

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
 Data File : VL041572.D
 Acq On : 21 Aug 2024 18:20
 Operator : SY/MD
 Sample : P3709-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024

Quant Time: Aug 22 01:14:33 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 22 01:14:33 2024

QLast Update : Thu Aug 22 01:05:17 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	966897	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2526918	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.461	117	2387352	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1843397	10.034	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.748	85	17099	0.103	ppbv	91
3) Chlorodifluoromethane	2.693	51	17316m	0.150	ppbv	
9) Propene	2.726	41	51954	0.983	ppbv #	73
10) Heptane	5.577	43	16558m	0.139	ppbv	
13) Ethanol	3.262	45	88475	18.721	ppbv	89
15) Acetone	3.484	43	300104	2.732	ppbv #	77
18) 1,1-Dichloroethene	3.893	96	6976m	0.153	ppbv	
20) Methylene Chloride	3.947	84	131478	3.209	ppbv	98
23) Vinyl Acetate	4.635	43	106942	1.275	ppbv #	93
26) Hexane	5.221	57	261146	2.884	ppbv #	34
27) Carbon Disulfide	4.140	76	14178m	0.134	ppbv	
29) Chloroform	5.278	83	223996	1.517	ppbv	94
31) cis-1,2-Dichloroethene	5.086	61	25600	0.286	ppbv	94
34) 2-Butanone	4.799	43	211175	1.728	ppbv	95
36) Benzene	6.372	78	22581	0.122	ppbv #	93
38) Trichloroethene	7.288	130	28786m	0.340	ppbv	
51) 2-Hexanone	9.558	43	81799m	0.561	ppbv	
52) Tetrachloroethene	10.609	164	618412	8.668	ppbv	99
53) Toluene	9.220	91	199929	0.972	ppbv	100
58) Ethyl Benzene	12.085	91	80222	0.292	ppbv	97
59) m/p-Xylene	12.336	91	359857m	1.515	ppbv	
60) o-Xylene	13.056	91	149475	0.665	ppbv	100
65) tert-Butylbenzene	16.095	119	33236	0.108	ppbv #	64
72) 4-Ethyltoluene	15.188	105	64177m	0.243	ppbv	
73) 1,3,5-Trimethylbenzene	15.346	105	44688m	0.196	ppbv	
74) 1,2,4-Trimethylbenzene	16.095	105	241406m	0.911	ppbv	

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

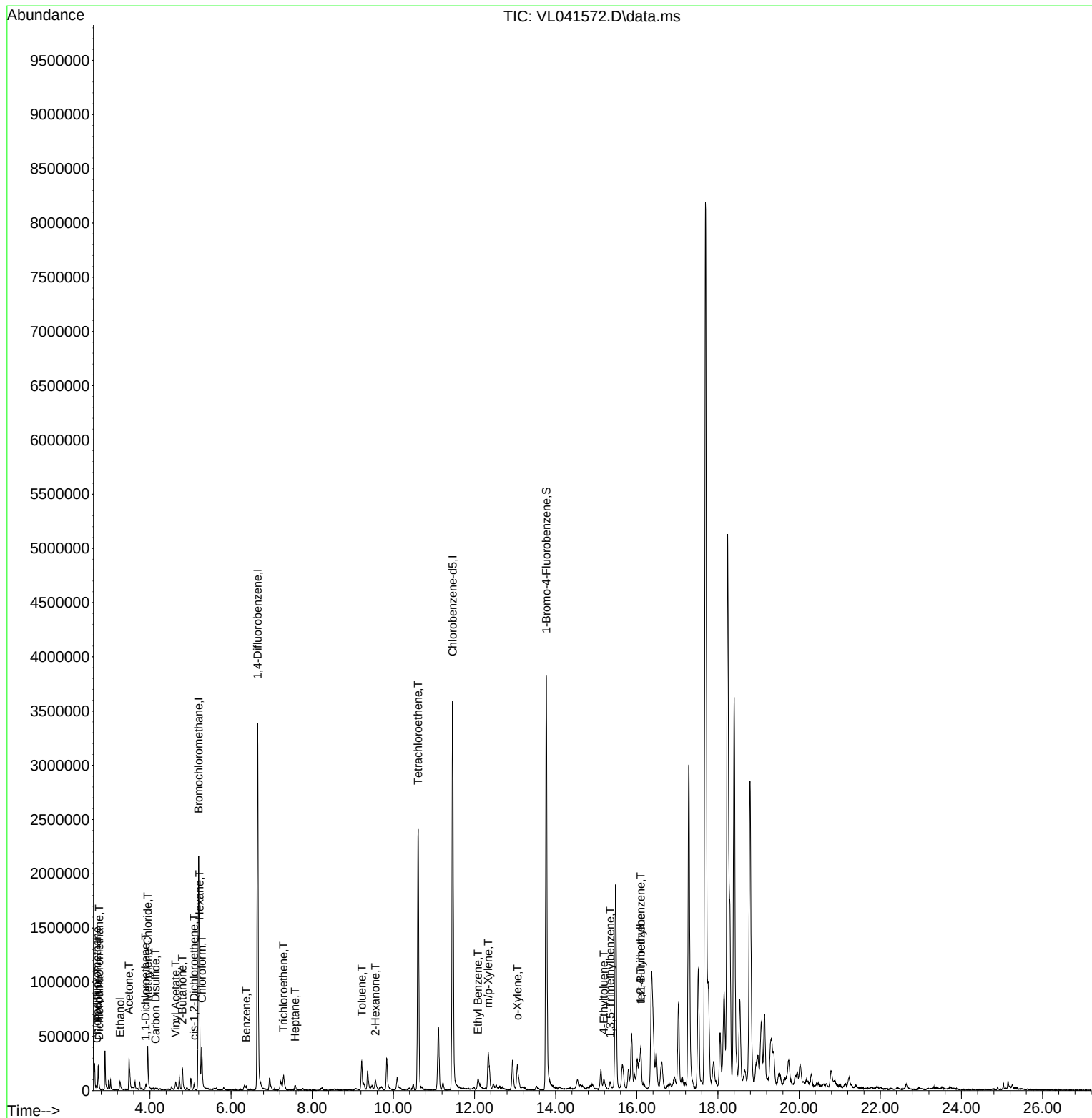
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
Data File : VL041572.D
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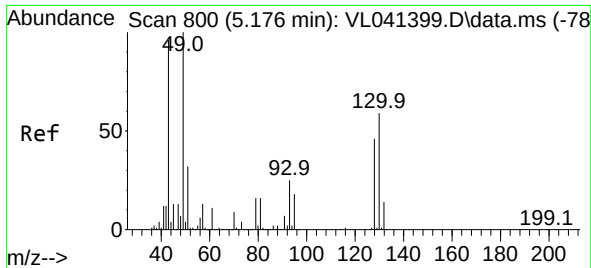
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Aug 22 01:14:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 22 01:05:17 2024
Response via : Initial Calibration

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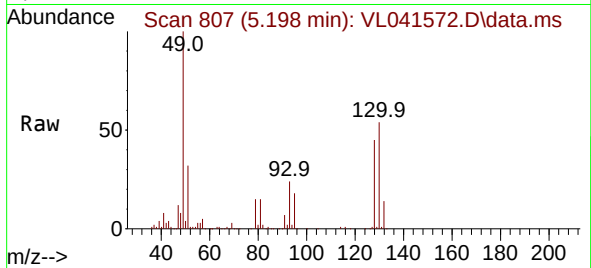
Reviewed By : Semsettin Yesilyurt 08/23/2024
Supervised By : Mahesh Dadoda 08/23/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

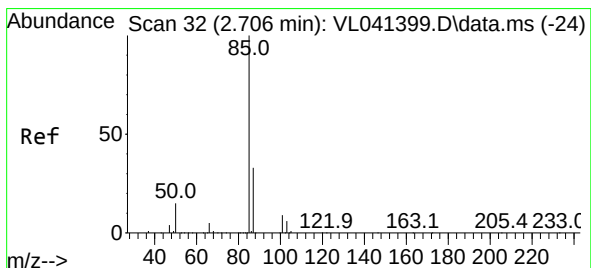
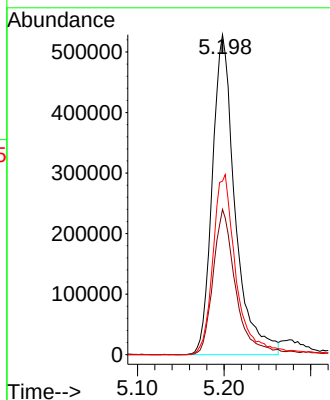
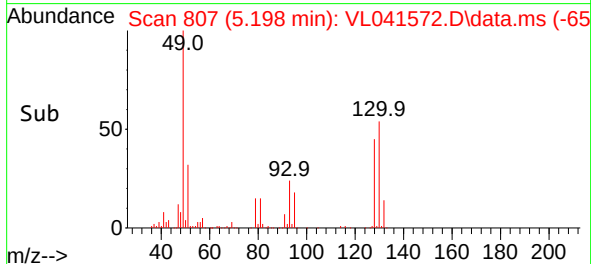
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 96689
Ion Ratio Lower Upper
49 100
128 46.7 23.8 71.4
130 59.1 30.8 92.4

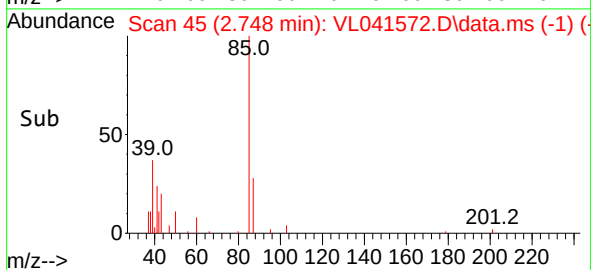
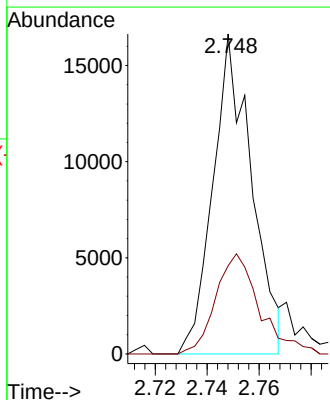
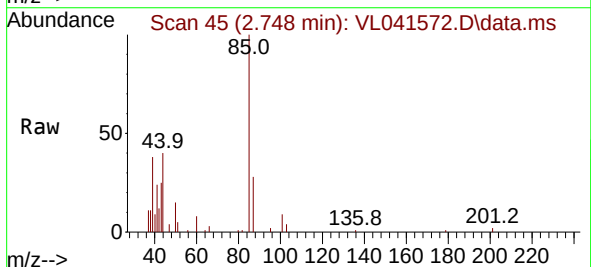
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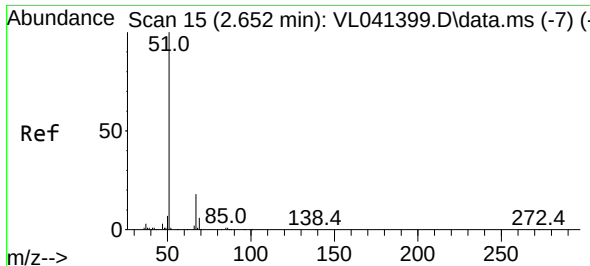
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Supervised By :Mahesh Dadoda 08/23/2024



#2
Dichlorodifluoromethane
Concen: 0.103 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.006 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Tgt Ion: 85 Resp: 17099
Ion Ratio Lower Upper
85 100
87 27.6 26.0 39.0





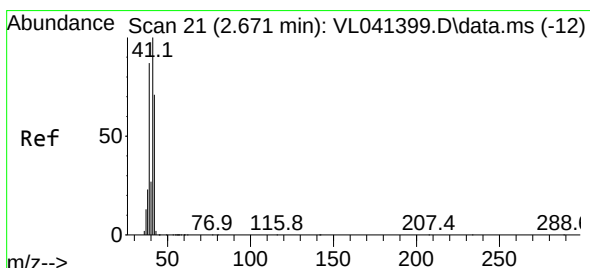
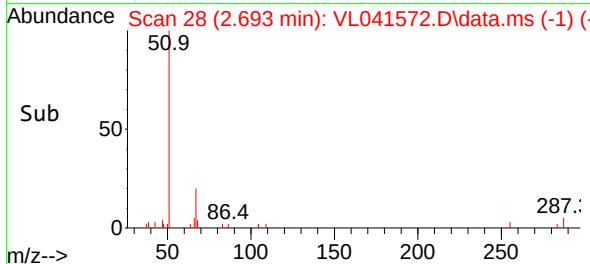
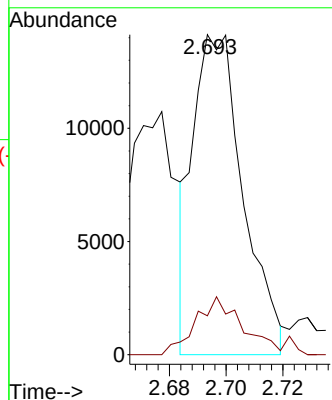
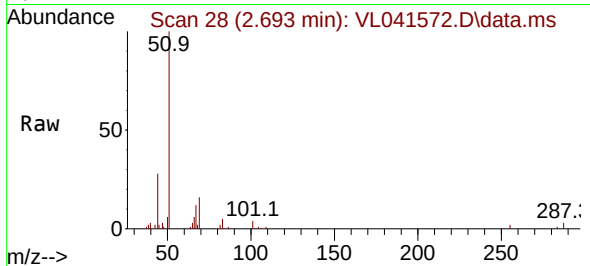
#3
Chlorodifluoromethane
Concen: 0.150 ppbv m
RT: 2.693 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 17310
Ion Ratio Lower Upper
51 100
67 18.3 14.5 21.7

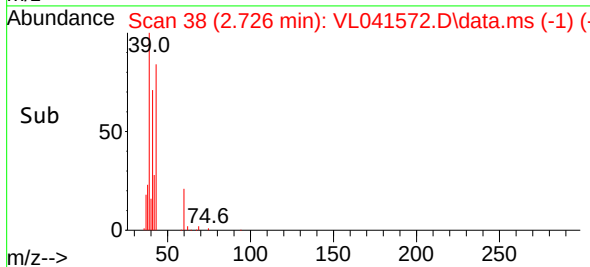
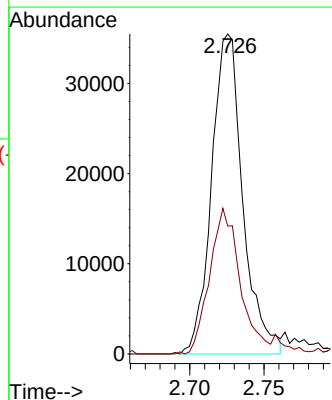
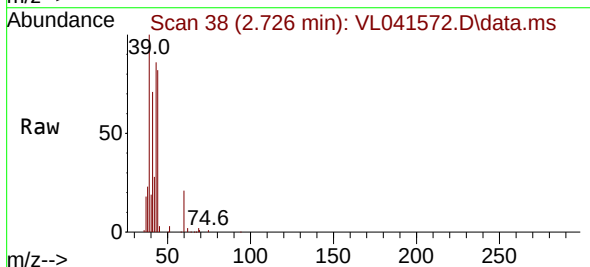
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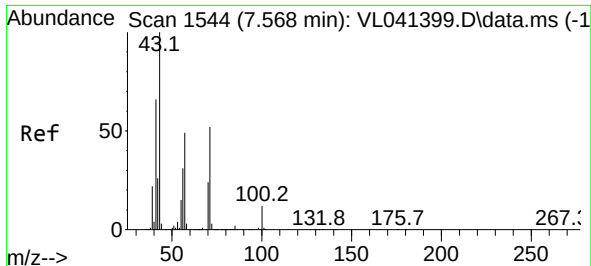
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#9
Propene
Concen: 0.983 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.019 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

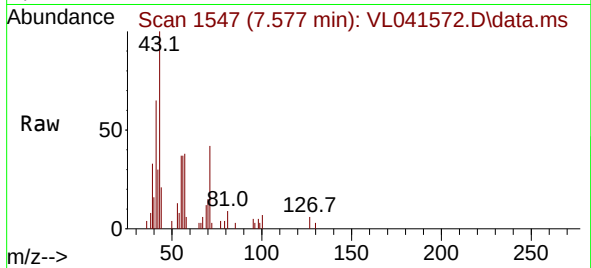
Tgt Ion: 41 Resp: 51954
Ion Ratio Lower Upper
41 100
42 47.5 55.9 83.9#





#10
Heptane
Concen: 0.139 ppbv m
RT: 7.577 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

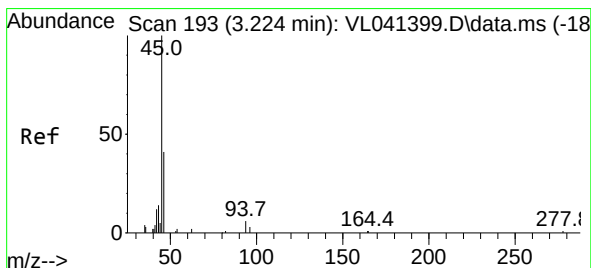
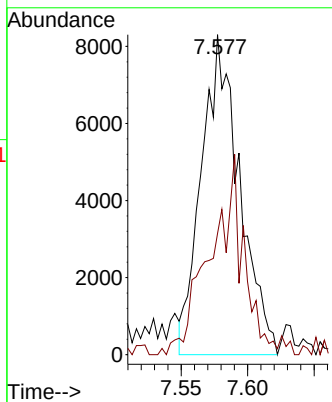
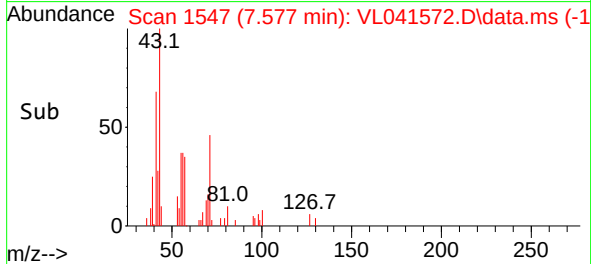
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 16558
Ion Ratio Lower Upper
43 100
57 55.7 40.5 60.7

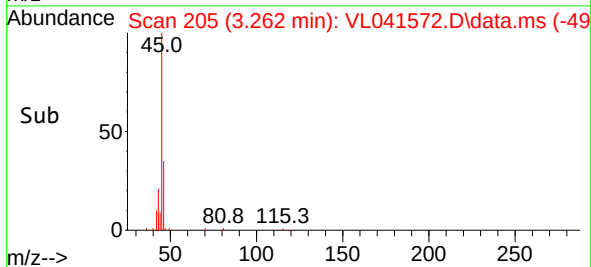
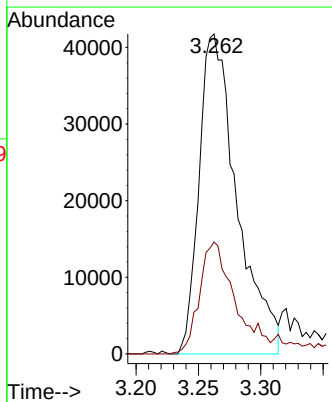
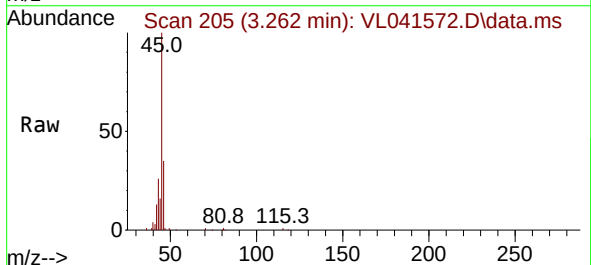
Manual Integrations
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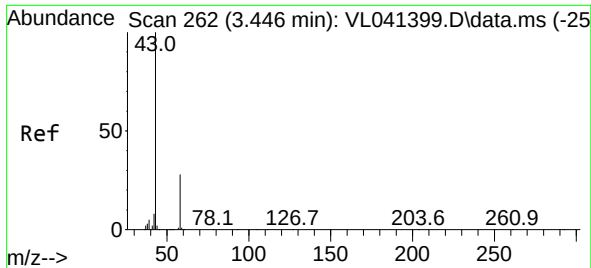
Reviewed By :Semsettin Yesilyurt 08/23/2024
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#13
Ethanol
Concen: 18.721 ppbv
RT: 3.262 min Scan# 205
Delta R.T. 0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

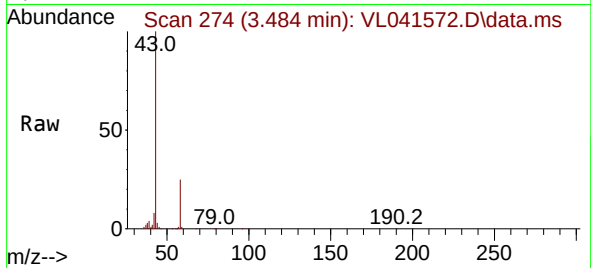
Tgt Ion: 45 Resp: 88475
Ion Ratio Lower Upper
45 100
46 39.5 13.4 53.4





#15
Acetone
Concen: 2.732 ppbv
RT: 3.484 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

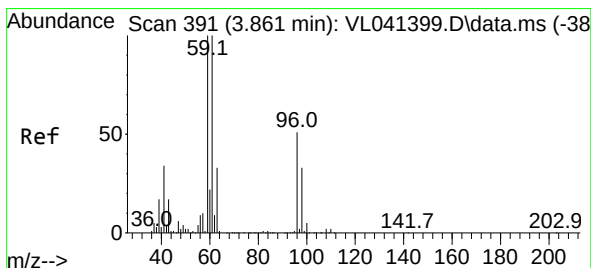
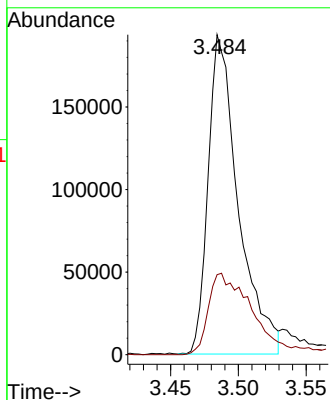
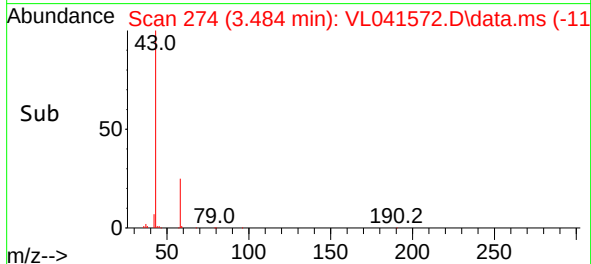
Instrument :
MSVOA_L
ClientSampleId :
SV1



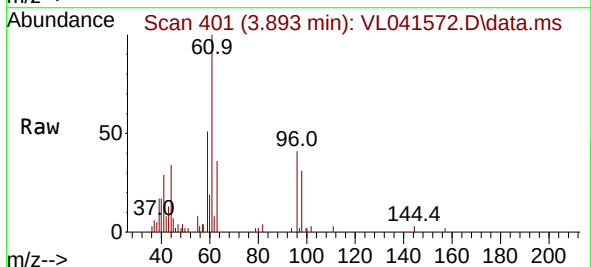
Tgt Ion: 43 Resp: 300104
Ion Ratio Lower Upper
43 100
58 38.5 21.4 32.2

Manual Integrations
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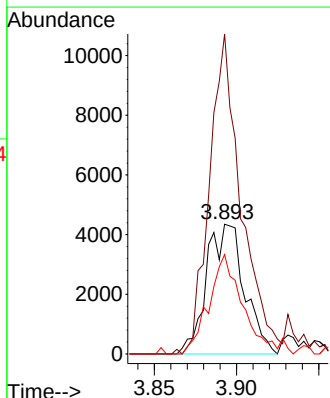
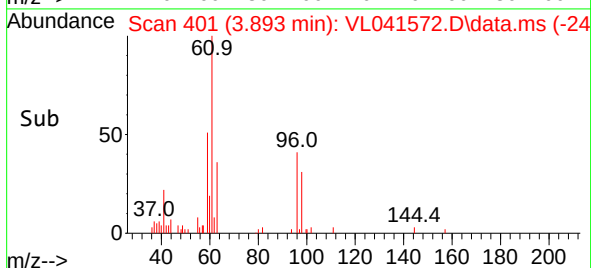
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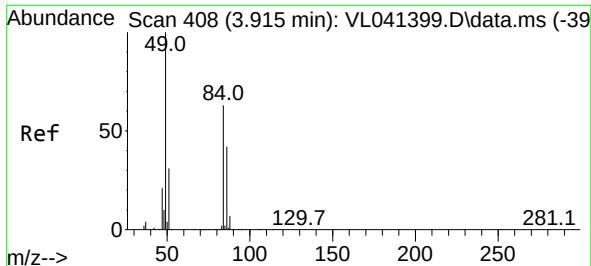


#18
1,1-Dichloroethene
Concen: 0.153 ppbv m
RT: 3.893 min Scan# 401
Delta R.T. 0.006 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20



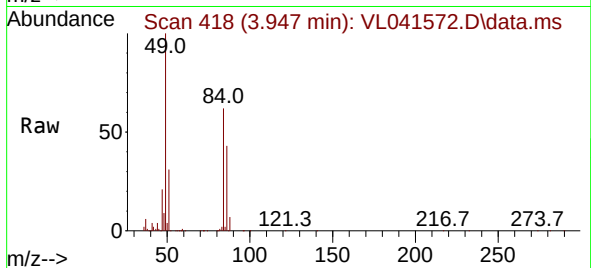
Tgt Ion: 96 Resp: 6976
Ion Ratio Lower Upper
96 100
61 246.5 157.5 236.3#
98 76.5 51.2 76.8





#20
Methylene Chloride
Concen: 3.209 ppbv
RT: 3.947 min Scan# 418
Delta R.T. 0.006 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

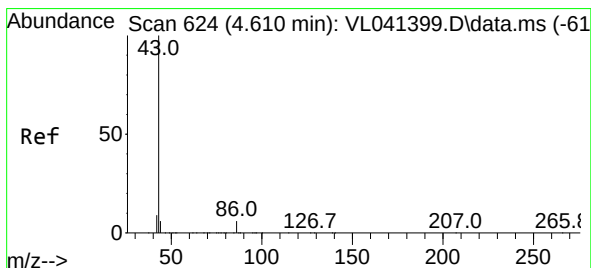
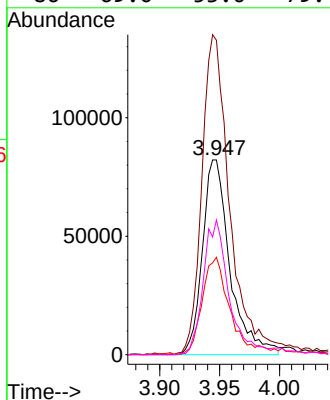
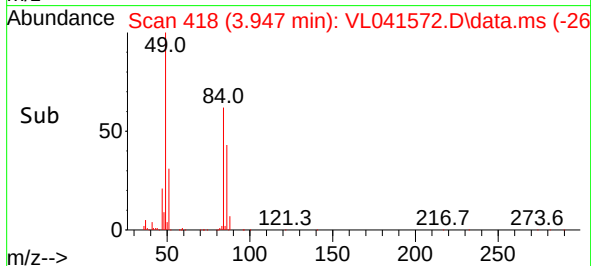
Instrument :
MSVOA_L
ClientSampleId :
SV1



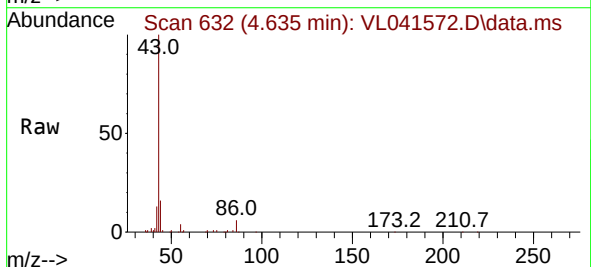
Tgt Ion: 84 Resp: 131478
Ion Ratio Lower Upper
84 100
49 160.5 126.6 190.0
51 49.7 38.6 58.0
86 69.0 53.0 79.4

Manual Integrations
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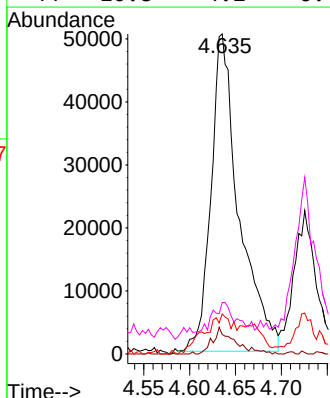
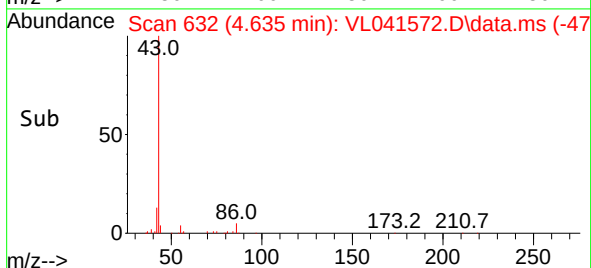
Reviewed By :Semsettin Yesilyurt 08/23/2024
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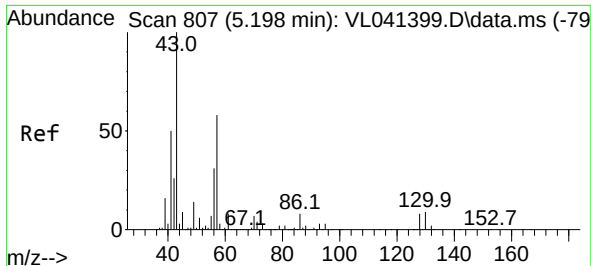


#23
Vinyl Acetate
Concen: 1.275 ppbv
RT: 4.635 min Scan# 632
Delta R.T. 0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20



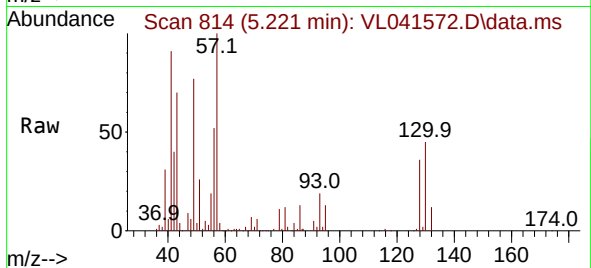
Tgt Ion: 43 Resp: 106942
Ion Ratio Lower Upper
43 100
86 6.2 4.6 6.8
42 11.8 7.9 11.9
44 10.8 4.2 6.4





#26
Hexane
Concen: 2.884 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

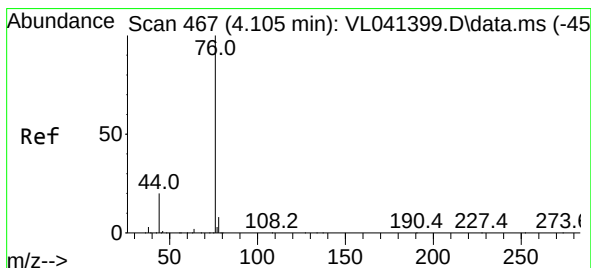
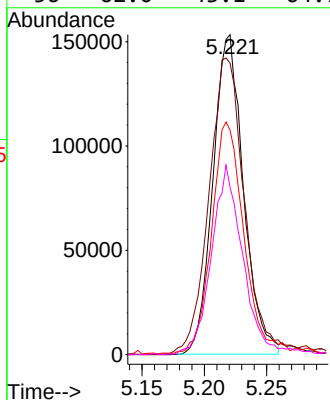
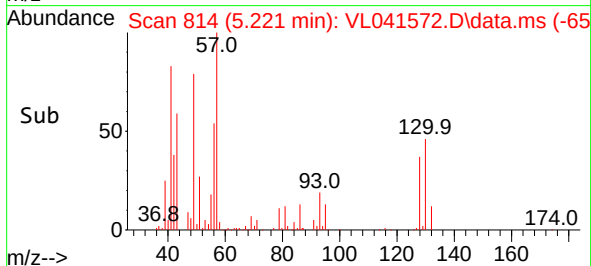
Instrument :
MSVOA_L
ClientSampleId :
SV1



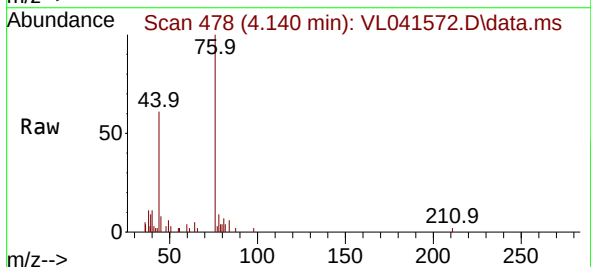
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Ion Ratio Lower Upper
57 100
41 111.3 74.0 111.0
43 78.9 193.6 290.4
56 62.0 43.1 64.7

Manual Integrations
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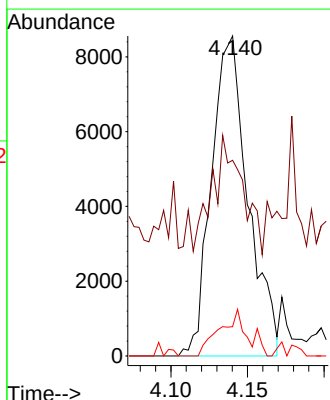
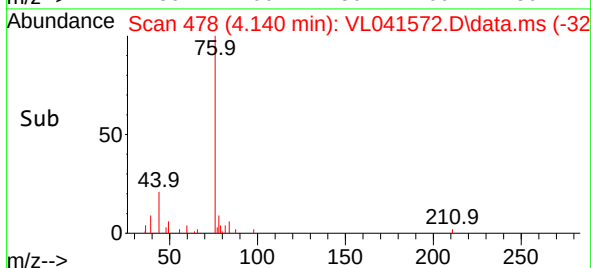
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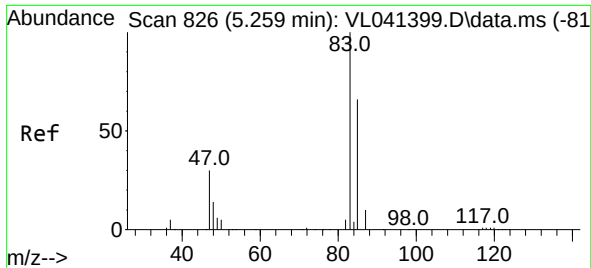


#27
Carbon Disulfide
Concen: 0.134 ppbv m
RT: 4.140 min Scan# 478
Delta R.T. 0.010 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20



Tgt Ion: 76 Resp: 14178
Ion Ratio Lower Upper
76 100
44 8.7 15.6 23.4
78 10.9 7.7 11.5





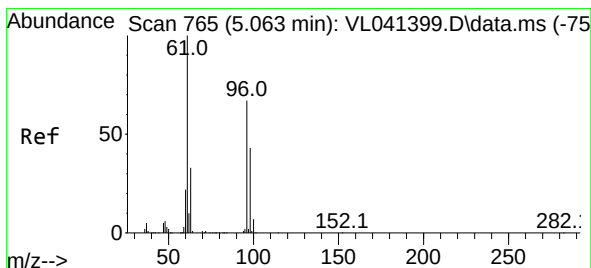
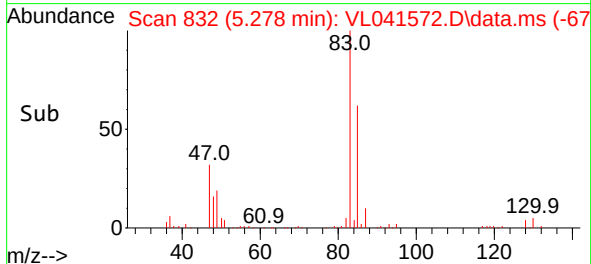
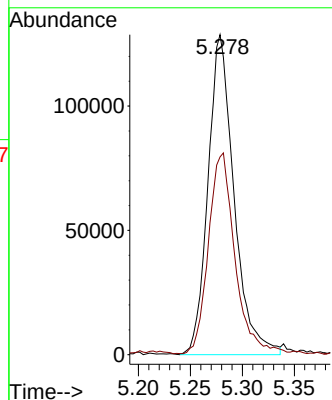
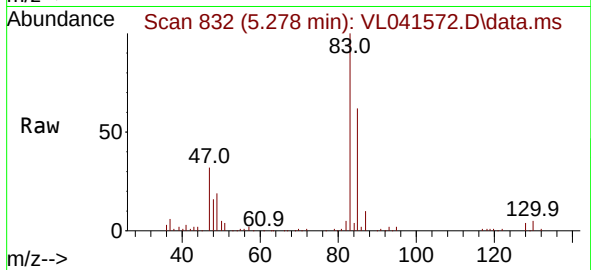
#29
Chloroform
Concen: 1.517 ppbv
RT: 5.278 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 83 Resp: 223990
Ion Ratio Lower Upper
83 100
85 61.5 53.1 79.7

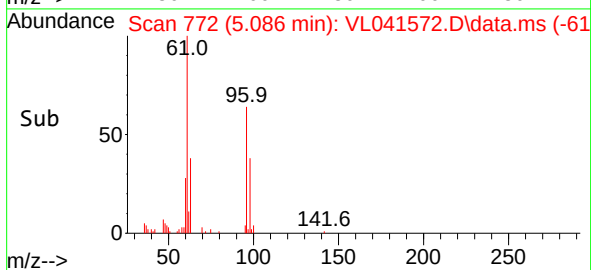
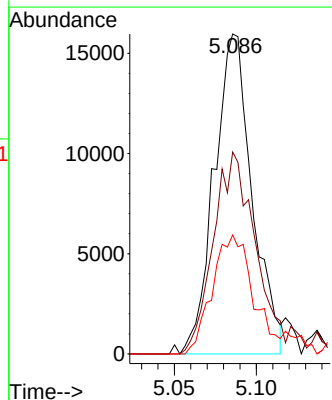
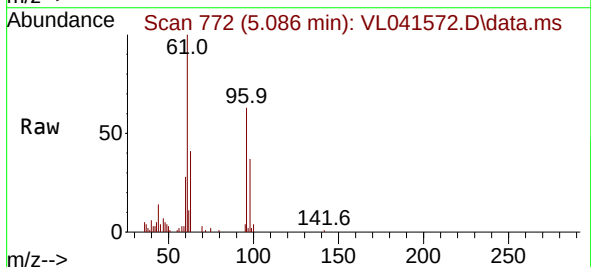
Manual Integrations
APPROVED

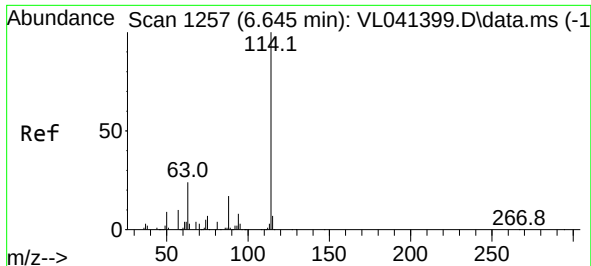
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#31
cis-1,2-Dichloroethene
Concen: 0.286 ppbv
RT: 5.086 min Scan# 772
Delta R.T. 0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Tgt Ion: 61 Resp: 25600
Ion Ratio Lower Upper
61 100
96 63.1 53.4 80.2
98 37.2 34.4 51.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL041572.D

Acq: 21 Aug 2024 18:20

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:114 Resp: 2526918

Ion Ratio Lower Upper

114 100

63 25.1 20.3 30.5

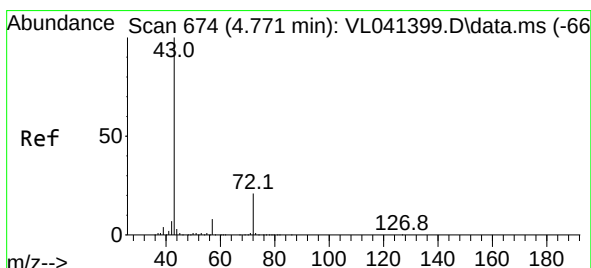
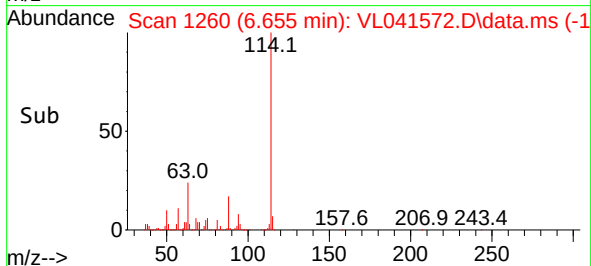
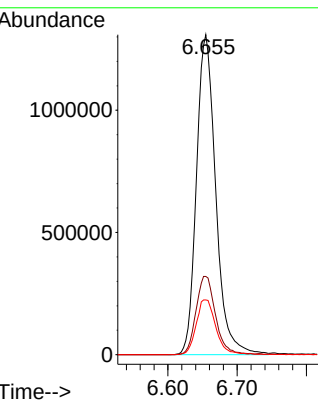
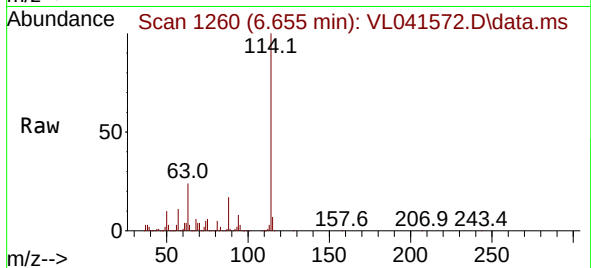
88 17.6 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#34

2-Butanone

Concen: 1.728 ppbv

RT: 4.799 min Scan# 683

Delta R.T. 0.006 min

Lab File: VL041572.D

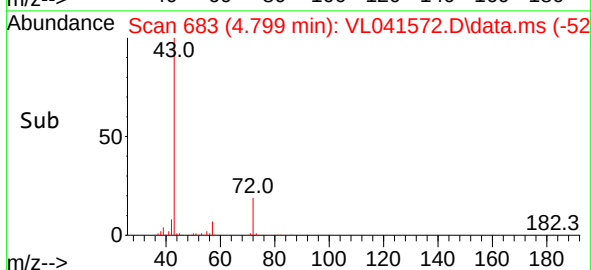
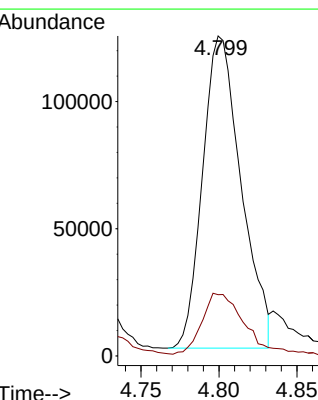
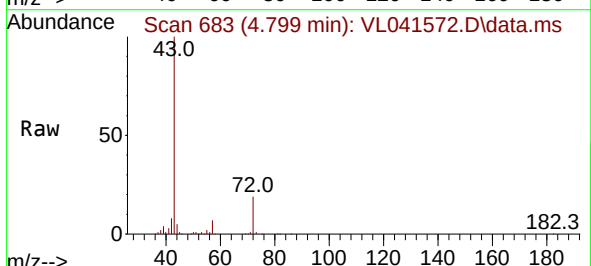
Acq: 21 Aug 2024 18:20

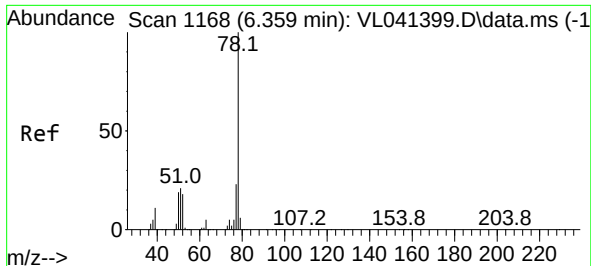
Tgt Ion: 43 Resp: 211175

Ion Ratio Lower Upper

43 100

72 23.8 17.3 25.9





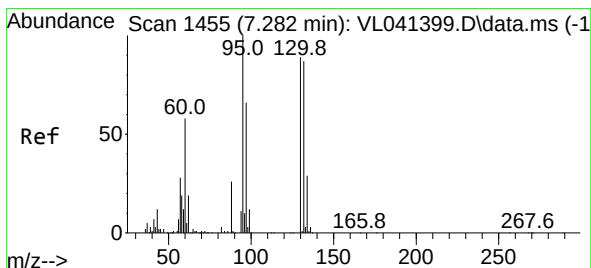
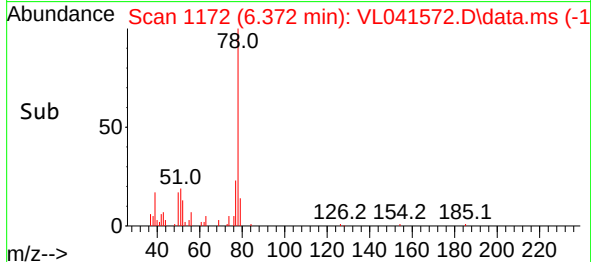
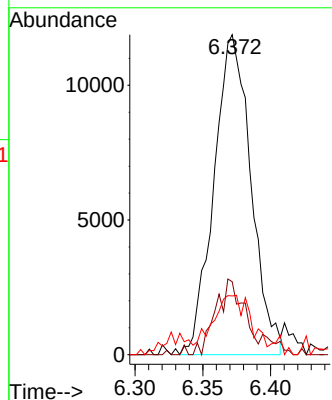
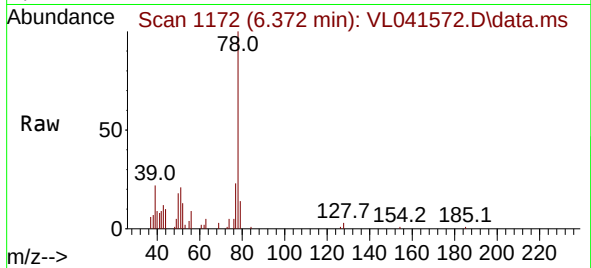
#36
Benzene
Concen: 0.122 ppbv
RT: 6.372 min Scan# 1168
Delta R.T. -0.000 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 78 Resp: 2258
Ion Ratio Lower Upper
78 100
77 22.8 18.1 27.1
50 12.3 15.5 23.3

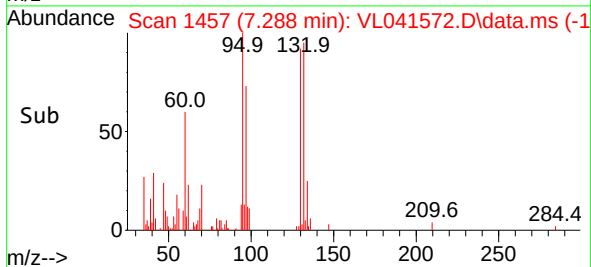
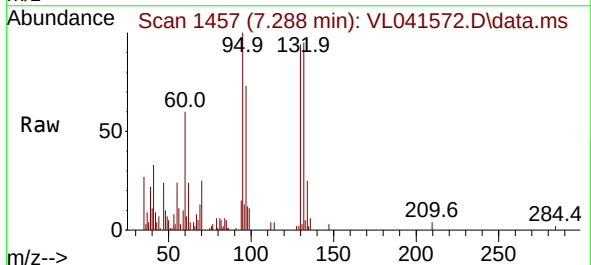
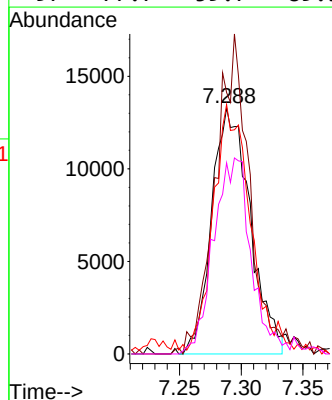
Manual Integrations
APPROVED

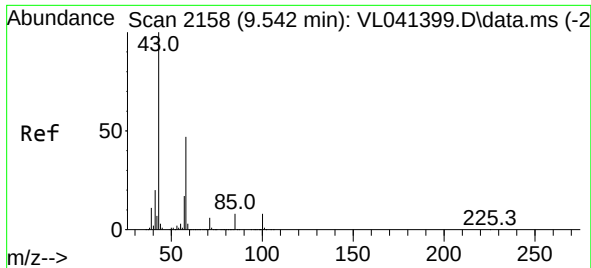
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#38
Trichloroethene
Concen: 0.340 ppbv m
RT: 7.288 min Scan# 1457
Delta R.T. -0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Tgt Ion:130 Resp: 28786
Ion Ratio Lower Upper
130 100
95 106.3 90.2 135.2
132 101.5 78.1 117.1
97 77.7 59.7 89.5





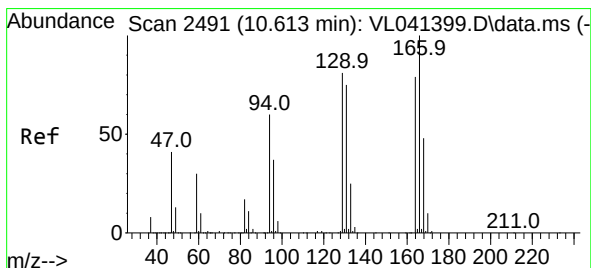
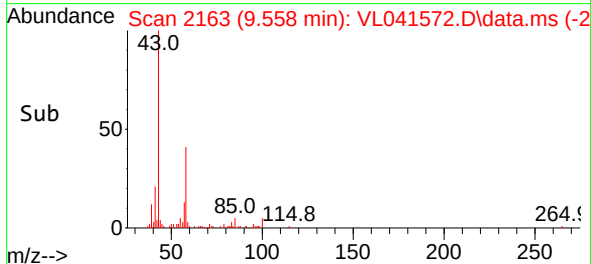
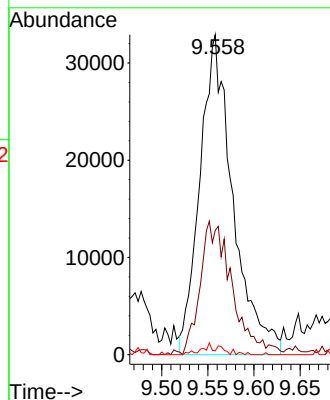
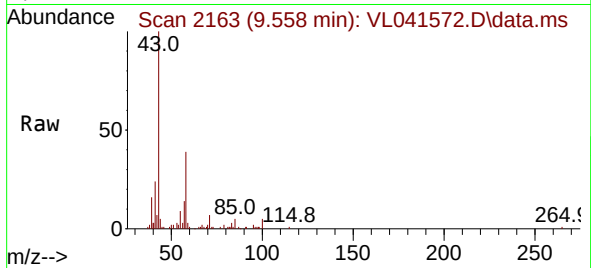
#51
2-Hexanone
Concen: 0.561 ppbv m
RT: 9.558 min Scan# 2158
Delta R.T. 0.006 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 81799
Ion Ratio Lower Upper
43 100
58 41.8 38.2 57.2
98 2.0 0.3 0.5

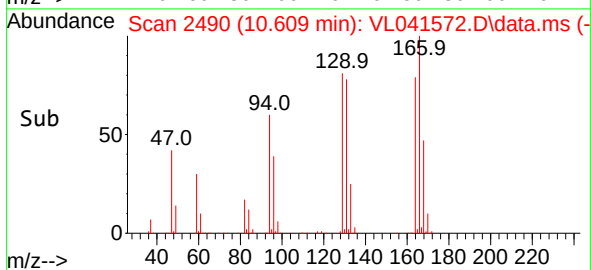
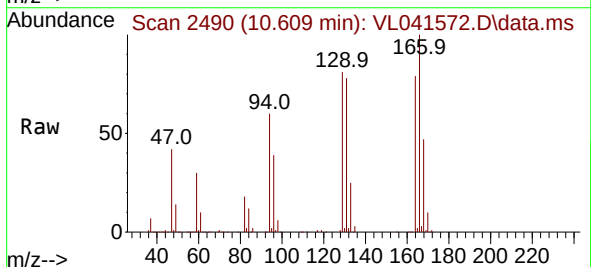
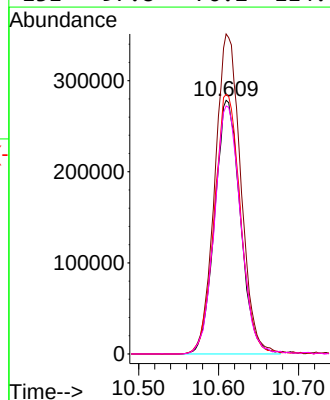
Manual Integrations
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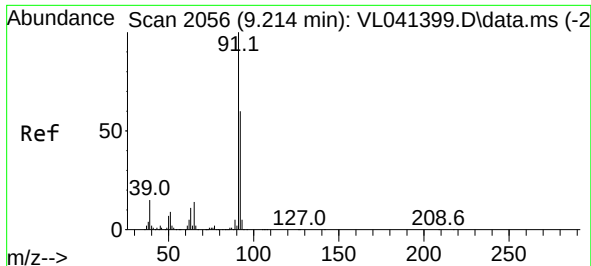
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#52
Tetrachloroethene
Concen: 8.668 ppbv
RT: 10.609 min Scan# 2490
Delta R.T. -0.007 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Tgt Ion:164 Resp: 618412
Ion Ratio Lower Upper
164 100
166 126.2 101.1 151.7
129 102.3 81.7 122.5
131 97.8 76.2 114.4





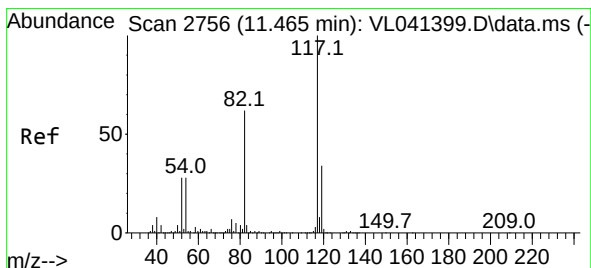
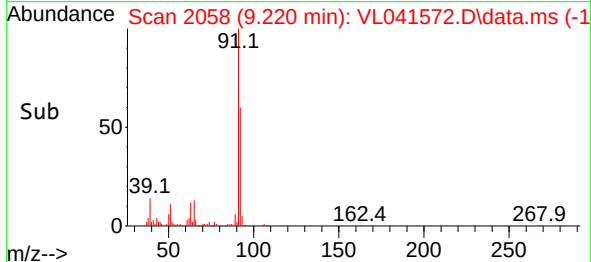
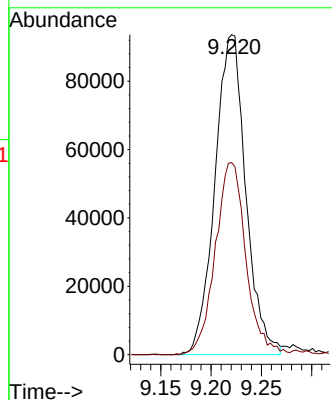
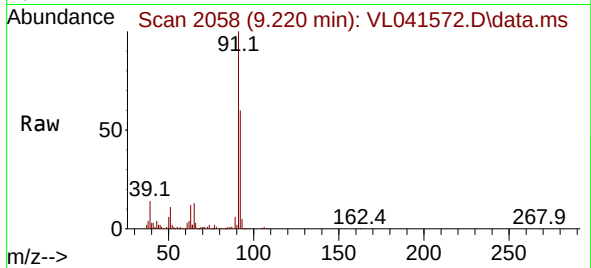
#53
Toluene
Concen: 0.972 ppbv
RT: 9.220 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 199929
Ion Ratio Lower Upper
91 100
92 60.6 48.7 73.1

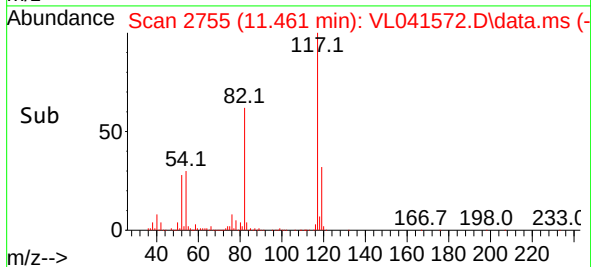
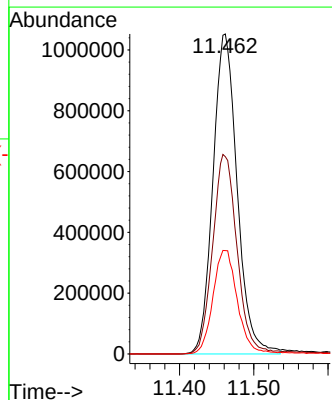
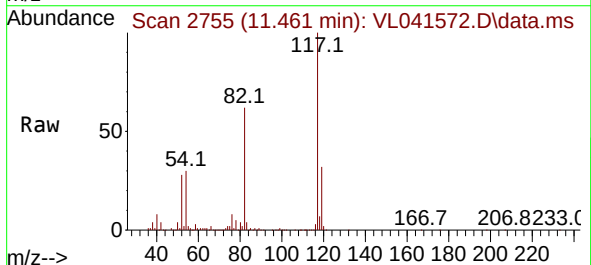
Manual Integrations
APPROVED

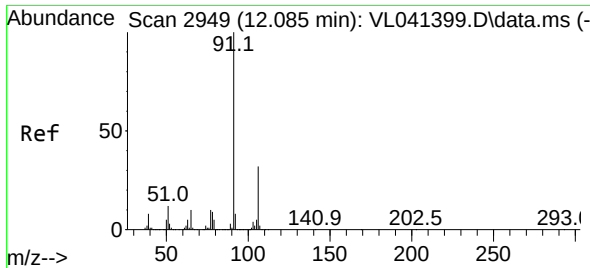
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.461 min Scan# 2755
Delta R.T. -0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Tgt Ion:117 Resp: 2387352
Ion Ratio Lower Upper
117 100
82 64.2 51.0 76.6
119 32.9 45.2 67.8#





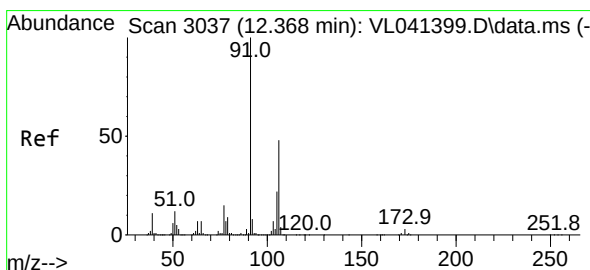
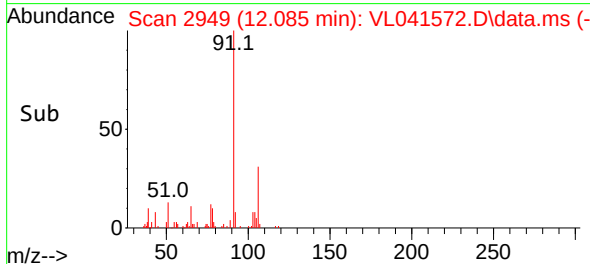
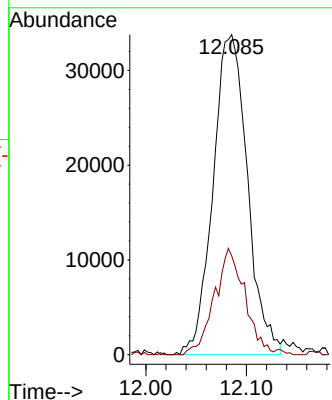
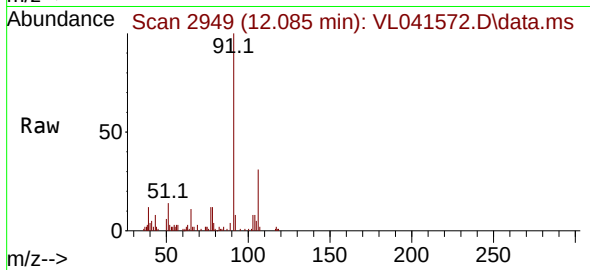
#58
Ethyl Benzene
Concen: 0.292 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. -0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 8022
Ion Ratio Lower Upper
91 100
106 30.9 25.8 38.8

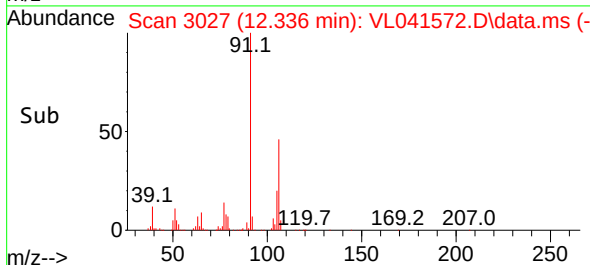
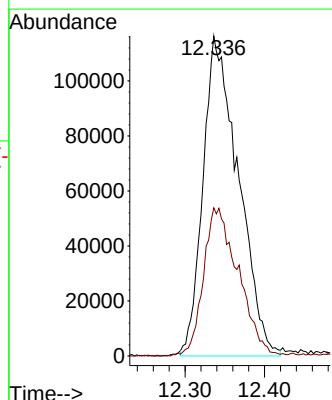
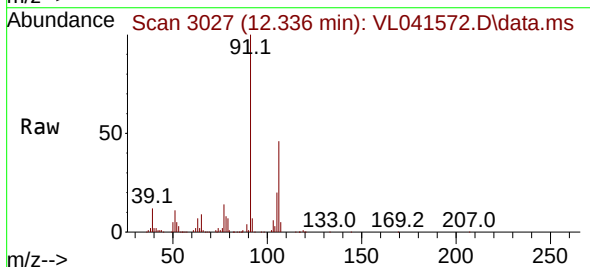
Manual Integrations
APPROVED

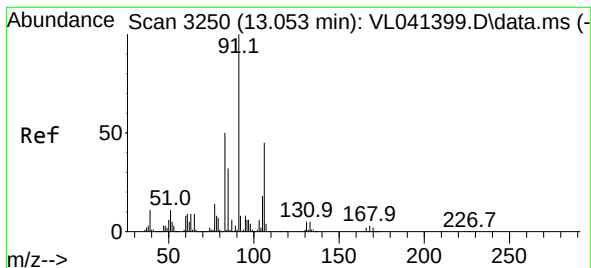
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#59
m/p-Xylene
Concen: 1.515 ppbv m
RT: 12.336 min Scan# 3027
Delta R.T. -0.035 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

Tgt Ion: 91 Resp: 359857
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5#





#60

o-Xylene

Concen: 0.665 ppbv

RT: 13.056 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL041572.D

Acq: 21 Aug 2024 18:20

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 14947

Ion Ratio Lower Upper

91 100

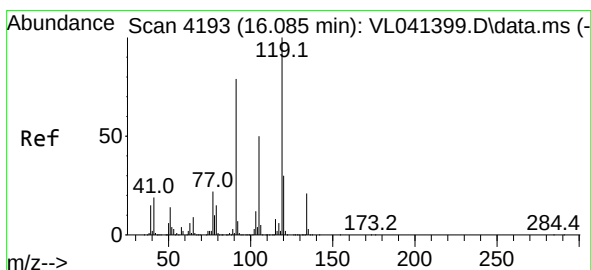
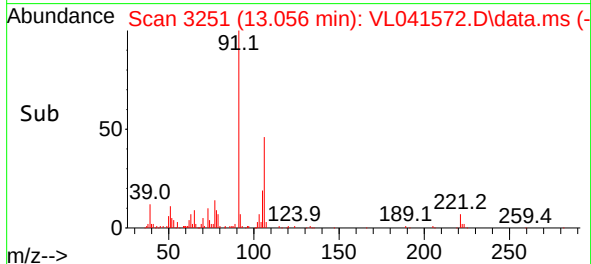
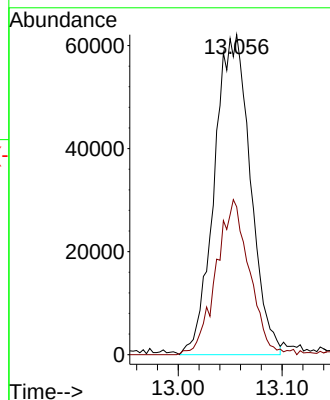
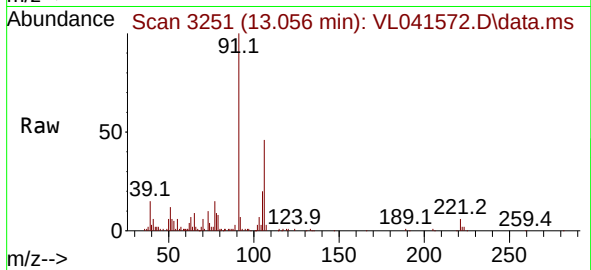
106 45.9 23.1 69.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#65

tert-Butylbenzene

Concen: 0.108 ppbv

RT: 16.095 min Scan# 4196

Delta R.T. 0.006 min

Lab File: VL041572.D

Acq: 21 Aug 2024 18:20

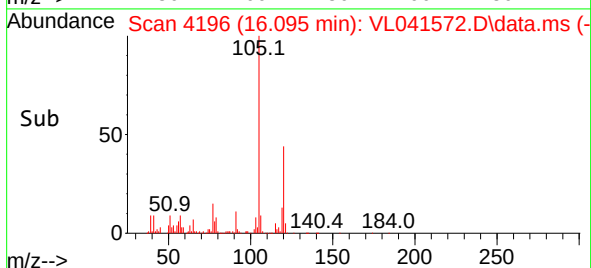
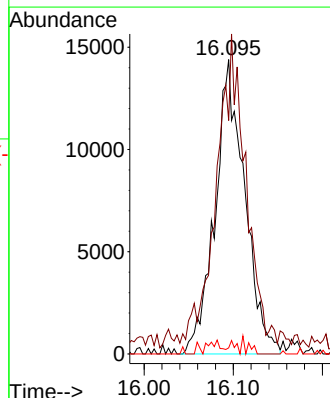
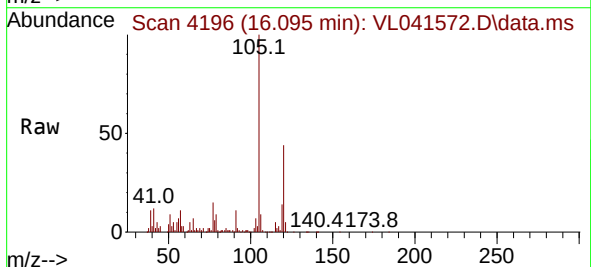
Tgt Ion:119 Resp: 33236

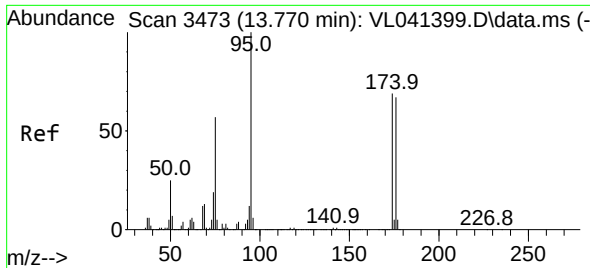
Ion Ratio Lower Upper

119 100

91 111.5 64.2 96.2#

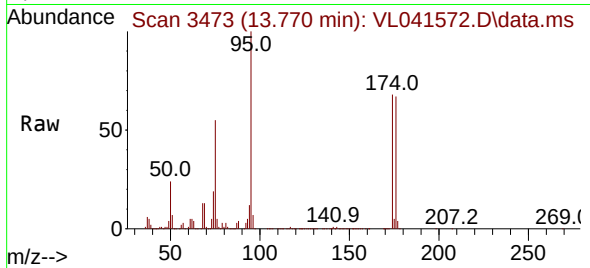
134 2.1 15.7 23.5#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.034 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. -0.003 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20

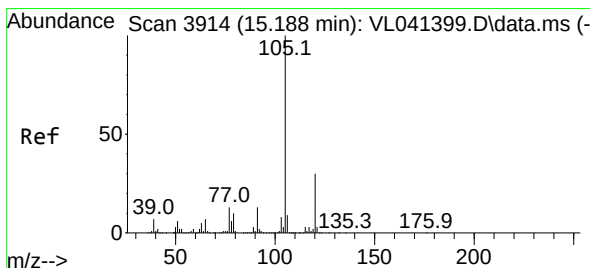
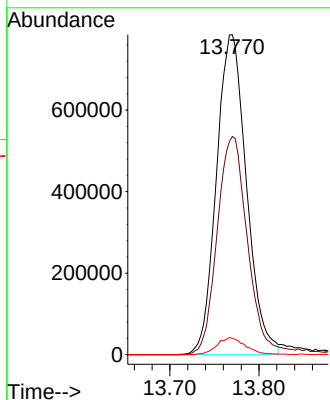
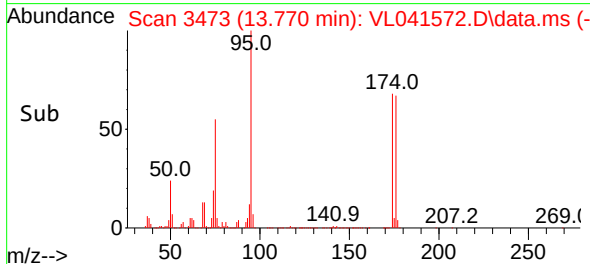
Instrument :
MSVOA_L
ClientSampleId :
SV1



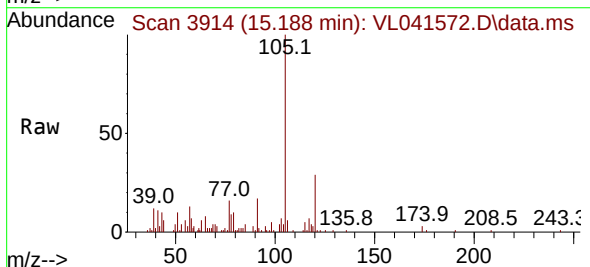
Tgt Ion: 95 Resp: 184339
Ion Ratio Lower Upper
95 100
174 71.2 56.3 84.5
175 5.2 4.0 6.0

Manual Integrations
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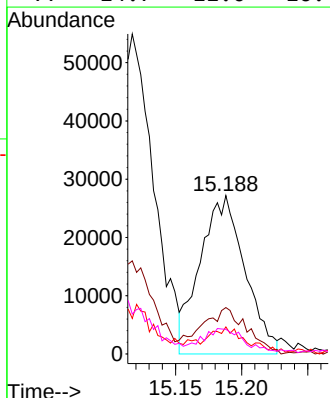
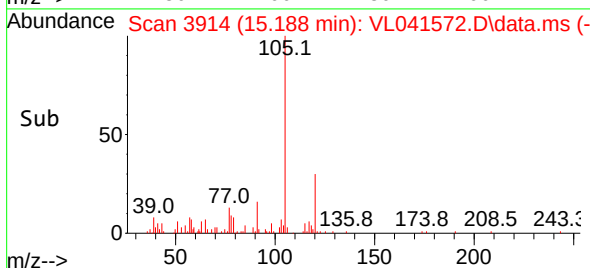
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

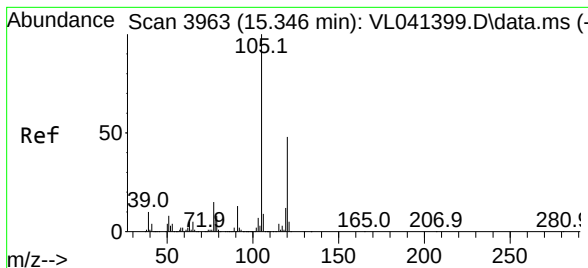


#72
4-Ethyltoluene
Concen: 0.243 ppbv m
RT: 15.188 min Scan# 3914
Delta R.T. -0.000 min
Lab File: VL041572.D
Acq: 21 Aug 2024 18:20



Tgt Ion:105 Resp: 64177
Ion Ratio Lower Upper
105 100
120 0.0 24.2 36.2#
91 0.0 10.4 15.6#
77 14.7 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 0.196 ppbv m

RT: 15.346 min Scan# 3963

Delta R.T. -0.003 min

Lab File: VL041572.D

Acq: 21 Aug 2024 18:20

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 4468

Ion Ratio Lower Upper

105 100

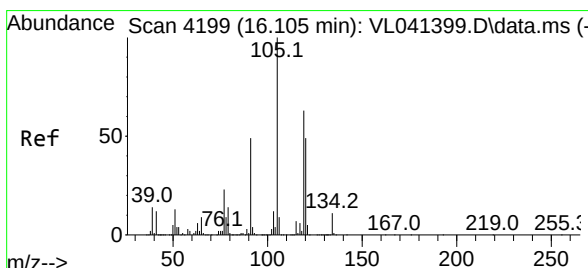
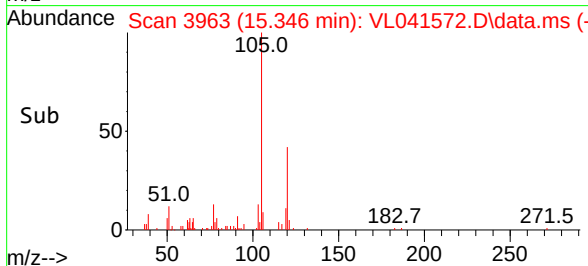
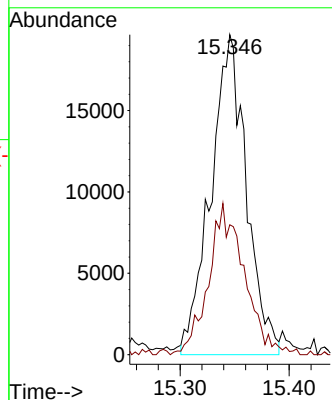
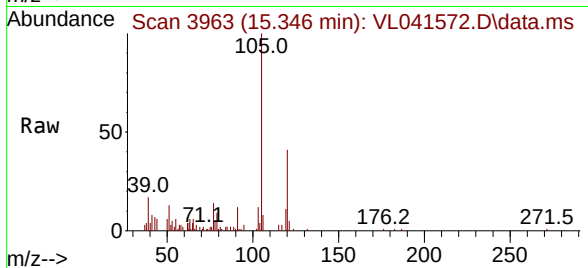
120 40.6 38.6 57.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.911 ppbv m

RT: 16.095 min Scan# 4196

Delta R.T. -0.013 min

Lab File: VL041572.D

Acq: 21 Aug 2024 18:20

Tgt Ion:105 Resp: 241406

Ion Ratio Lower Upper

105 100

120 43.5 39.5 59.3

91 10.9 39.8 59.8#

77 15.3 18.2 27.4#

