

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041263.D
 Acq On : 21 May 2024 13:33
 Operator : SY/MD
 Sample : P2533-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

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

Quant Time: May 22 05:43:40 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 : Wed May 22 05:39:49 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1069117	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2838989	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2655910	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.774 95 2103636 10.492 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.742	85	14967	0.103	ppbv	90
3) Chlorodifluoromethane	2.687	51	34230	0.211	ppbv	97
9) Propene	2.719	41	753955m	11.865	ppbv	
10) Heptane	7.584	43	885074	5.749	ppbv	96
13) Ethanol	3.260	45	20210m	1.419	ppbv	
15) Acetone	3.501	43	974029	7.720	ppbv #	69
20) Methylene Chloride	3.944	84	70665	1.611	ppbv	95
26) Hexane	5.218	57	1412750	12.570	ppbv #	40
27) Carbon Disulfide	4.134	76	43558	0.327	ppbv #	79
29) Chloroform	5.279	83	21815m	0.141	ppbv	
34) 2-Butanone	4.796	43	493225	3.413	ppbv	99
36) Benzene	6.375	78	16702m	0.070	ppbv	
38) Trichloroethene	7.292	130	20639m	0.232	ppbv	
52) Tetrachloroethene	10.616	164	684370	8.173	ppbv	95
53) Toluene	9.224	91	166136m	0.601	ppbv	
58) Ethyl Benzene	12.086	91	61600m	0.169	ppbv	
59) m/p-Xylene	12.343	91	160482m	0.524	ppbv	
60) o-Xylene	13.053	91	94416	0.329	ppbv	99
64) n-propylbenzene	14.915	120	14583m	0.136	ppbv	
65) tert-Butylbenzene	16.105	119	33410m	0.087	ppbv	
70) n-Butylbenzene	17.889	91	54623m	0.117	ppbv	
72) 4-Ethyltoluene	15.192	105	65949m	0.203	ppbv	
73) 1,3,5-Trimethylbenzene	15.349	105	82410	0.280	ppbv	97
74) 1,2,4-Trimethylbenzene	16.105	105	299813	0.934	ppbv #	64

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

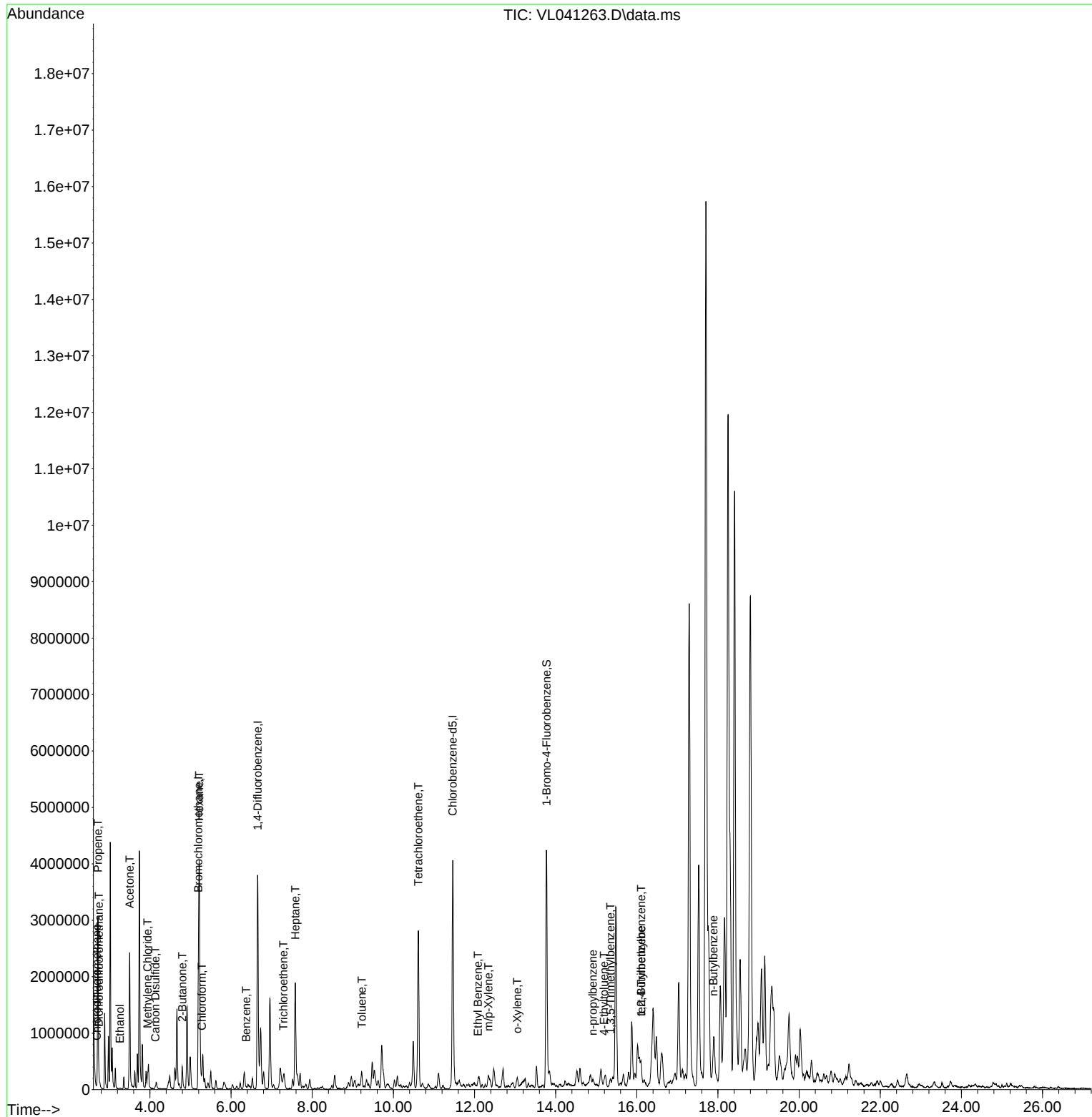
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
Data File : VL041263.D
Acq On : 21 May 2024 13:33
Operator : SY/MD
Sample : P2533-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

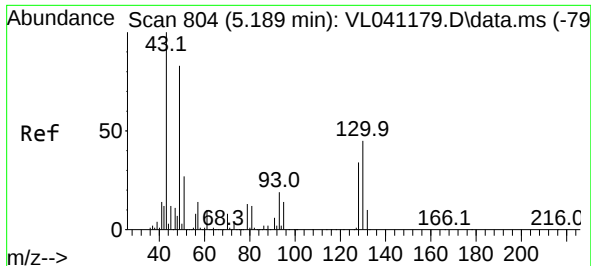
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: May 22 05:43:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed May 22 05:39:49 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

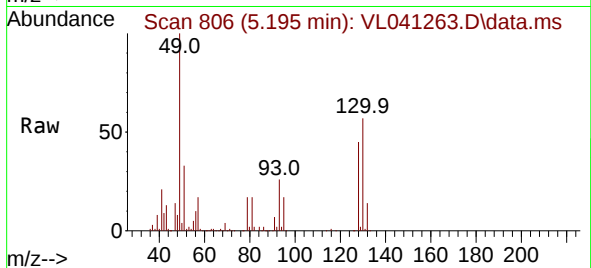
Reviewed By : Semsettin Yesilyurt 05/22/2024
Supervised By : Mahesh Dadoda 05/22/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 804
Delta R.T. -0.006 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

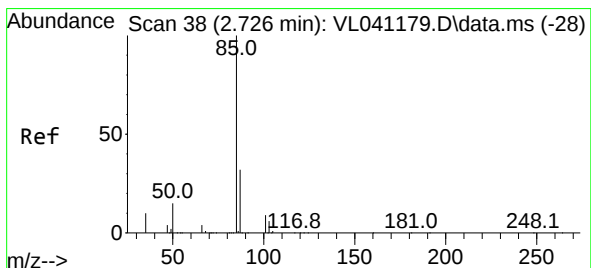
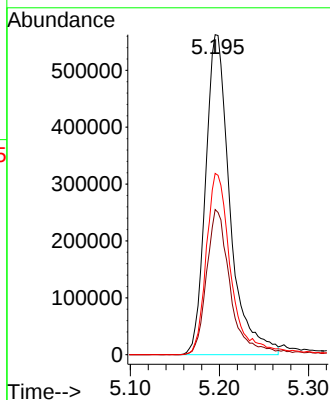
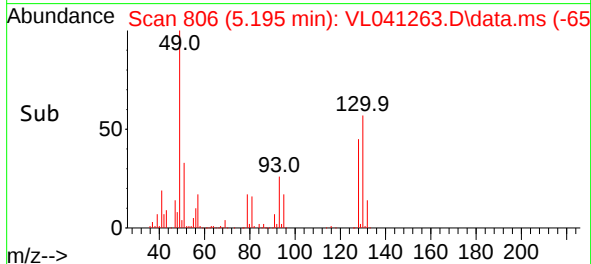
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 106911
Ion Ratio Lower Upper
49 100
128 45.5 21.5 64.5
130 59.1 27.2 81.6

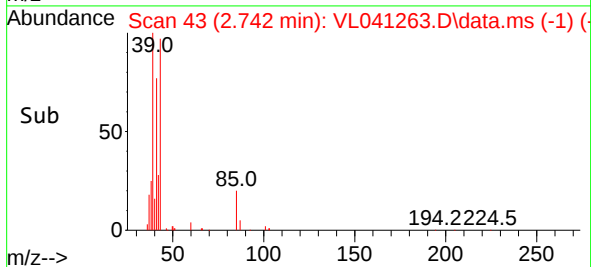
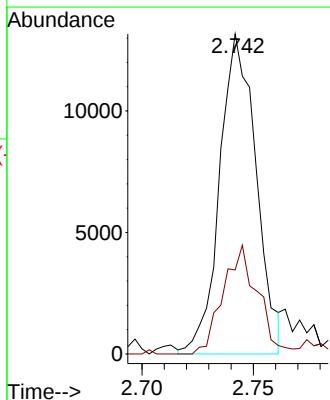
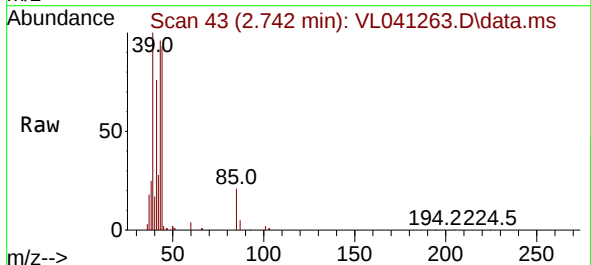
Manual Integrations
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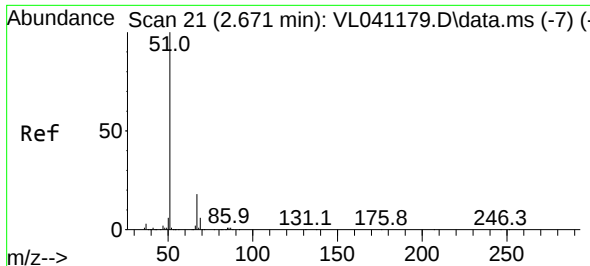
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#2
Dichlorodifluoromethane
Concen: 0.103 ppbv
RT: 2.742 min Scan# 43
Delta R.T. -0.006 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Tgt Ion: 85 Resp: 14967
Ion Ratio Lower Upper
85 100
87 26.6 25.7 38.5





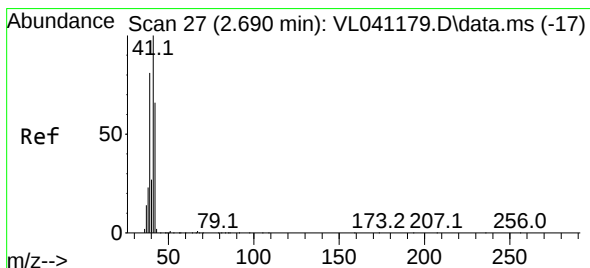
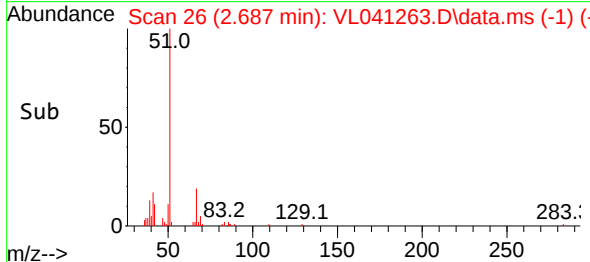
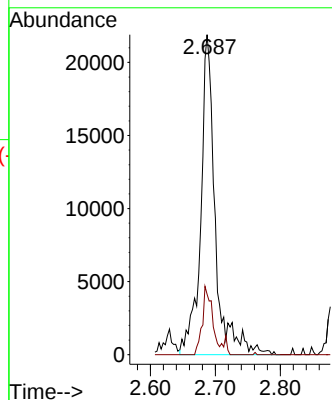
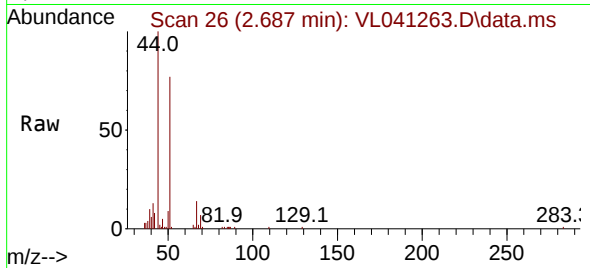
#3
Chlorodifluoromethane
Concen: 0.211 ppbv
RT: 2.687 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 34230
Ion Ratio Lower Upper
51 100
67 16.3 14.0 21.0

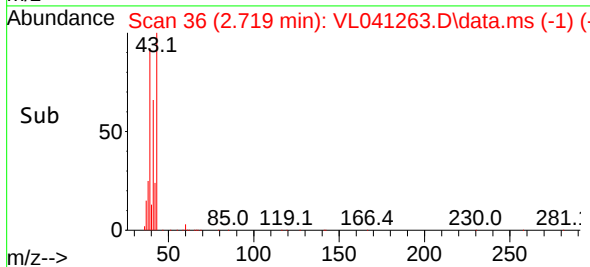
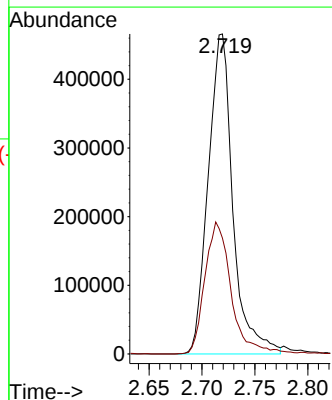
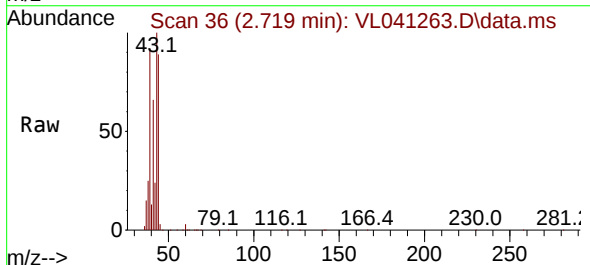
Manual Integrations
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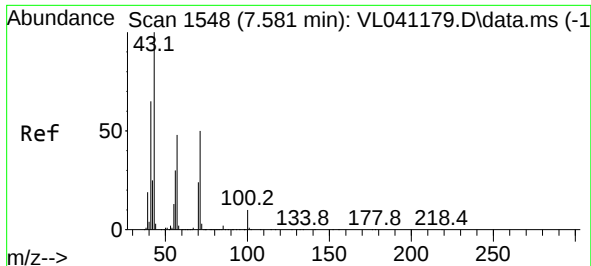
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#9
Propene
Concen: 11.865 ppbv m
RT: 2.719 min Scan# 36
Delta R.T. 0.006 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

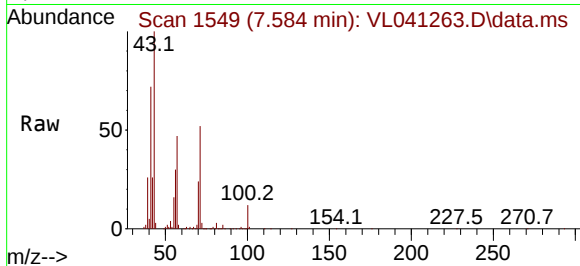
Tgt Ion: 41 Resp: 753955
Ion Ratio Lower Upper
41 100
42 32.2 55.3 82.9#





#10
Heptane
Concen: 5.749 ppbv
RT: 7.584 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

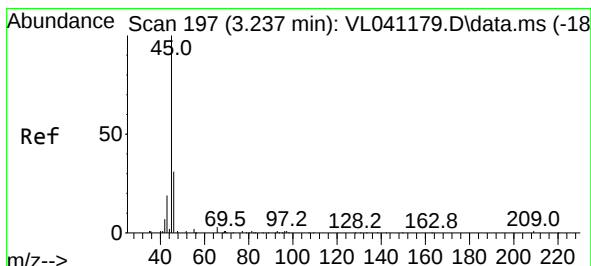
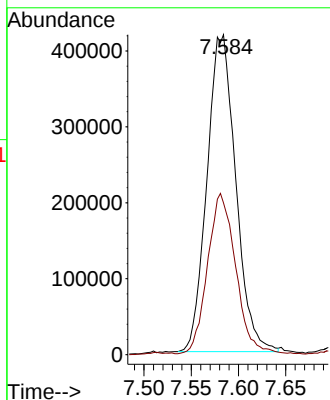
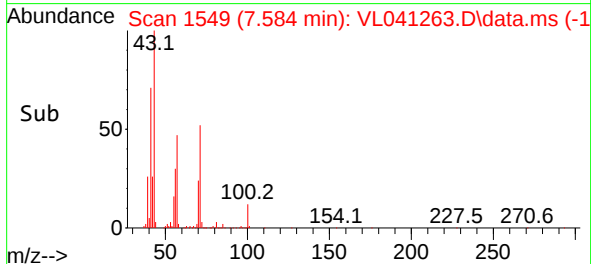
Instrument :
MSVOA_L
ClientSampleId :
SV1



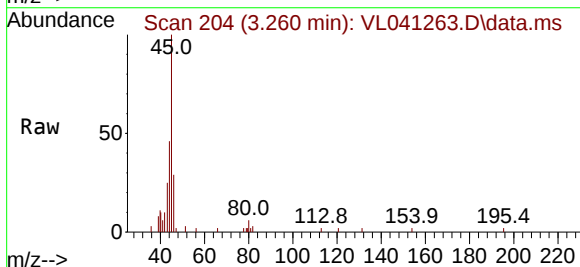
Tgt Ion: 43 Resp: 885074
Ion Ratio Lower Upper
43 100
57 50.9 38.7 58.1

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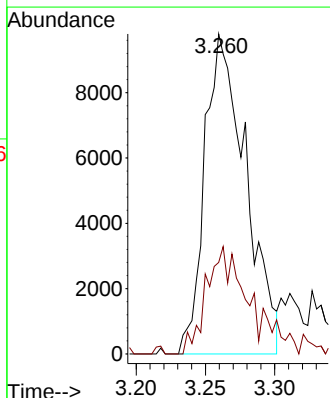
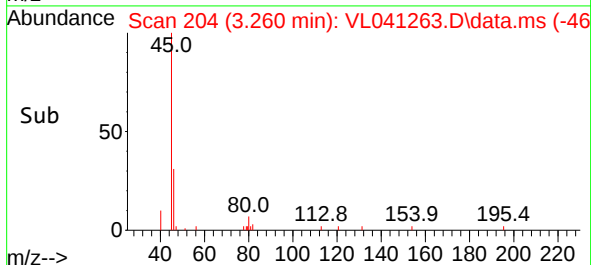
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

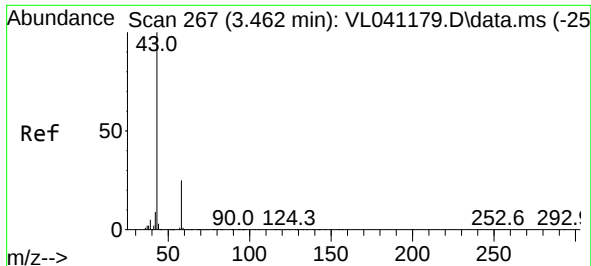


#13
Ethanol
Concen: 1.419 ppbv m
RT: 3.260 min Scan# 204
Delta R.T. 0.006 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33



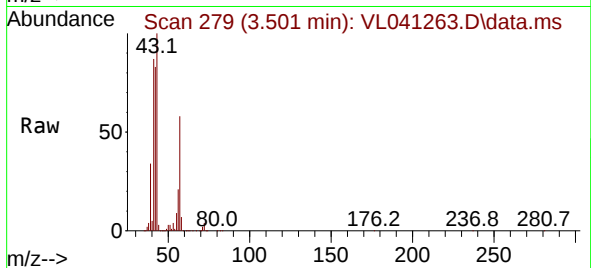
Tgt Ion: 45 Resp: 20210
Ion Ratio Lower Upper
45 100
46 38.5 14.8 59.0





#15
Acetone
Concen: 7.720 ppbv
RT: 3.501 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

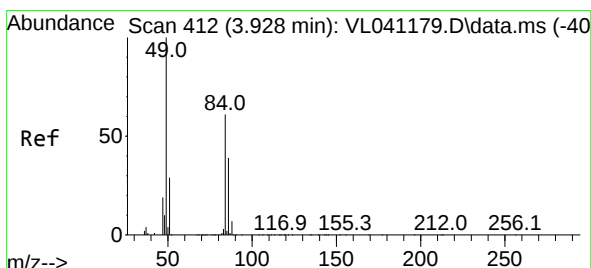
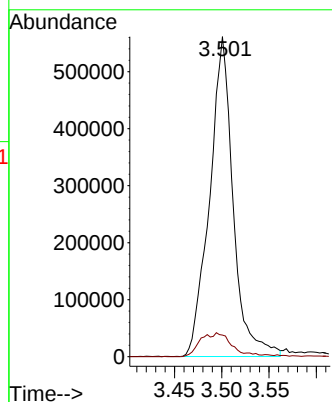
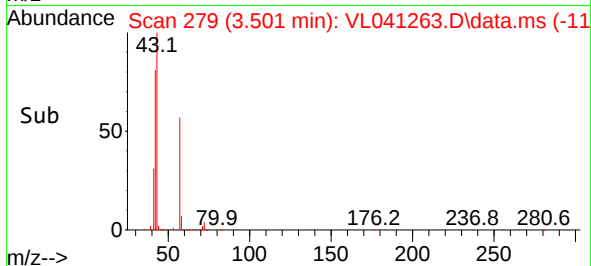
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 974029
Ion Ratio Lower Upper
43 100
58 10.5 21.4 32.0

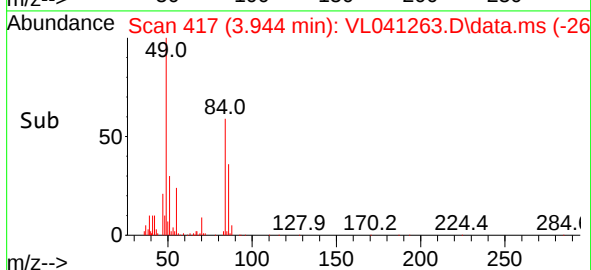
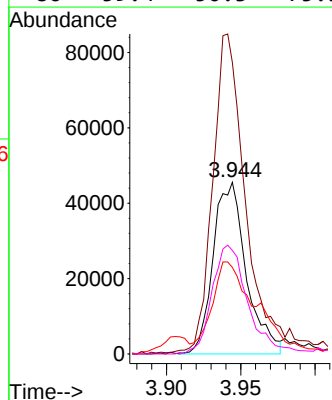
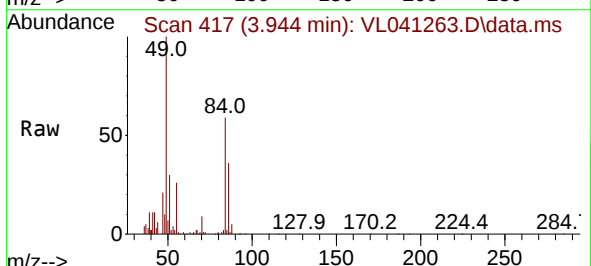
Manual Integrations
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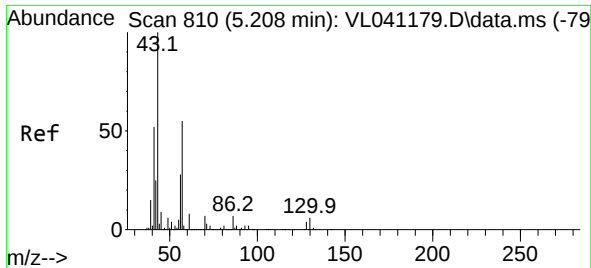
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#20
Methylene Chloride
Concen: 1.611 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.000 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

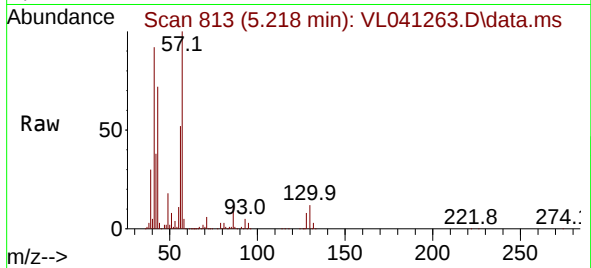
Tgt Ion: 84 Resp: 70665
Ion Ratio Lower Upper
84 100
49 167.7 130.4 195.6
51 40.4 38.0 57.0
86 59.4 50.3 75.5





#26
Hexane
Concen: 12.570 ppbv
RT: 5.218 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

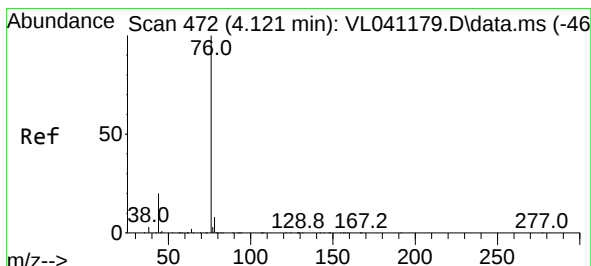
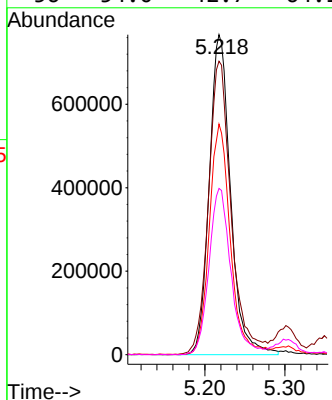
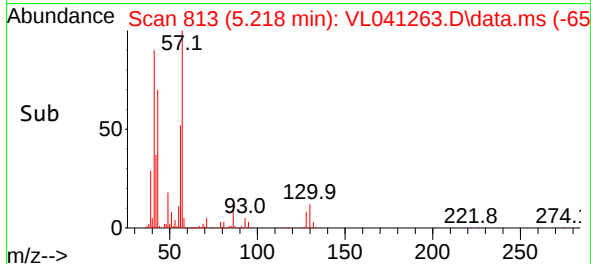
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 1412750
Ion Ratio Lower Upper
57 100
41 98.0 75.8 113.8
43 71.8 187.0 280.4
56 54.0 42.7 64.1

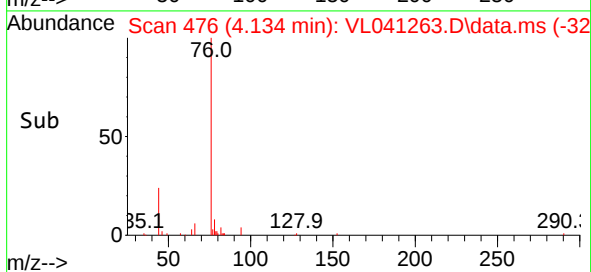
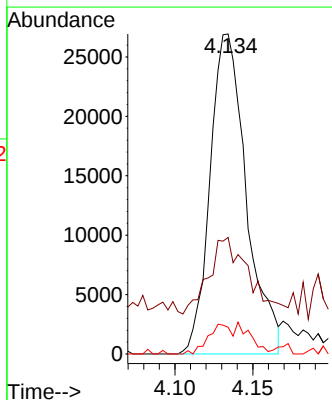
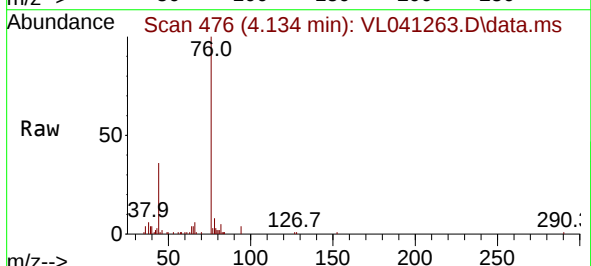
Manual Integrations
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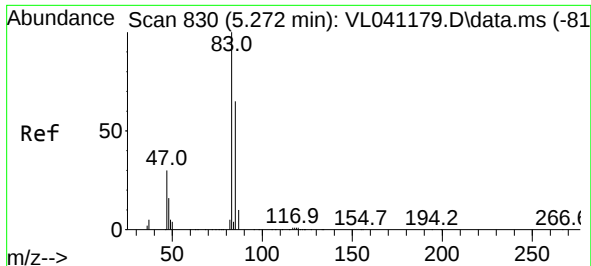
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#27
Carbon Disulfide
Concen: 0.327 ppbv
RT: 4.134 min Scan# 476
Delta R.T. 0.000 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Tgt Ion: 76 Resp: 43558
Ion Ratio Lower Upper
76 100
44 32.6 16.3 24.5#
78 11.9 7.3 10.9#





#29

Chloroform

Concen: 0.141 ppbv m

RT: 5.279 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041263.D

Acq: 21 May 2024 13:33

Instrument :

MSVOA_L

ClientSampleId :

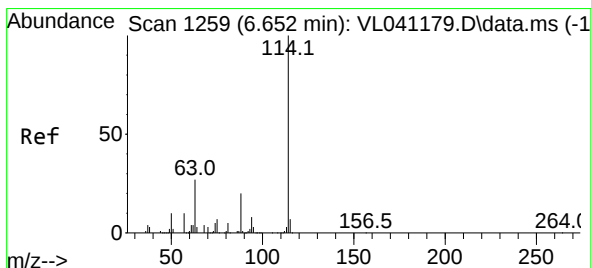
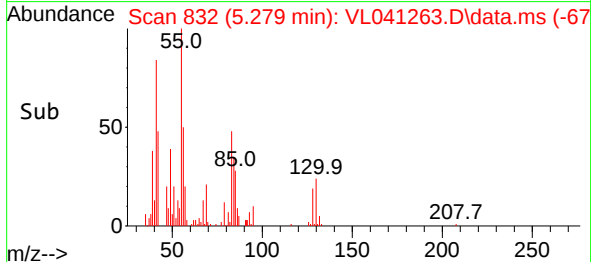
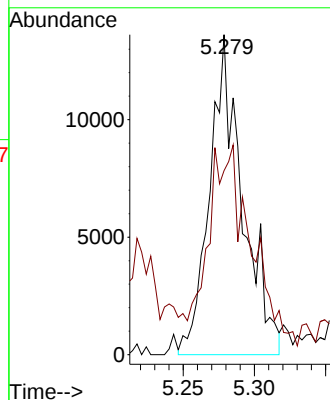
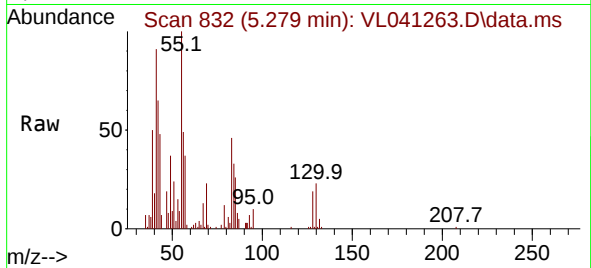
SV1

Tgt Ion: 83 Resp: 21815
 Ion Ratio Lower Upper
 83 100
 85 57.5 51.7 77.5

Manual Integrations

APPROVED

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

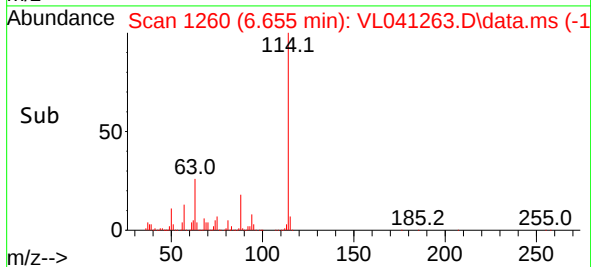
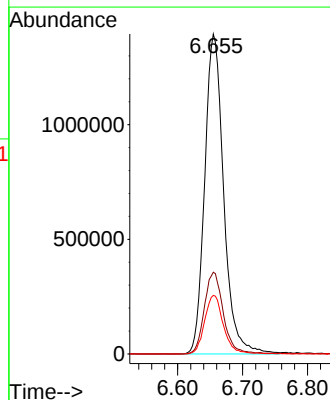
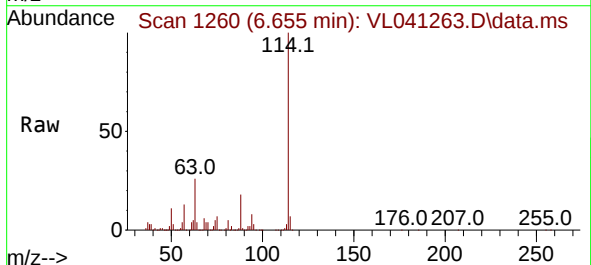
RT: 6.655 min Scan# 1260

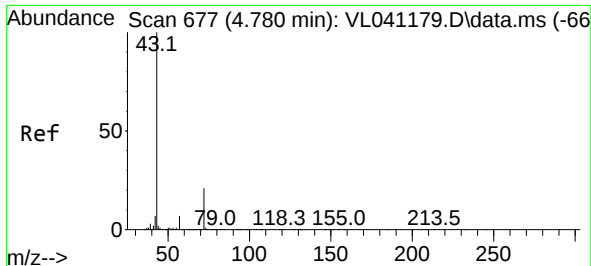
Delta R.T. -0.003 min

Lab File: VL041263.D

Acq: 21 May 2024 13:33

Tgt Ion:114 Resp: 2838989
 Ion Ratio Lower Upper
 114 100
 63 25.8 21.8 32.6
 88 18.2 15.2 22.8





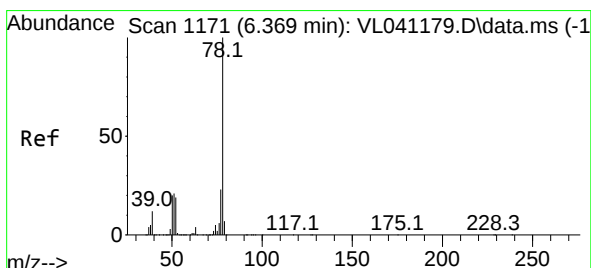
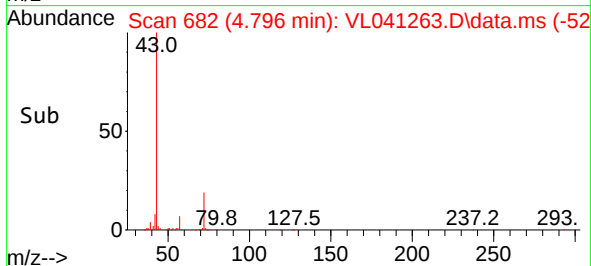
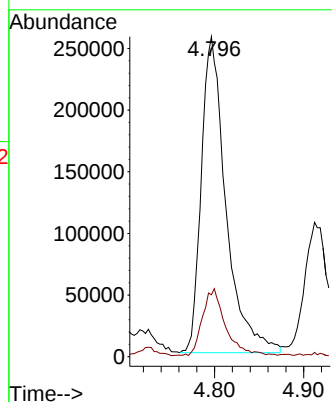
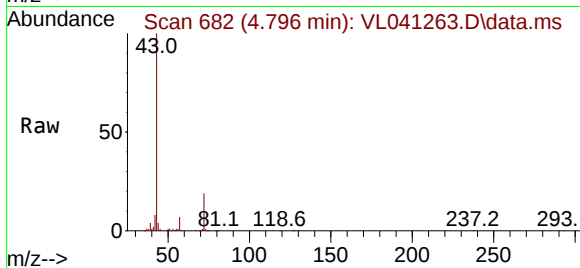
#34
2-Butanone
Concen: 3.413 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 493225
Ion Ratio Lower Upper
43 100
72 21.2 17.3 25.9

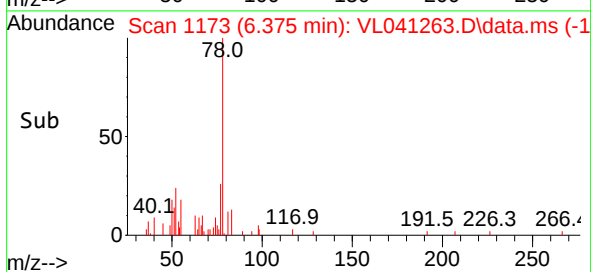
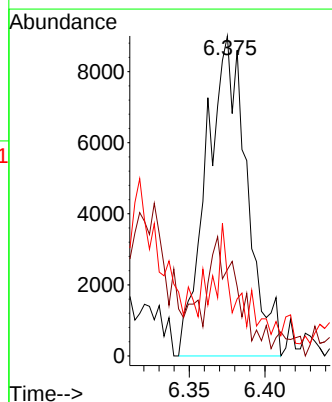
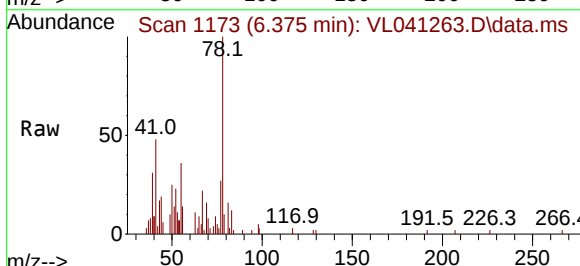
Manual Integrations
APPROVED

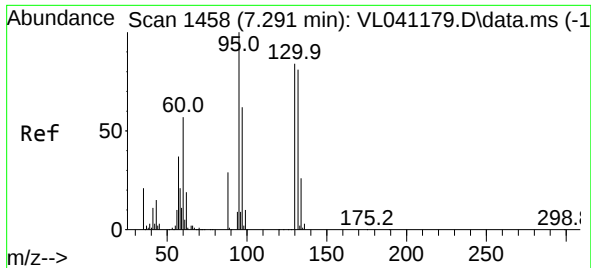
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#36
Benzene
Concen: 0.070 ppbv m
RT: 6.375 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Tgt Ion: 78 Resp: 16702
Ion Ratio Lower Upper
78 100
77 27.0 18.3 27.5
50 24.8 15.9 23.9#





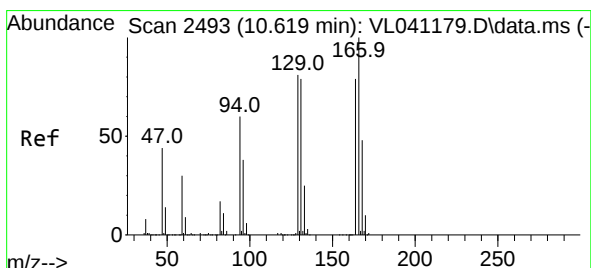
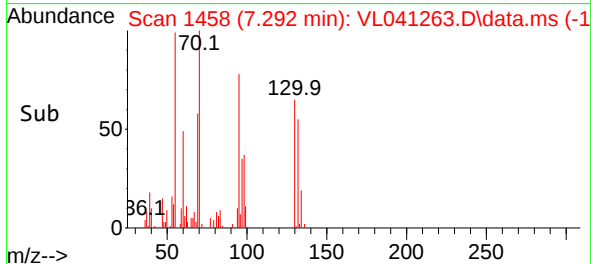
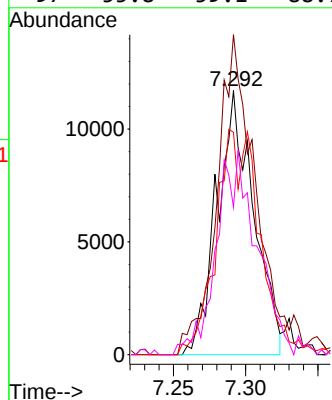
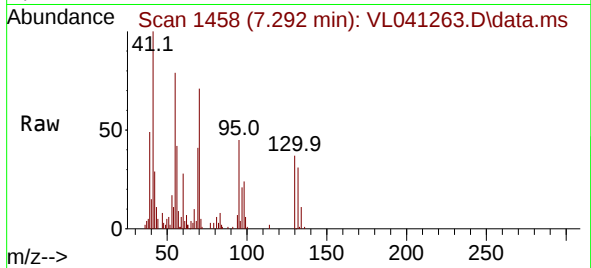
#38
Trichloroethene
Concen: 0.232 ppbv m
RT: 7.292 min Scan# 1458
Delta R.T. 0.000 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:	130	Resp:	20639
Ion Ratio	Lower	Upper	
130	100		
95	121.2	95.0	142.6
132	84.2	77.0	115.4
97	55.8	59.1	88.7#

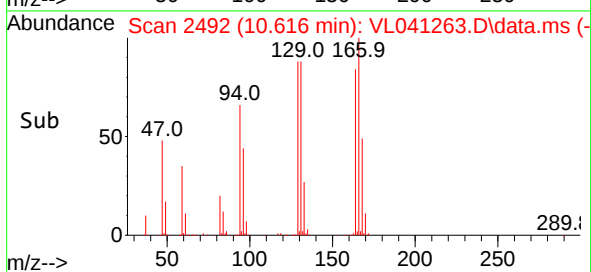
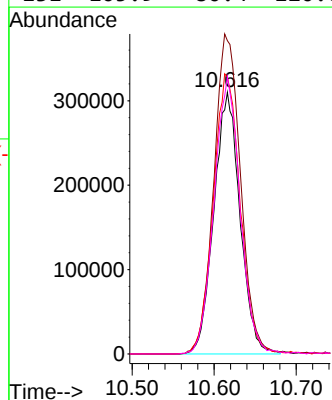
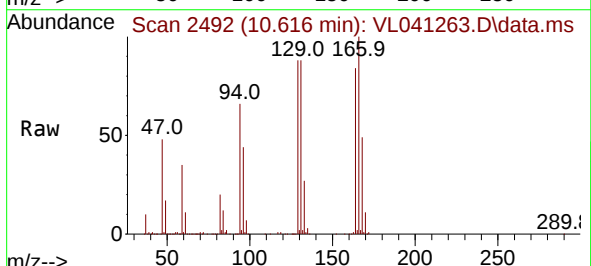
Manual Integrations
APPROVED

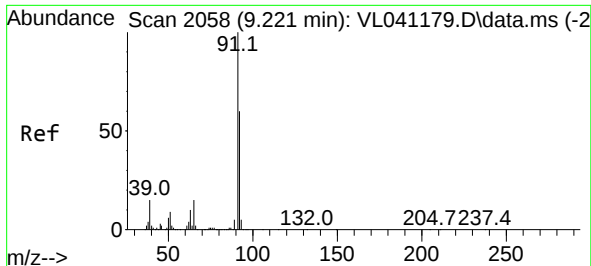
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#52
Tetrachloroethene
Concen: 8.173 ppbv
RT: 10.616 min Scan# 2492
Delta R.T. 0.000 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

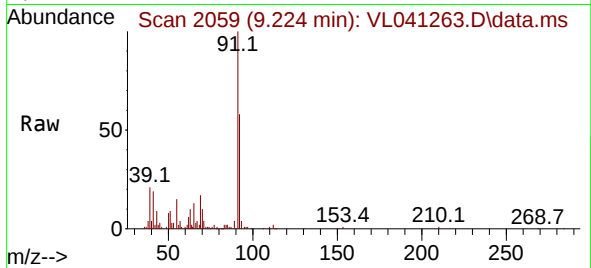
Tgt Ion:	164	Resp:	684370
Ion Ratio	Lower	Upper	
164	100		
166	119.8	101.1	151.7
129	105.6	81.7	122.5
131	105.9	80.4	120.6





#53
Toluene
Concen: 0.601 ppbv m
RT: 9.224 min Scan# 2058
Delta R.T. 0.003 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

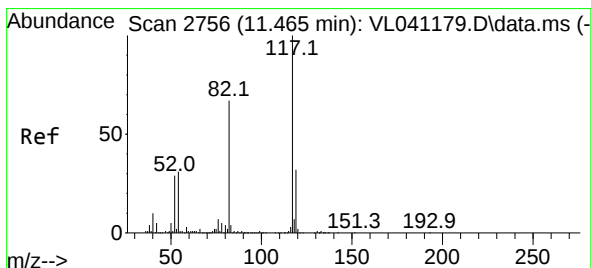
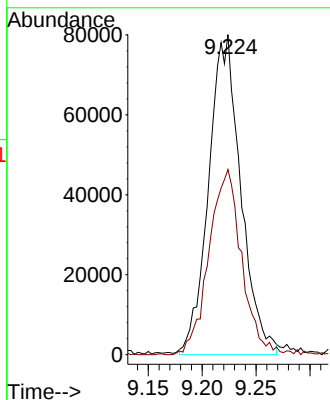
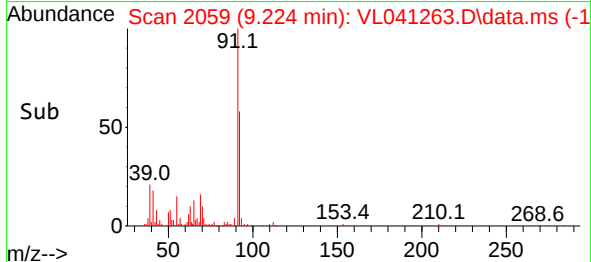
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 166130
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.4

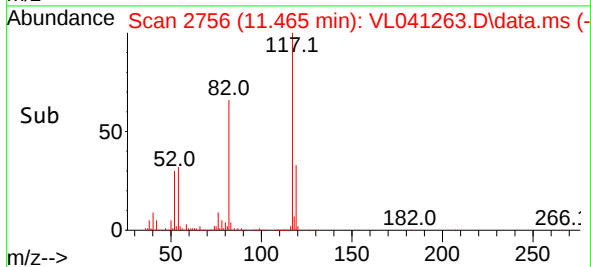
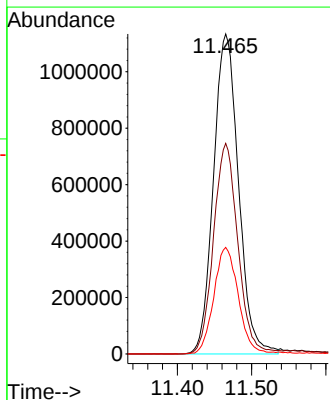
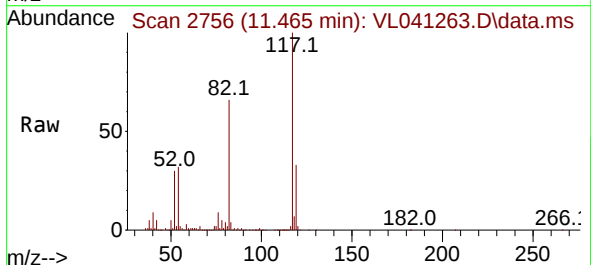
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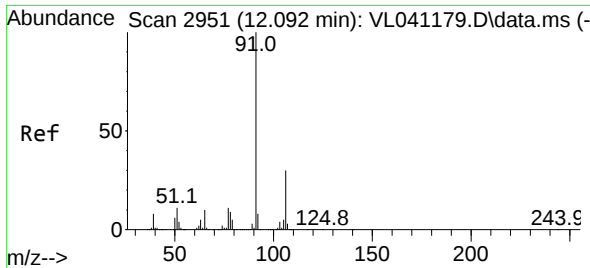
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. 0.000 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Tgt Ion:117 Resp: 2655910
Ion Ratio Lower Upper
117 100
82 65.9 53.6 80.4
119 33.0 27.2 40.8





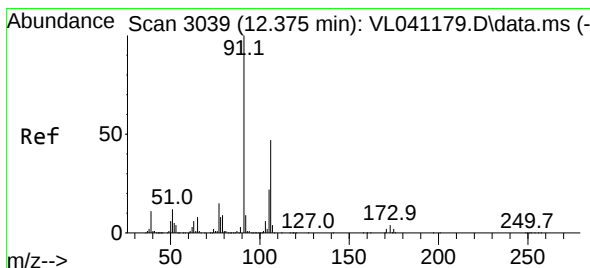
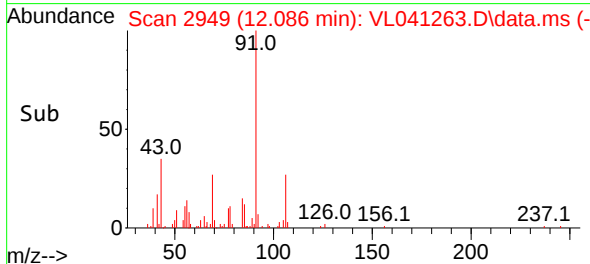
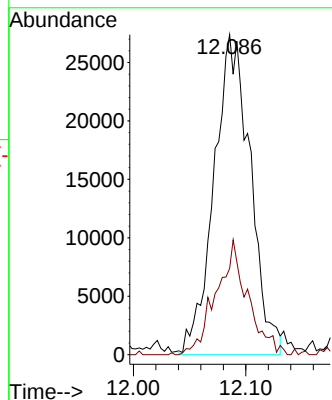
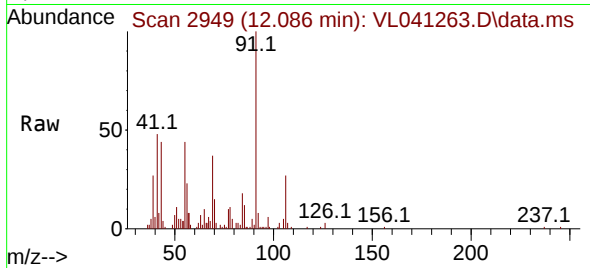
#58
Ethyl Benzene
Concen: 0.169 ppbv m
RT: 12.086 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 61600
Ion Ratio Lower Upper
91 100
106 27.0 24.3 36.5

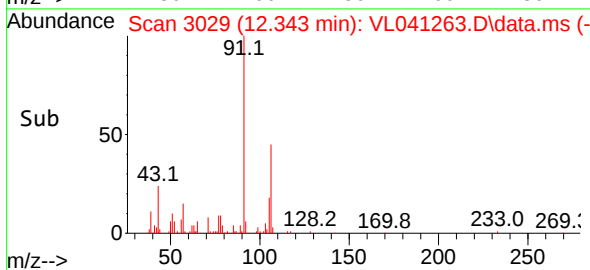
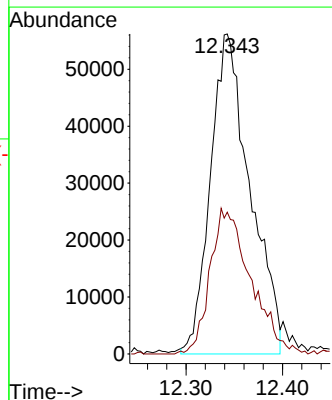
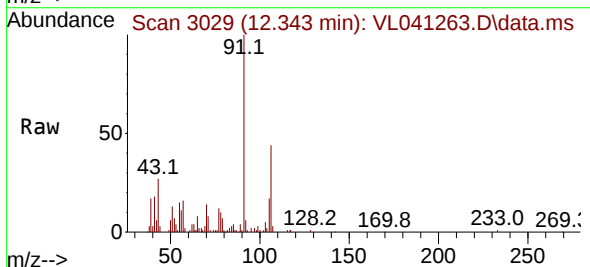
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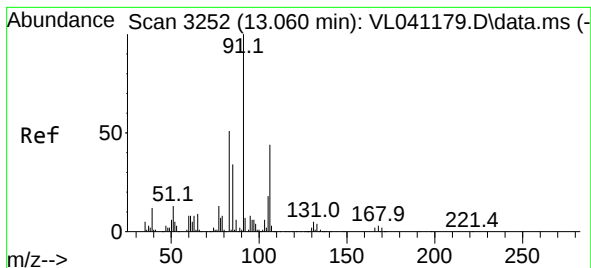
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#59
m/p-Xylene
Concen: 0.524 ppbv m
RT: 12.343 min Scan# 3029
Delta R.T. -0.022 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Tgt Ion: 91 Resp: 160482
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#





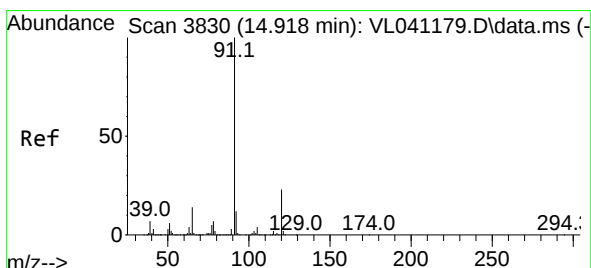
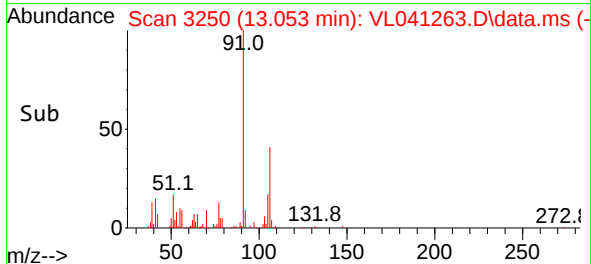
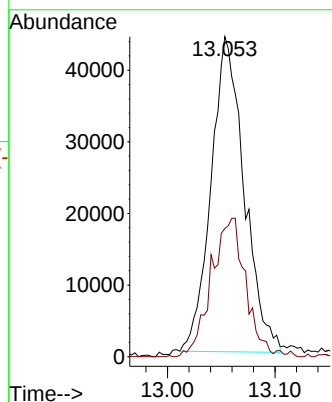
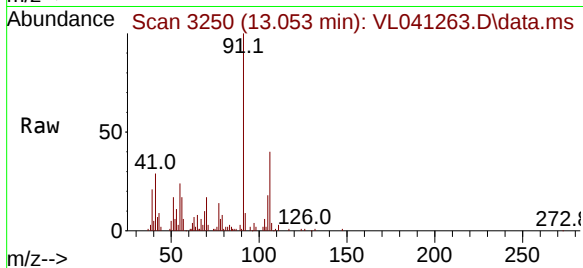
#60
o-Xylene
Concen: 0.329 ppbv
RT: 13.053 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 94410
Ion Ratio Lower Upper
91 100
106 45.8 22.4 67.3

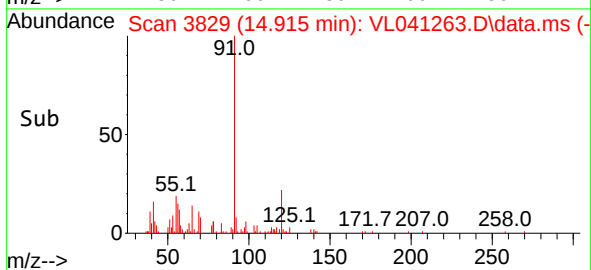
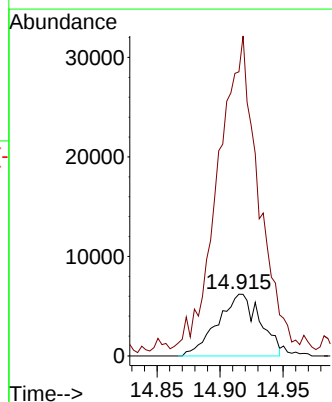
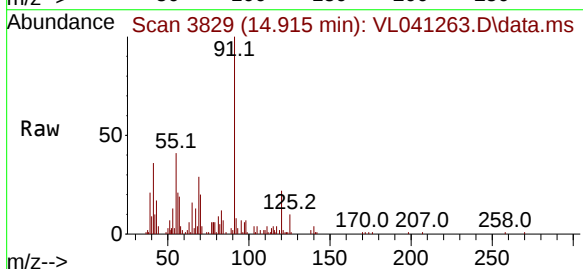
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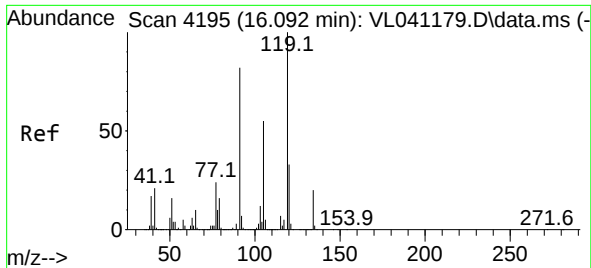
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#64
n-propylbenzene
Concen: 0.136 ppbv m
RT: 14.915 min Scan# 3829
Delta R.T. 0.003 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

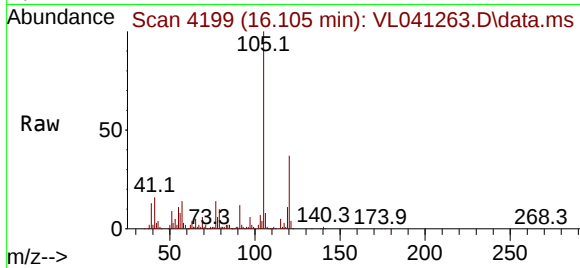
Tgt Ion:120 Resp: 14583
Ion Ratio Lower Upper
120 100
91 475.9 384.8 577.2





#65
tert-Butylbenzene
Concen: 0.087 ppbv m
RT: 16.105 min Scan# 4195
Delta R.T. 0.016 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

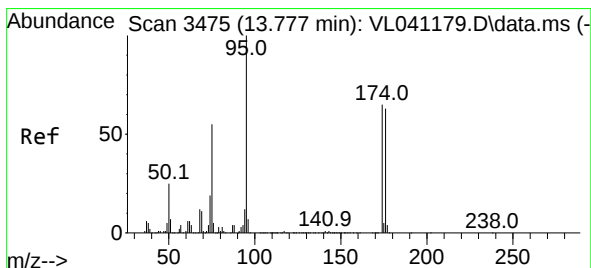
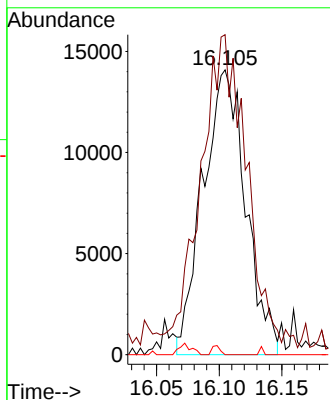
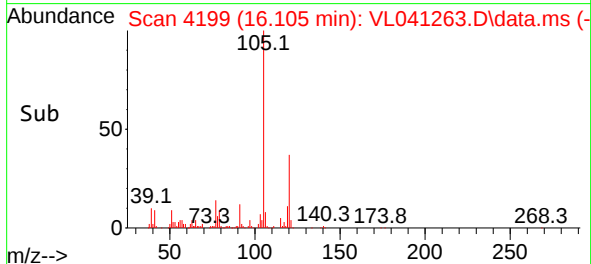
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:119 Resp: 33410
Ion Ratio Lower Upper
119 100
91 0.0 67.0 100.4
134 1.7 15.2 22.8

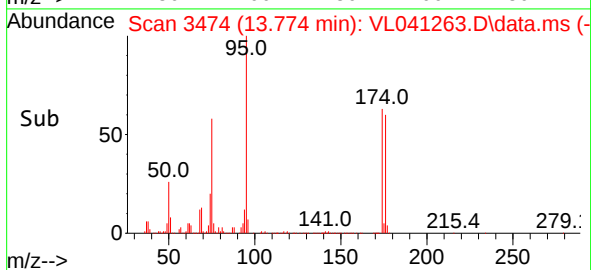
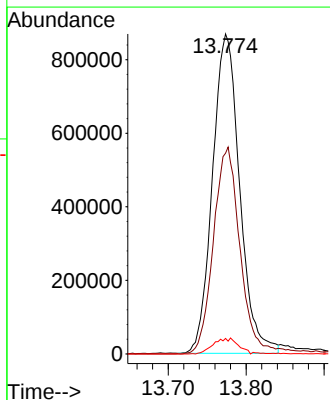
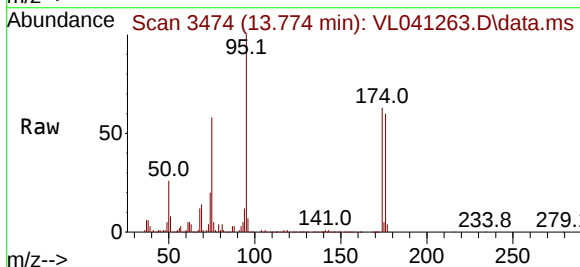
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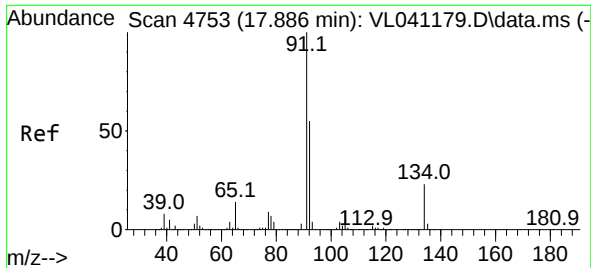
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.492 ppbv
RT: 13.774 min Scan# 3474
Delta R.T. 0.000 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Tgt Ion: 95 Resp: 2103636
Ion Ratio Lower Upper
95 100
174 65.5 53.6 80.4
175 4.9 4.2 6.4





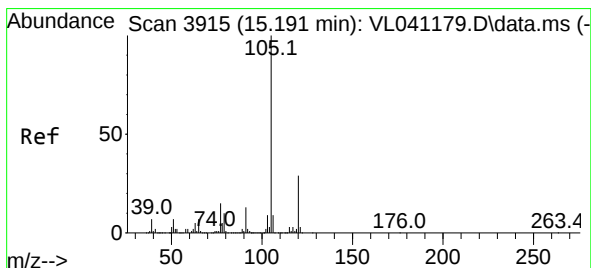
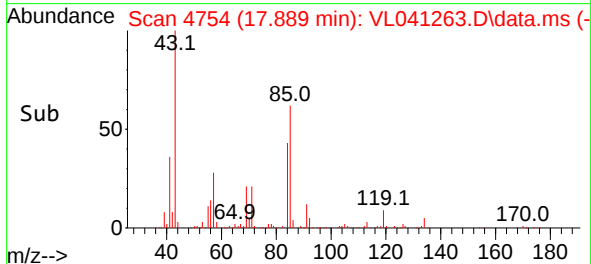
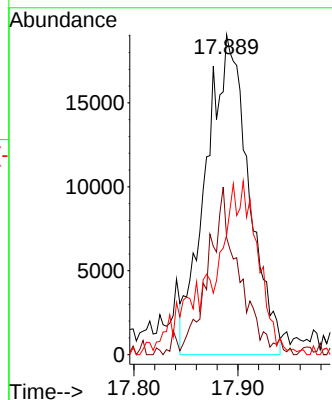
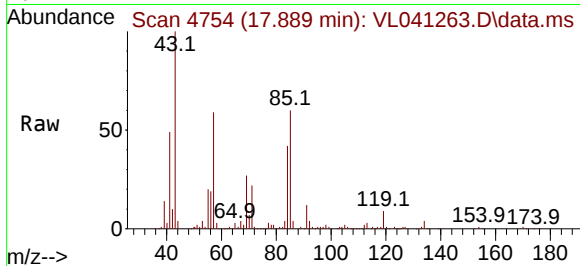
#70
n-Butylbenzene
Concen: 0.117 ppbv m
RT: 17.889 min Scan# 4753
Delta R.T. 0.006 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 5462
Ion Ratio Lower Upper
91 100
92 0.0 43.3 64.9
134 0.0 17.8 26.8

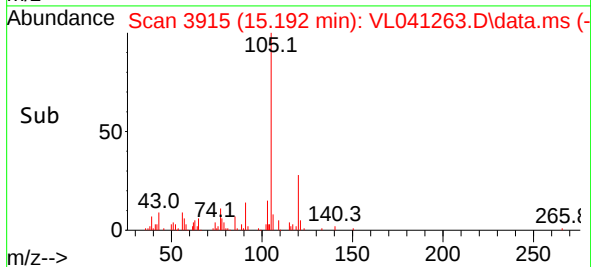
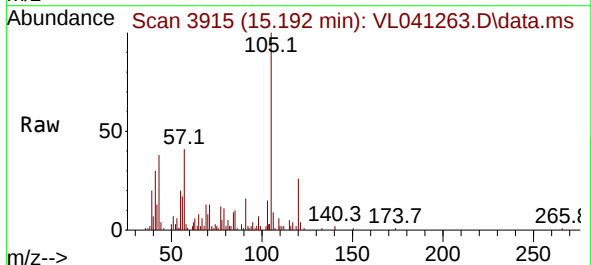
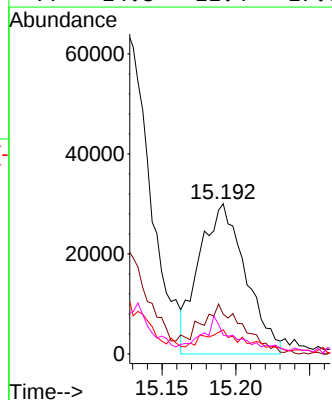
Manual Integrations
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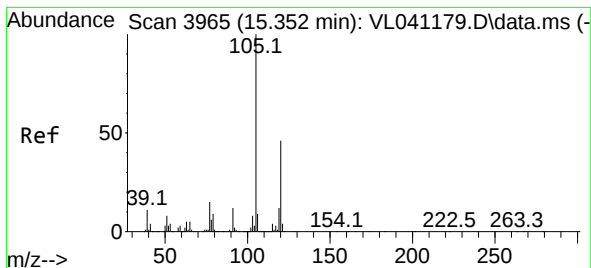
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#72
4-Ethyltoluene
Concen: 0.203 ppbv m
RT: 15.192 min Scan# 3915
Delta R.T. 0.003 min
Lab File: VL041263.D
Acq: 21 May 2024 13:33

Tgt Ion:105 Resp: 65949
Ion Ratio Lower Upper
105 100
120 32.9 24.7 37.1
91 14.6 10.3 15.5
77 14.8 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 0.280 ppbv

RT: 15.349 min Scan# 3964

Delta R.T. 0.003 min

Lab File: VL041263.D

Acq: 21 May 2024 13:33

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 82410

Ion Ratio Lower Upper

105 100

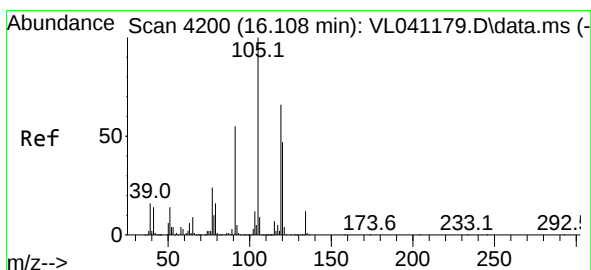
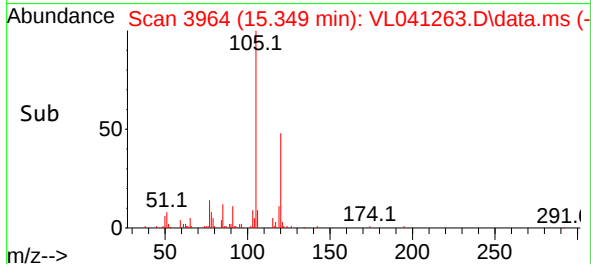
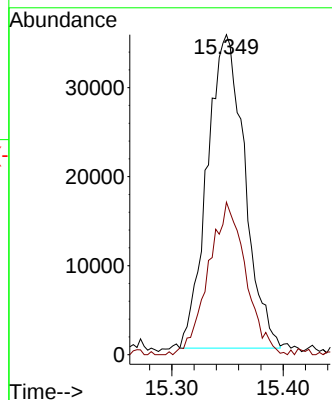
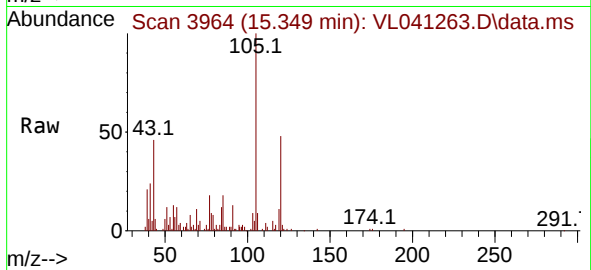
120 48.2 37.0 55.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/22/2024

Supervised By :Mahesh Dadoda 05/22/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.934 ppbv

RT: 16.105 min Scan# 4199

Delta R.T. 0.000 min

Lab File: VL041263.D

Acq: 21 May 2024 13:33

Tgt Ion:105 Resp: 299813

Ion Ratio Lower Upper

105 100

120 36.6 37.8 56.6#

91 11.4 44.3 66.5#

77 13.4 19.0 28.4#

