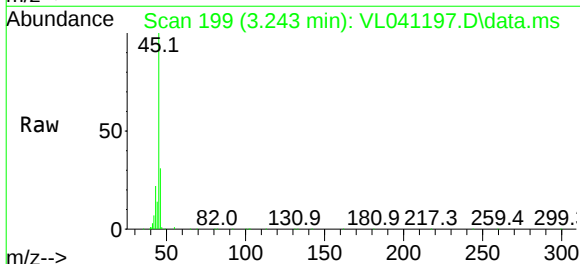
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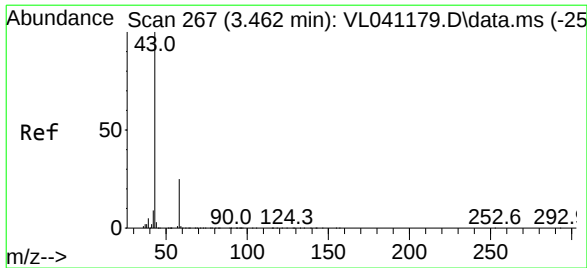
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#13
Ethanol
Concen: 12.780 ppbv
RT: 3.243 min Scan# 199
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

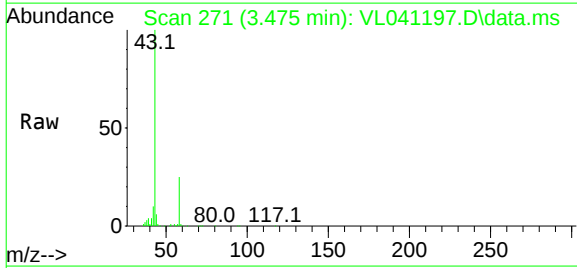
Tgt Ion: 45 Resp: 148718
Ion Ratio Lower Upper
45 100
46 40.7 14.8 59.0





#15
Acetone
Concen: 4.606 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.010 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

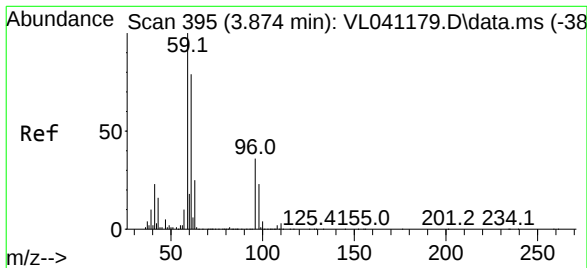
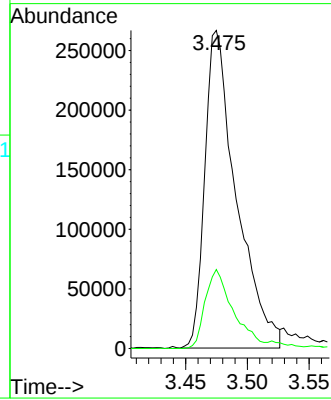
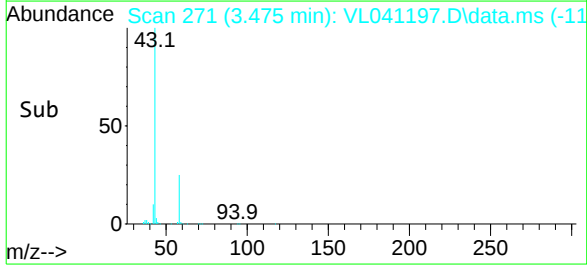
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS02-20240425



Tgt Ion: 43 Resp: 474729
Ion Ratio Lower Upper
43 100
58 24.2 21.4 32.0

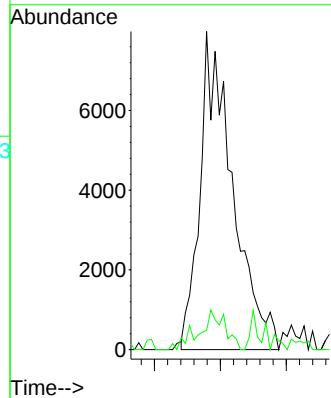
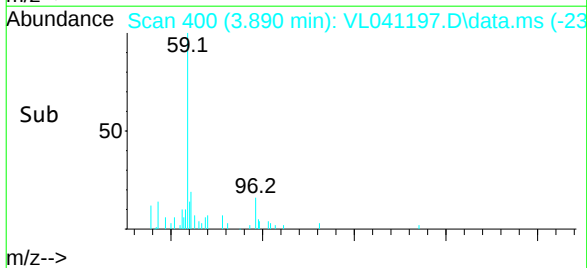
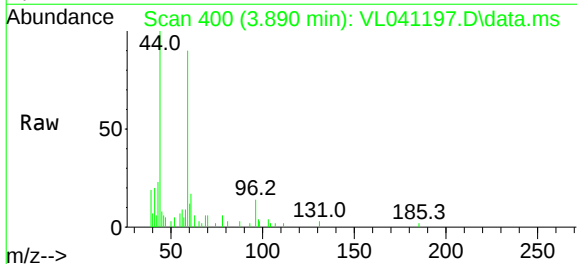
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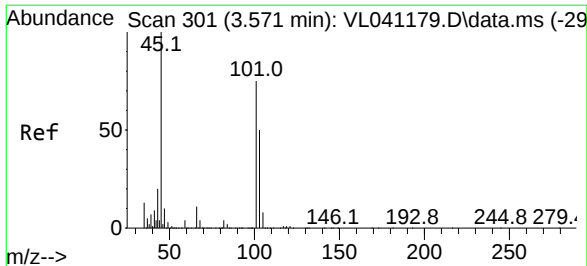
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#17
tert-Butyl alcohol
Concen: 0.123 ppbv m
RT: 3.890 min Scan# 400
Delta R.T. 0.016 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Tgt Ion: 59 Resp: 13647
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





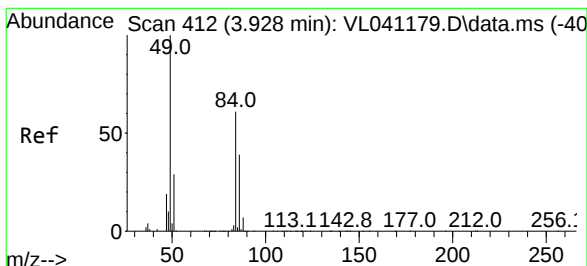
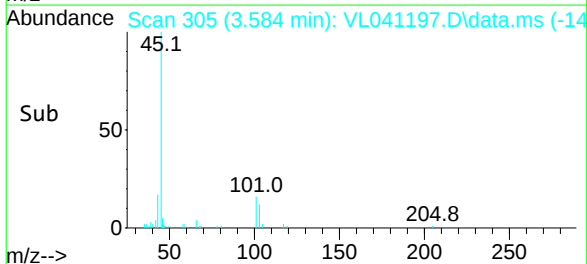
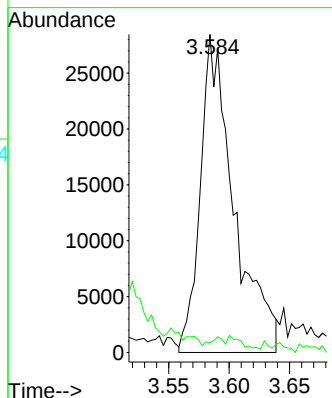
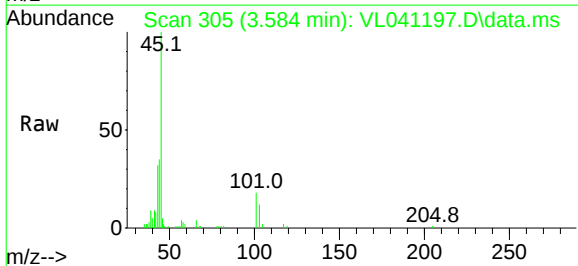
#19
Isopropyl Alcohol
Concen: 0.814 ppbv m
RT: 3.584 min Scan# 301
Delta R.T. 0.013 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Instrument : MSVOA_L
ClientSampleId : BA-20-SS02-20240425

Tgt Ion: 45 Resp: 55050
Ion Ratio Lower Upper
45 100
58 6.4 26.8 40.2

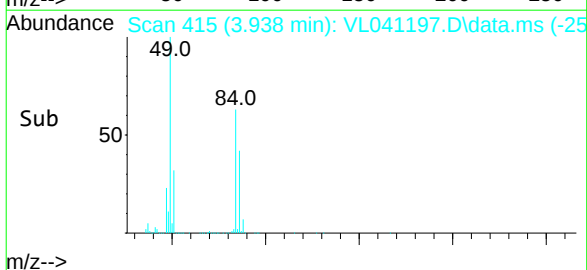
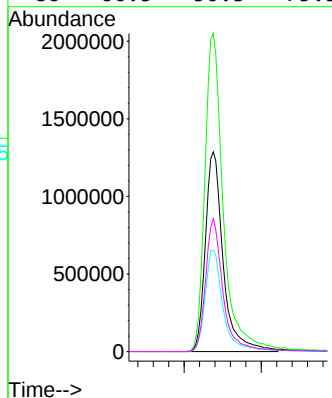
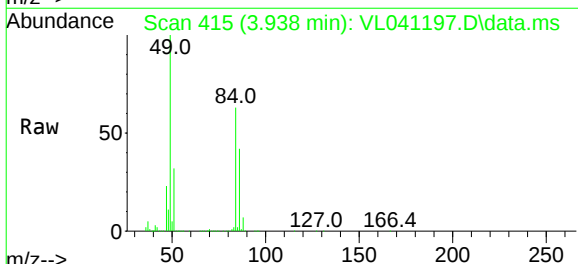
Manual Integrations
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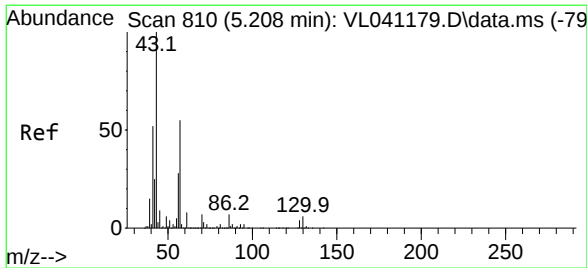
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#20
Methylene Chloride
Concen: 57.870 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

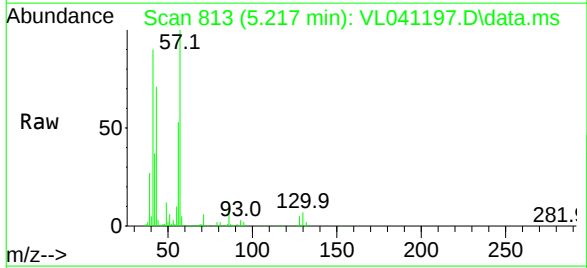
Tgt Ion: 84 Resp: 2074202
Ion Ratio Lower Upper
84 100
49 159.2 130.4 195.6
51 50.7 38.0 57.0
86 66.5 50.3 75.5





#26
Hexane
Concen: 19.548 ppbv
RT: 5.217 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

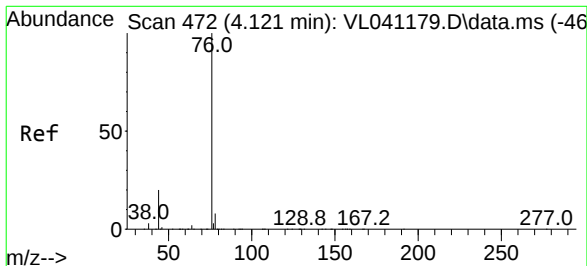
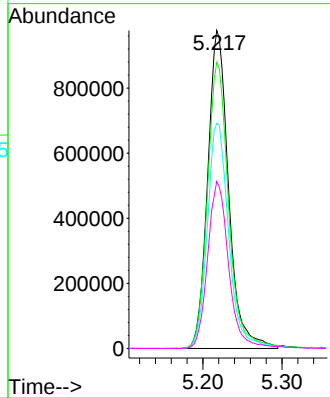
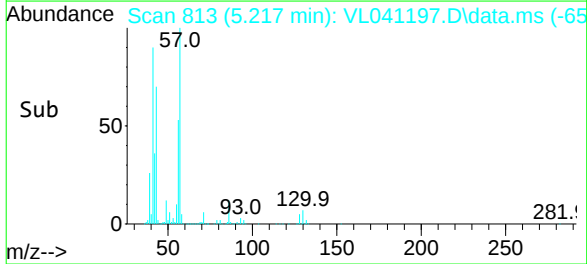
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS02-20240425



Tgt Ion: 57 Resp: 1794677
Ion Ratio Lower Upper
57 100
41 92.0 75.8 113.8
43 72.9 187.0 280.4#
56 53.1 42.7 64.1

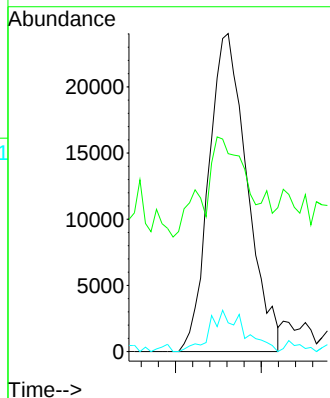
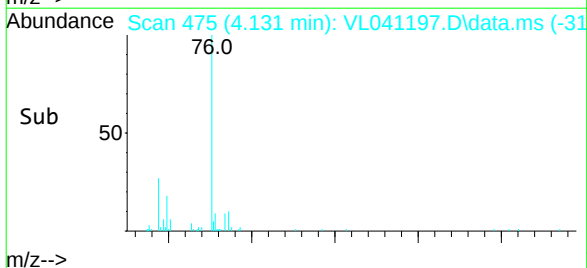
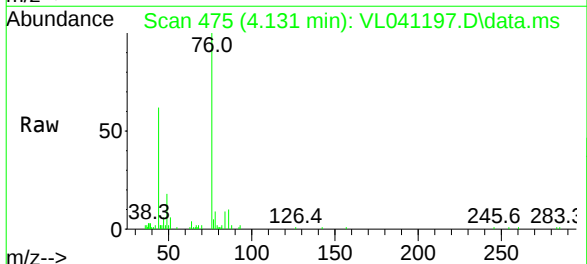
Manual Integrations
APPROVED

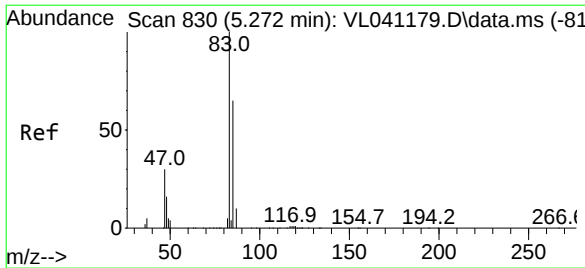
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#27
Carbon Disulfide
Concen: 0.343 ppbv
RT: 4.131 min Scan# 475
Delta R.T. 0.010 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Tgt Ion: 76 Resp: 37241
Ion Ratio Lower Upper
76 100
44 36.8 16.3 24.5#
78 13.8 7.3 10.9#





#29

Chloroform

Concen: 0.451 ppbv

RT: 5.279 min Scan# 83

Delta R.T. 0.006 min

Lab File: VL041197.D

Acq: 2 May 2024 15:54

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS02-20240425

Tgt Ion: 83 Resp: 57079

Ion Ratio Lower Upper

83 100

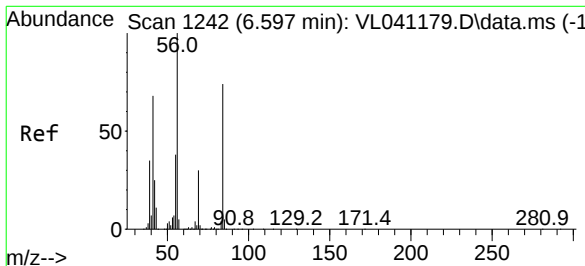
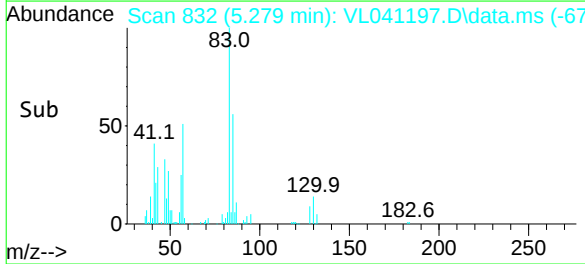
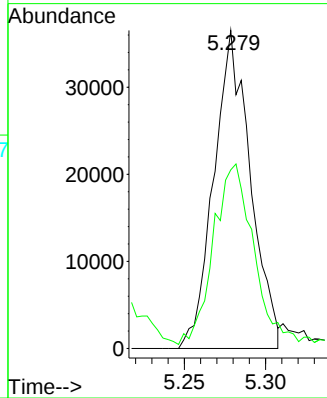
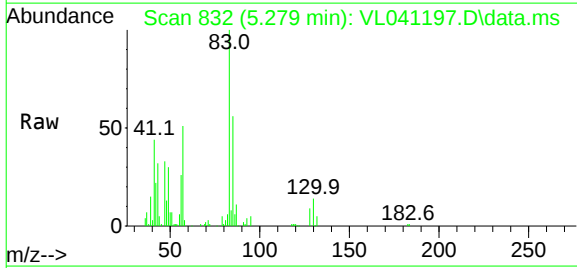
85 54.9 51.7 77.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/06/2024

Supervised By :Mahesh Dadoda 05/07/2024



#30

Cyclohexane

Concen: 0.115 ppbv m

RT: 6.616 min Scan# 1248

Delta R.T. 0.016 min

Lab File: VL041197.D

Acq: 2 May 2024 15:54

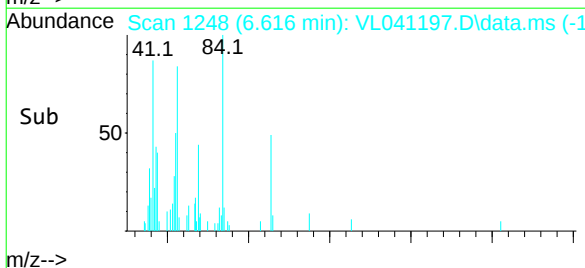
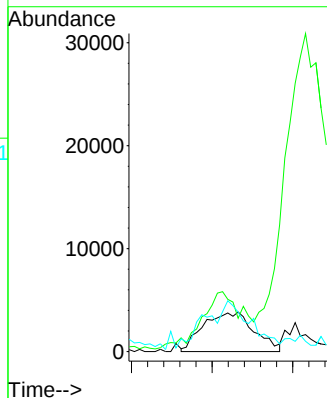
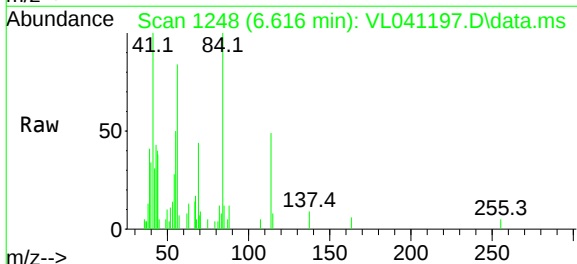
Tgt Ion: 84 Resp: 8361

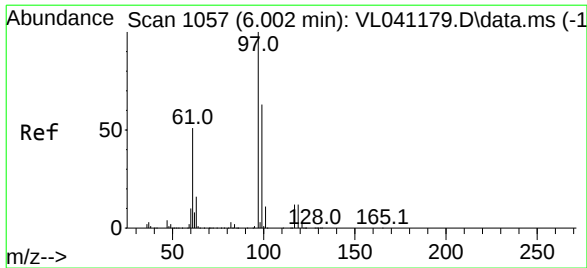
Ion Ratio Lower Upper

84 100

56 0.0 116.8 175.2#

41 149.7 73.8 110.8#





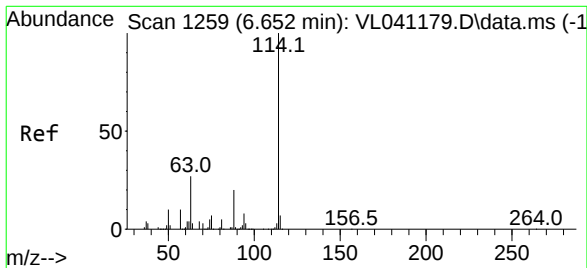
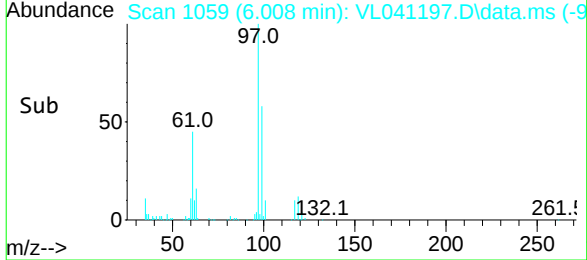
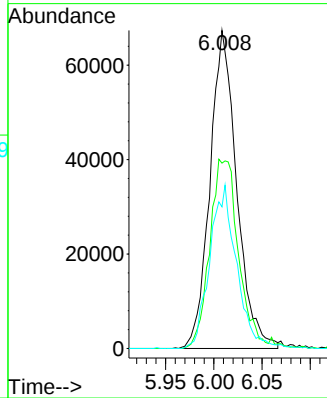
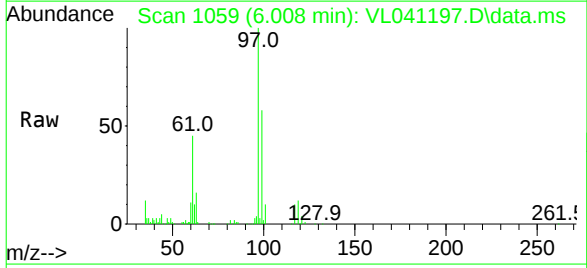
#32
1,1,1-Trichloroethane
Concen: 1.029 ppbv
RT: 6.008 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS02-20240425

Tgt Ion:	97	Resp:	130017
Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.7	77.5
61	51.8	41.1	61.7

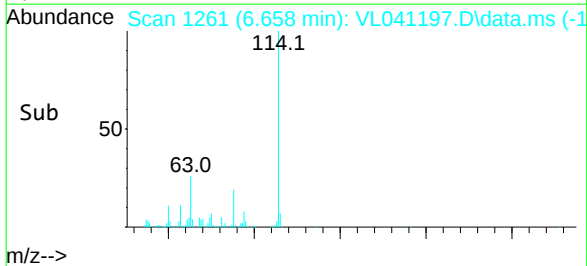
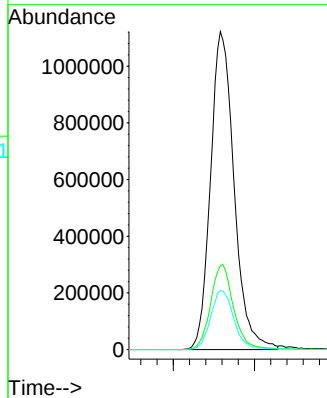
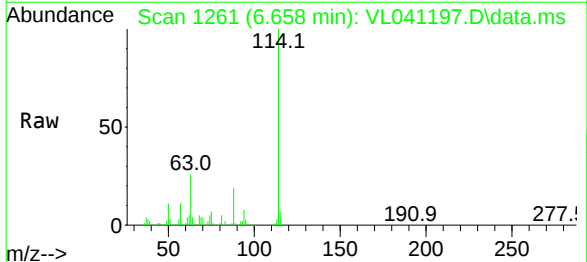
Manual Integrations
APPROVED

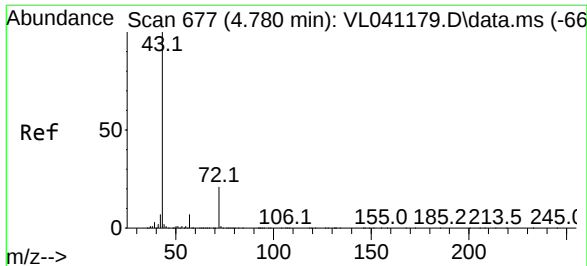
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Tgt Ion:	114	Resp:	2260054
Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.8	32.6
88	18.5	15.2	22.8





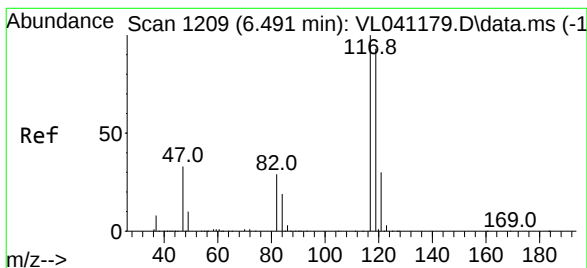
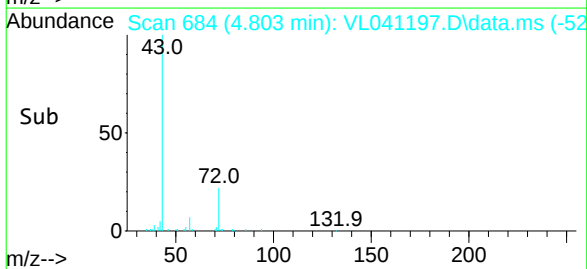
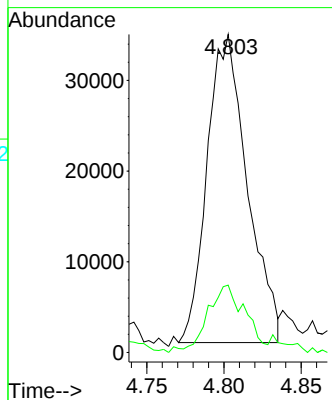
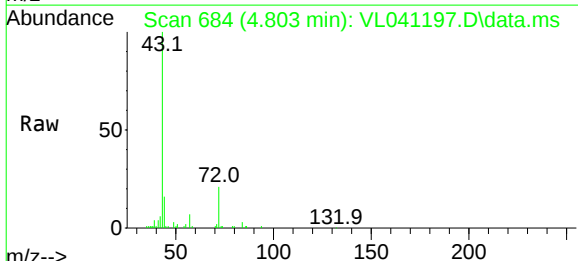
#34
2-Butanone
Concen: 0.535 ppbv
RT: 4.803 min Scan# 68
Delta R.T. 0.019 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS02-20240425

Tgt Ion: 43 Resp: 61507
Ion Ratio Lower Upper
43 100
72 23.1 17.3 25.9

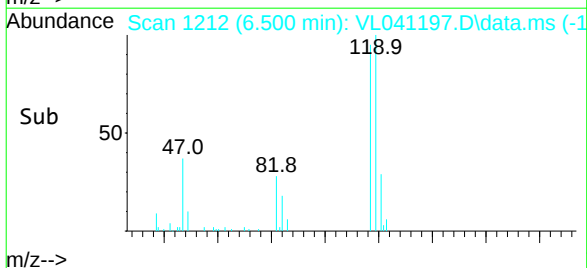
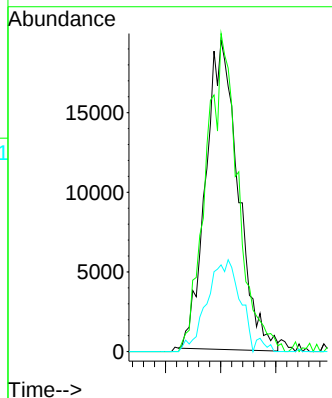
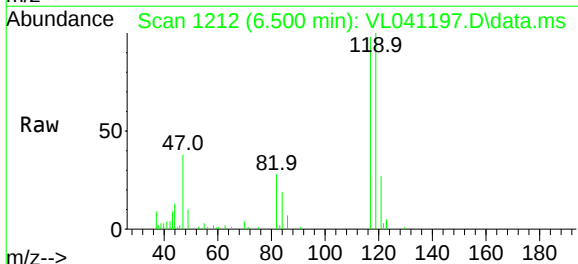
Manual Integrations
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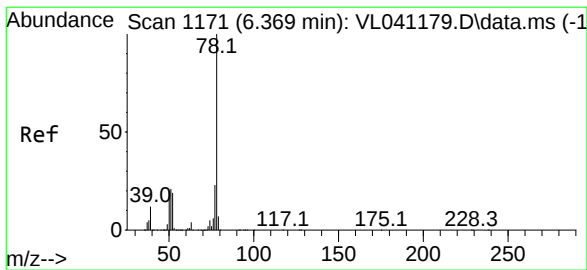
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#35
Carbon Tetrachloride
Concen: 0.313 ppbv
RT: 6.500 min Scan# 1212
Delta R.T. 0.010 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

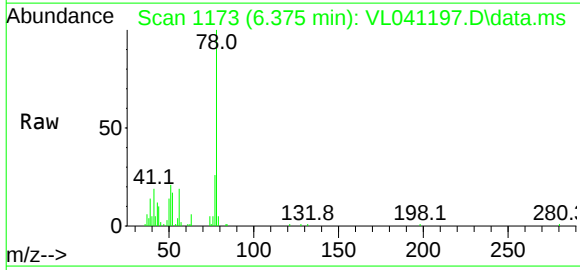
Tgt Ion:117 Resp: 39727
Ion Ratio Lower Upper
117 100
119 103.2 74.3 111.5
121 28.1 23.8 35.8





#36
Benzene
Concen: 0.180 ppbv
RT: 6.375 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

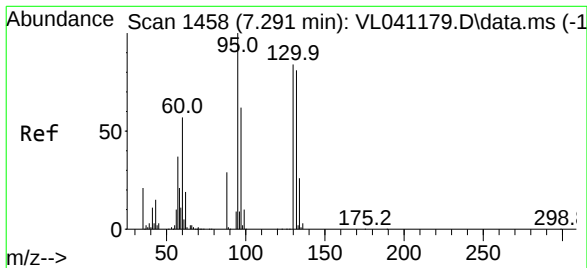
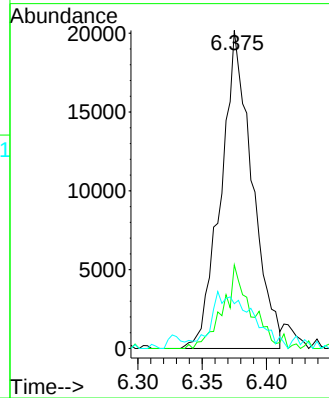
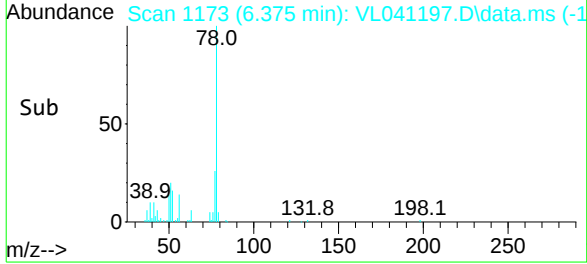
Instrument : MSVOA_L
ClientSampleId : BA-20-SS02-20240425



Tgt Ion: 78 Resp: 34137
Ion Ratio Lower Upper
78 100
77 26.3 18.3 27.5
50 11.7 15.9 23.9

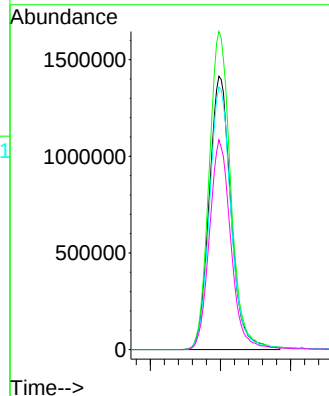
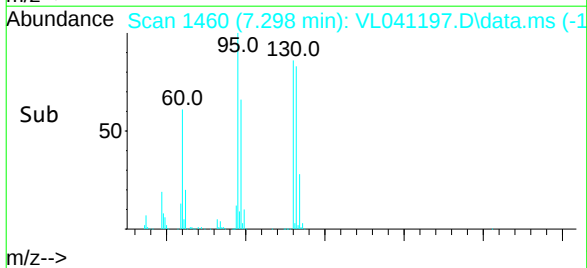
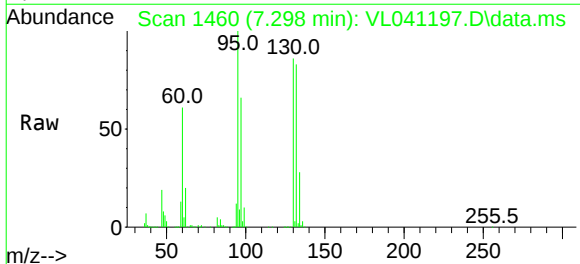
Manual Integrations
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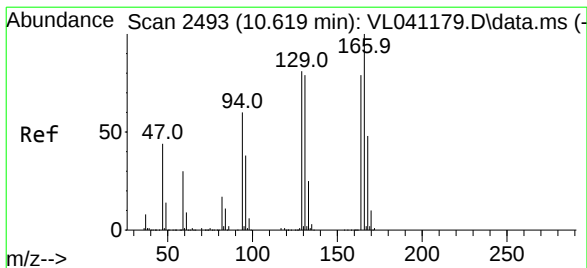
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#38
Trichloroethene
Concen: 42.946 ppbv
RT: 7.298 min Scan# 1460
Delta R.T. 0.010 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

Tgt Ion:130 Resp: 3035317
Ion Ratio Lower Upper
130 100
95 116.3 95.0 142.6
132 96.1 77.0 115.4
97 76.7 59.1 88.7





#52

Tetrachloroethene

Concen: 0.729 ppbv

RT: 10.619 min Scan# 2493

Delta R.T. 0.006 min

Lab File: VL041197.D

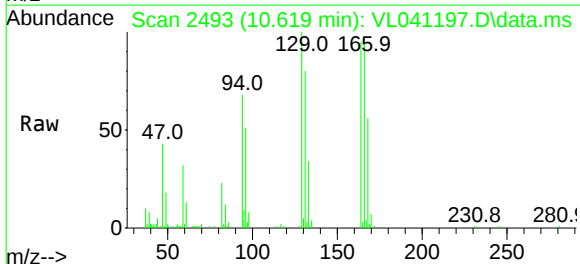
Acq: 2 May 2024 15:54

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS02-20240425



Tgt Ion: 164 Resp: 48575

Ion Ratio Lower Upper

164 100

166 102.1 101.1 151.7

129 105.2 81.7 122.5

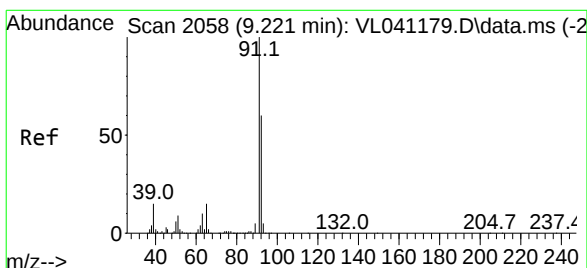
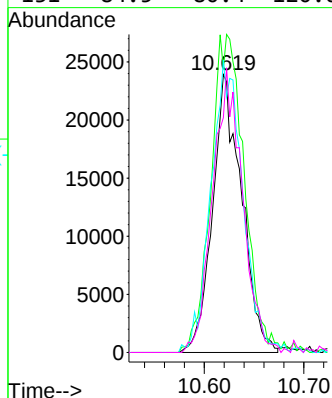
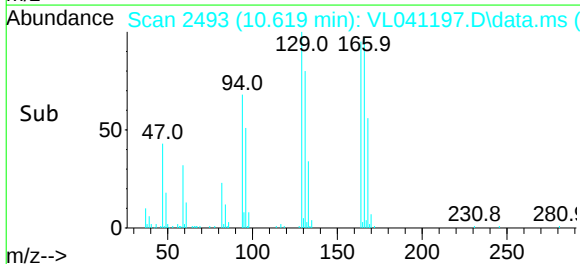
131 84.5 80.4 120.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024

Supervised By :Mahesh Dadoda 05/07/2024



#53

Toluene

Concen: 0.627 ppbv m

RT: 9.230 min Scan# 2061

Delta R.T. 0.010 min

Lab File: VL041197.D

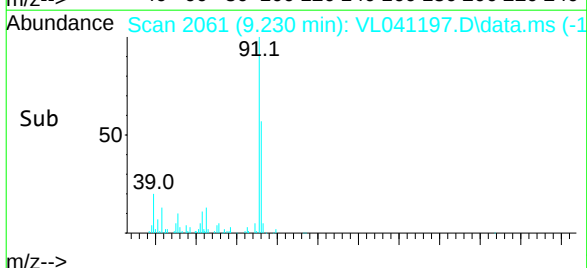
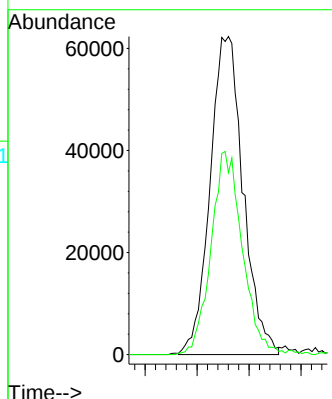
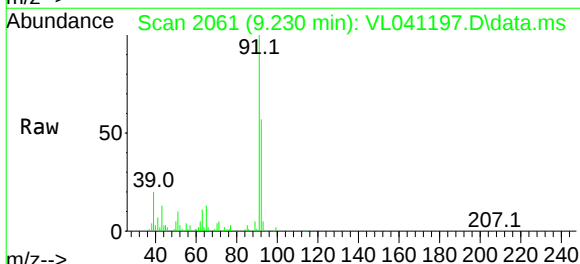
Acq: 2 May 2024 15:54

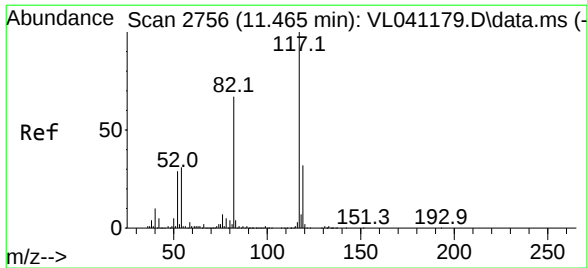
Tgt Ion: 91 Resp: 137855

Ion Ratio Lower Upper

91 100

92 61.3 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.474 min Scan# 2756

Delta R.T. 0.010 min

Lab File: VL041197.D

Acq: 2 May 2024 15:54

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS02-20240425

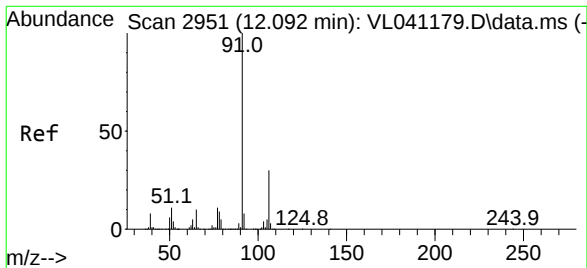
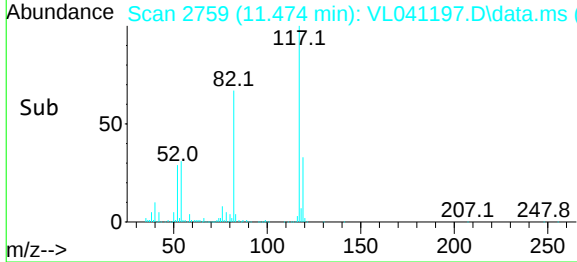
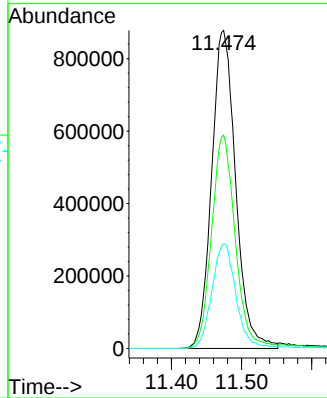
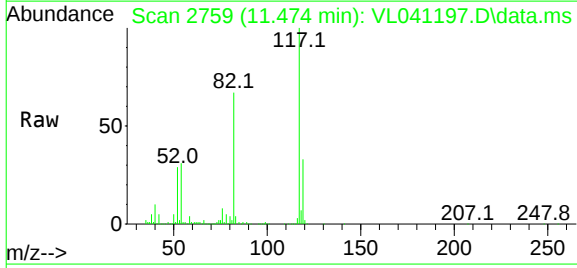
Tgt Ion: 117 Resp: 2090424

Ion	Ratio	Lower	Upper
117	100		
82	67.2	53.6	80.4
119	33.6	27.2	40.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#58

Ethyl Benzene

Concen: 0.147 ppbv m

RT: 12.098 min Scan# 2953

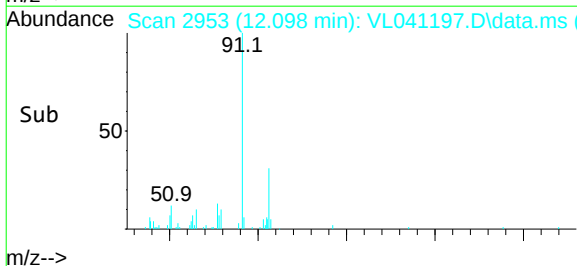
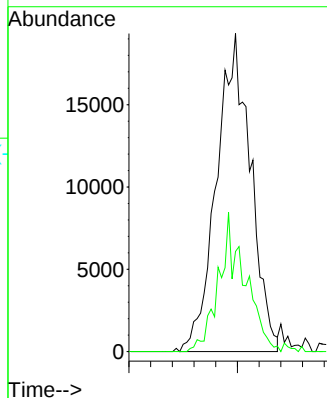
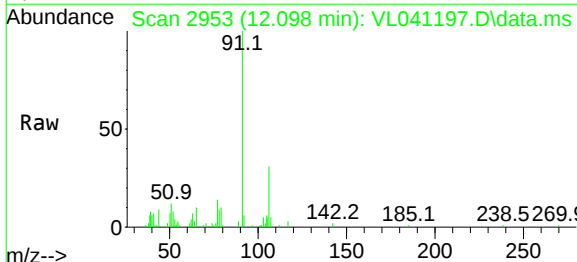
Delta R.T. 0.013 min

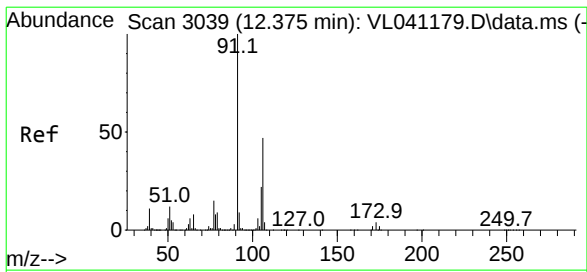
Lab File: VL041197.D

Acq: 2 May 2024 15:54

Tgt Ion: 91 Resp: 42142

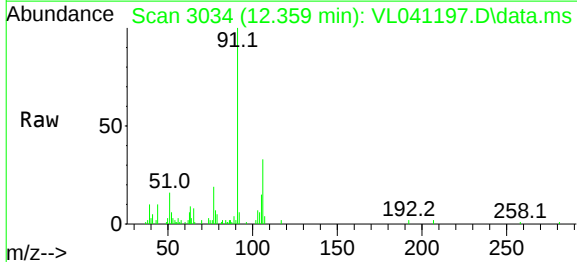
Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.3	36.5





#59
m/p-Xylene
Concen: 0.378 ppbv m
RT: 12.359 min Scan# 3039
Delta R.T. -0.013 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54

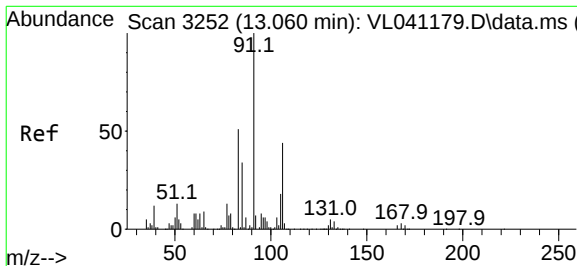
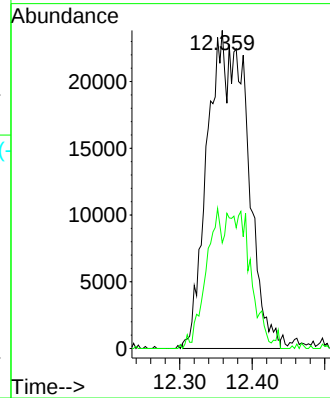
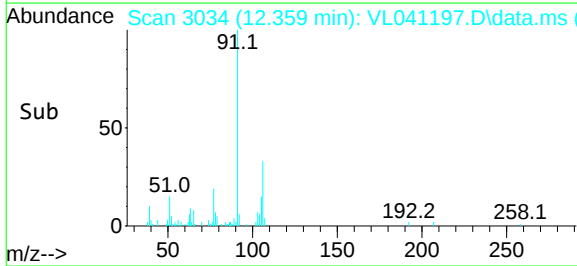
Instrument : MSVOA_L
ClientSampleId : BA-20-SS02-20240425



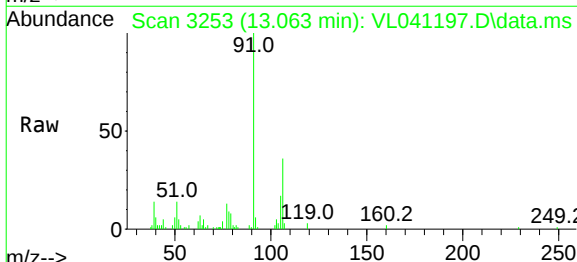
Tgt Ion: 91 Resp: 91103
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#

Manual Integrations
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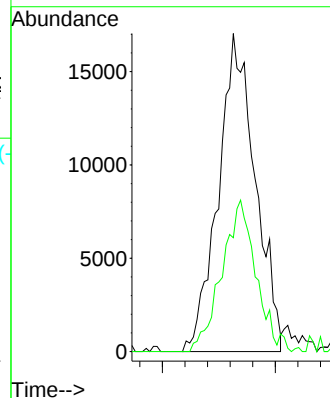
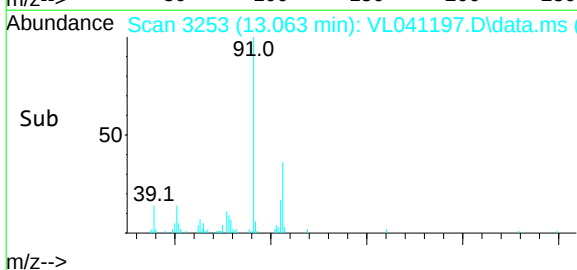
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024

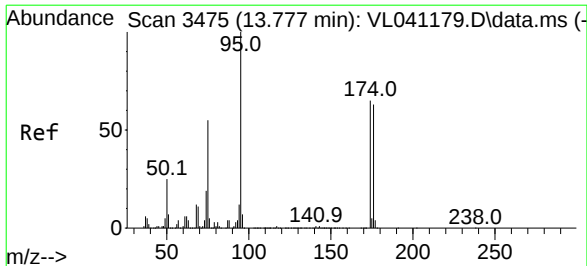


#60
o-Xylene
Concen: 0.171 ppbv m
RT: 13.063 min Scan# 3253
Delta R.T. 0.006 min
Lab File: VL041197.D
Acq: 2 May 2024 15:54



Tgt Ion: 91 Resp: 38713
Ion Ratio Lower Upper
91 100
106 44.7 22.4 67.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.991 ppbv

RT: 13.783 min Scan# 3475

Delta R.T. 0.010 min

Lab File: VL041197.D

Acq: 2 May 2024 15:54

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS02-20240425

Tgt Ion: 95 Resp: 1576767

Ion Ratio Lower Upper

95 100

174 68.5 53.6 80.4

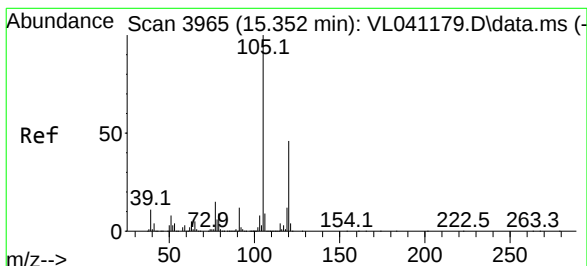
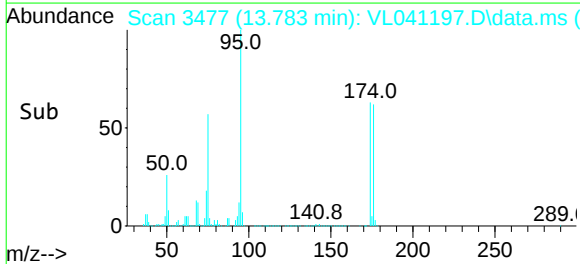
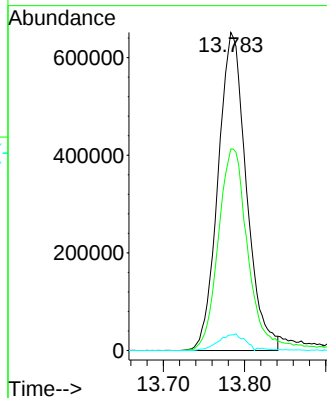
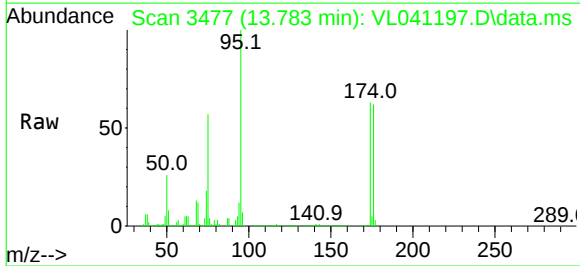
175 5.3 4.2 6.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024

Supervised By :Mahesh Dadoda 05/07/2024



#73

1,3,5-Trimethylbenzene

Concen: 0.245 ppbv m

RT: 15.362 min Scan# 3968

Delta R.T. 0.013 min

Lab File: VL041197.D

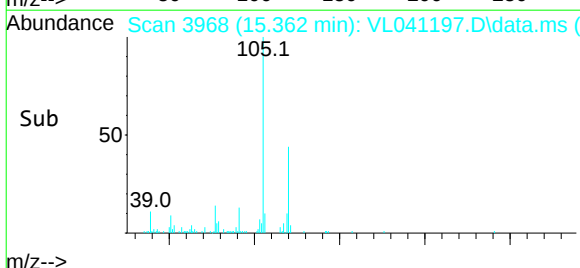
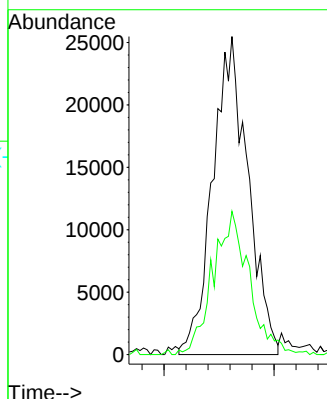
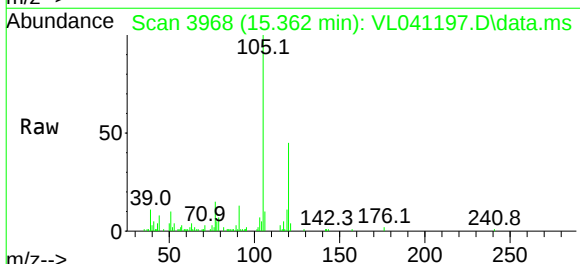
Acq: 2 May 2024 15:54

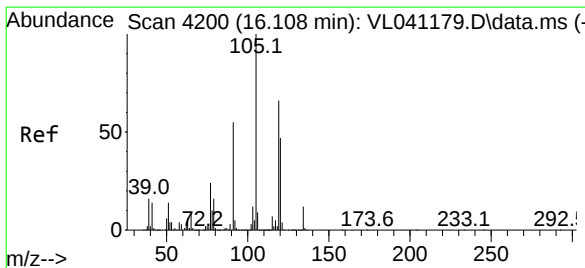
Tgt Ion:105 Resp: 56673

Ion Ratio Lower Upper

105 100

120 45.0 37.0 55.4





#74

1,2,4-Trimethylbenzene

Concen: 0.372 ppbv

RT: 16.117 min Scan# 4200

Delta R.T. 0.013 min

Lab File: VL041197.D

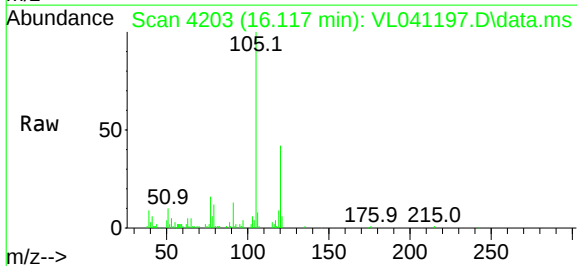
Acq: 2 May 2024 15:54

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS02-20240425

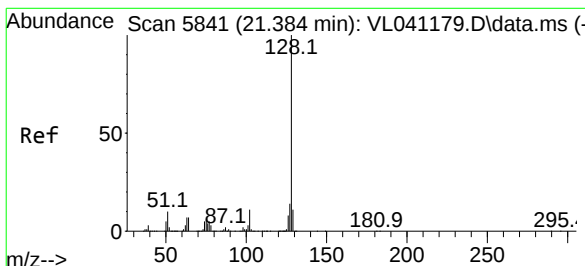
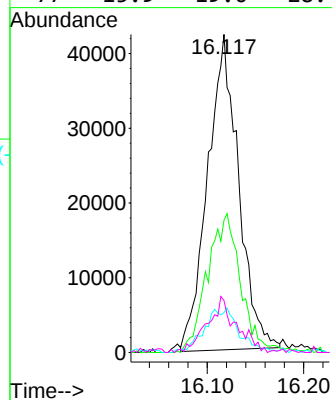
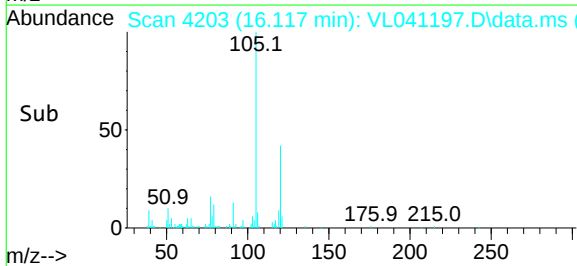


Tgt Ion:	105	Resp:	94066
Ion Ratio	Lower	Upper	
105	100		
120	42.2	37.8	56.6
91	12.0	44.3	66.5
77	15.9	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#79

Naphthalene

Concen: 2.949 ppbv

RT: 21.397 min Scan# 5845

Delta R.T. 0.013 min

Lab File: VL041197.D

Acq: 2 May 2024 15:54

Tgt Ion:	128	Resp:	709841
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.8	16.2
129	10.1	8.9	13.3

