

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102323\
 Data File : VL040779.D
 Acq On : 23 Oct 2023 15:16
 Operator : SY/MD
 Sample : 05004-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/25/2023
 Supervised By :Mahesh Dadoda 10/25/2023

Quant Time: Oct 24 05:35:30 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

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

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

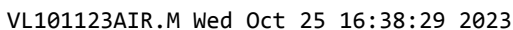
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

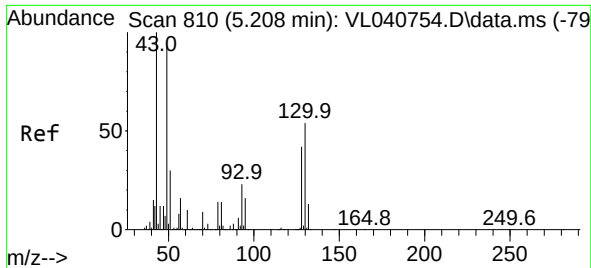
Internal Standards						
1) Bromochloromethane	5.185	49	959540	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.642	114	2674360	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.449	117	2426825	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1853218	10.378	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.735	85	23380	0.138	ppbv	96
3) Chlorodifluoromethane	2.655	51	88428	0.627	ppbv #	66
9) Propene	2.706	41	26330	0.503	ppbv #	76
10) Heptane	7.571	43	13000	0.099	ppbv	88
11) Trichlorofluoromethane	3.555	101	10569m	0.081	ppbv	
13) Ethanol	3.240	45	77259	6.534	ppbv	88
15) Acetone	3.468	43	283446	2.857	ppbv	100
19) Isopropyl Alcohol	3.584	45	289254	4.530	ppbv #	40
20) Methylene Chloride	3.931	84	1122300	27.161	ppbv	98
25) Ethyl Acetate	5.205	43	394724	1.816	ppbv #	77
26) Hexane	5.208	57	552531	5.562	ppbv #	41
31) cis-1,2-Dichloroethene	5.073	61	33973	0.371	ppbv	92
32) 1,1,1-Trichloroethane	5.989	97	15150m	0.099	ppbv	
38) Trichloroethene	7.285	130	20697m	0.227	ppbv	
52) Tetrachloroethene	10.600	164	47696m	0.571	ppbv	
53) Toluene	9.201	91	68243	0.279	ppbv	97
58) Ethyl Benzene	12.069	91	36014m	0.118	ppbv	
59) m/p-Xylene	12.327	91	100529m	0.400	ppbv	
60) o-Xylene	13.044	91	38087m	0.159	ppbv	
74) 1,2,4-Trimethylbenzene	16.098	105	43033m	0.159	ppbv	

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

Manual Integrations

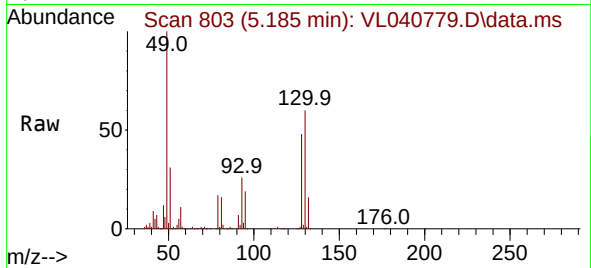
Quant Time: Oct 24 05:35:30 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.023 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

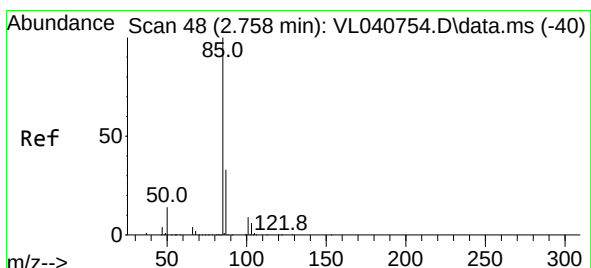
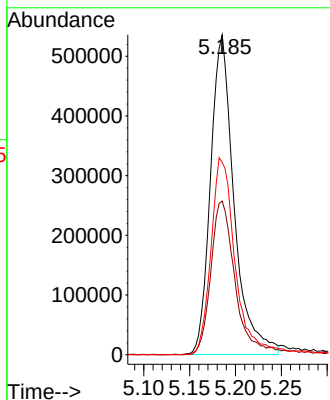
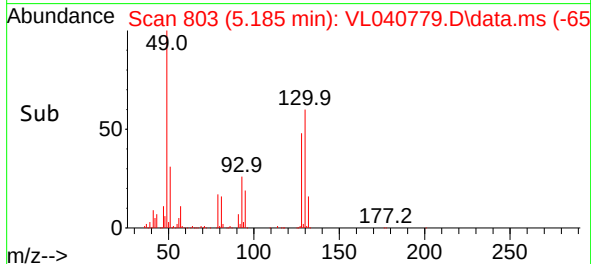
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 959540
Ion Ratio Lower Upper
49 100
128 51.6 23.9 71.7
130 65.0 30.7 92.1

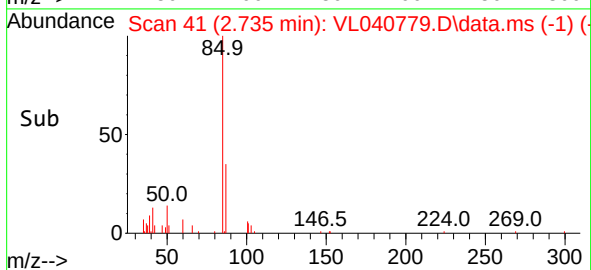
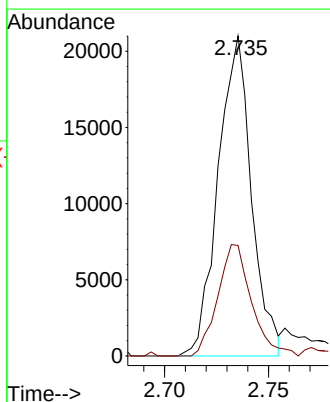
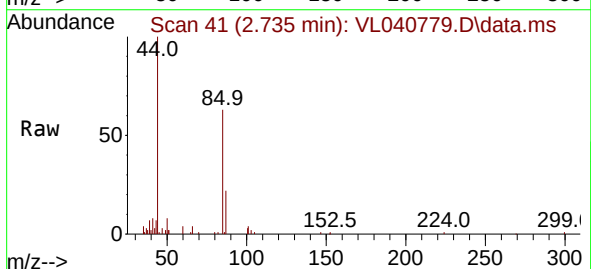
Manual Integrations
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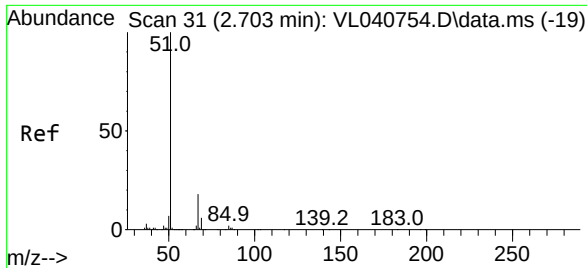
Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023



#2
Dichlorodifluoromethane
Concen: 0.138 ppbv
RT: 2.735 min Scan# 41
Delta R.T. -0.022 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

Tgt Ion: 85 Resp: 23380
Ion Ratio Lower Upper
85 100
87 34.5 26.0 39.0





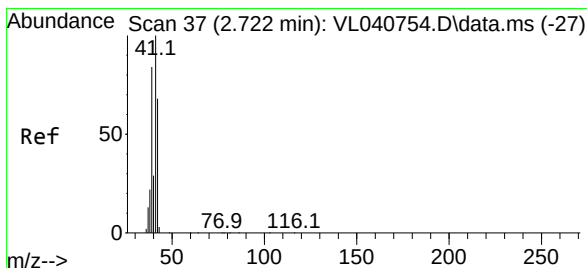
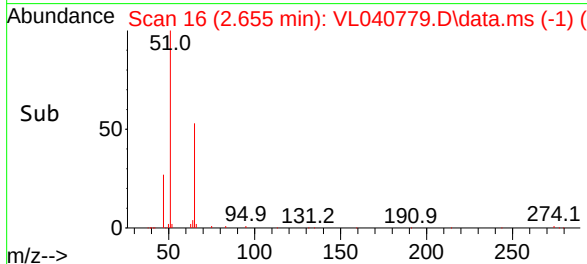
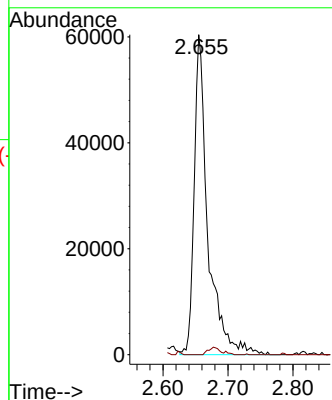
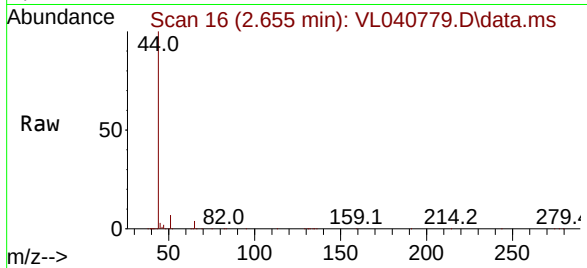
#3
Chlorodifluoromethane
Concen: 0.627 ppbv
RT: 2.655 min Scan# 10
Delta R.T. -0.048 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 88428
Ion Ratio Lower Upper
51 100
67 2.2 13.8 20.6

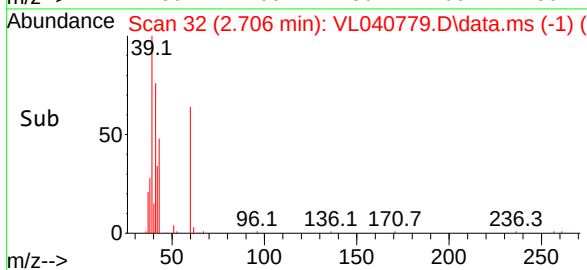
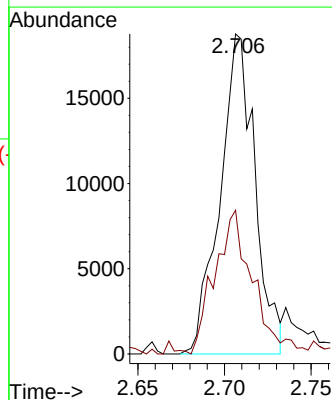
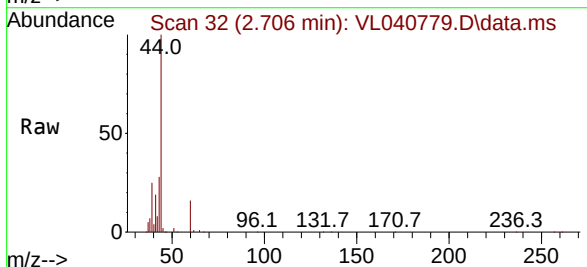
Manual Integrations
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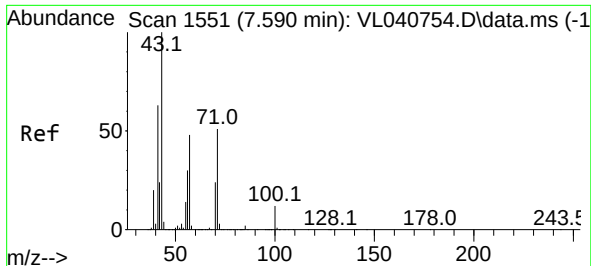
Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023



#9
Propene
Concen: 0.503 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.016 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

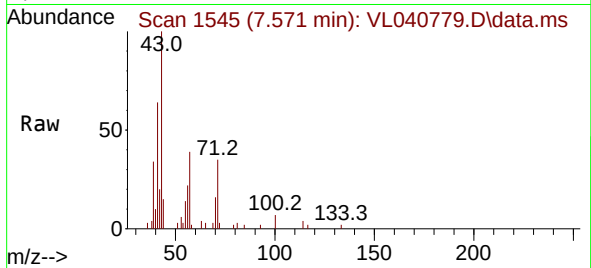
Tgt Ion: 41 Resp: 26330
Ion Ratio Lower Upper
41 100
42 51.2 57.1 85.7





#10
Heptane
Concen: 0.099 ppbv
RT: 7.571 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

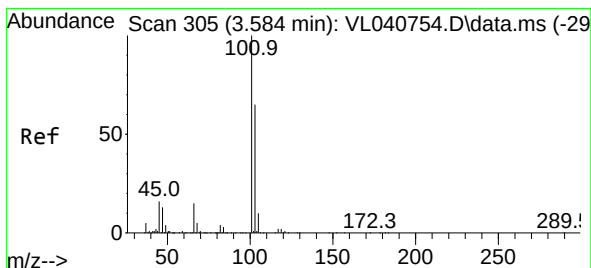
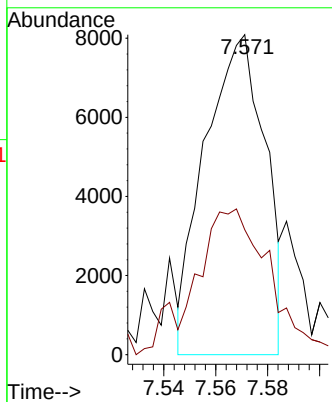
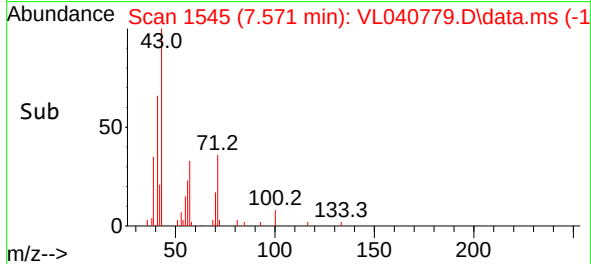
Instrument :
MSVOA_L
ClientSampleId :
SV1



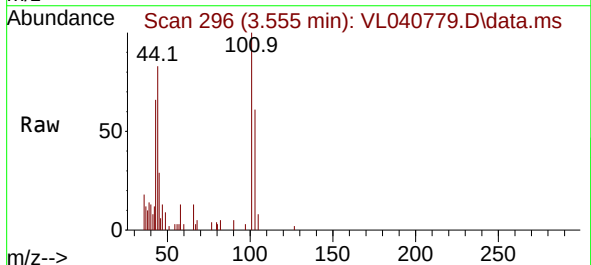
Tgt Ion: 43 Resp: 13000
Ion Ratio Lower Upper
43 100
57 58.0 40.0 60.0

Manual Integrations
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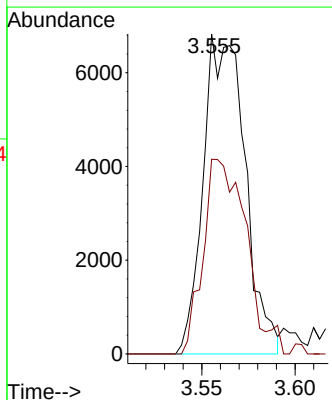
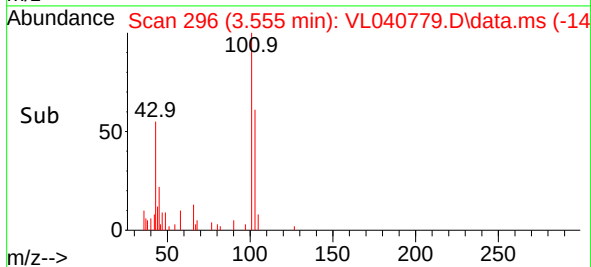
Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023

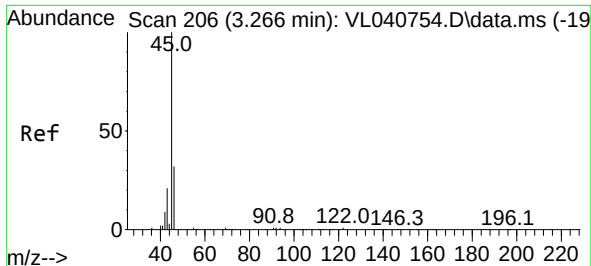


#11
Trichlorofluoromethane
Concen: 0.081 ppbv m
RT: 3.555 min Scan# 296
Delta R.T. -0.029 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16



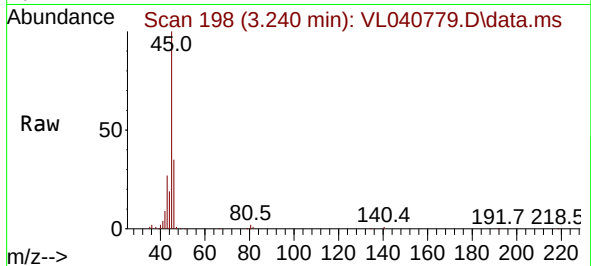
Tgt Ion:101 Resp: 10569
Ion Ratio Lower Upper
101 100
103 60.8 52.2 78.2





#13
Ethanol
Concen: 6.534 ppbv
RT: 3.240 min Scan# 198
Delta R.T. -0.026 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

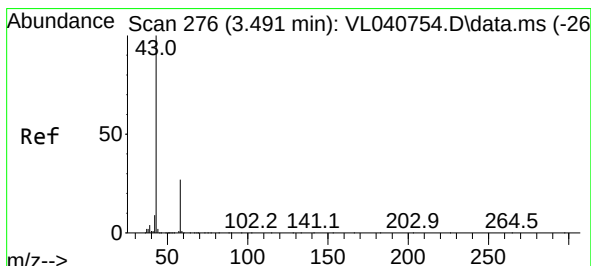
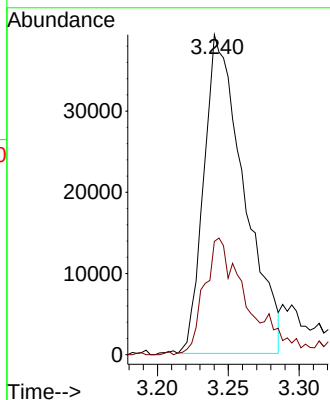
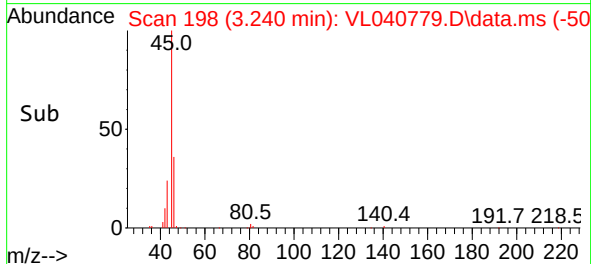
Instrument :
MSVOA_L
ClientSampleId :
SV1



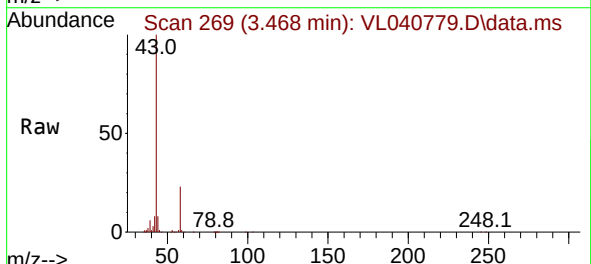
Tgt Ion: 45 Resp: 77259
Ion Ratio Lower Upper
45 100
46 43.2 14.6 58.2

Manual Integrations
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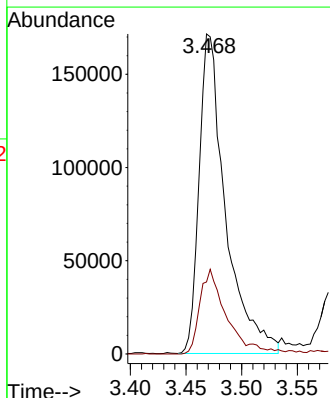
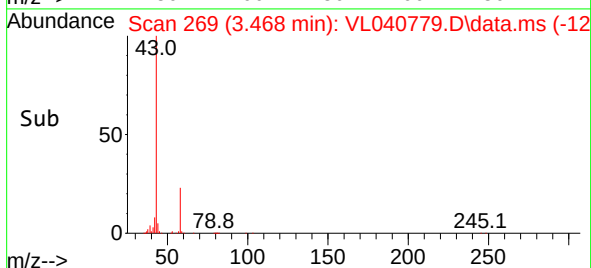
Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023

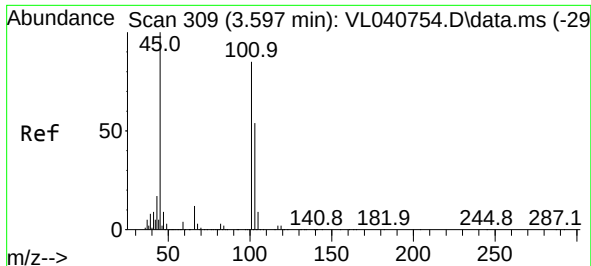


#15
Acetone
Concen: 2.857 ppbv
RT: 3.468 min Scan# 269
Delta R.T. -0.022 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16



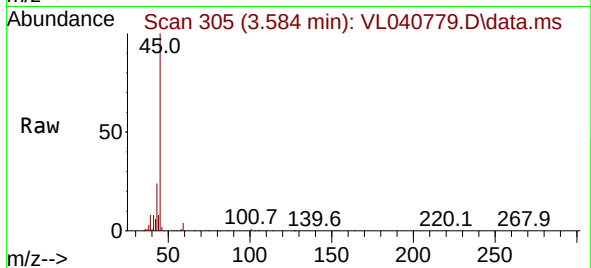
Tgt Ion: 43 Resp: 283446
Ion Ratio Lower Upper
43 100
58 27.2 21.6 32.4





#19
Isopropyl Alcohol
Concen: 4.530 ppbv
RT: 3.584 min Scan# 309
Delta R.T. -0.013 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

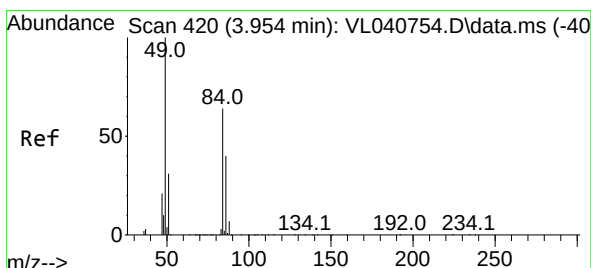
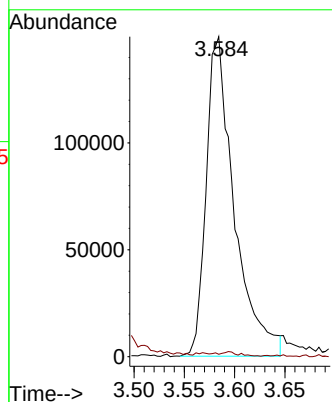
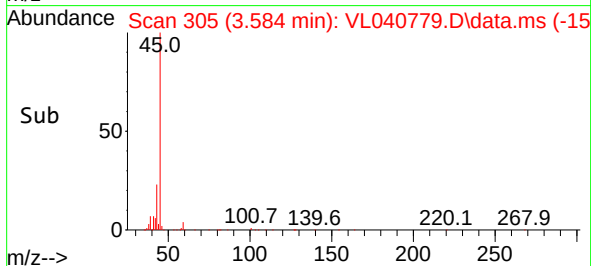
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 45 Resp: 289254
Ion Ratio Lower Upper
45 100
58 1.7 30.3 45.5

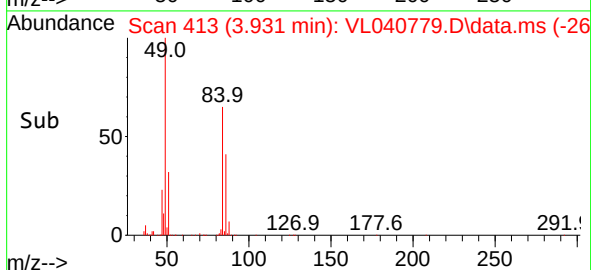
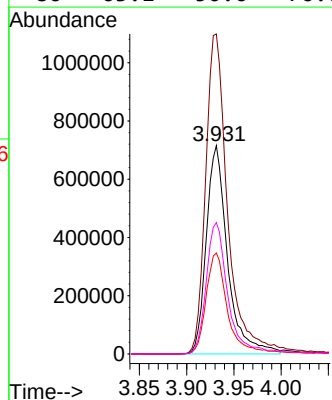
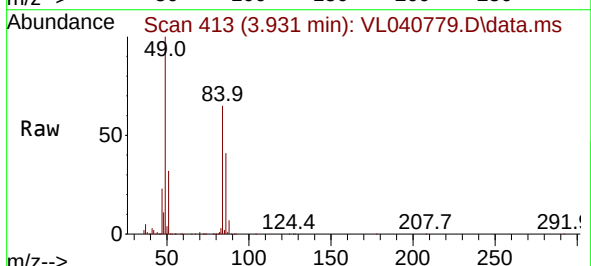
Manual Integrations
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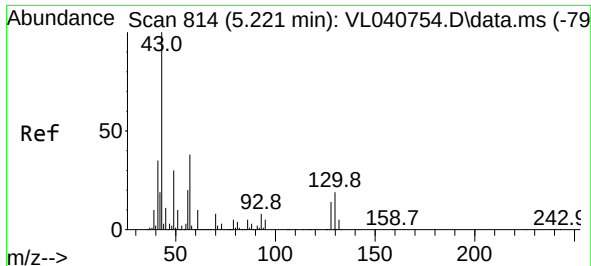
Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023



#20
Methylene Chloride
Concen: 27.161 ppbv
RT: 3.931 min Scan# 413
Delta R.T. -0.022 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

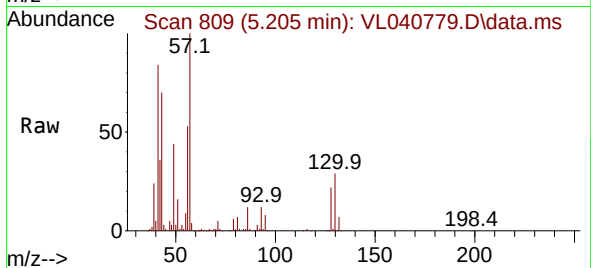
Tgt Ion: 84 Resp: 1122300
Ion Ratio Lower Upper
84 100
49 153.6 125.6 188.4
51 48.5 38.9 58.3
86 63.1 50.6 76.0





#25
Ethyl Acetate
Concen: 1.816 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.016 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

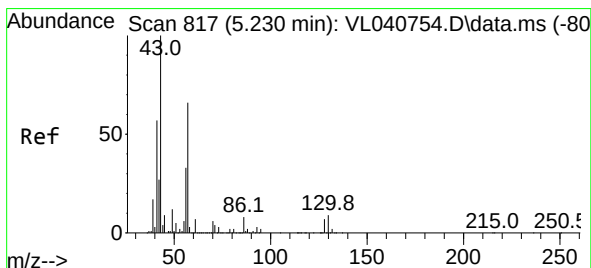
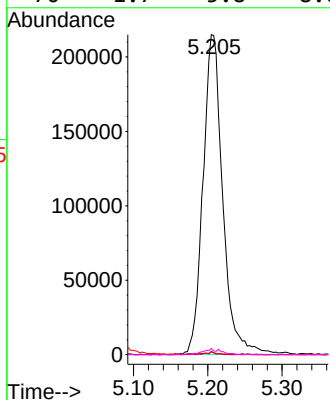
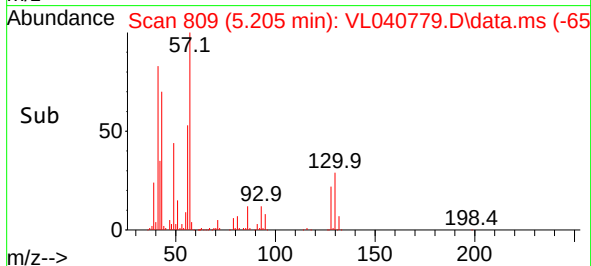
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 394724
Ion Ratio Lower Upper
43 100
45 0.7 8.2 12.4
61 0.7 8.2 12.2
70 1.7 5.8 8.6

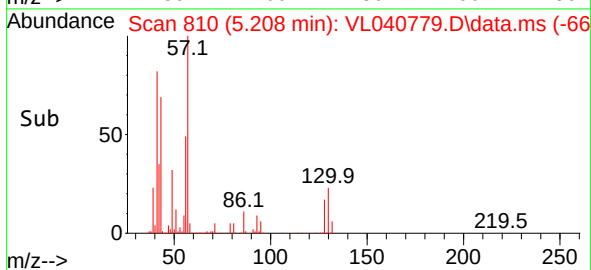
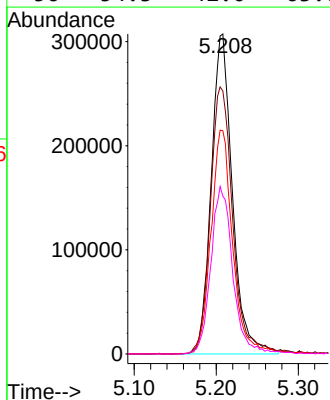
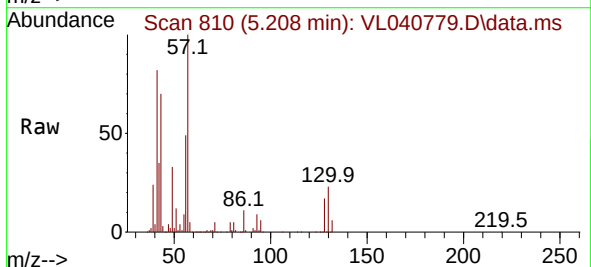
Manual Integrations
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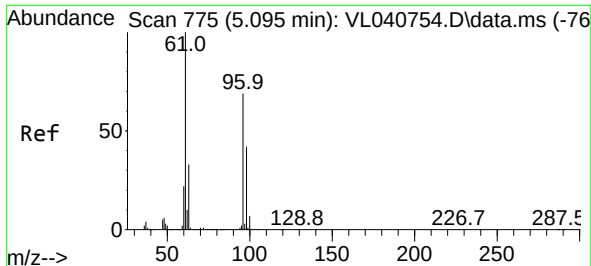
Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023



#26
Hexane
Concen: 5.562 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.022 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

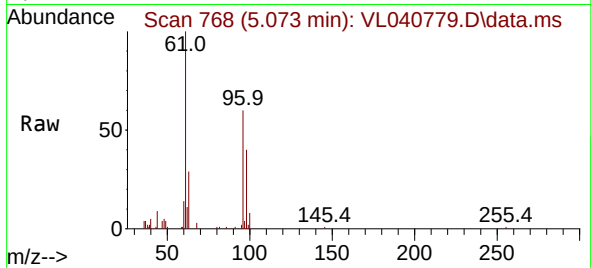
Tgt Ion: 57 Resp: 552531
Ion Ratio Lower Upper
57 100
41 89.2 71.4 107.2
43 72.4 182.3 273.5
56 54.3 42.0 63.0





#31
 cis-1,2-Dichloroethene
 Concen: 0.371 ppbv
 RT: 5.073 min Scan# 70
 Delta R.T. -0.022 min
 Lab File: VL040779.D
 Acq: 23 Oct 2023 15:16

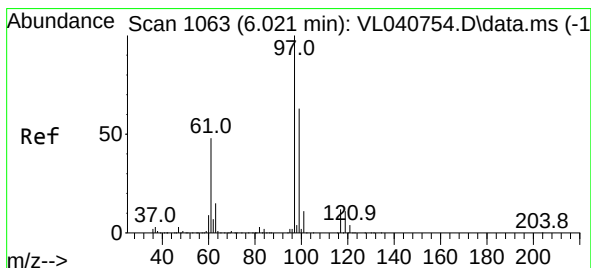
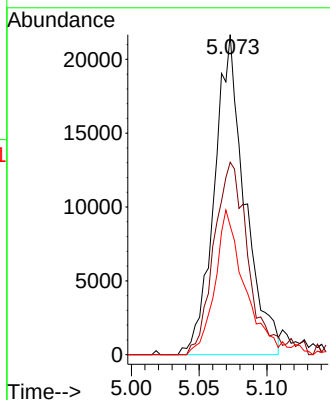
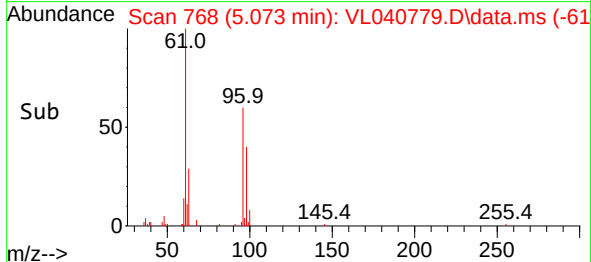
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 61 Resp: 3397
 Ion Ratio Lower Upper
 61 100
 96 60.1 55.1 82.7
 98 40.3 33.5 50.3

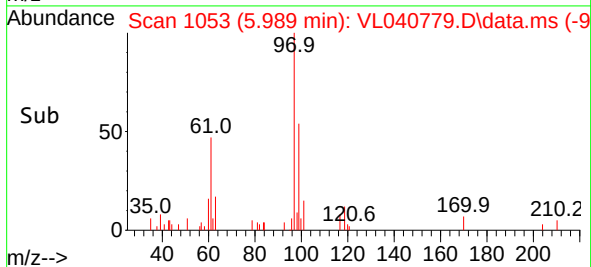
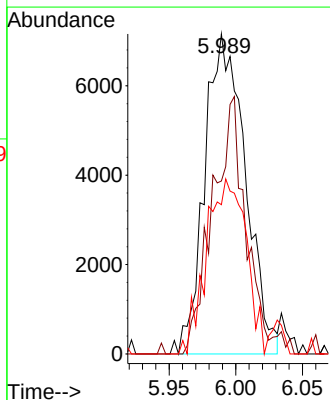
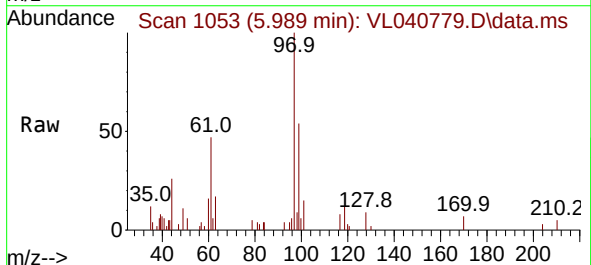
Manual Integrations
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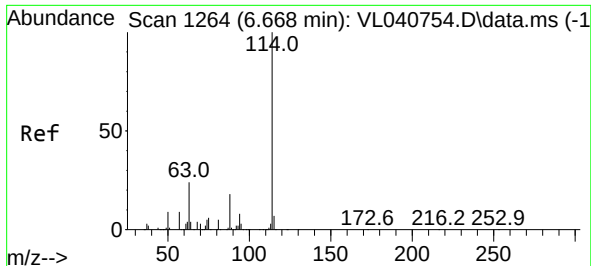
Reviewed By :Semsettin Yesilyurt 10/25/2023
 Supervised By :Mahesh Dadoda 10/25/2023



#32
 1,1,1-Trichloroethane
 Concen: 0.099 ppbv m
 RT: 5.989 min Scan# 1053
 Delta R.T. -0.032 min
 Lab File: VL040779.D
 Acq: 23 Oct 2023 15:16

Tgt Ion: 97 Resp: 15150
 Ion Ratio Lower Upper
 97 100
 99 67.1 51.8 77.6
 61 57.4 38.6 58.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.026 min

Lab File: VL040779.D

Acq: 23 Oct 2023 15:16

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:114 Resp: 2674360

Ion Ratio Lower Upper

114 100

63 23.4 19.8 29.6

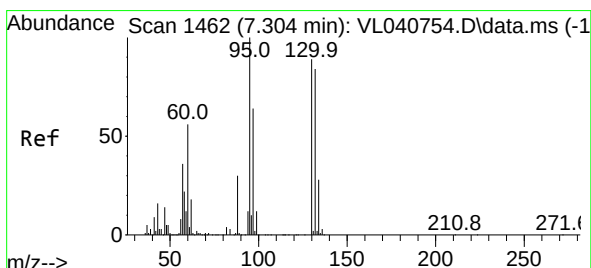
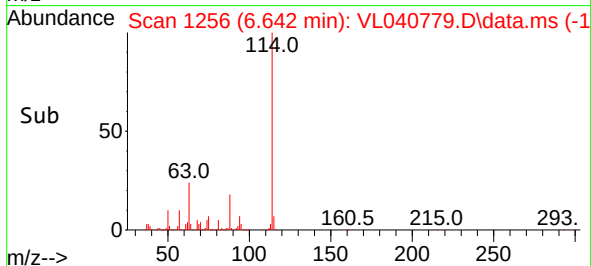
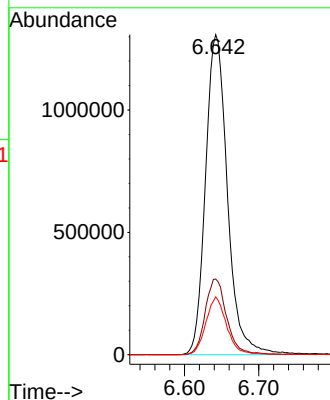
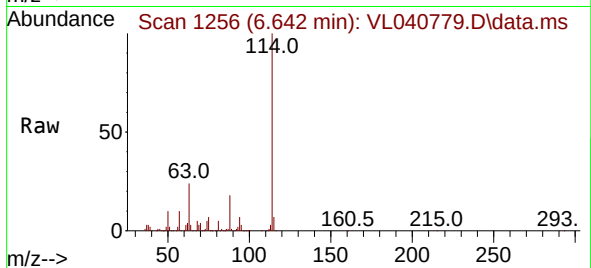
88 17.3 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/25/2023

Supervised By :Mahesh Dadoda 10/25/2023



#38

Trichloroethene

Concen: 0.227 ppbv m

RT: 7.285 min Scan# 1456

Delta R.T. -0.019 min

Lab File: VL040779.D

Acq: 23 Oct 2023 15:16

Tgt Ion:130 Resp: 20697

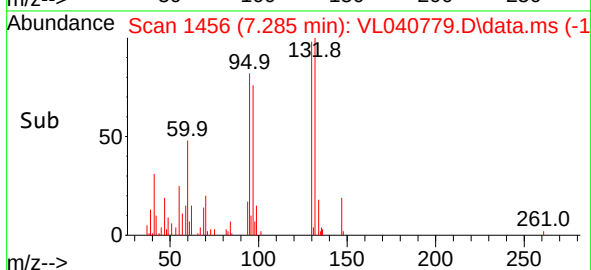
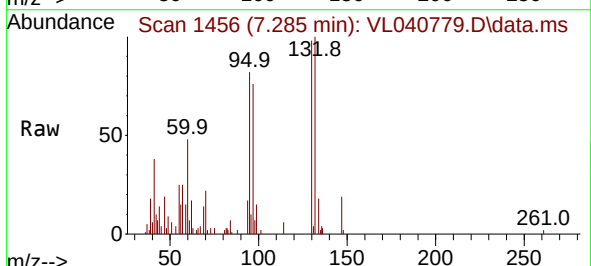
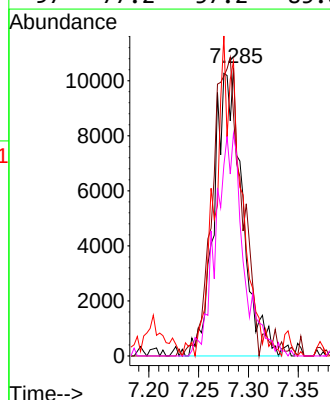
Ion Ratio Lower Upper

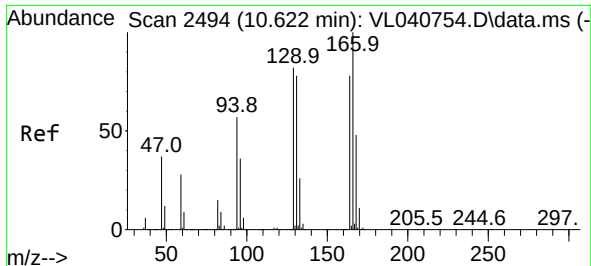
130 100

95 83.7 89.4 134.2#

132 102.2 74.8 112.2

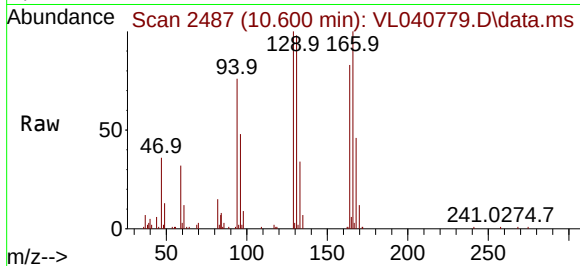
97 77.2 57.2 85.8





#52
Tetrachloroethene
Concen: 0.571 ppbv m
RT: 10.600 min Scan# 2494
Delta R.T. -0.022 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

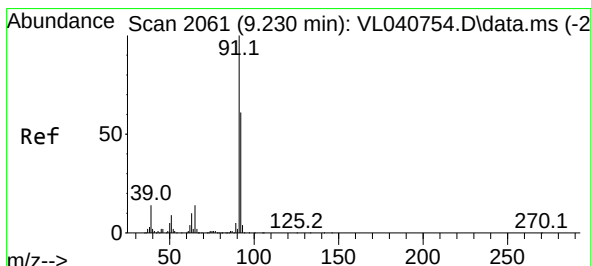
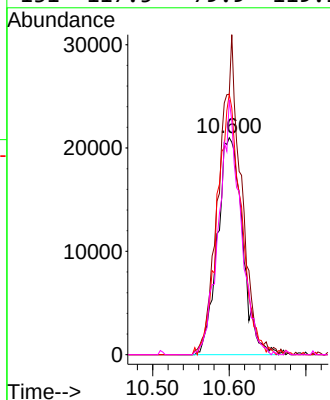
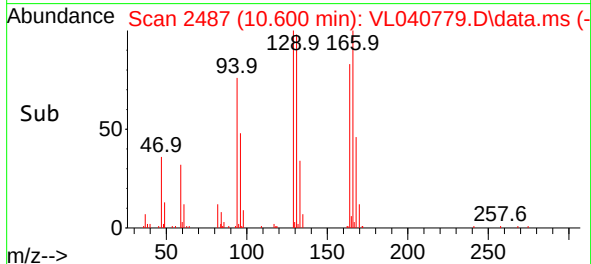
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 47690
Ion Ratio Lower Upper
164 100
166 120.0 102.4 153.6
129 120.1 84.2 126.4
131 117.5 79.9 119.9

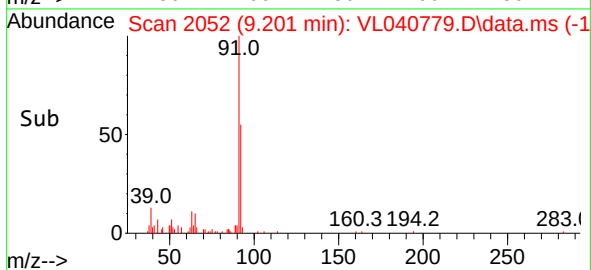
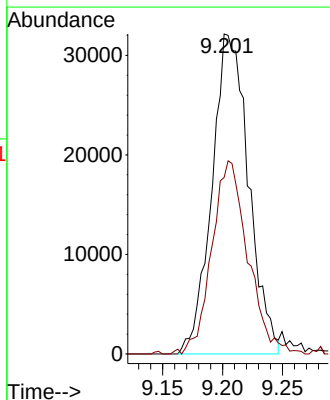
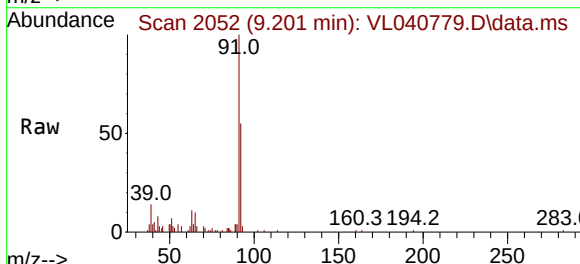
Manual Integrations
APPROVED

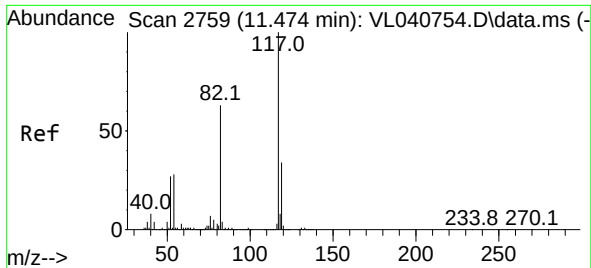
Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023



#53
Toluene
Concen: 0.279 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.029 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

Tgt Ion: 91 Resp: 68243
Ion Ratio Lower Upper
91 100
92 60.0 50.2 75.2





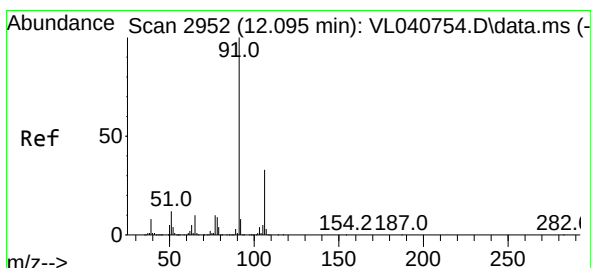
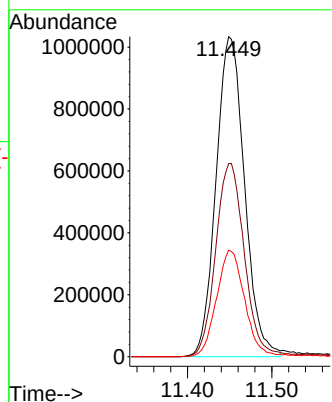
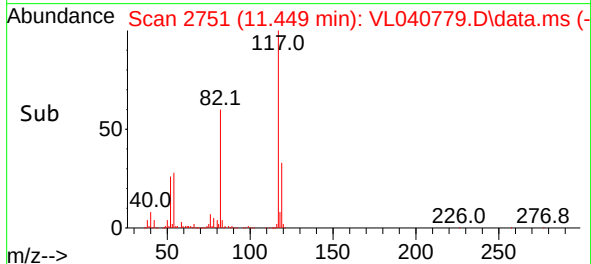
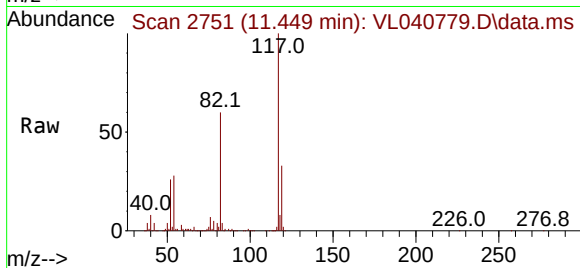
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:117 Resp: 242682
Ion Ratio Lower Upper
117 100
82 61.5 46.6 70.0
119 33.2 26.0 39.0

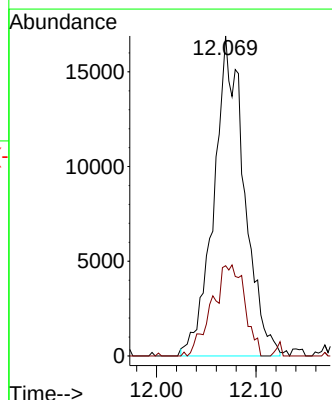
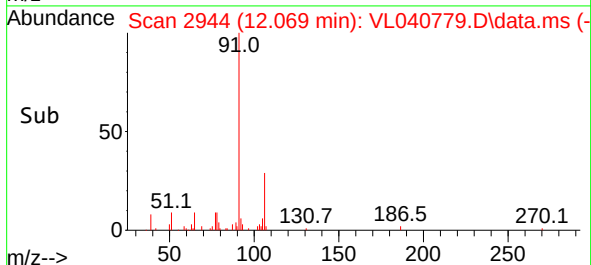
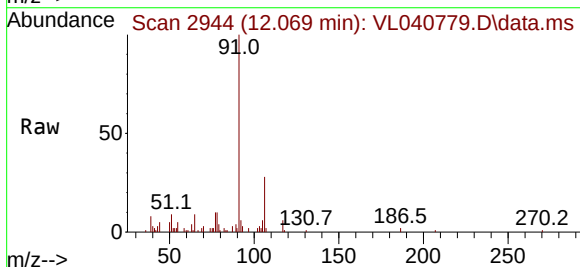
Manual Integrations
APPROVED

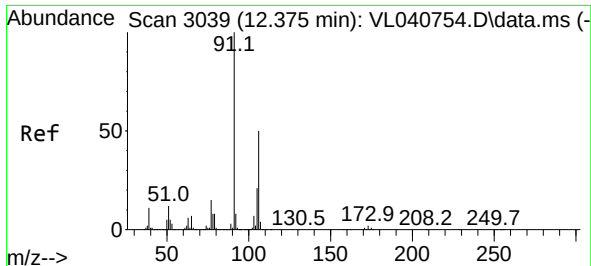
Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023



#58
Ethyl Benzene
Concen: 0.118 ppbv m
RT: 12.069 min Scan# 2944
Delta R.T. -0.026 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

Tgt Ion: 91 Resp: 36014
Ion Ratio Lower Upper
91 100
106 28.2 26.7 40.1





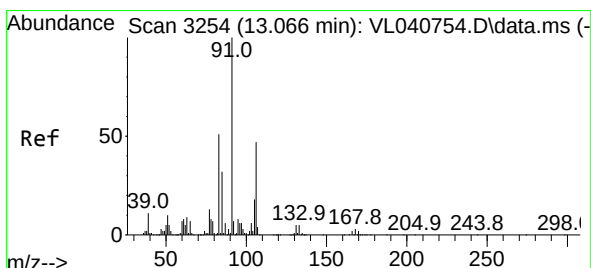
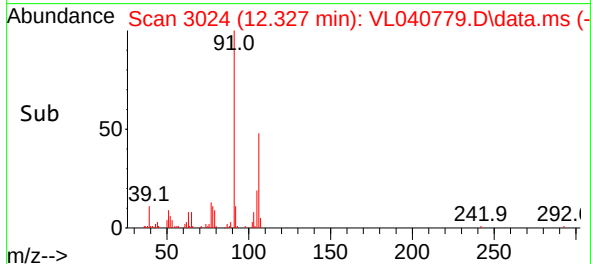
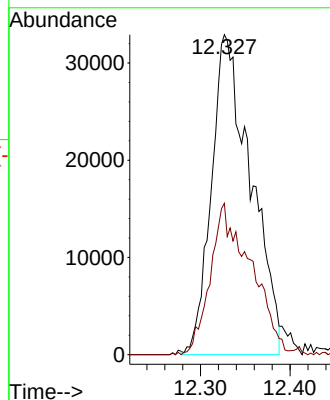
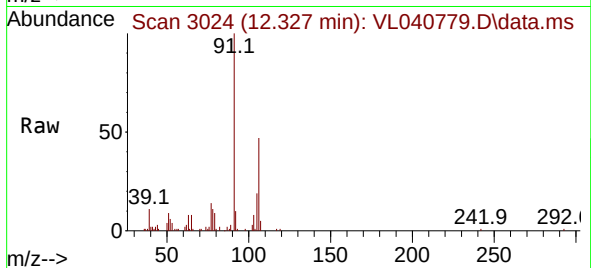
#59
m/p-Xylene
Concen: 0.400 ppbv m
RT: 12.327 min Scan# 3039
Delta R.T. -0.048 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 100529
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5

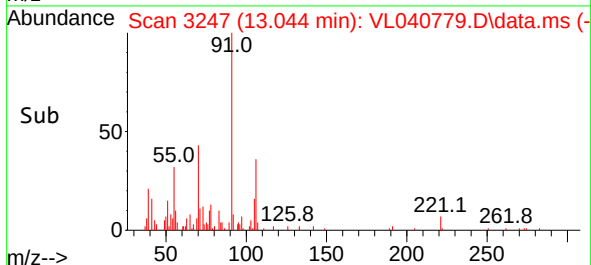
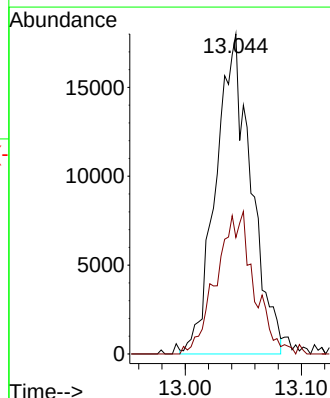
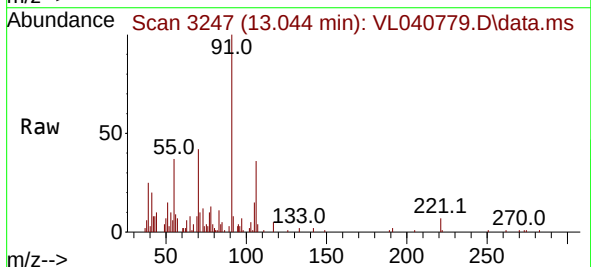
Manual Integrations
APPROVED

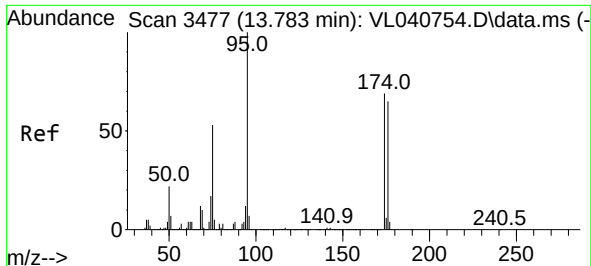
Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023



#60
o-Xylene
Concen: 0.159 ppbv m
RT: 13.044 min Scan# 3247
Delta R.T. -0.022 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

Tgt Ion: 91 Resp: 38087
Ion Ratio Lower Upper
91 100
106 0.0 23.5 70.5





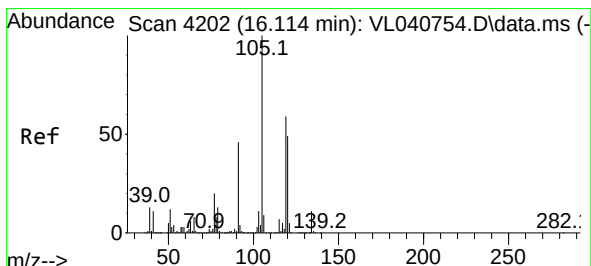
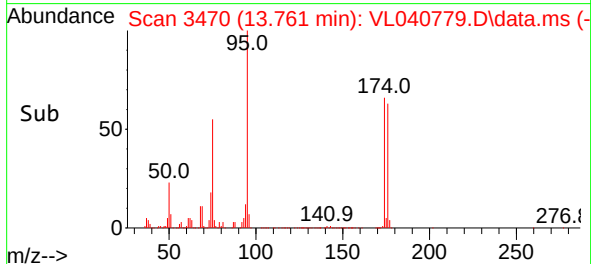
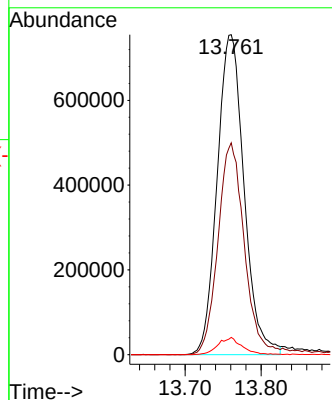
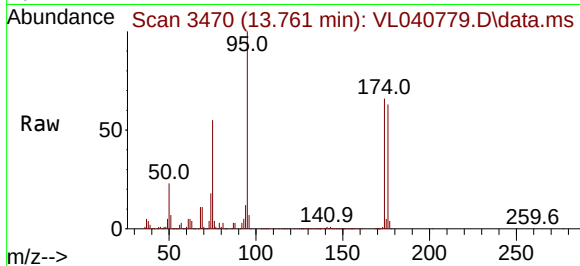
#68
1-Bromo-4-Fluorobenzene
Concen: 10.378 ppbv
RT: 13.761 min Scan# 3477
Delta R.T. -0.022 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 1853218
Ion Ratio Lower Upper
95 100
174 67.1 54.7 82.1
175 4.8 4.2 6.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/25/2023
Supervised By :Mahesh Dadoda 10/25/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.159 ppbv m
RT: 16.098 min Scan# 4197
Delta R.T. -0.016 min
Lab File: VL040779.D
Acq: 23 Oct 2023 15:16

Tgt Ion:105 Resp: 43033
Ion Ratio Lower Upper
105 100
120 30.6 39.4 59.2#
91 13.7 38.6 58.0#
77 9.4 16.6 25.0#

