

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041745.D
 Acq On : 12 Dec 2024 11:36
 Operator : SY/MD
 Sample : P5150-04DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DL

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 11:59:07 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

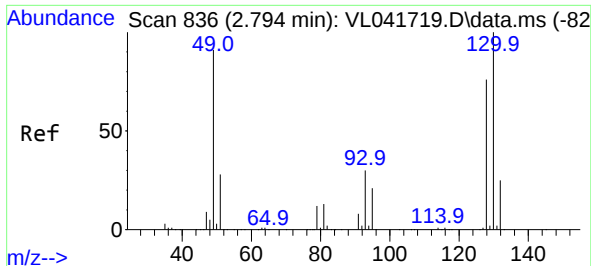
QLast Update : Thu Dec 12 07:13:56 2024

Response via : Initial Calibration

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

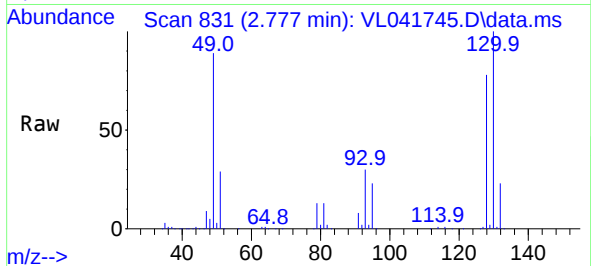
Internal Standards						
1) Bromochloromethane	2.777	49	238287	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.942	114	1137631	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	1005470	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	678331	10.262	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	5366	0.128	ppbv	95
4) Chloromethane	1.528	50	1386	0.125	ppbv	98
9) Propene	1.479	41	5893m	0.426	ppbv	
10) Heptane	4.959	43	223015	5.832	ppbv	100
13) Ethanol	1.716	45	134795	117.815	ppbv	95
15) Acetone	1.829	43	37054	1.347	ppbv	88
19) Isopropyl Alcohol	1.881	45	19042	0.729	ppbv #	33
20) Methylene Chloride	2.052	84	3662	0.220	ppbv	96
26) Hexane	2.816	57	99624	2.686	ppbv #	44
30) Cyclohexane	3.842	84	160531	3.852	ppbv	95
34) 2-Butanone	2.554	43	3928	0.099	ppbv	96
36) Benzene	3.641	78	156608	1.751	ppbv	97
52) Tetrachloroethene	8.218	164	1456m	0.031	ppbv	
53) Toluene	6.914	91	874333	7.954	ppbv	100
58) Ethyl Benzene	9.344	91	414153	3.078	ppbv	96
59) m/p-Xylene	9.519	91	890417	8.637	ppbv	98
60) o-Xylene	9.953	91	356228	3.485	ppbv	97
62) Isopropylbenzene	10.529	105	71686	0.425	ppbv	93
64) n-propylbenzene	10.982	120	46300	0.932	ppbv	84
65) tert-Butylbenzene	11.529	119	49857	0.312	ppbv #	70
67) sec-Butylbenzene	11.759	105	49454	0.239	ppbv	93
69) p-Isopropyltoluene	11.921	119	20055	0.112	ppbv #	93
70) n-Butylbenzene	12.277	91	51174	0.345	ppbv #	45
73) 1,3,5-Trimethylbenzene	11.196	105	127911	1.198	ppbv	97
74) 1,2,4-Trimethylbenzene	11.529	105	404601	3.485	ppbv #	67

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. -0.017 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

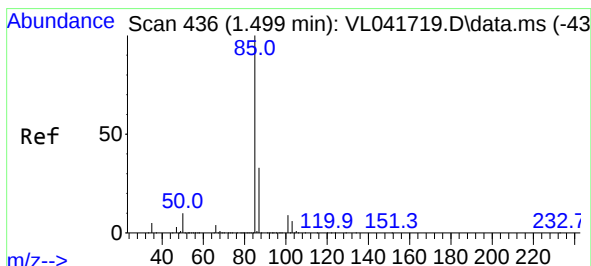
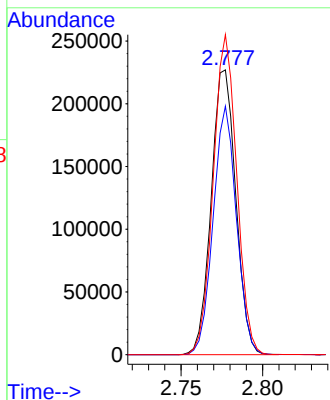
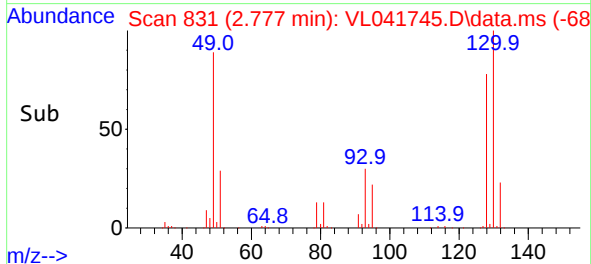
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



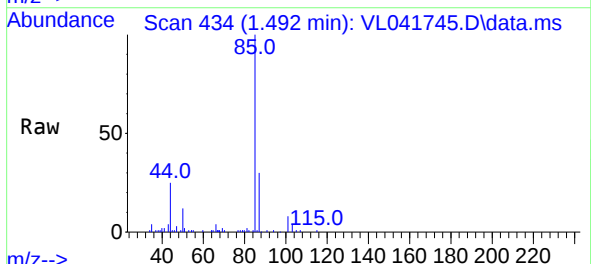
Tgt Ion: 49 Resp: 23828
Ion Ratio Lower Upper
49 100
128 82.6 42.8 128.3
130 107.4 55.8 167.4

Manual Integrations
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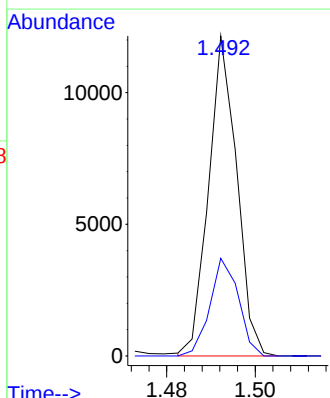
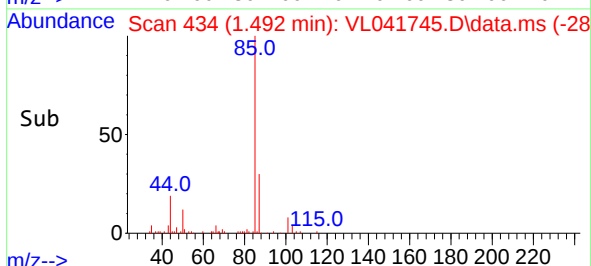
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

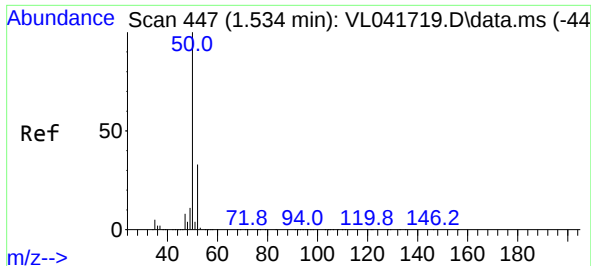


#2
Dichlorodifluoromethane
Concen: 0.128 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36



Tgt Ion: 85 Resp: 5366
Ion Ratio Lower Upper
85 100
87 30.5 26.6 39.8





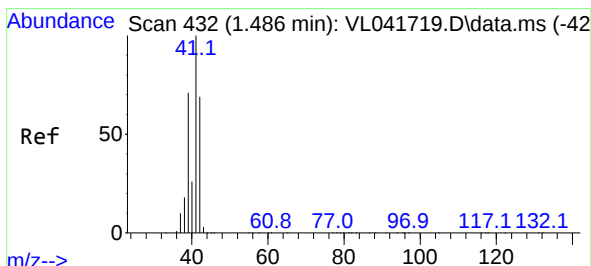
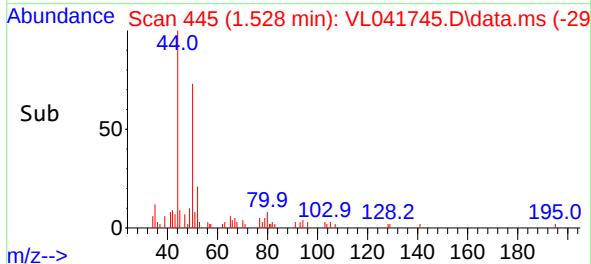
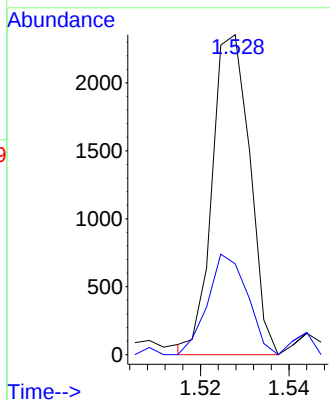
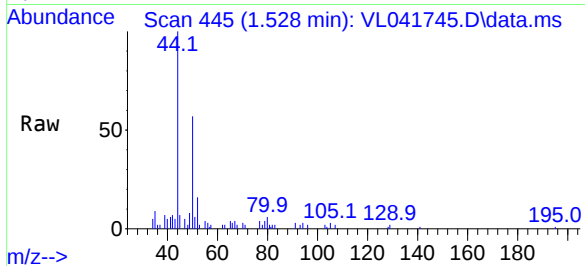
#4
Chloromethane
Concen: 0.125 ppbv
RT: 1.528 min Scan# 441
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion: 50 Resp: 1380
Ion Ratio Lower Upper
50 100
52 31.9 26.6 40.0

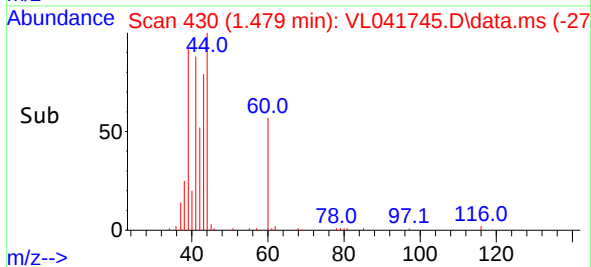
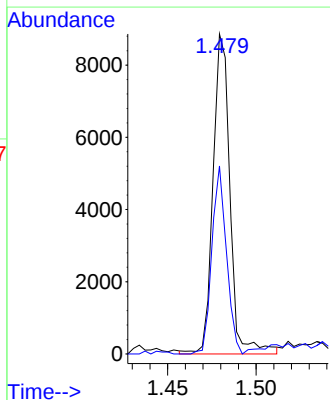
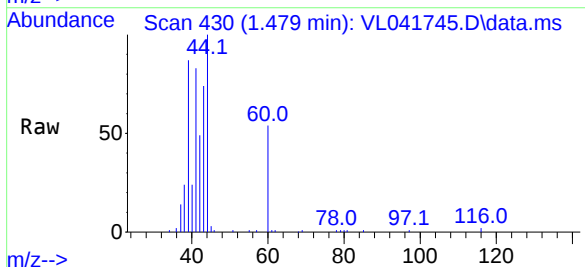
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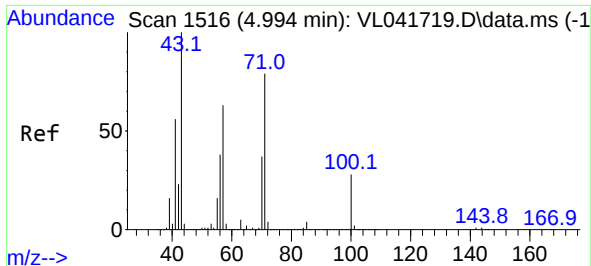
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#9
Propene
Concen: 0.426 ppbv m
RT: 1.479 min Scan# 430
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Tgt Ion: 41 Resp: 5893
Ion Ratio Lower Upper
41 100
42 23.1 56.2 84.4#





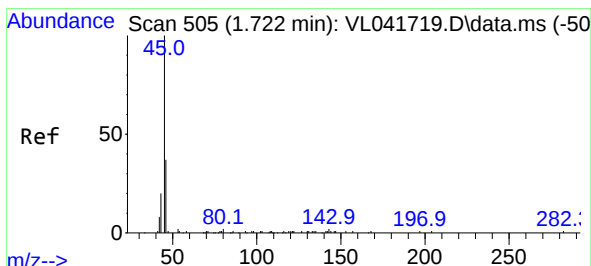
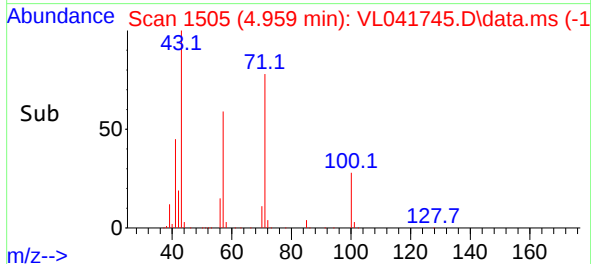
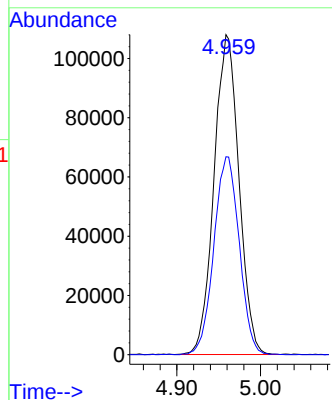
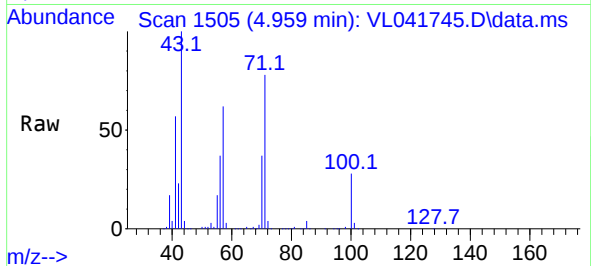
#10
Heptane
Concen: 5.832 ppbv
RT: 4.959 min Scan# 11
Delta R.T. -0.036 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion: 43 Resp: 223015
Ion Ratio Lower Upper
43 100
57 63.1 50.5 75.7

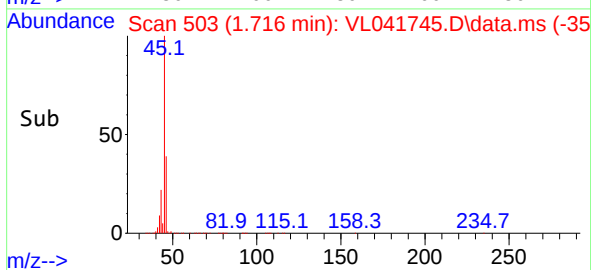
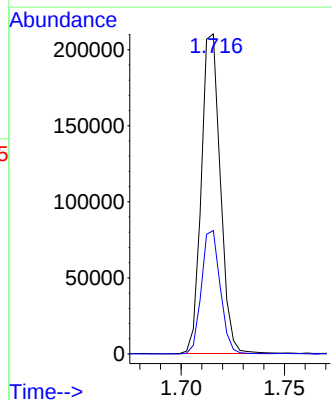
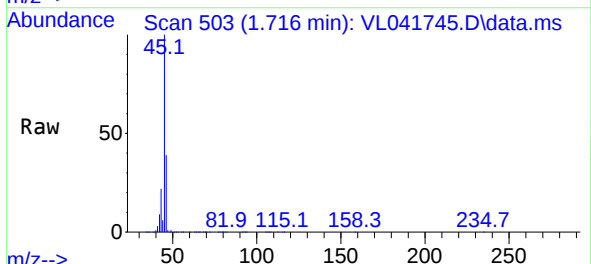
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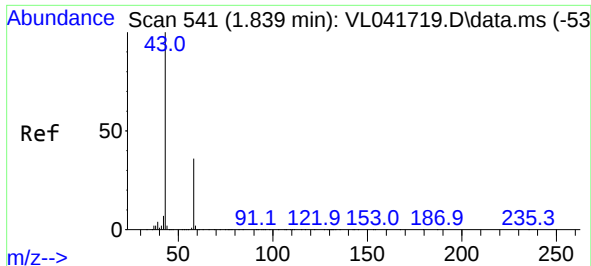
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#13
Ethanol
Concen: 117.815 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

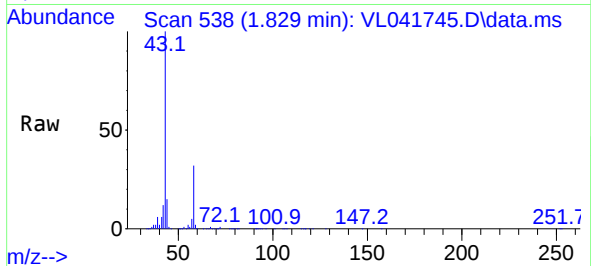
Tgt Ion: 45 Resp: 134795
Ion Ratio Lower Upper
45 100
46 38.6 16.6 66.6





#15
Acetone
Concen: 1.347 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

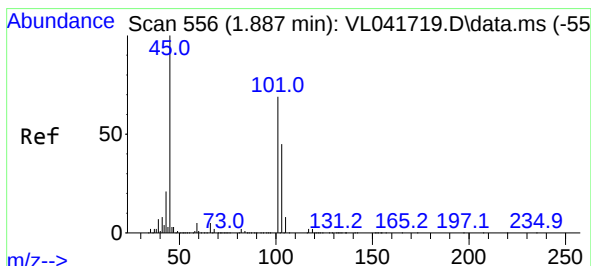
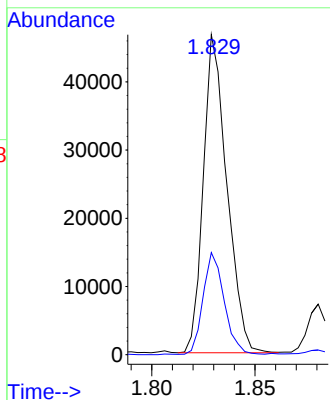
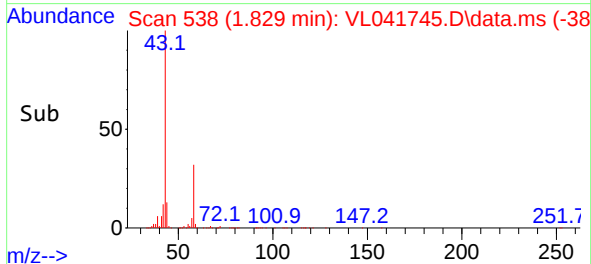
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



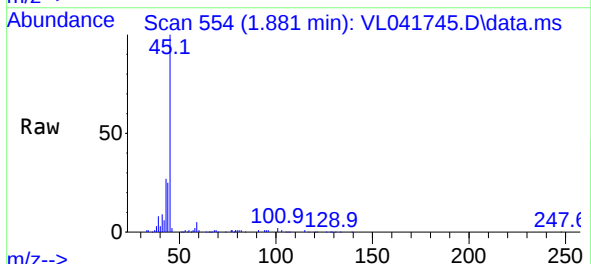
Tgt Ion: 43 Resp: 37054
Ion Ratio Lower Upper
43 100
58 29.1 28.9 43.3

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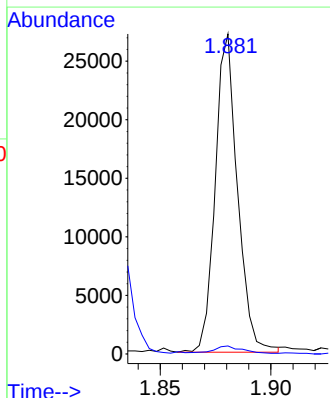
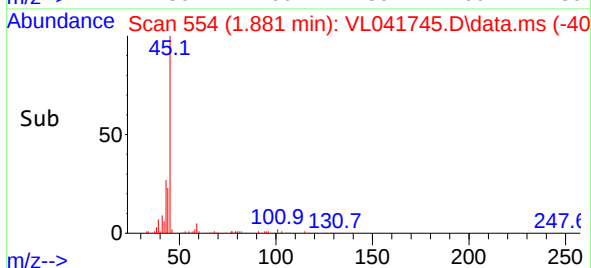
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

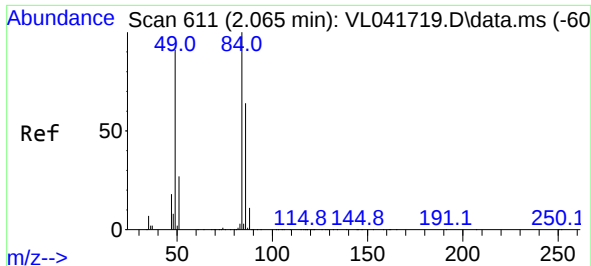


#19
Isopropyl Alcohol
Concen: 0.729 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36



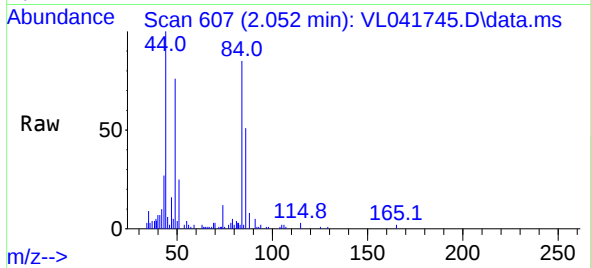
Tgt Ion: 45 Resp: 19042
Ion Ratio Lower Upper
45 100
58 4.2 40.6 61.0#





#20
Methylene Chloride
Concen: 0.220 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.013 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

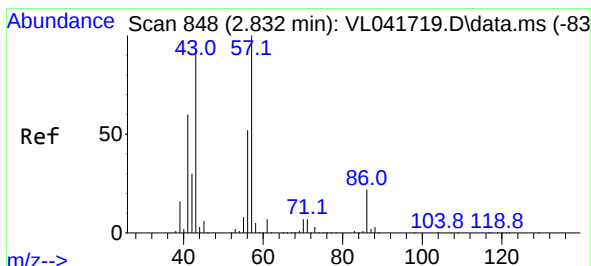
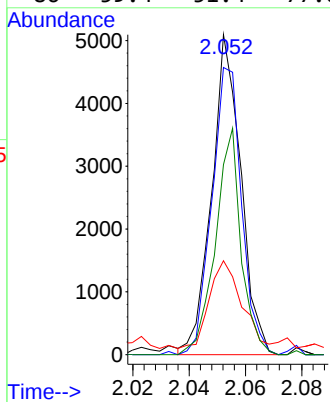
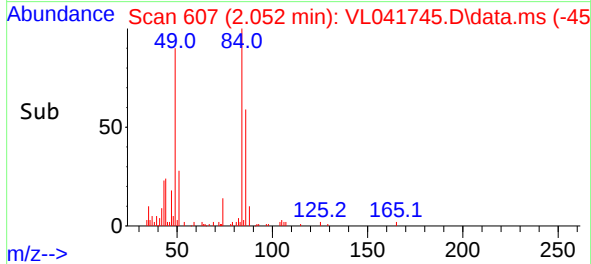
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion:	84	Resp:	3662
Ion	Ratio	Lower	Upper
84	100		
49	89.7	73.6	110.4
51	27.4	22.7	34.1
86	59.4	51.4	77.0

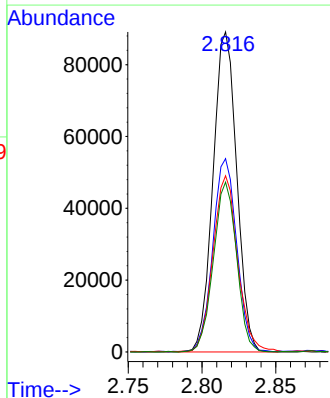
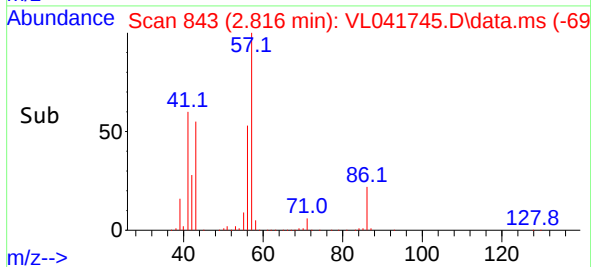
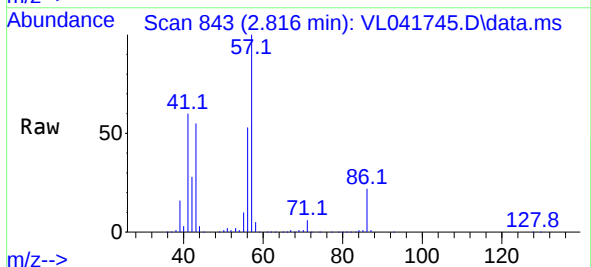
Manual Integrations
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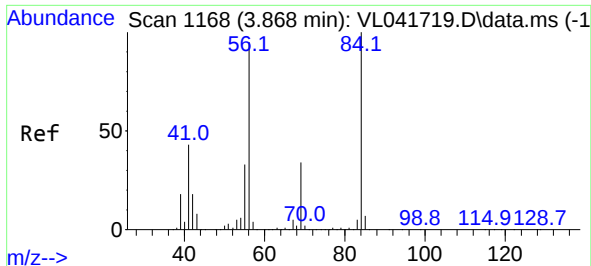
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#26
Hexane
Concen: 2.686 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.016 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

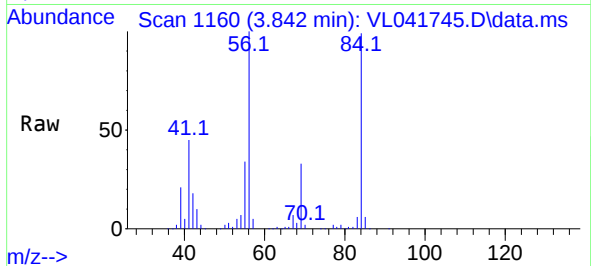
Tgt Ion:	57	Resp:	99624
Ion	Ratio	Lower	Upper
57	100		
41	61.2	49.5	74.3
43	57.6	150.6	225.8#
56	52.0	41.6	62.4





#30
Cyclohexane
Concen: 3.852 ppbv
RT: 3.842 min Scan# 1160
Delta R.T. -0.026 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

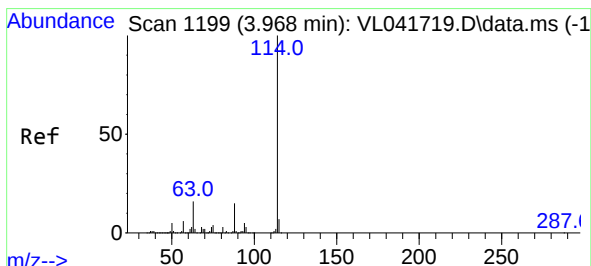
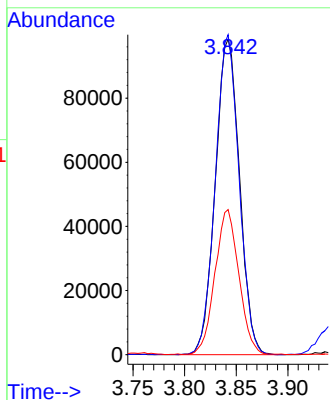
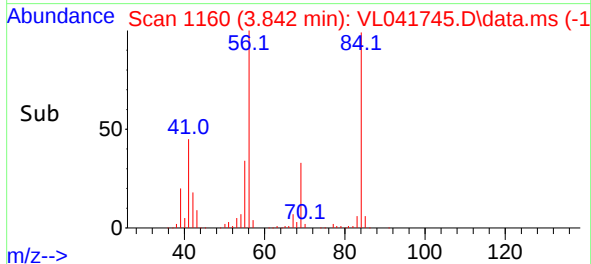
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



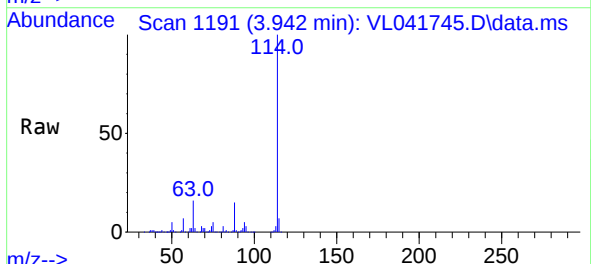
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Ion Ratio Lower Upper
84 100
56 99.5 76.0 114.0
41 45.5 34.2 51.4

Manual Integrations
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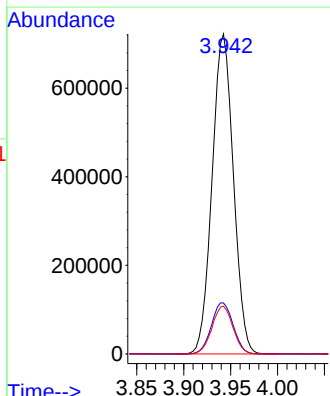
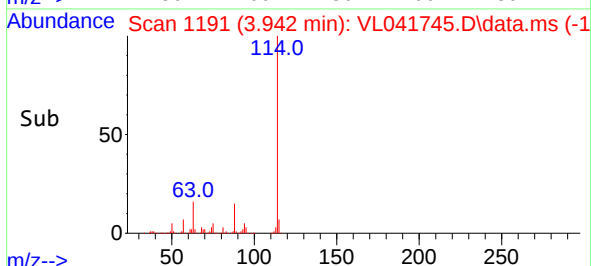
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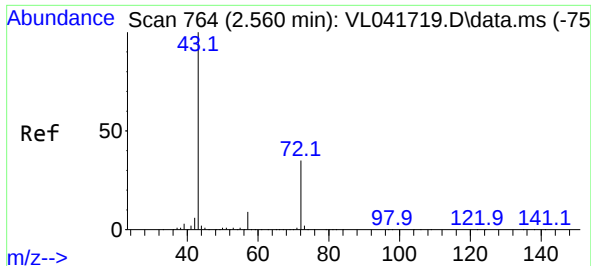


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.942 min Scan# 1191
Delta R.T. -0.026 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36



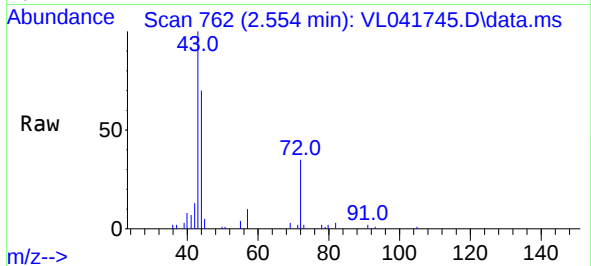
Tgt Ion:114 Resp: 1137631
Ion Ratio Lower Upper
114 100
63 16.4 12.9 19.3
88 14.8 11.8 17.6





#34
2-Butanone
Concen: 0.099 ppbv
RT: 2.554 min Scan# 70
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

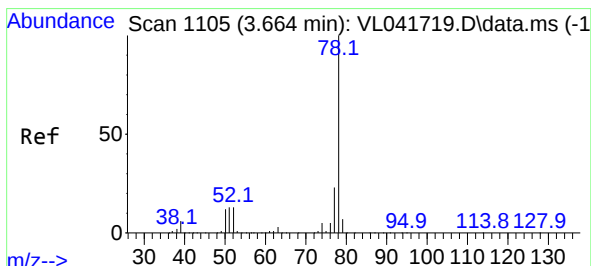
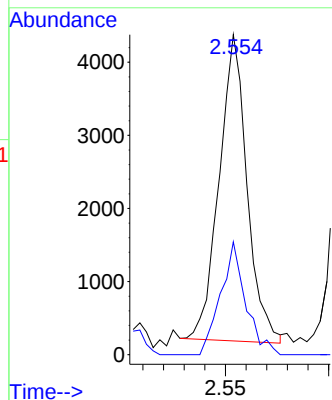
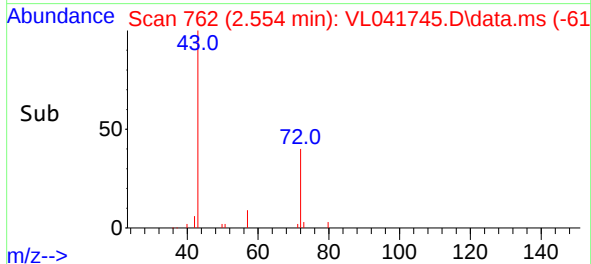
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion: 43 Resp: 3928
Ion Ratio Lower Upper
43 100
72 33.2 28.3 42.5

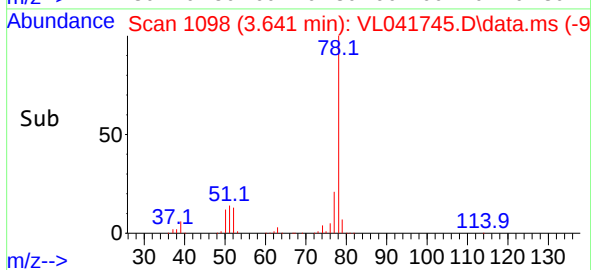
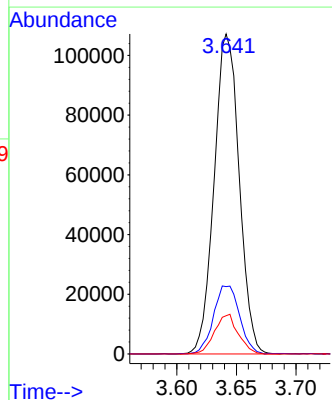
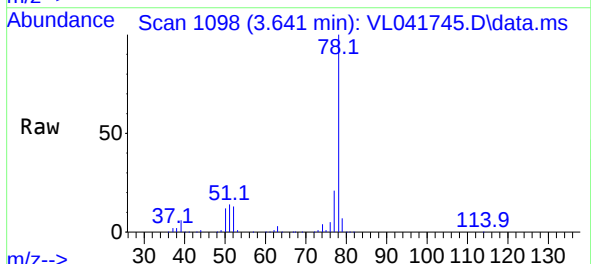
Manual Integrations
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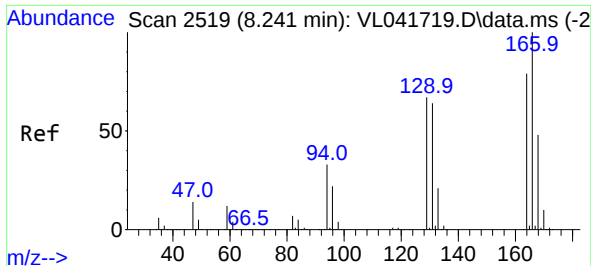
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#36
Benzene
Concen: 1.751 ppbv
RT: 3.641 min Scan# 1098
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

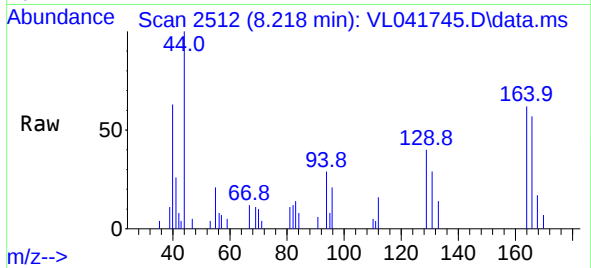
Tgt Ion: 78 Resp: 156608
Ion Ratio Lower Upper
78 100
77 20.9 18.6 27.8
50 11.9 9.5 14.3





#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.218 min Scan# 2109
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

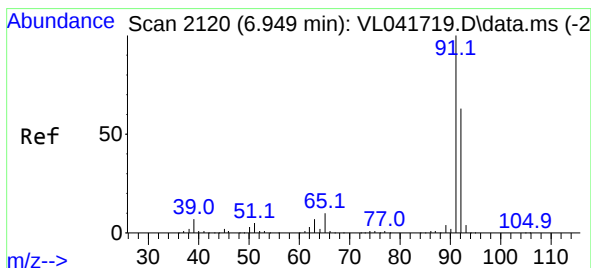
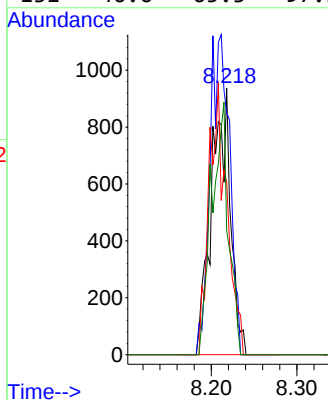
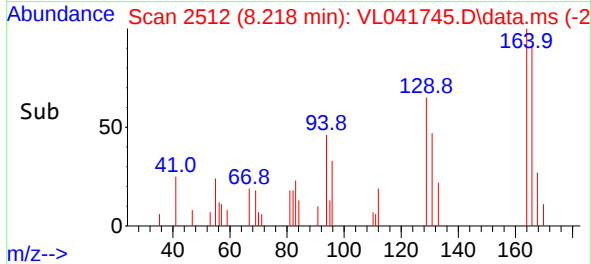
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion:164 Resp: 1450
Ion Ratio Lower Upper
164 100
166 90.8 101.4 152.0
129 64.8 67.6 101.4
131 46.6 65.3 97.9

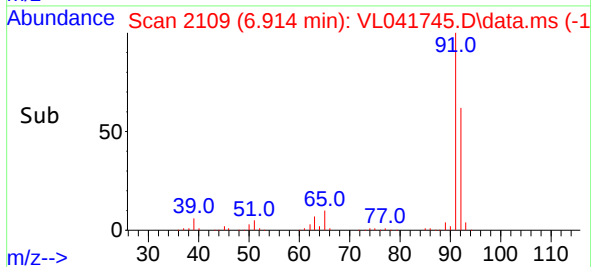
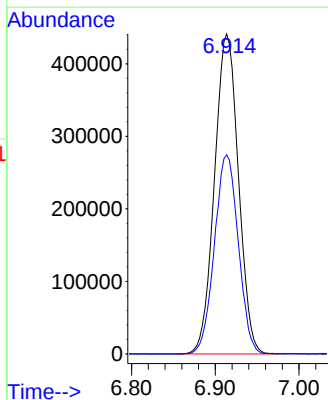
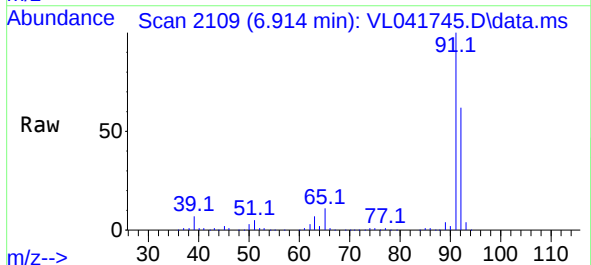
Manual Integrations
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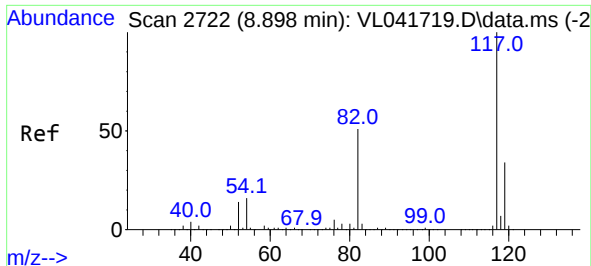
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#53
Toluene
Concen: 7.954 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. -0.036 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

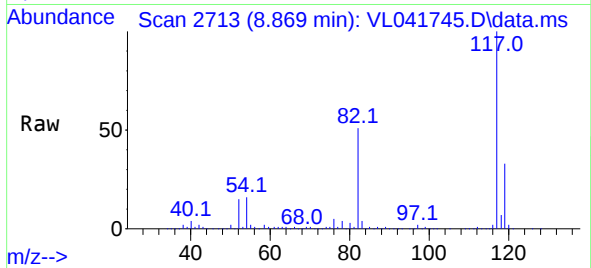
Tgt Ion: 91 Resp: 874333
Ion Ratio Lower Upper
91 100
92 62.1 49.7 74.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

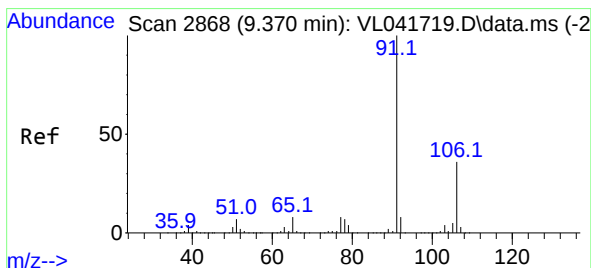
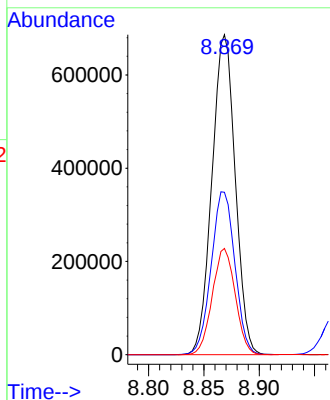
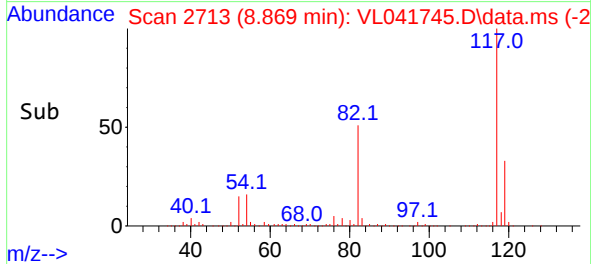
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion:117 Resp: 1005470
Ion Ratio Lower Upper
117 100
82 51.8 41.3 61.9
119 32.8 25.8 38.8

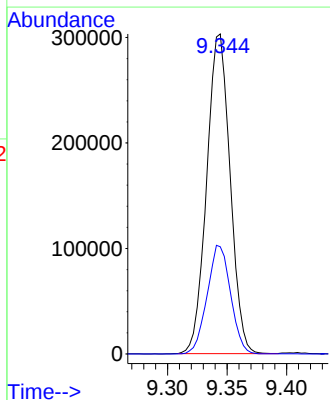
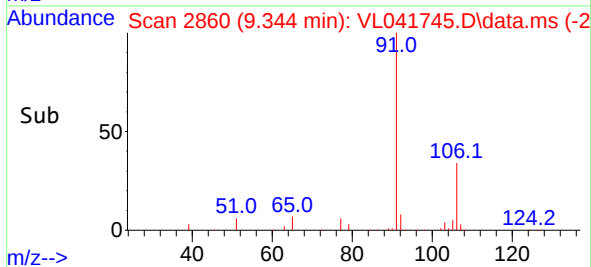
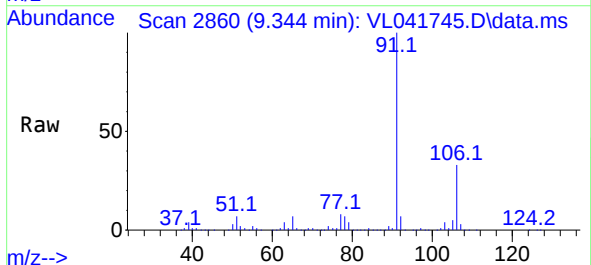
Manual Integrations
APPROVED

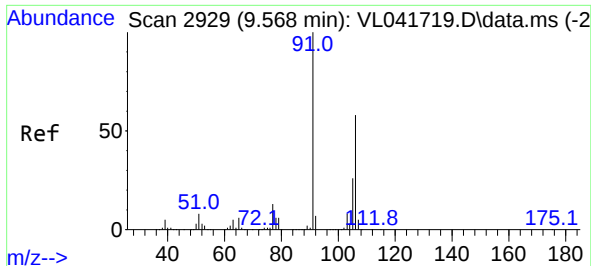
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#58
Ethyl Benzene
Concen: 3.078 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.026 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

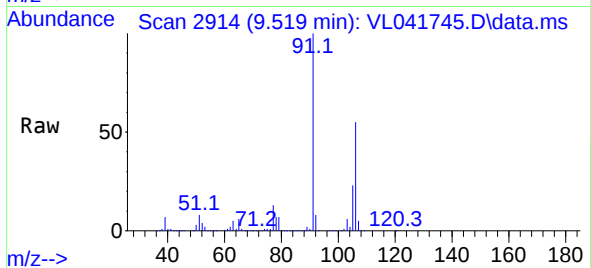
Tgt Ion: 91 Resp: 414153
Ion Ratio Lower Upper
91 100
106 33.5 28.6 43.0





#59
m/p-Xylene
Concen: 8.637 ppbv
RT: 9.519 min Scan# 2914
Delta R.T. -0.049 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

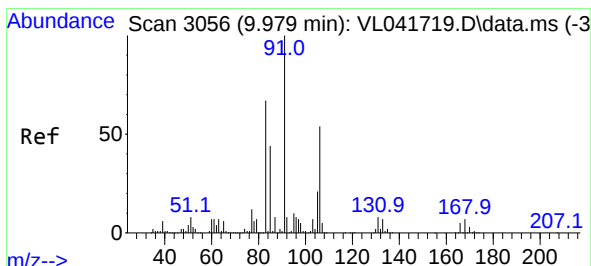
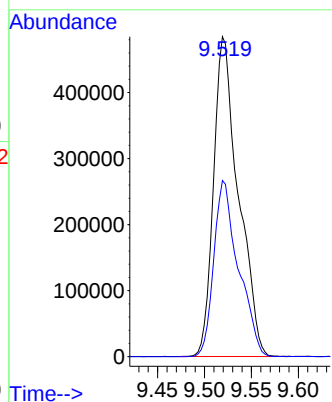
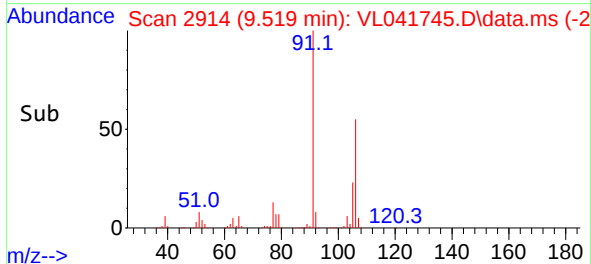
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



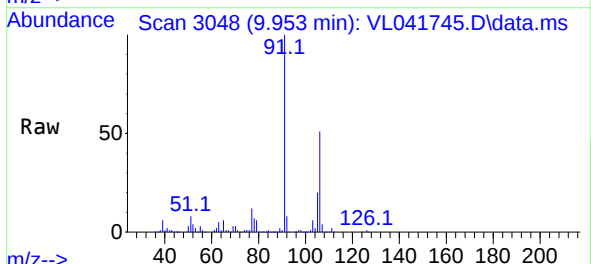
Tgt Ion: 91 Resp: 89041
Ion Ratio Lower Upper
91 100
106 54.6 45.1 67.7

Manual Integrations
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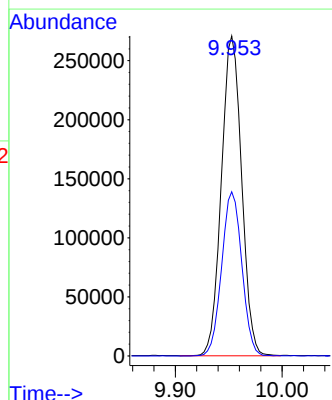
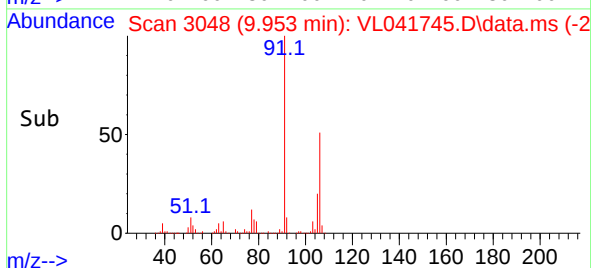
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

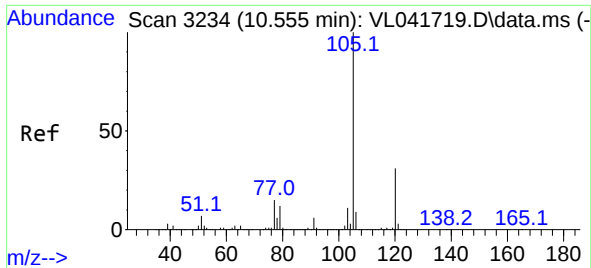


#60
o-Xylene
Concen: 3.485 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.026 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36



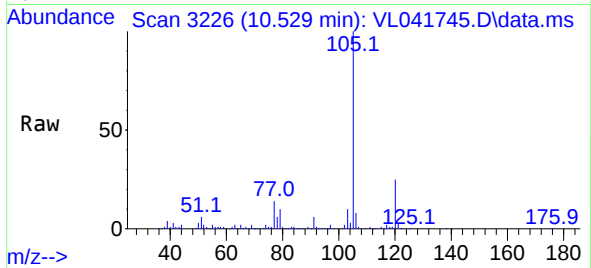
Tgt Ion: 91 Resp: 356228
Ion Ratio Lower Upper
91 100
106 51.2 26.8 80.4





#62
Isopropylbenzene
Concen: 0.425 ppbv
RT: 10.529 min Scan# 31
Delta R.T. -0.026 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

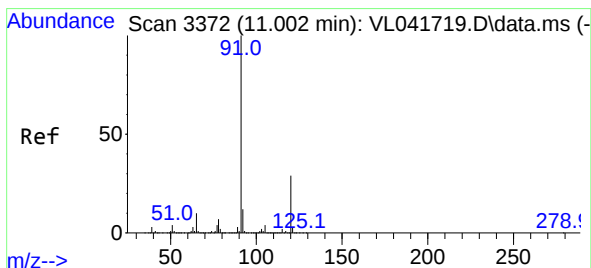
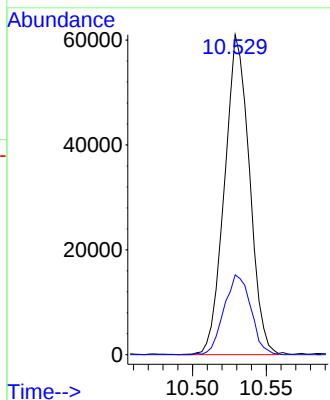
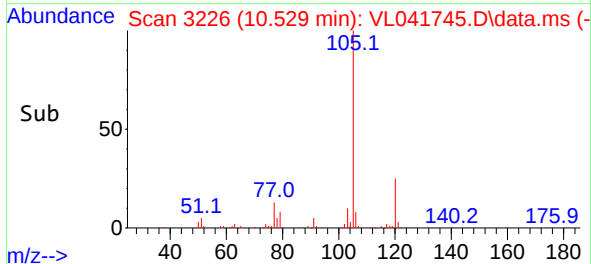
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



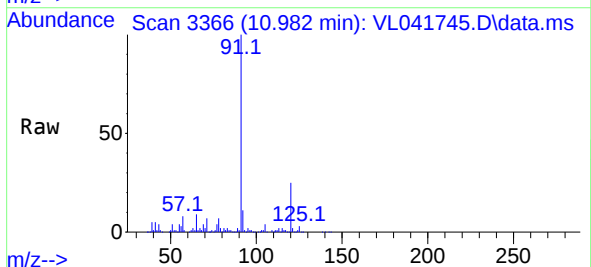
Tgt Ion:105 Resp: 71680
Ion Ratio Lower Upper
105 100
120 26.8 24.3 36.5

Manual Integrations
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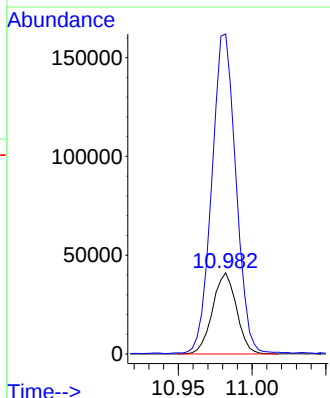
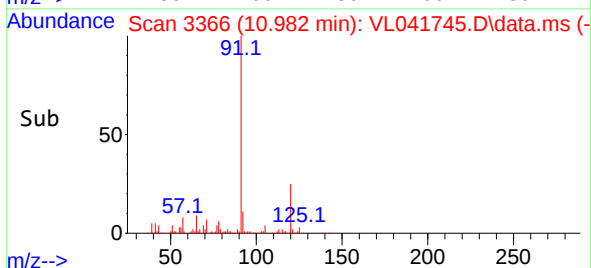
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

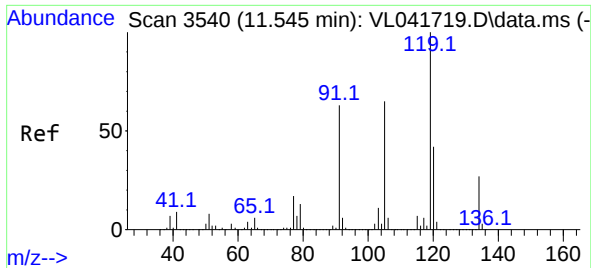


#64
n-propylbenzene
Concen: 0.932 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.020 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36



Tgt Ion:120 Resp: 46300
Ion Ratio Lower Upper
120 100
91 399.9 290.8 436.2





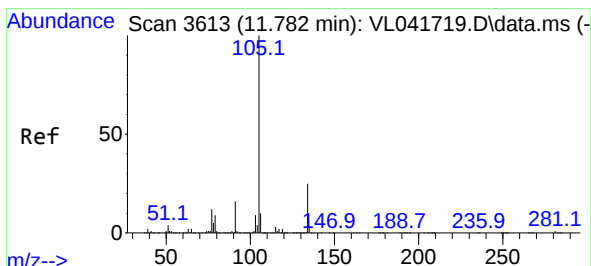
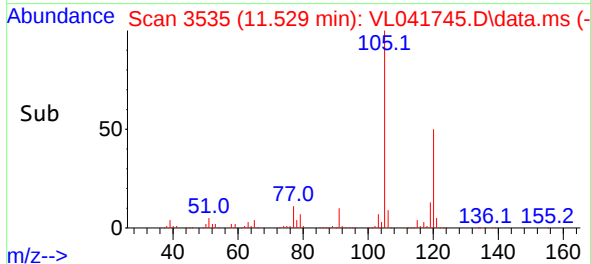
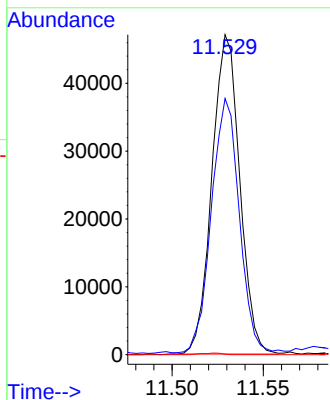
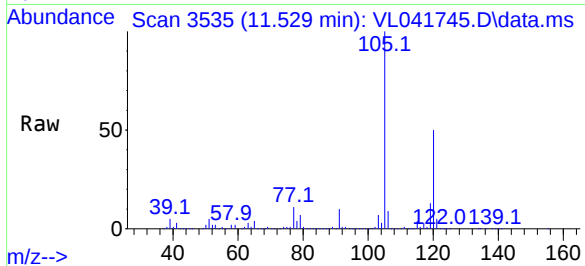
#65
tert-Butylbenzene
Concen: 0.312 ppbv
RT: 11.529 min Scan# 3060
Delta R.T. -0.016 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion:119 Resp: 4985
Ion Ratio Lower Upper
119 100
91 80.1 50.2 75.4
134 0.0 20.4 30.6

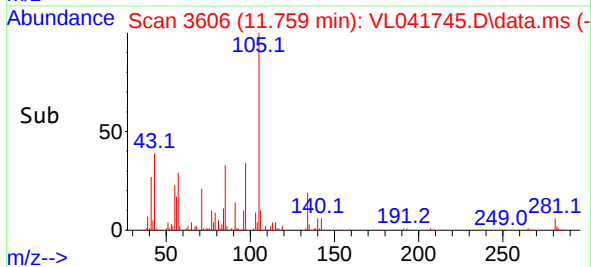
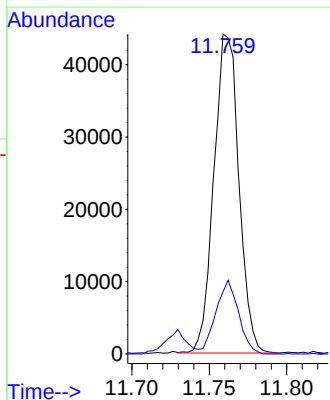
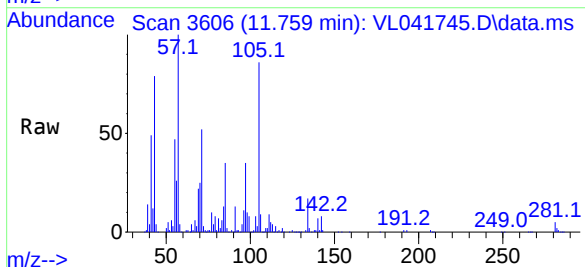
Manual Integrations
APPROVED

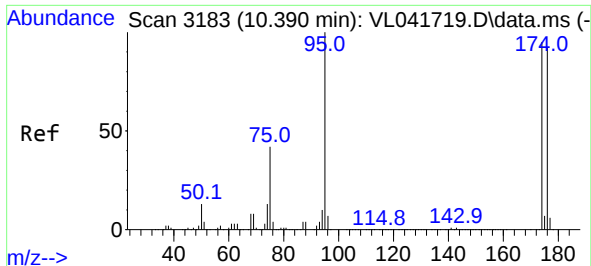
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#67
sec-Butylbenzene
Concen: 0.239 ppbv
RT: 11.759 min Scan# 3606
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

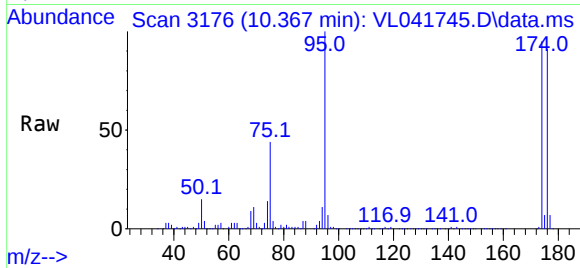
Tgt Ion:105 Resp: 49454
Ion Ratio Lower Upper
105 100
134 27.3 19.3 28.9





#68
1-Bromo-4-Fluorobenzene
Concen: 10.262 ppbv
RT: 10.367 min Scan# 3183
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

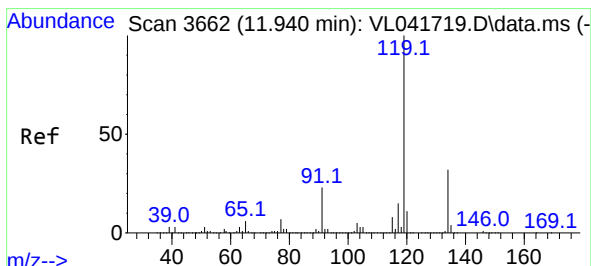
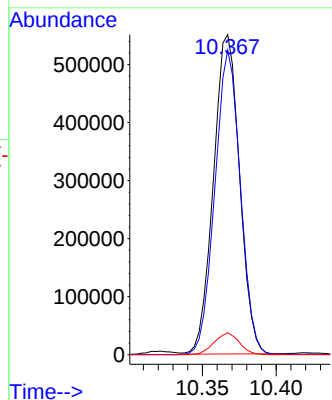
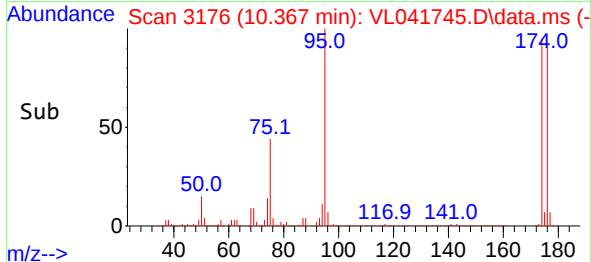
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion: 95 Resp: 67833
Ion Ratio Lower Upper
95 100
174 93.3 76.7 115.1
175 6.6 5.4 8.2

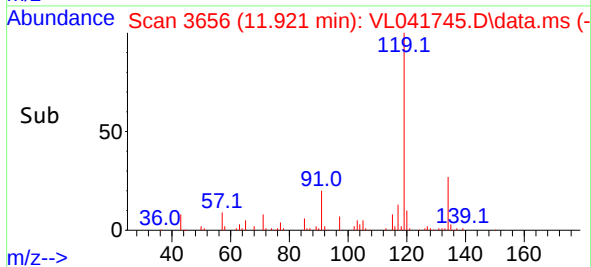
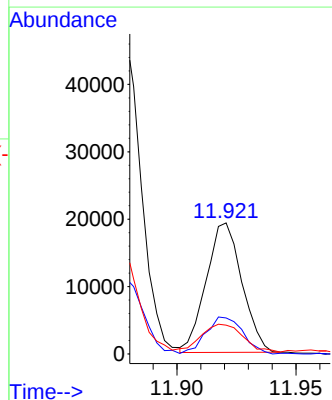
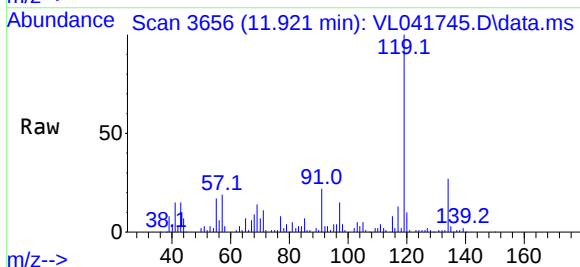
Manual Integrations
APPROVED

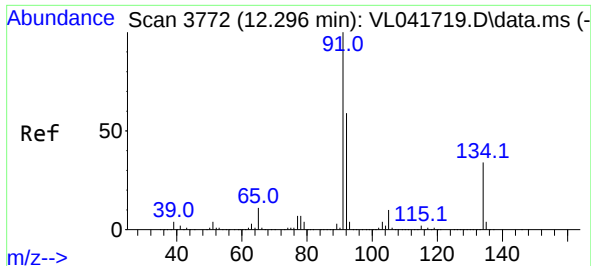
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#69
p-Isopropyltoluene
Concen: 0.112 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.020 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Tgt Ion:119 Resp: 20055
Ion Ratio Lower Upper
119 100
134 29.9 24.6 36.8
91 29.5 17.8 26.8#





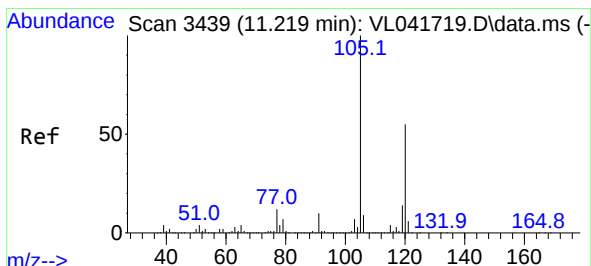
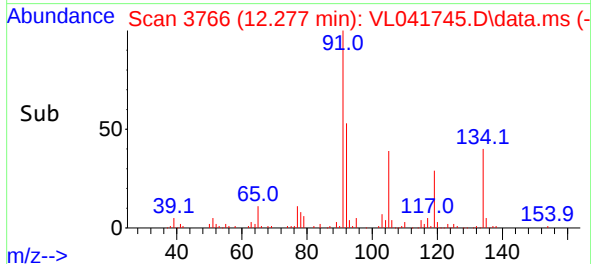
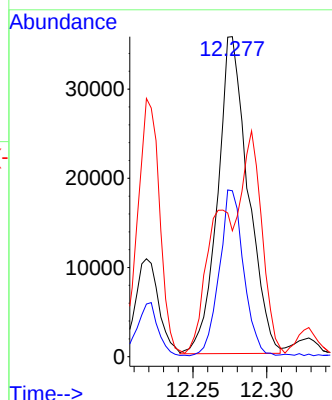
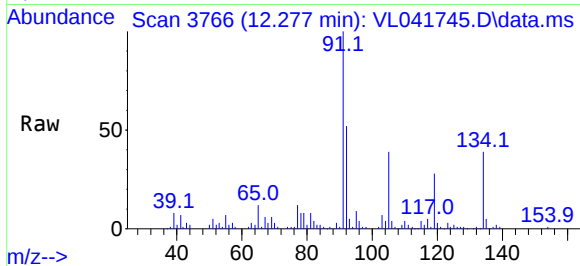
#70
n-Butylbenzene
Concen: 0.345 ppbv
RT: 12.277 min Scan# 31174
Delta R.T. -0.020 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion: 91 Resp: 51174
Ion Ratio Lower Upper
91 100
92 43.5 46.7 70.1
134 99.4 26.2 39.4

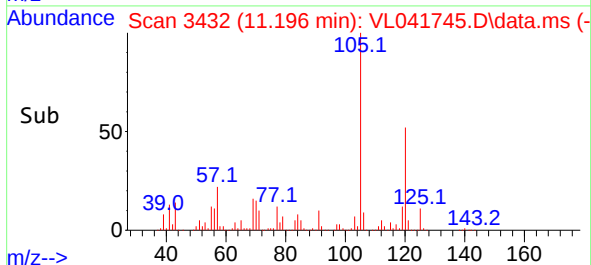
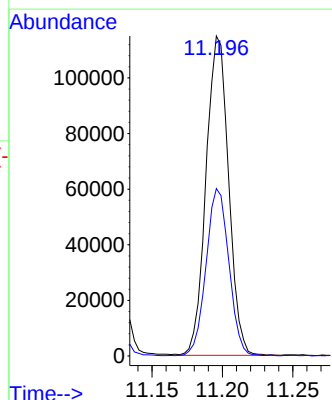
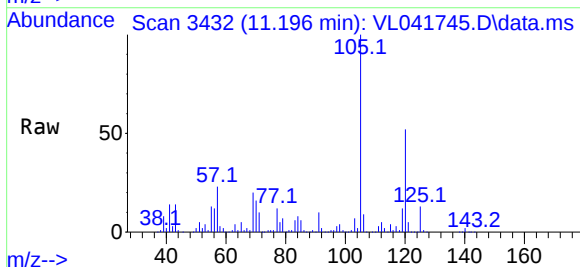
Manual Integrations
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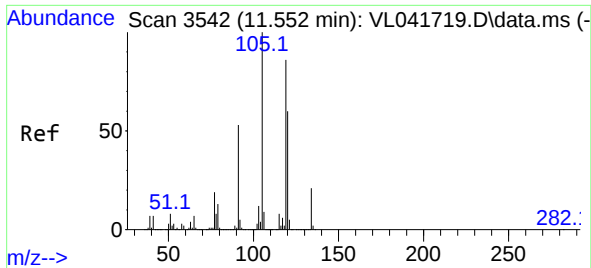
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#73
1,3,5-Trimethylbenzene
Concen: 1.198 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

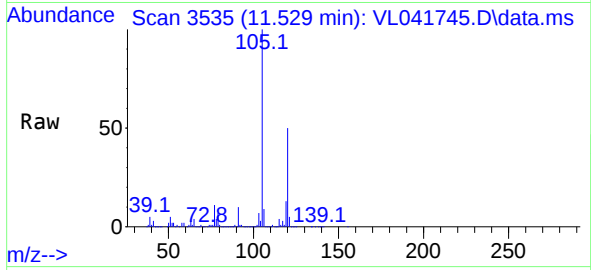
Tgt Ion:105 Resp: 127911
Ion Ratio Lower Upper
105 100
120 52.3 43.6 65.4





#74
1,2,4-Trimethylbenzene
Concen: 3.485 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion:	105	Resp:	404600
Ion	Ratio	Lower	Upper
105	100		
120	50.3	47.8	71.6
91	9.9	42.5	63.7
77	11.3	15.4	23.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

