

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041556.D
 Acq On : 19 Aug 2024 20:53
 Operator : SY/MD
 Sample : P3659-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVI

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
 Supervised By :Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:23:41 2024

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

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

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	976168	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2621237	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2446949	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1880836	9.988	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds					Qvalue	
3) Chlorodifluoromethane	2.693	51	17342m	0.149	ppbv	
9) Propene	2.713	41	33202	0.622	ppbv	96
10) Heptane	7.600	43	42229m	0.352	ppbv	
13) Ethanol	3.269	45	20340	4.263	ppbv	88
15) Acetone	3.488	43	448990	4.048	ppbv #	77
20) Methylene Chloride	3.951	84	337577	8.162	ppbv	96
25) Ethyl Acetate	5.227	43	386721	1.755	ppbv #	78
26) Hexane	5.230	57	543159	5.942	ppbv #	35
27) Carbon Disulfide	4.140	76	12390m	0.116	ppbv	
28) Methyl tert-Butyl Ether	4.616	73	12454	0.216	ppbv	91
29) Chloroform	5.291	83	45487	0.305	ppbv	100
34) 2-Butanone	4.809	43	563907	4.447	ppbv	98
35) Carbon Tetrachloride	6.510	117	4532m	0.031	ppbv	
36) Benzene	6.391	78	34604m	0.181	ppbv	
38) Trichloroethene	7.307	130	18240m	0.208	ppbv	
41) Tetrahydrofuran	5.600	42	24832m	0.342	ppbv	
51) 2-Hexanone	9.577	43	124256	0.821	ppbv #	99
52) Tetrachloroethene	10.642	164	7818625	105.645	ppbv	96
53) Toluene	9.237	91	403587	1.892	ppbv	99
58) Ethyl Benzene	12.108	91	182703m	0.648	ppbv	
59) m/p-Xylene	12.359	91	712587	2.927	ppbv	97
60) o-Xylene	13.076	91	259588	1.127	ppbv	98
64) n-propylbenzene	14.928	120	16805m	0.184	ppbv	
65) tert-Butylbenzene	16.117	119	51408	0.163	ppbv #	73
72) 4-Ethyltoluene	15.204	105	129555	0.478	ppbv	98
73) 1,3,5-Trimethylbenzene	15.359	105	93730m	0.401	ppbv	
74) 1,2,4-Trimethylbenzene	16.121	105	414176	1.525	ppbv #	70
79) Naphthalene	21.403	128	37470m	0.156	ppbv	

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

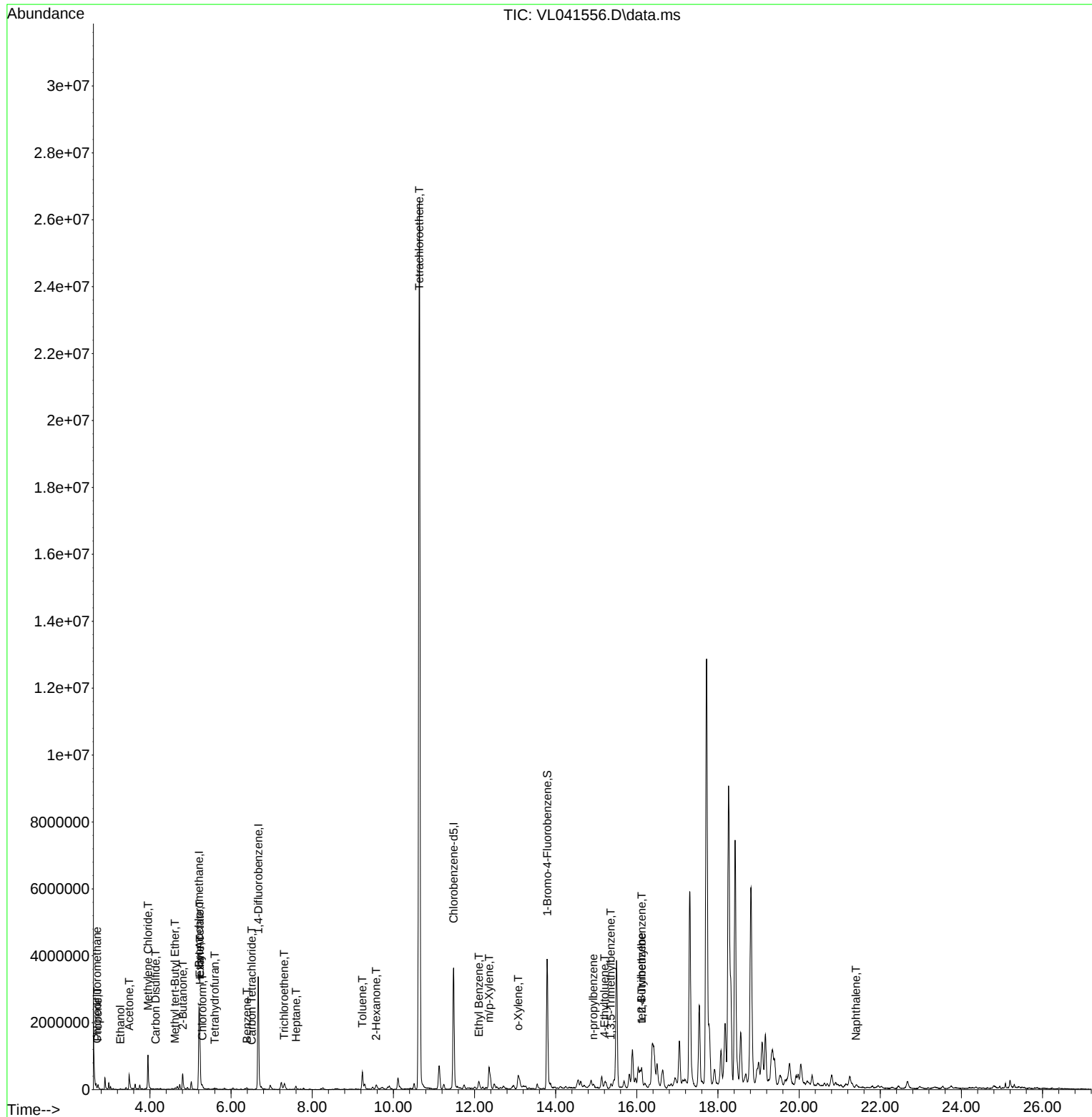
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
Data File : VL041556.D
Acq On : 19 Aug 2024 20:53
Operator : SY/MD
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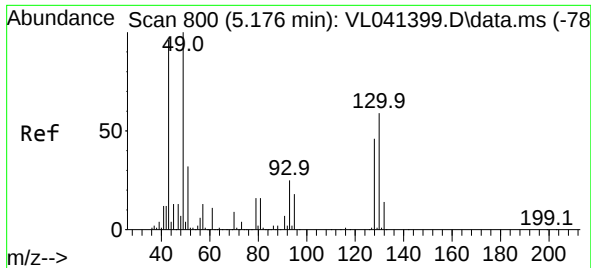
Instrument :
MSVOA_L
ClientSampleId :
SVI

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Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

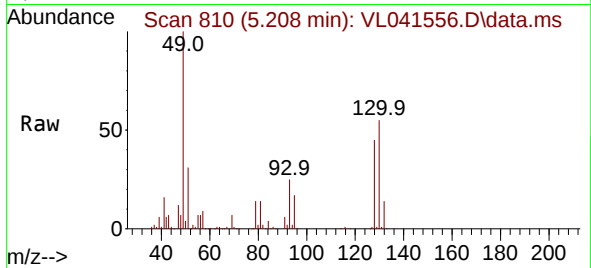
Quant Time: Aug 20 02:23:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Aug 20 02:10:04 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

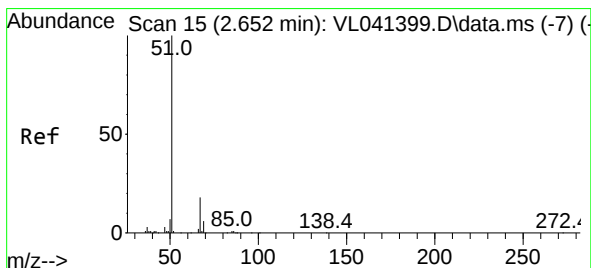
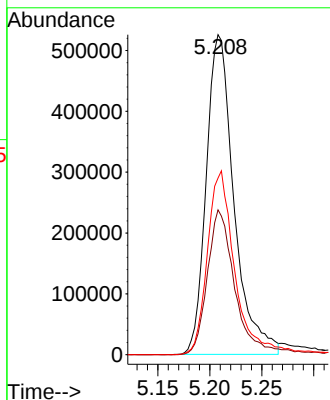
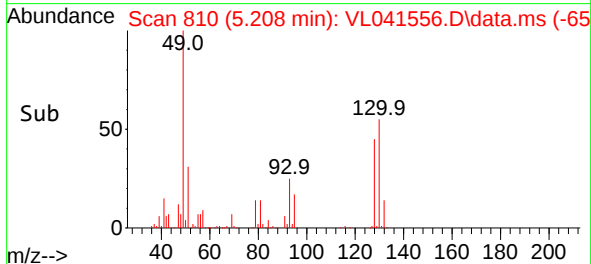
Instrument :
MSVOA_L
ClientSampleId :
SVI



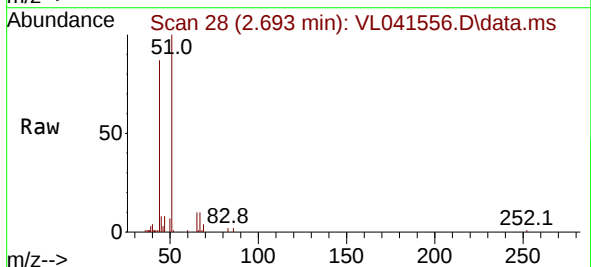
Tgt Ion: 49 Resp: 97616
Ion Ratio Lower Upper
49 100
128 46.8 23.8 71.4
130 58.8 30.8 92.4

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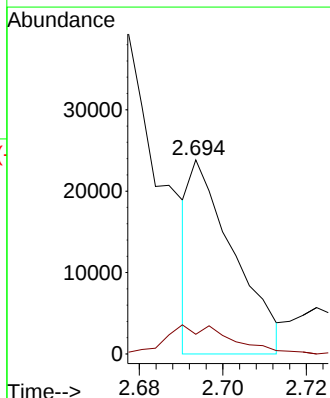
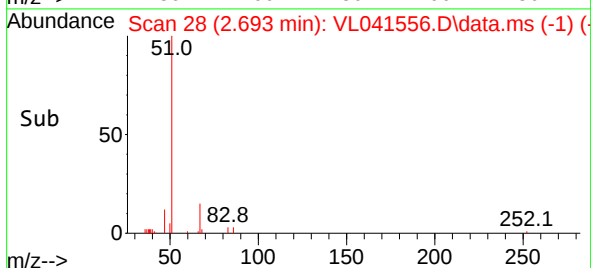
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

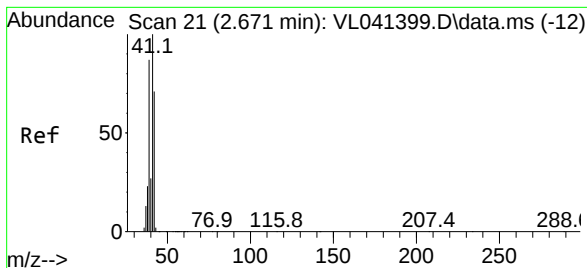


#3
Chlorodifluoromethane
Concen: 0.149 ppbv m
RT: 2.693 min Scan# 28
Delta R.T. 0.000 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53



Tgt Ion: 51 Resp: 17342
Ion Ratio Lower Upper
51 100
67 22.7 14.5 21.7





#9

Propene

Concen: 0.622 ppbv

RT: 2.713 min Scan# 34

Delta R.T. 0.000 min

Lab File: VL041556.D

Acq: 19 Aug 2024 20:53

Instrument :

MSVOA_L

ClientSampleId :

SVI

Tgt Ion: 41 Resp: 3320

Ion Ratio Lower Upper

41 100

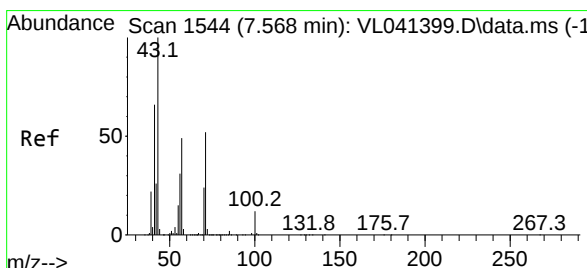
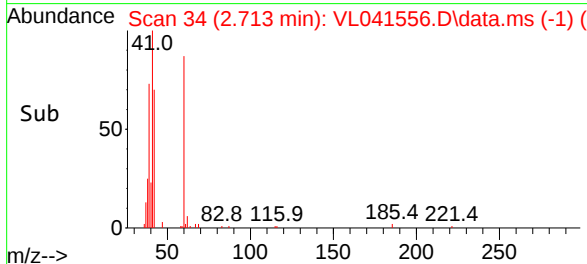
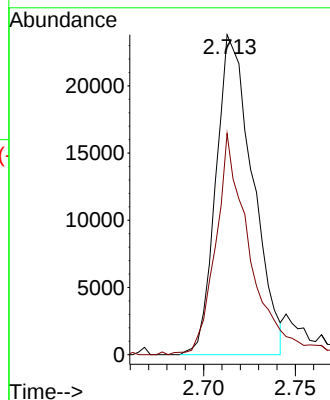
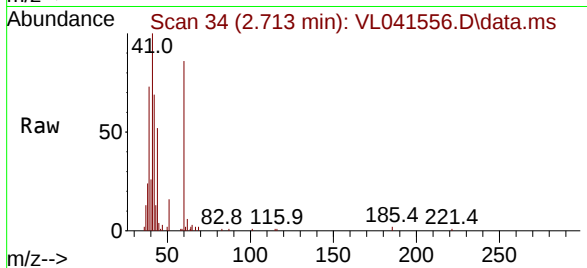
42 67.0 55.9 83.9

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#10

Heptane

Concen: 0.352 ppbv m

RT: 7.600 min Scan# 1554

Delta R.T. 0.003 min

Lab File: VL041556.D

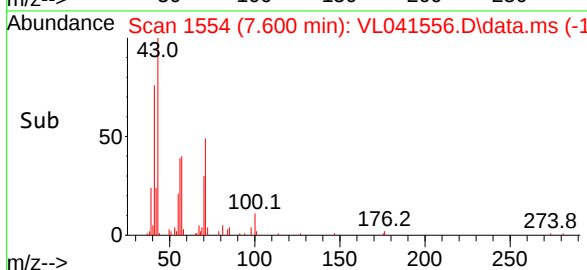
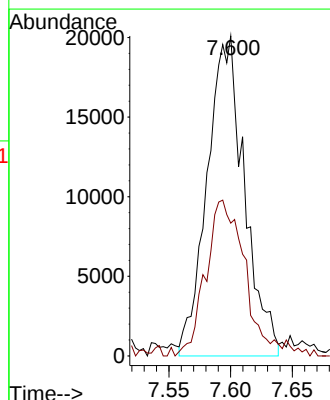
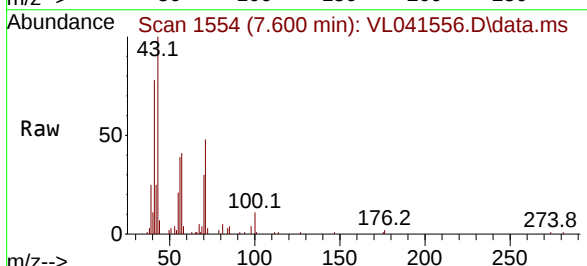
Acq: 19 Aug 2024 20:53

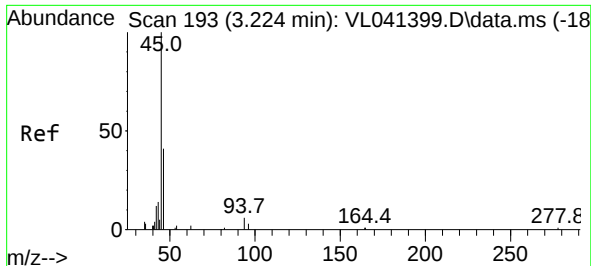
Tgt Ion: 43 Resp: 42229

Ion Ratio Lower Upper

43 100

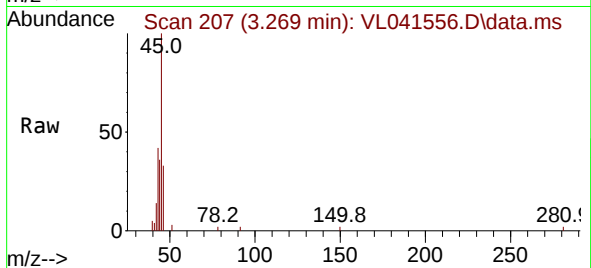
57 52.0 40.5 60.7





#13
Ethanol
Concen: 4.263 ppbv
RT: 3.269 min Scan# 207
Delta R.T. 0.013 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

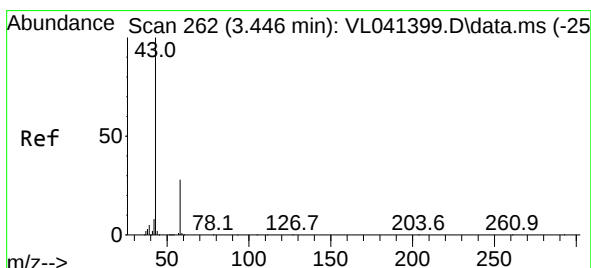
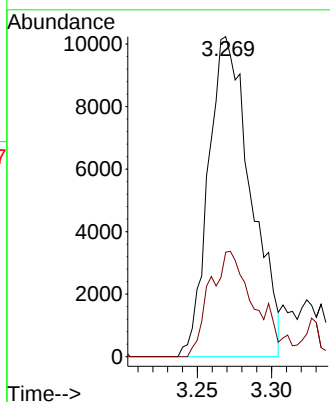
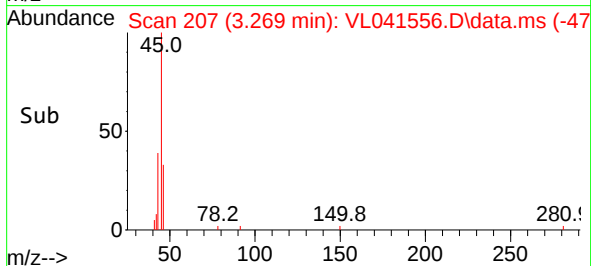
Instrument :
MSVOA_L
ClientSampleId :
SVI



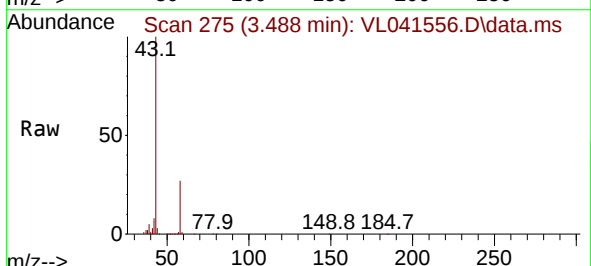
Tgt Ion: 45 Resp: 20340
Ion Ratio Lower Upper
45 100
46 40.0 13.4 53.4

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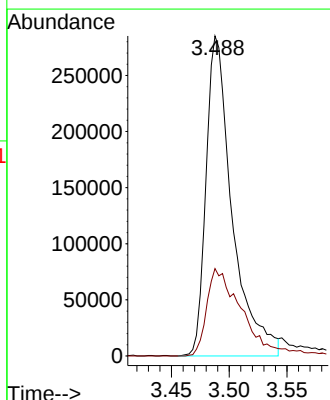
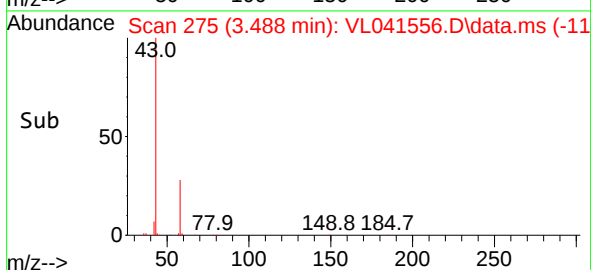
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

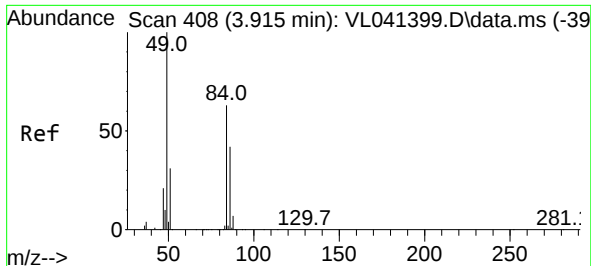


#15
Acetone
Concen: 4.048 ppbv
RT: 3.488 min Scan# 275
Delta R.T. 0.003 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53



Tgt Ion: 43 Resp: 448990
Ion Ratio Lower Upper
43 100
58 38.5 21.4 32.2#





#20

Methylene Chloride

Concen: 8.162 ppbv

RT: 3.951 min Scan# 419

Delta R.T. 0.000 min

Lab File: VL041556.D

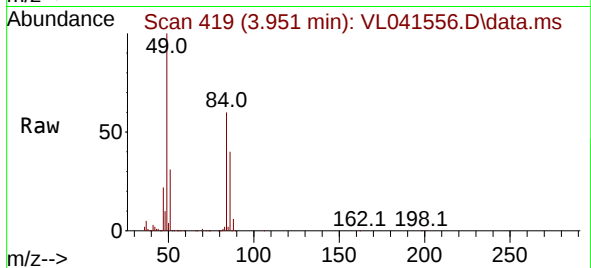
Acq: 19 Aug 2024 20:53

Instrument :

MSVOA_L

ClientSampleId :

SVI



Tgt Ion: 84 Resp: 33757

Ion Ratio Lower Upper

84 100

49 166.1 126.6 190.0

51 51.6 38.6 58.0

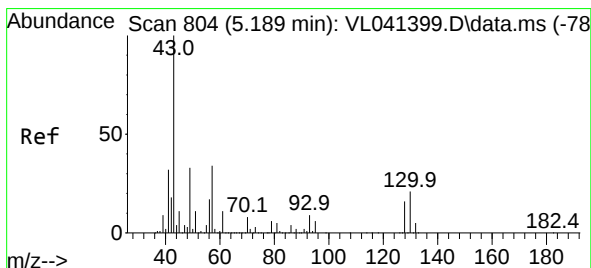
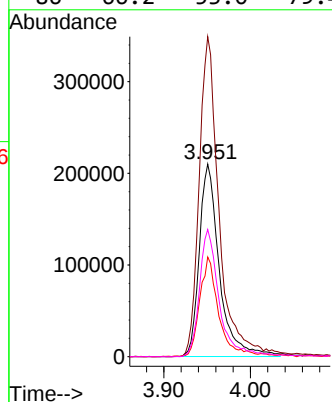
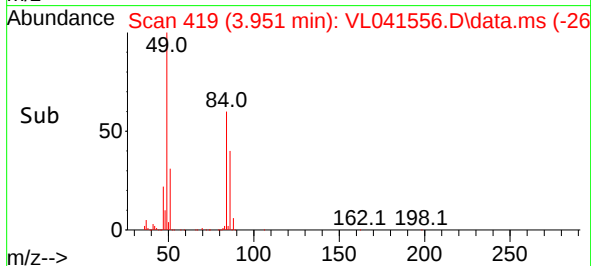
86 66.2 53.0 79.4

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Supervised By :Mahesh Dadoda 08/20/2024



#25

Ethyl Acetate

Concen: 1.755 ppbv

RT: 5.227 min Scan# 816

Delta R.T. 0.006 min

Lab File: VL041556.D

Acq: 19 Aug 2024 20:53

Tgt Ion: 43 Resp: 386721

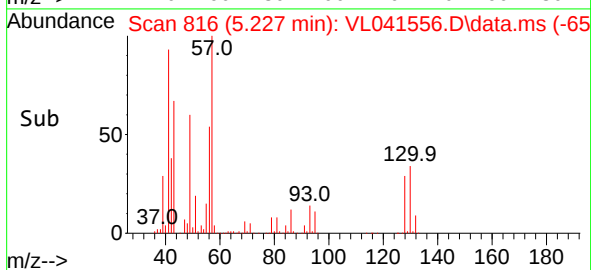
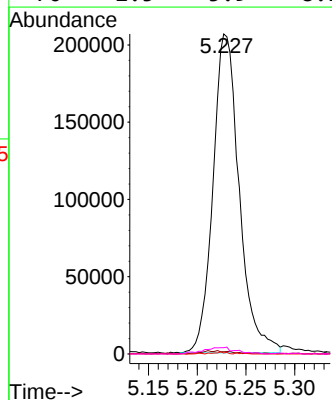
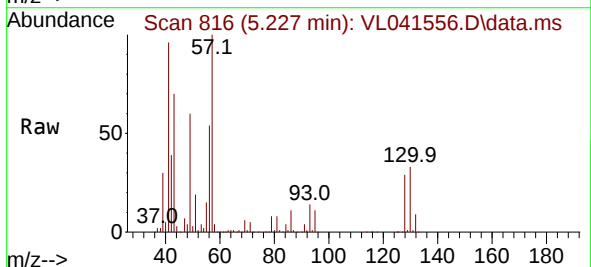
Ion Ratio Lower Upper

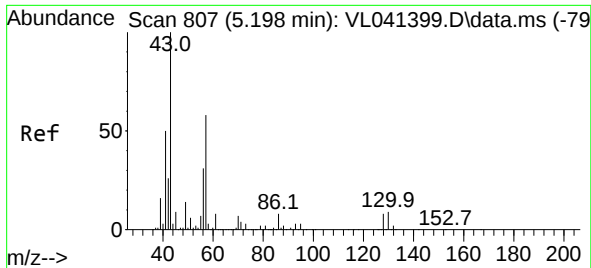
43 100

45 1.6 8.5 12.7#

61 0.4 8.0 12.0#

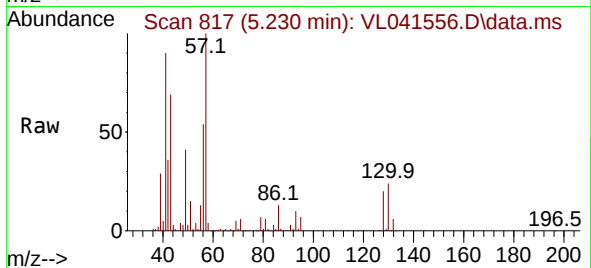
70 2.5 5.9 8.9#





#26
Hexane
Concen: 5.942 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.000 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

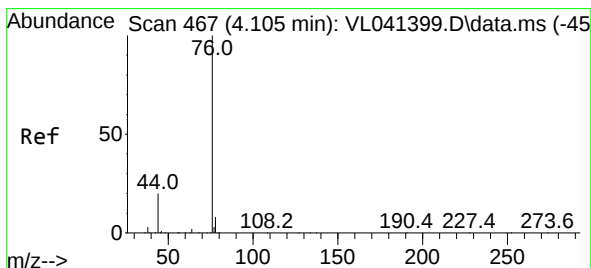
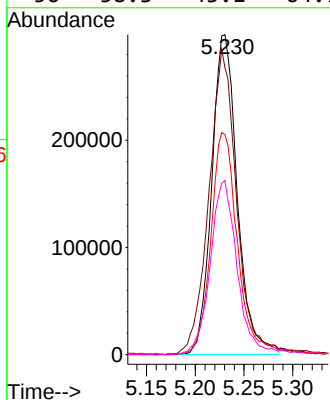
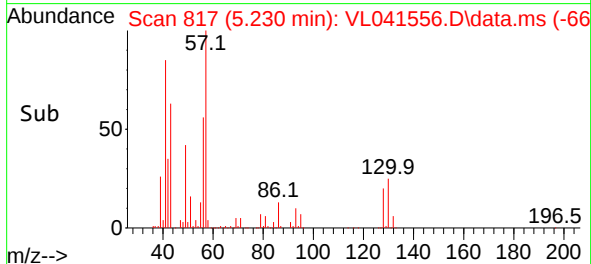
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 57 Resp: 543159
Ion Ratio Lower Upper
57 100
41 105.8 74.0 111.0
43 74.3 193.6 290.4
56 58.3 43.1 64.7

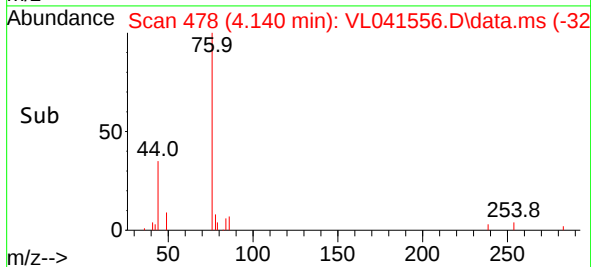
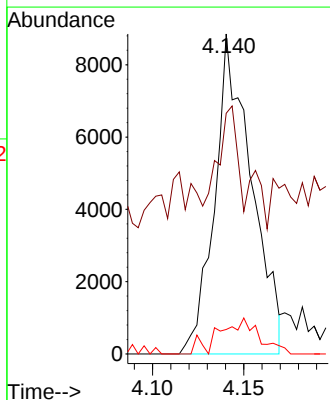
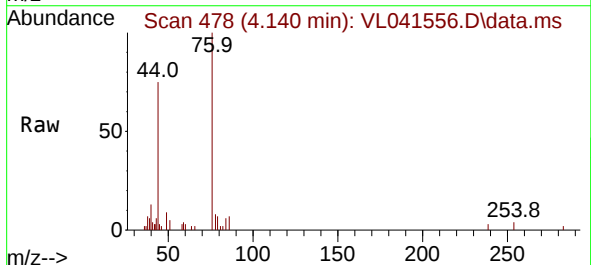
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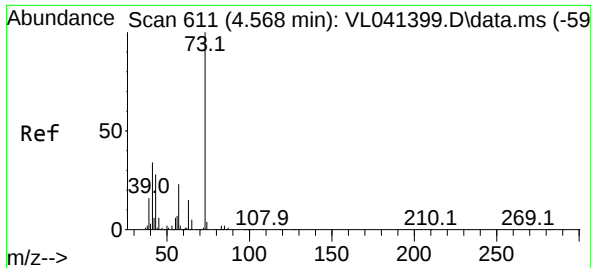
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#27
Carbon Disulfide
Concen: 0.116 ppbv m
RT: 4.140 min Scan# 478
Delta R.T. -0.003 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

Tgt Ion: 76 Resp: 12390
Ion Ratio Lower Upper
76 100
44 46.3 15.6 23.4#
78 12.3 7.7 11.5#





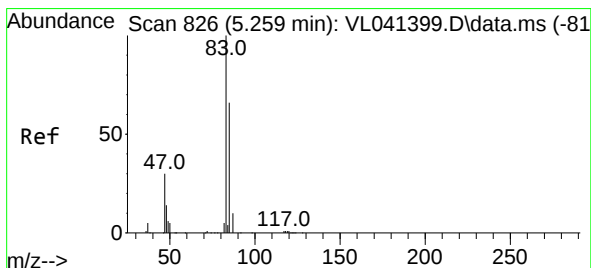
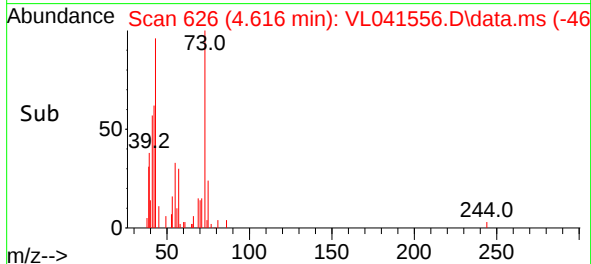
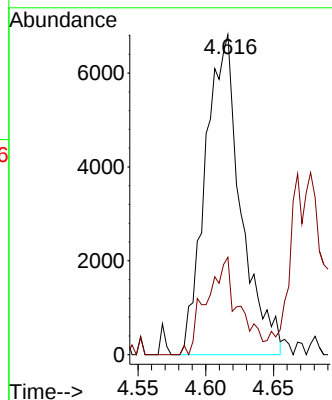
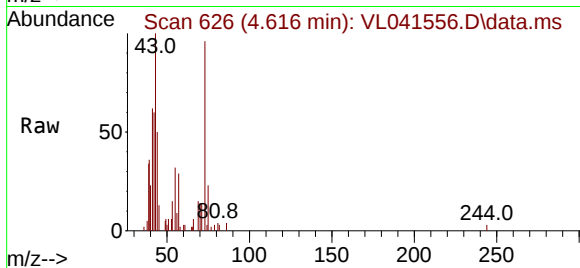
#28
Methyl tert-Butyl Ether
Concen: 0.216 ppbv
RT: 4.616 min Scan# 611
Delta R.T. 0.013 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

Instrument :
MSVOA_L
ClientSampleId :
SVI

Tgt Ion: 73 Resp: 12454
Ion Ratio Lower Upper
73 100
57 28.0 18.9 28.3

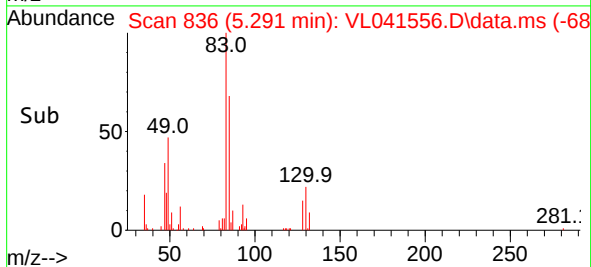
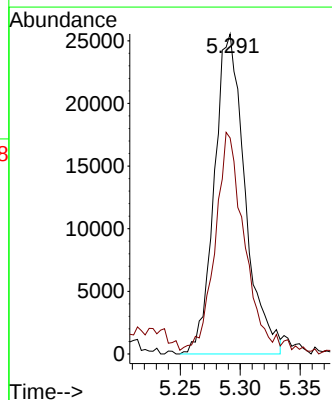
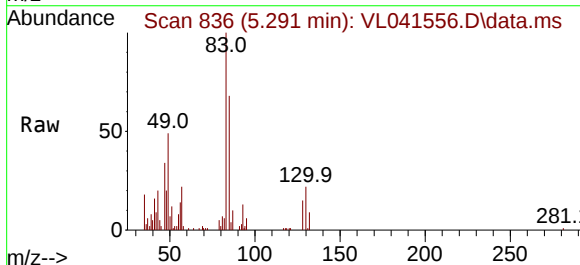
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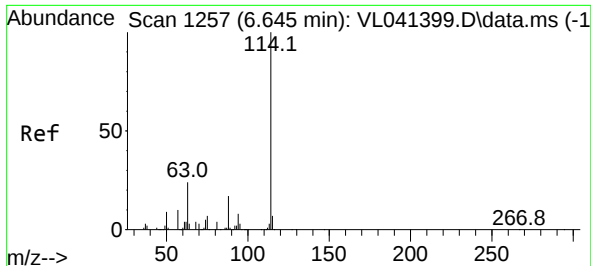
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#29
Chloroform
Concen: 0.305 ppbv
RT: 5.291 min Scan# 836
Delta R.T. -0.003 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

Tgt Ion: 83 Resp: 45487
Ion Ratio Lower Upper
83 100
85 66.4 53.1 79.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 114

Delta R.T. 0.000 min

Lab File: VL041556.D

Acq: 19 Aug 2024 20:53

Instrument :

MSVOA_L

ClientSampleId :

SVI

Tgt Ion:114 Resp: 262123

Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

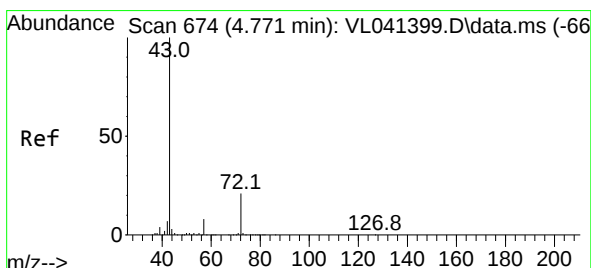
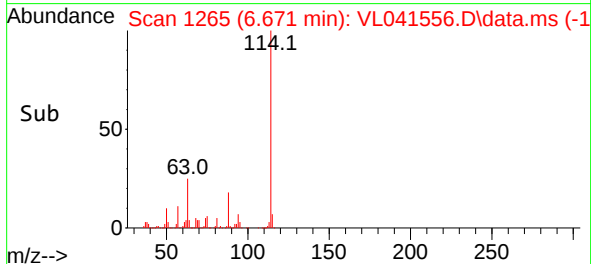
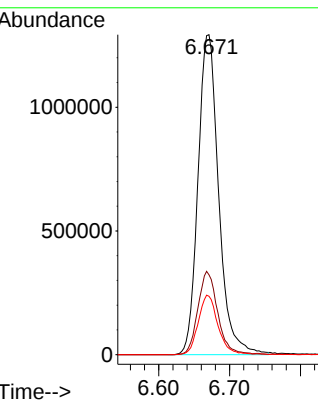
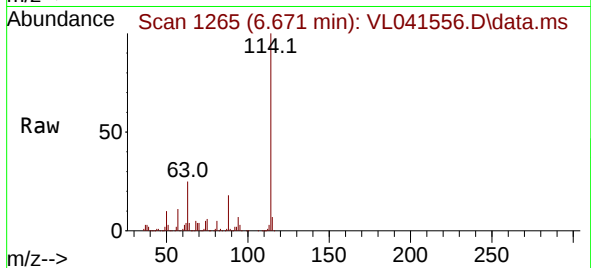
88 18.0 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/20/2024

Supervised By :Mahesh Dadoda 08/20/2024



#34

2-Butanone

Concen: 4.447 ppbv

RT: 4.809 min Scan# 686

Delta R.T. 0.006 min

Lab File: VL041556.D

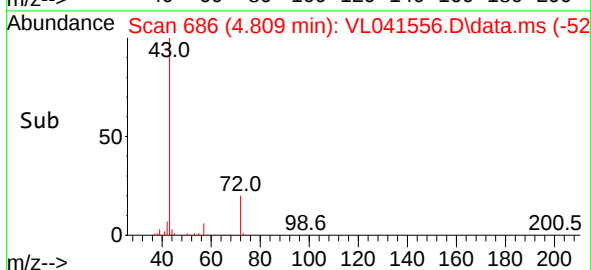
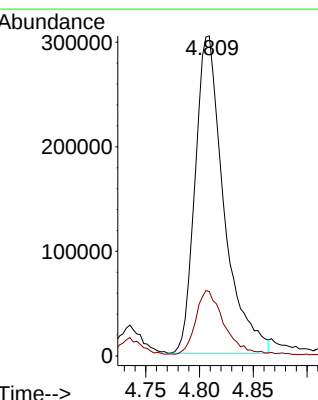
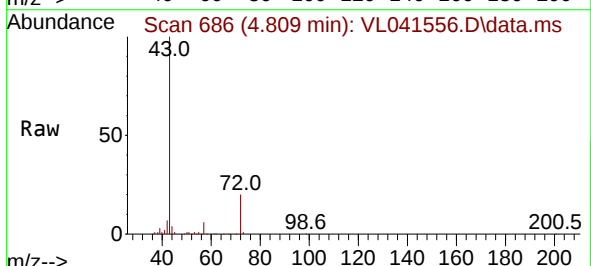
Acq: 19 Aug 2024 20:53

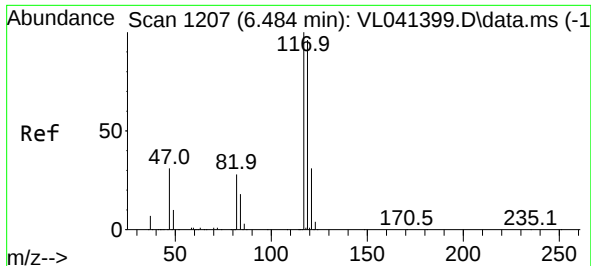
Tgt Ion: 43 Resp: 563907

Ion Ratio Lower Upper

43 100

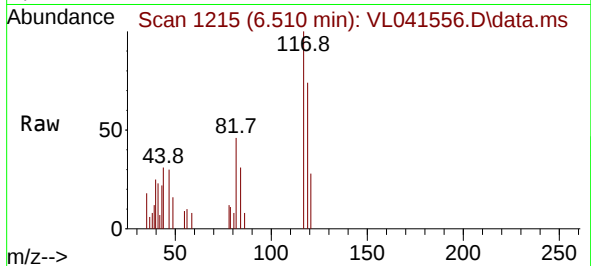
72 22.7 17.3 25.9





#35
Carbon Tetrachloride
Concen: 0.031 ppbv m
RT: 6.510 min Scan# 117
Delta R.T. -0.003 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

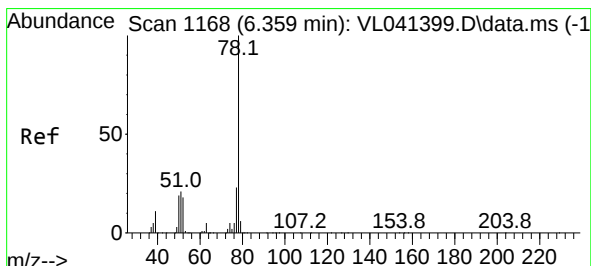
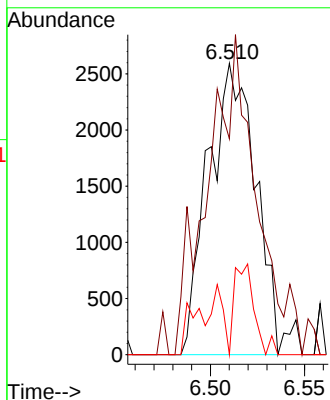
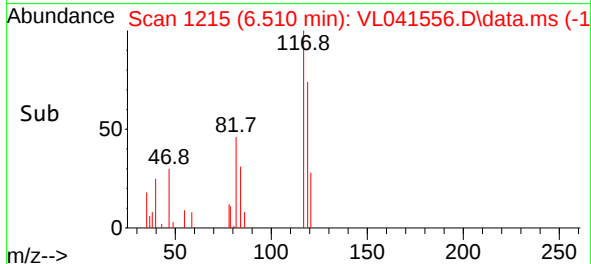
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 117 Resp: 4532
Ion Ratio Lower Upper
117 100
119 74.1 76.6 115.0
121 0.0 25.1 37.7

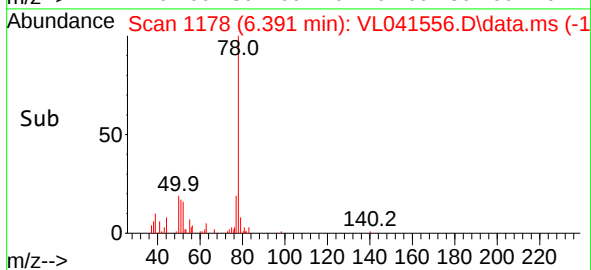
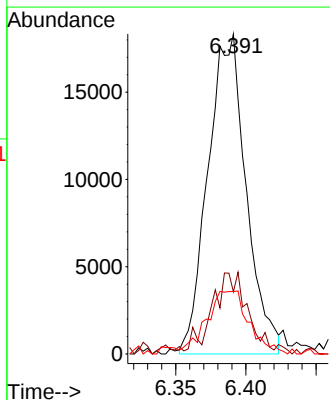
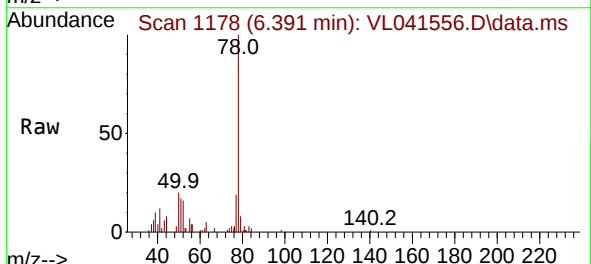
Manual Integrations
APPROVED

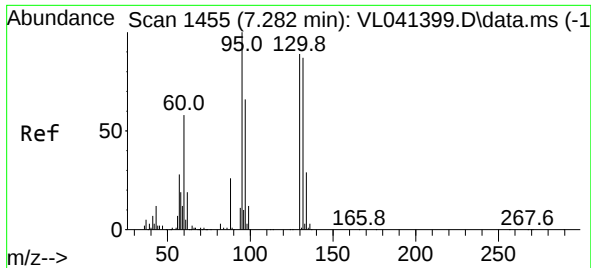
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#36
Benzene
Concen: 0.181 ppbv m
RT: 6.391 min Scan# 1178
Delta R.T. 0.000 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

Tgt Ion: 78 Resp: 34604
Ion Ratio Lower Upper
78 100
77 19.4 18.1 27.1
50 19.5 15.5 23.3





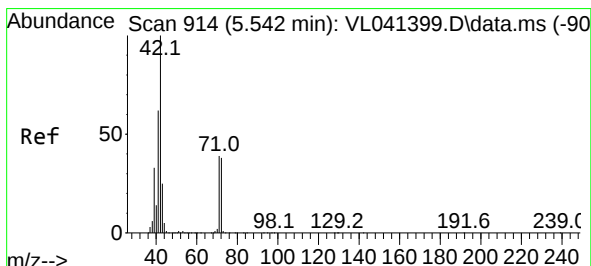
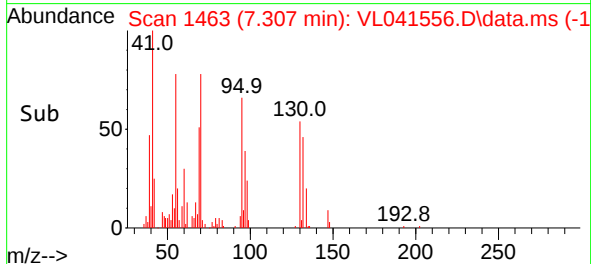
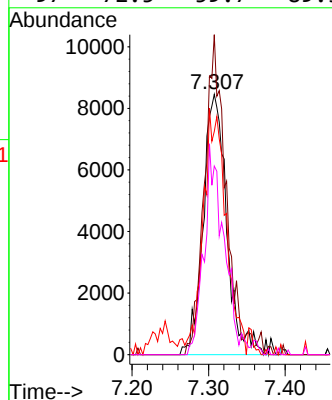
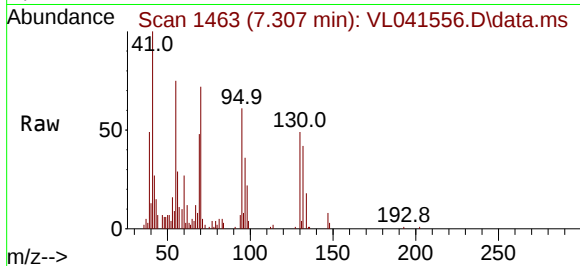
#38
Trichloroethene
Concen: 0.208 ppbv m
RT: 7.307 min Scan# 1455
Delta R.T. -0.003 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

Instrument :
MSVOA_L
ClientSampleId :
SVI

Tgt Ion:	130	Resp:	18240
Ion Ratio	Lower	Upper	
130	100		
95	122.9	90.2	135.2
132	85.7	78.1	117.1
97	72.5	59.7	89.5

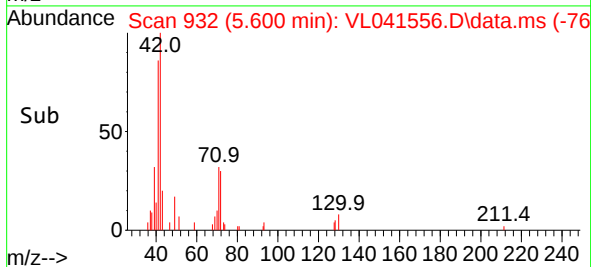
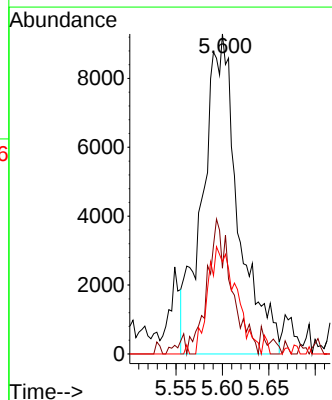
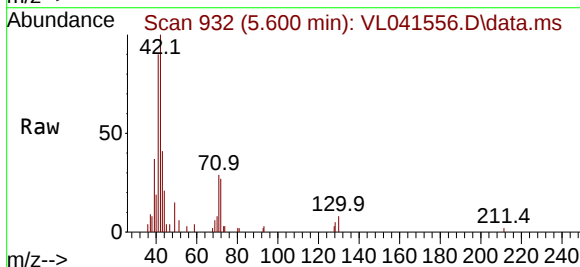
Manual Integrations
APPROVED

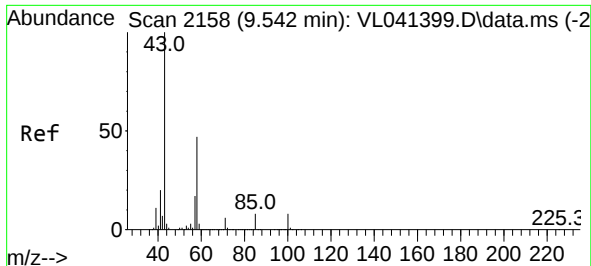
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#41
Tetrahydrofuran
Concen: 0.342 ppbv m
RT: 5.600 min Scan# 932
Delta R.T. 0.026 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

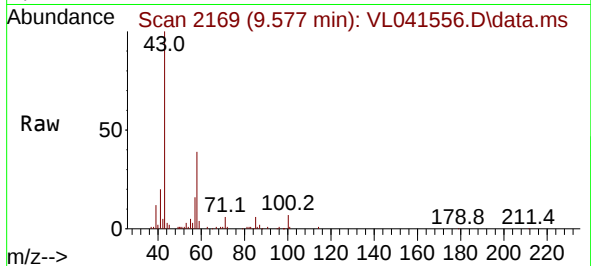
Tgt Ion:	42	Resp:	24832
Ion Ratio	Lower	Upper	
42	100		
72	33.1	31.2	46.8
71	27.3	30.5	45.7#





#51
2-Hexanone
Concen: 0.821 ppbv
RT: 9.577 min Scan# 2158
Delta R.T. 0.006 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

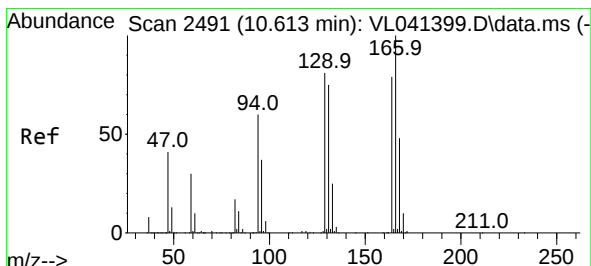
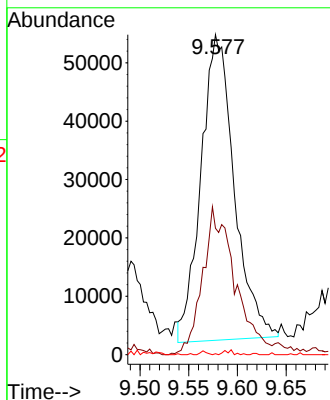
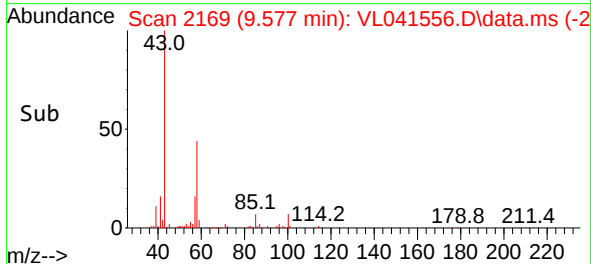
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 43 Resp: 124250
Ion Ratio Lower Upper
43 100
58 48.6 38.2 57.2
98 0.3 0.3 0.5

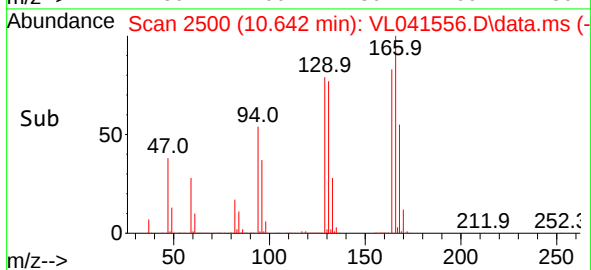
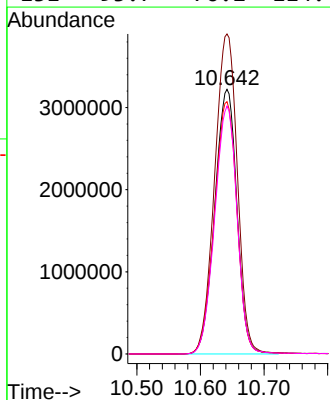
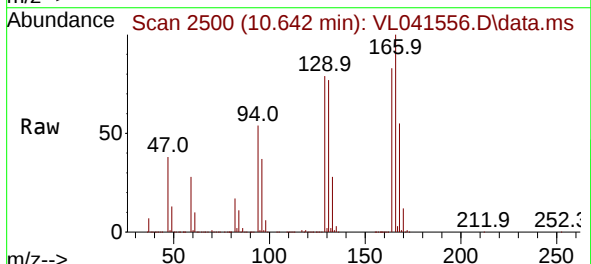
Manual Integrations
APPROVED

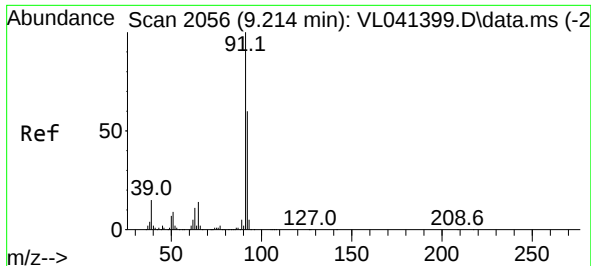
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#52
Tetrachloroethene
Concen: 105.645 ppbv
RT: 10.642 min Scan# 2500
Delta R.T. 0.006 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

Tgt Ion:164 Resp: 7818625
Ion Ratio Lower Upper
164 100
166 120.9 101.1 151.7
129 95.4 81.7 122.5
131 93.7 76.2 114.4





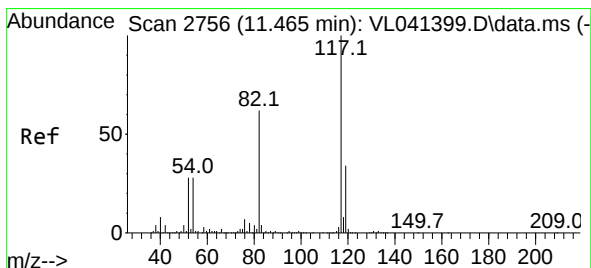
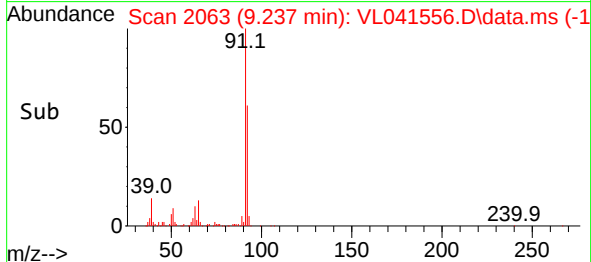
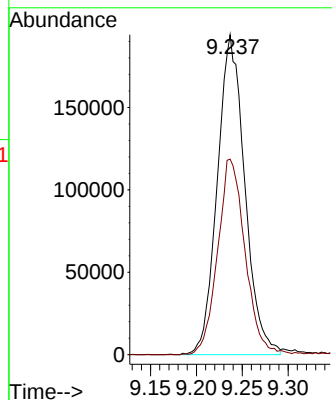
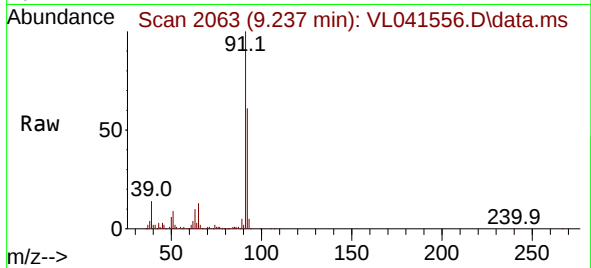
#53
Toluene
Concen: 1.892 ppbv
RT: 9.237 min Scan# 2056
Delta R.T. -0.003 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

Instrument :
MSVOA_L
ClientSampleId :
SVI

Tgt Ion: 91 Resp: 40358
Ion Ratio Lower Upper
91 100
92 61.5 48.7 73.1

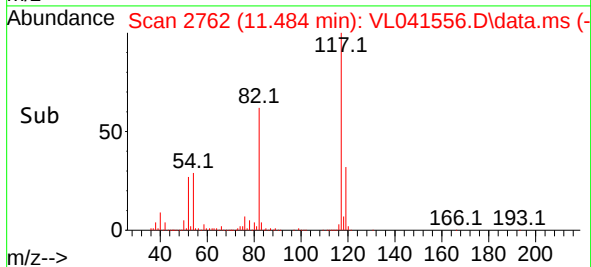
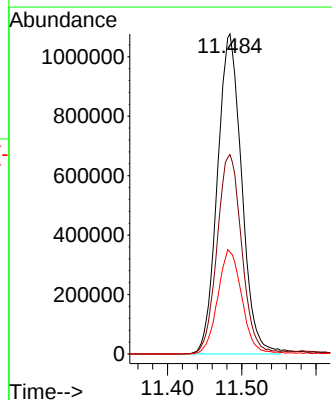
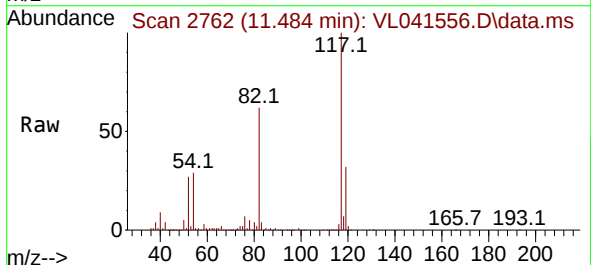
Manual Integrations
APPROVED

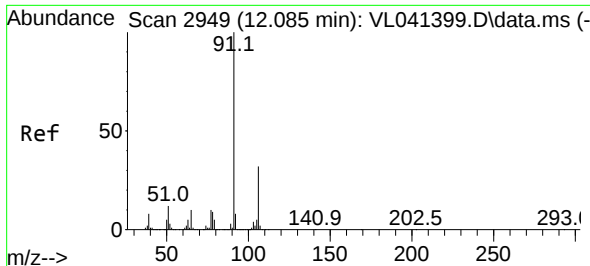
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 2762
Delta R.T. -0.006 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

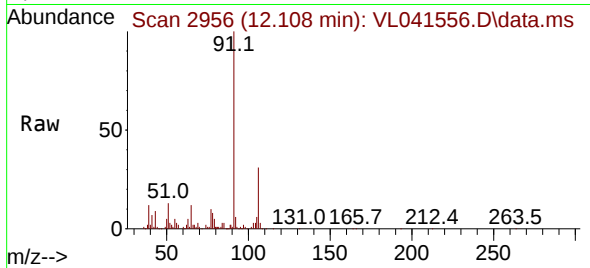
Tgt Ion:117 Resp: 2446949
Ion Ratio Lower Upper
117 100
82 63.6 51.0 76.6
119 32.8 45.2 67.8#





#58
Ethyl Benzene
Concen: 0.648 ppbv m
RT: 12.108 min Scan# 2949
Delta R.T. -0.003 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

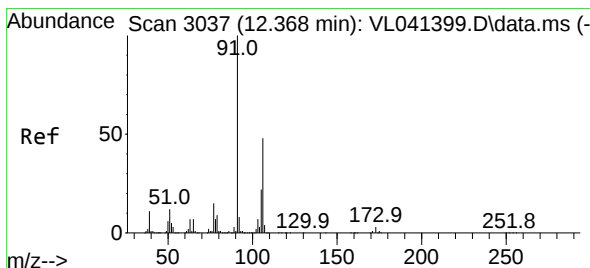
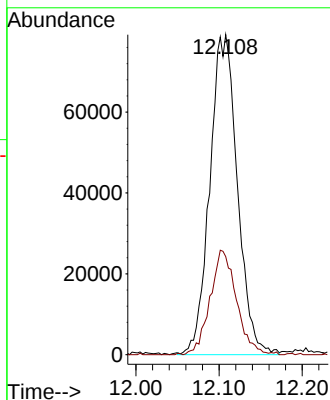
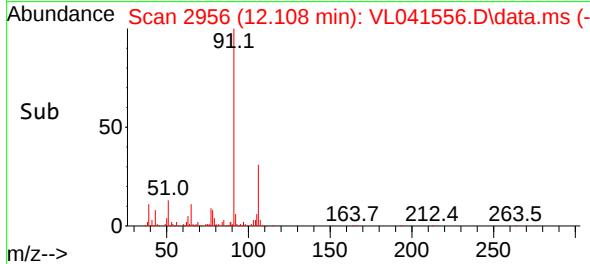
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 91 Resp: 18270
Ion Ratio Lower Upper
91 100
106 30.7 25.8 38.8

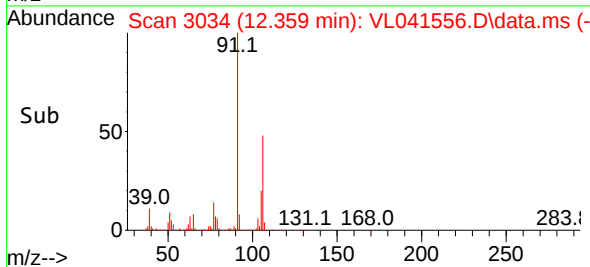
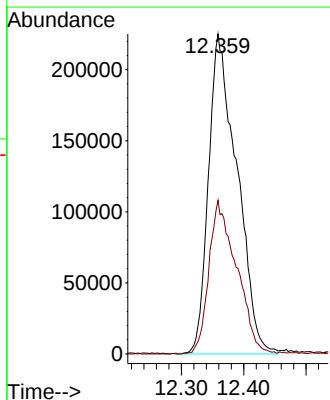
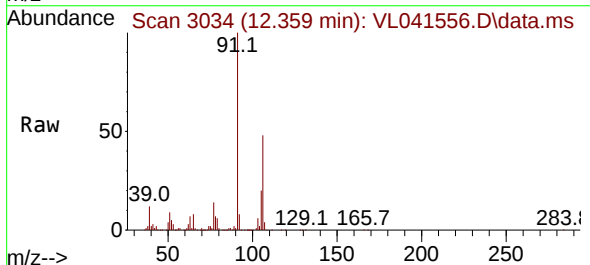
Manual Integrations
APPROVED

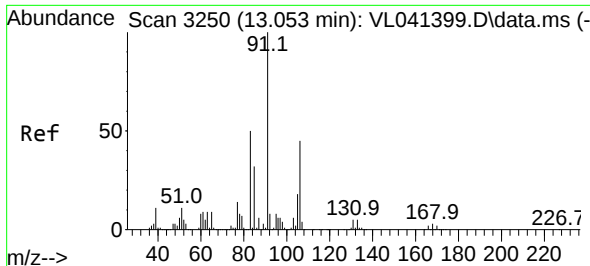
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#59
m/p-Xylene
Concen: 2.927 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. -0.035 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

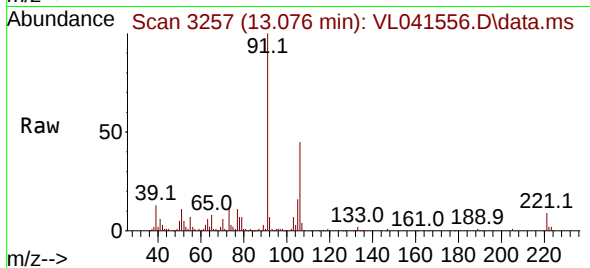
Tgt Ion: 91 Resp: 712587
Ion Ratio Lower Upper
91 100
106 47.1 36.3 54.5





#60
o-Xylene
Concen: 1.127 ppbv
RT: 13.076 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

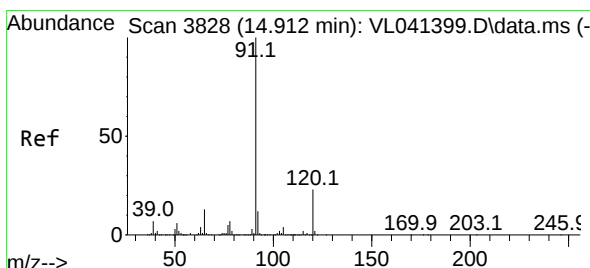
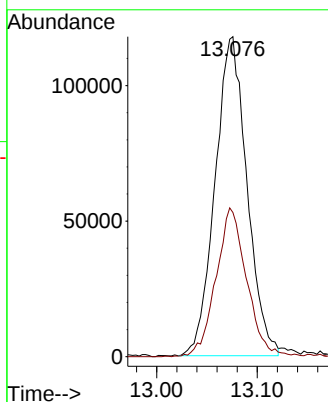
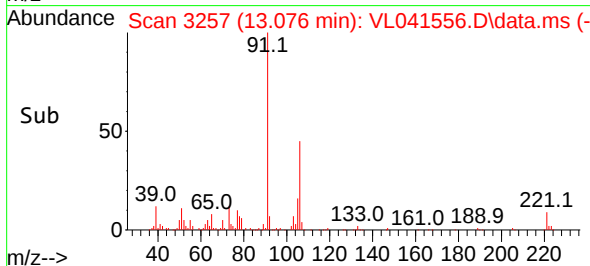
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 91 Resp: 25958
Ion Ratio Lower Upper
91 100
106 45.2 23.1 69.3

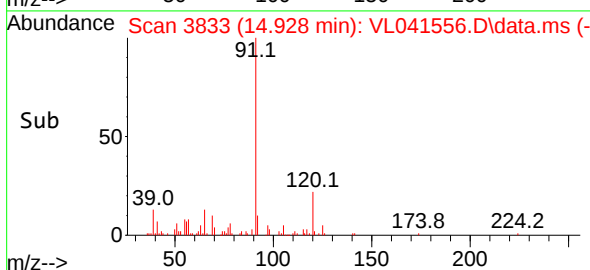
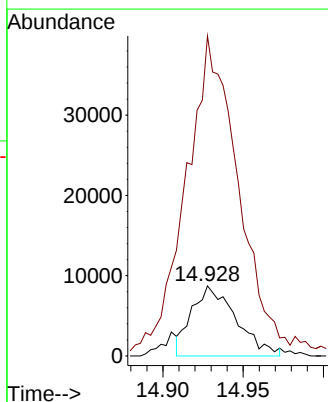
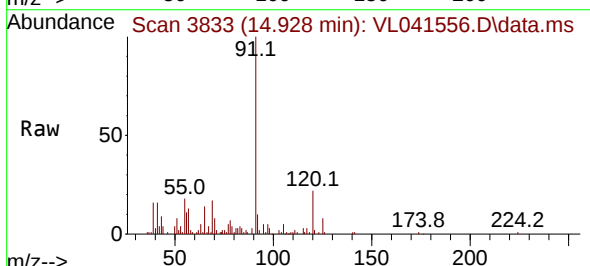
Manual Integrations
APPROVED

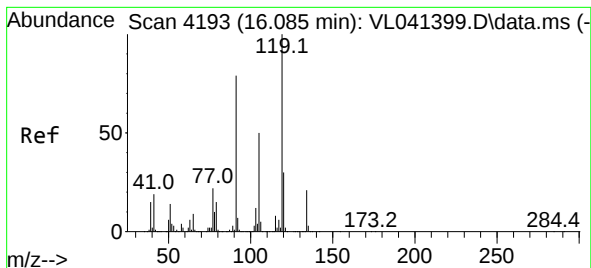
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#64
n-propylbenzene
Concen: 0.184 ppbv m
RT: 14.928 min Scan# 3833
Delta R.T. -0.010 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

Tgt Ion:120 Resp: 16805
Ion Ratio Lower Upper
120 100
91 548.9 361.4 542.0#





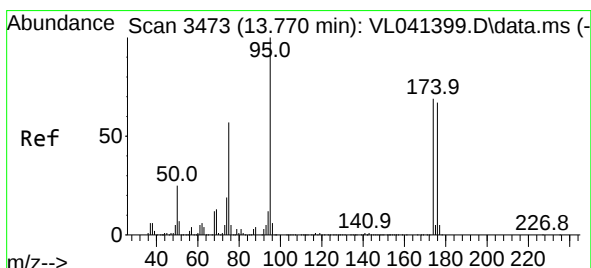
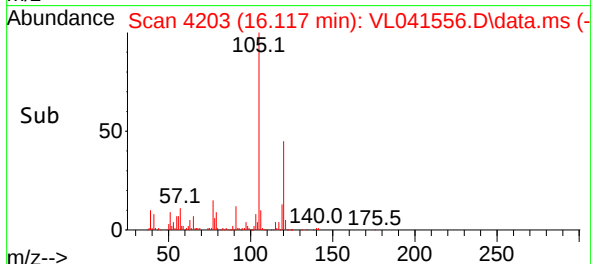
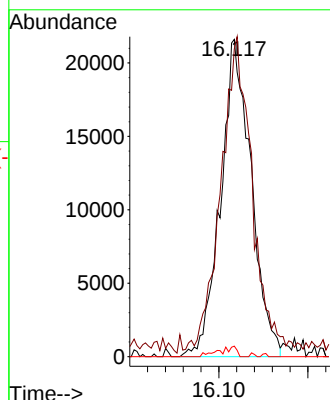
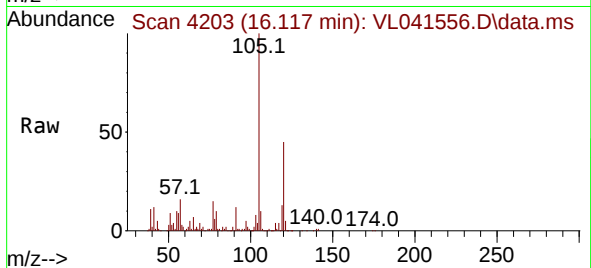
#65
tert-Butylbenzene
Concen: 0.163 ppbv
RT: 16.117 min Scan# 4193
Delta R.T. 0.006 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

Instrument :
MSVOA_L
ClientSampleId :
SVI

Tgt Ion:119 Resp: 51408
Ion Ratio Lower Upper
119 100
91 101.3 64.2 96.2
134 1.9 15.7 23.5

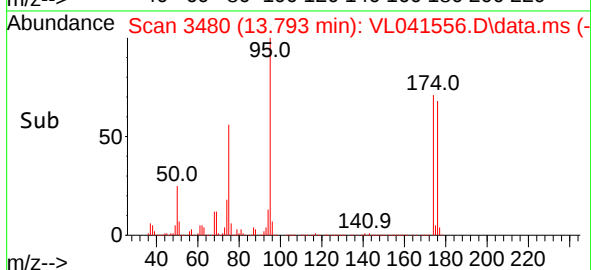
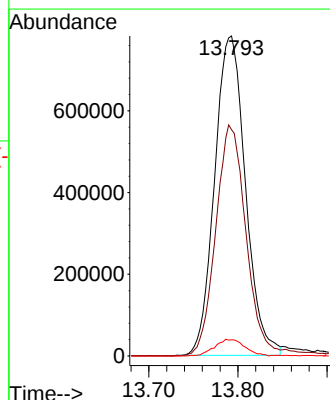
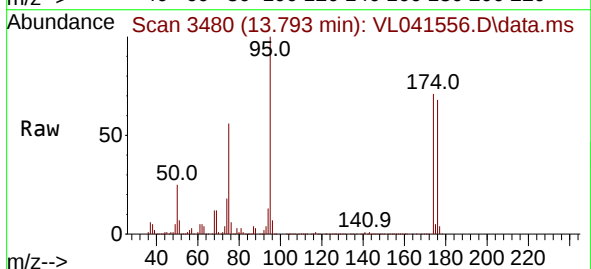
Manual Integrations
APPROVED

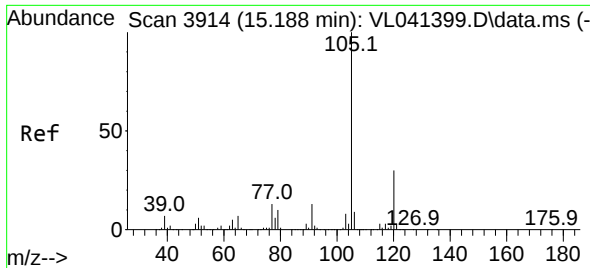
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 9.988 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. -0.006 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

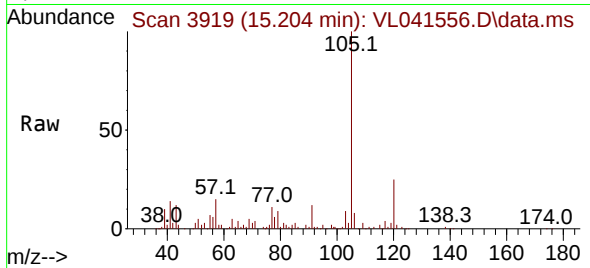
Tgt Ion: 95 Resp: 1880836
Ion Ratio Lower Upper
95 100
174 72.3 56.3 84.5
175 5.2 4.0 6.0





#72
4-Ethyltoluene
Concen: 0.478 ppbv
RT: 15.204 min Scan# 3919
Delta R.T. -0.010 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

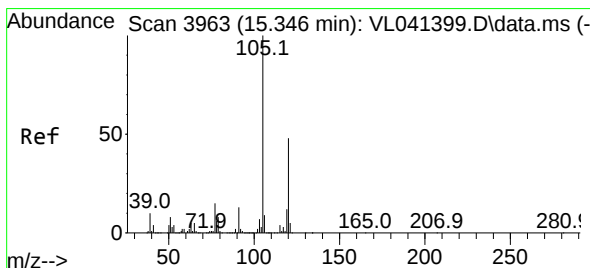
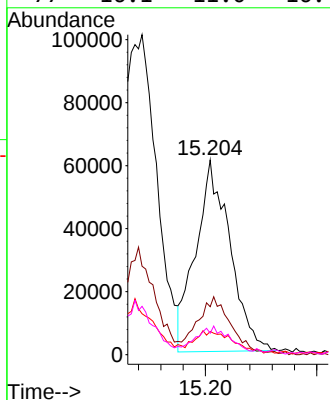
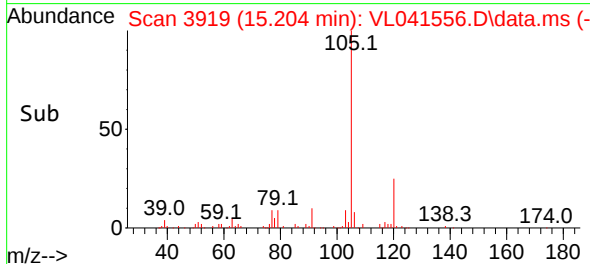
Instrument :
MSVOA_L
ClientSampleId :
SVI



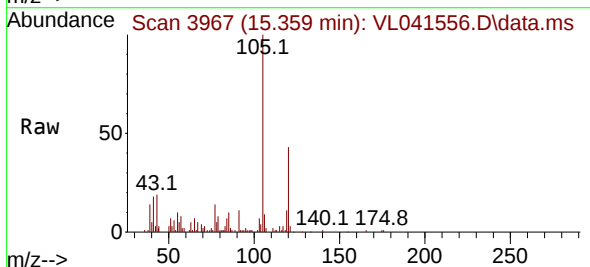
Tgt Ion:105 Resp: 12955
Ion Ratio Lower Upper
105 100
120 30.0 24.2 36.2
91 13.0 10.4 15.6
77 16.1 11.0 16.4

Manual Integrations
APPROVED

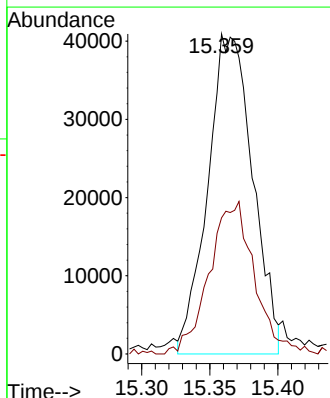
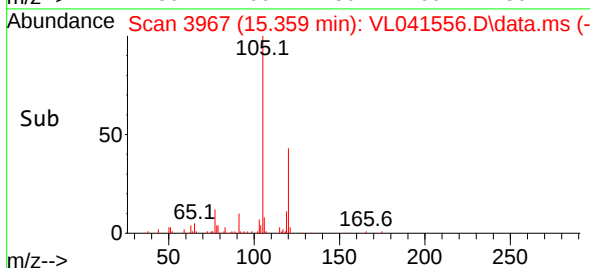
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

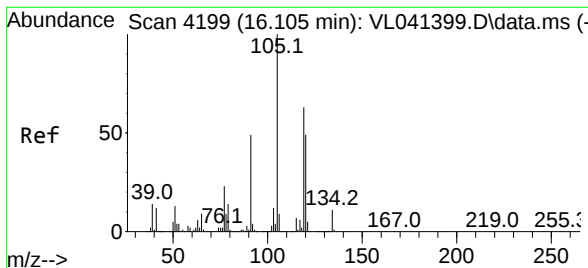


#73
1,3,5-Trimethylbenzene
Concen: 0.401 ppbv m
RT: 15.359 min Scan# 3967
Delta R.T. -0.013 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53



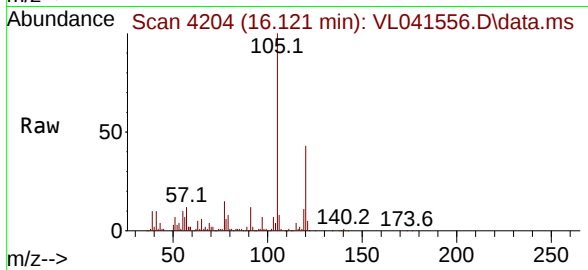
Tgt Ion:105 Resp: 93730
Ion Ratio Lower Upper
105 100
120 42.5 38.6 57.8





#74
1,2,4-Trimethylbenzene
Concen: 1.525 ppbv
RT: 16.121 min Scan# 4199
Delta R.T. -0.006 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53

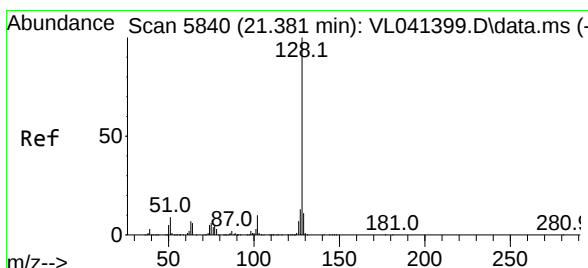
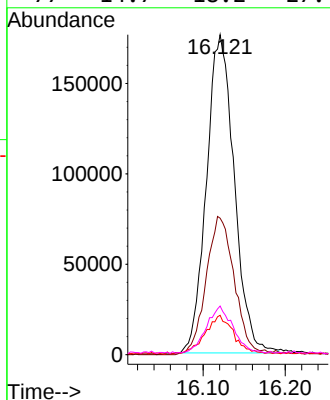
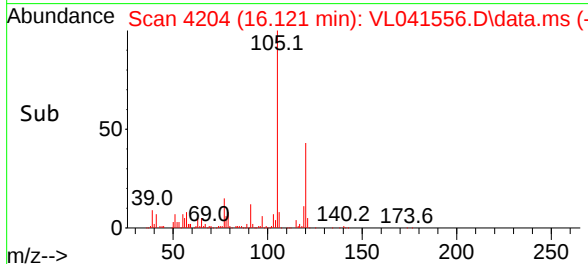
Instrument :
MSVOA_L
ClientSampleId :
SVI



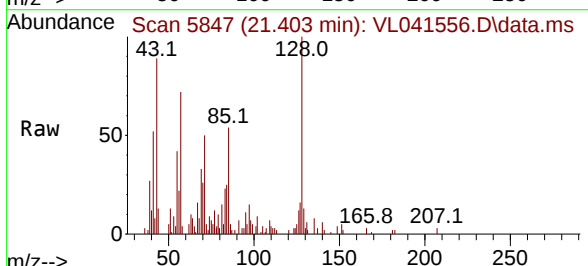
Tgt Ion:105 Resp: 414170
Ion Ratio Lower Upper
105 100
120 42.6 39.5 59.3
91 11.9 39.8 59.8
77 14.7 18.2 27.4#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#79
Naphthalene
Concen: 0.156 ppbv m
RT: 21.403 min Scan# 5847
Delta R.T. -0.006 min
Lab File: VL041556.D
Acq: 19 Aug 2024 20:53



Tgt Ion:128 Resp: 37470
Ion Ratio Lower Upper
128 100
127 15.7 10.3 15.5#
129 13.1 9.0 13.4

