

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022222\
 Data File : VL038386.D
 Acq On : 22 Feb 2022 13:01
 Operator : SY/AP
 Sample : N1585-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-FAM4GL-3DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/24/2022
 Supervised By : Mahesh Dadoda 02/25/2022

Quant Time: Feb 23 07:03:16 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022

QLast Update : Tue Feb 22 19:45:51 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.655	49	961245	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.160	114	2350357	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.066	117	2139008	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.397	95	1749938	9.888	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.050	85	48925	0.321	ppbv #	83
4) Chloromethane	3.141	50	8280	0.140	ppbv #	82
5) Vinyl Chloride	3.256	62	75172	1.219	ppbv #	85
7) Chloroethane	3.549	64	13587	0.686	ppbv #	86
9) Propene	3.012	41	840404	14.996	ppbv	86
10) Heptane	8.108	43	115856	0.849	ppbv	97
11) Trichlorofluoromethane	3.944	101	5814899	39.892	ppbv	100
15) Acetone	3.848	43	266238m	3.257	ppbv	
20) Methylene Chloride	4.337	84	33705	0.832	ppbv	87
26) Hexane	5.674	57	191628	1.927	ppbv #	42
27) Carbon Disulfide	4.542	76	279516	2.527	ppbv	97
28) Methyl tert-Butyl Ether	5.028	73	19256m	0.190	ppbv	
29) Chloroform	5.738	83	21796m	0.134	ppbv	
30) Cyclohexane	7.115	84	110893	1.363	ppbv #	75
31) cis-1,2-Dichloroethene	5.536	61	200090	2.077	ppbv	96
32) 1,1,1-Trichloroethane	6.500	97	80817	0.495	ppbv	98
34) 2-Butanone	5.247	43	66775m	0.903	ppbv	
36) Benzene	6.877	78	497185	2.403	ppbv	98
38) Trichloroethene	7.819	130	58738m	0.779	ppbv	
52) Tetrachloroethene	11.201	164	102845	1.497	ppbv	93
53) Toluene	9.787	91	246894	1.099	ppbv	99
57) Chlorobenzene	12.127	112	131451	0.797	ppbv	97
58) Ethyl Benzene	12.687	91	66556m	0.228	ppbv	
59) m/p-Xylene	12.944	91	94946m	0.378	ppbv	
60) o-Xylene	13.671	91	65714	0.277	ppbv	99
74) 1,2,4-Trimethylbenzene	16.741	105	23990	0.096	ppbv #	66

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

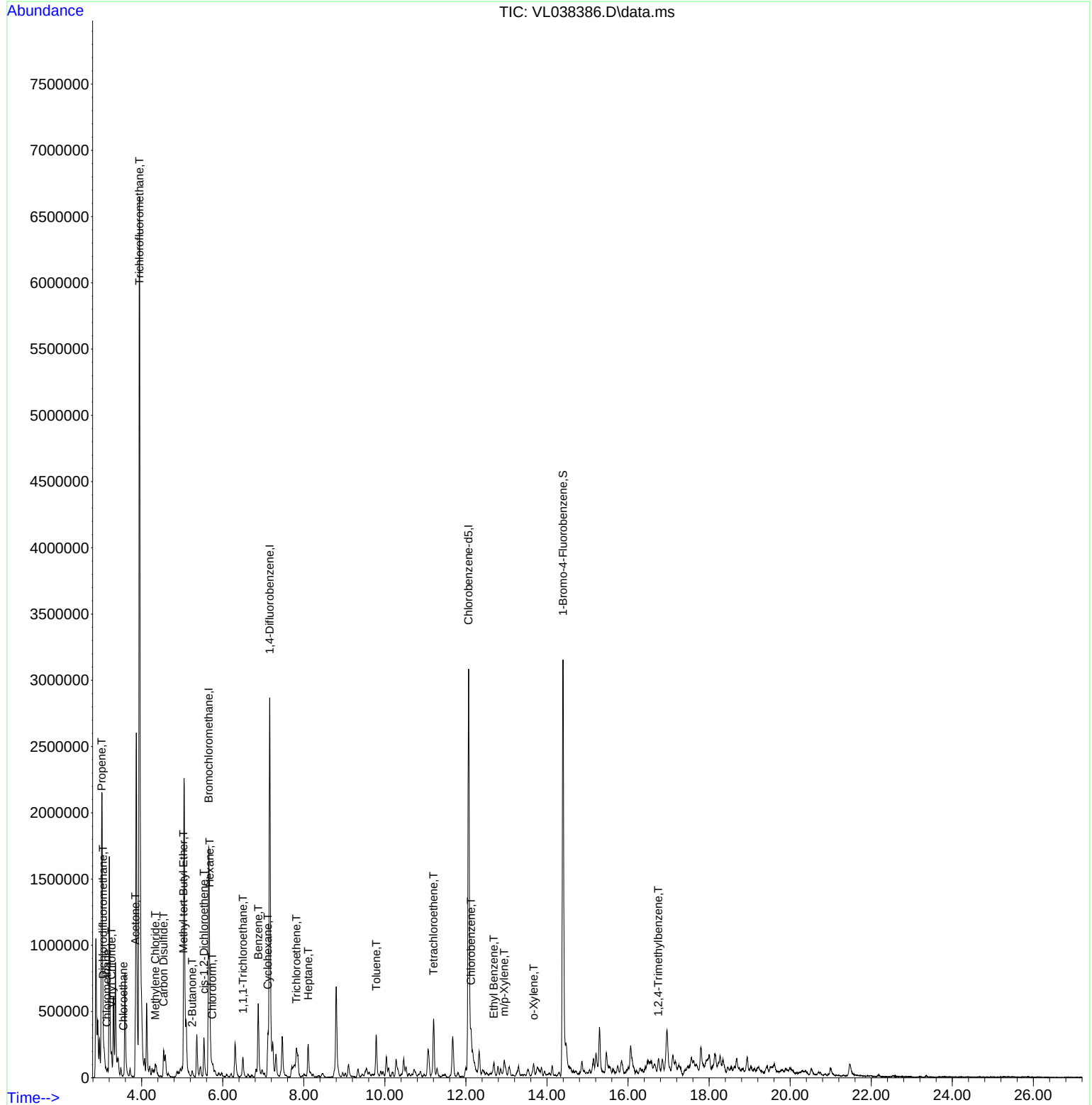
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022222\  
Data File : VL038386.D  
Acq On    : 22 Feb 2022  13:01  
Operator  : SY/AP  
Sample    : N1585-01DL 10X  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 1    Sample Multiplier: 1
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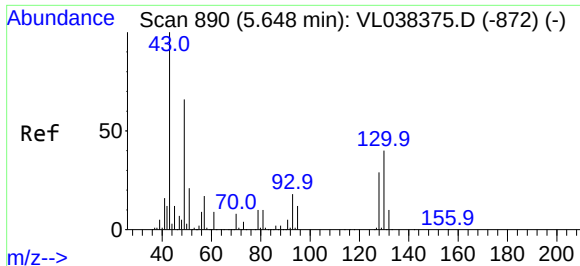
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL

Manual Integrations

Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022

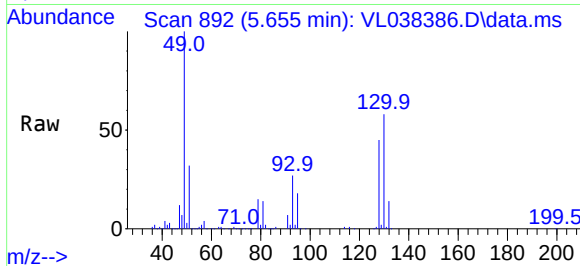
Quant Time: Feb 23 07:03:16 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Feb
Qlast Update : Tue Feb 22 19:45:51 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.655 min Scan# 89
Delta R.T. 0.007 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

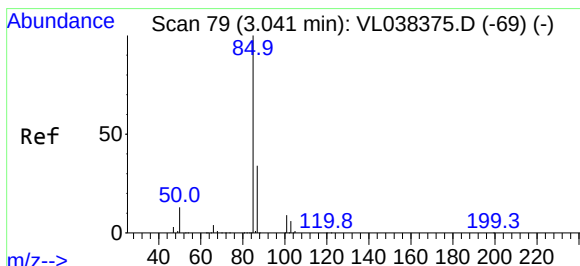
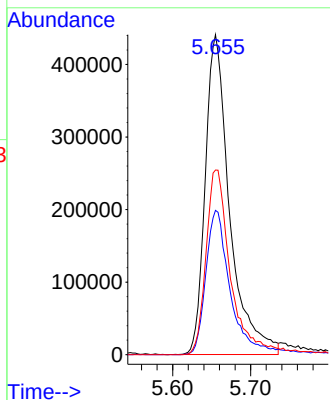
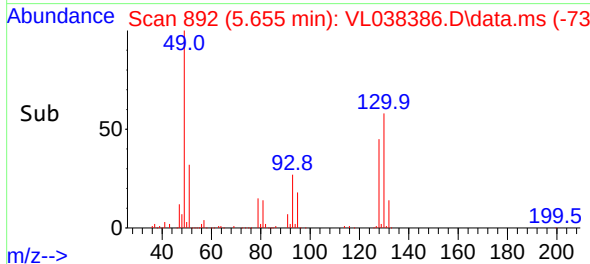
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL



Tgt Ion: 49 Resp: 96124
Ion Ratio Lower Upper
49 100
128 46.6 24.3 72.9
130 60.4 30.1 90.5

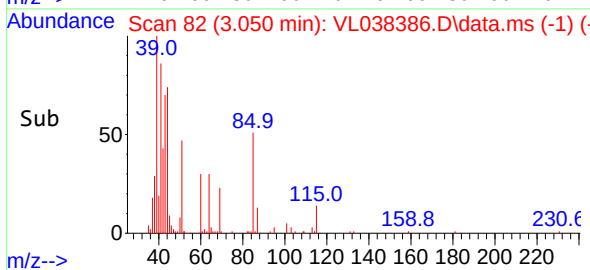
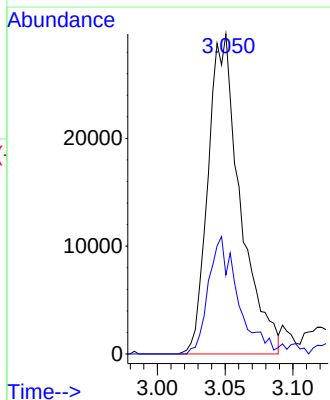
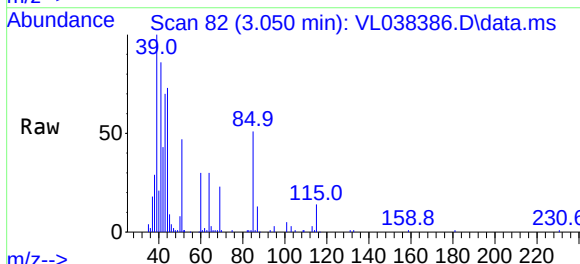
Manual Integrations
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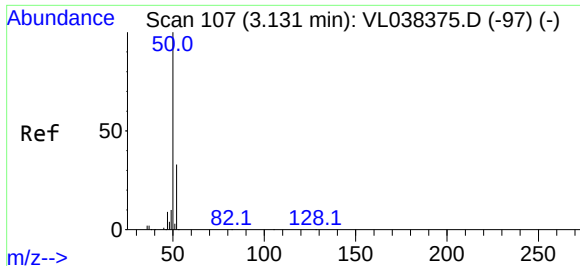
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#2
Dichlorodifluoromethane
Concen: 0.321 ppbv
RT: 3.050 min Scan# 82
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

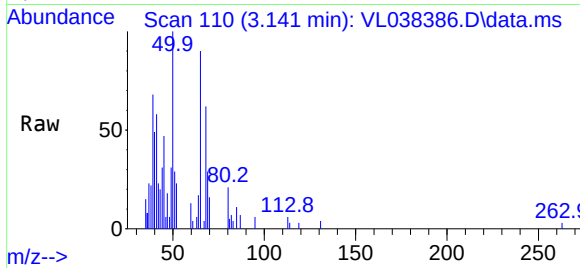
Tgt Ion: 85 Resp: 48925
Ion Ratio Lower Upper
85 100
87 24.7 27.4 41.0#





#4
Chloromethane
Concen: 0.140 ppbv
RT: 3.141 min Scan# 110
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

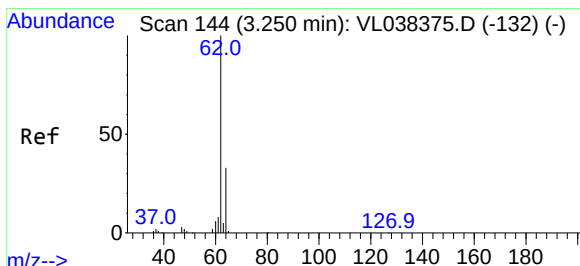
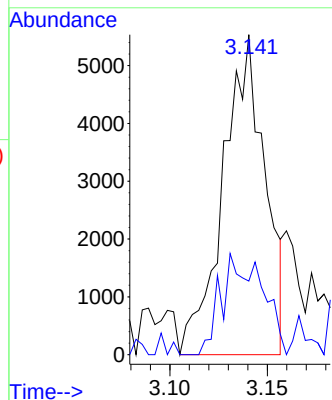
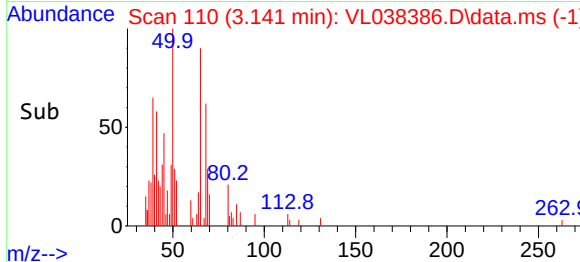
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL



Tgt Ion: 50 Resp: 8280
Ion Ratio Lower Upper
50 100
52 23.0 26.5 39.7

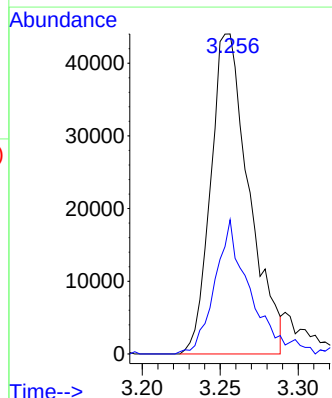
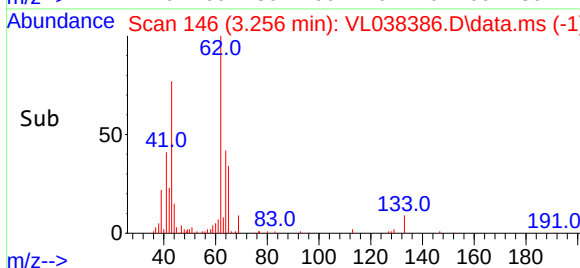
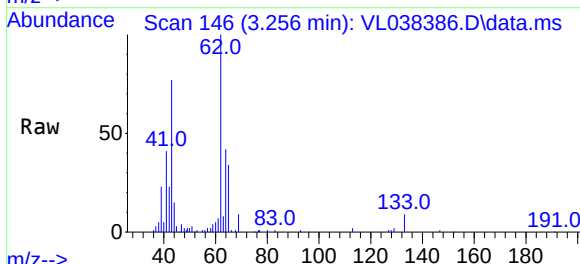
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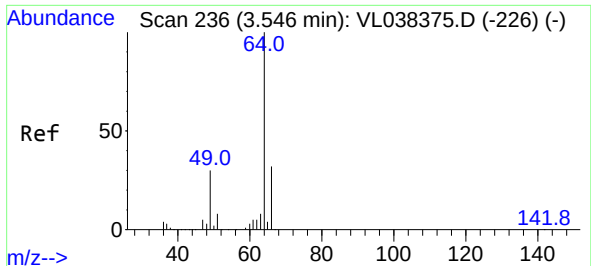
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#5
Vinyl Chloride
Concen: 1.219 ppbv
RT: 3.256 min Scan# 146
Delta R.T. 0.007 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

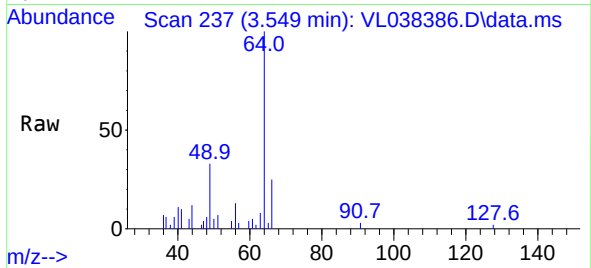
Tgt Ion: 62 Resp: 75172
Ion Ratio Lower Upper
62 100
64 41.2 26.2 39.2





#7
Chloroethane
Concen: 0.686 ppbv
RT: 3.549 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

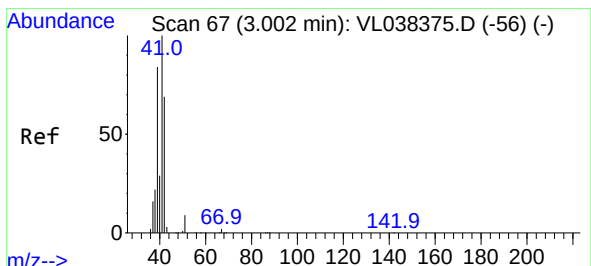
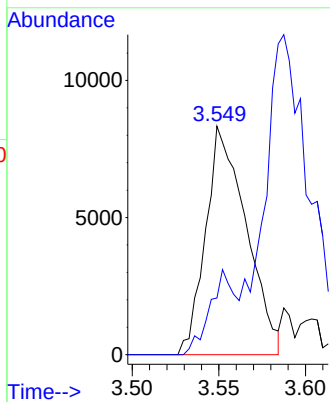
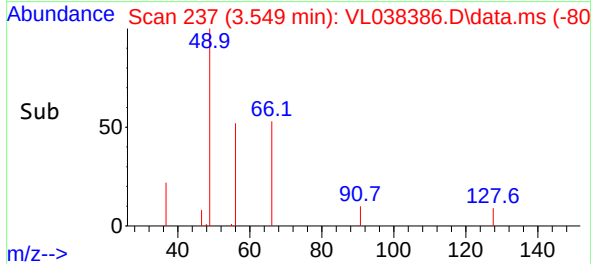
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL



Tgt Ion: 64 Resp: 1358
Ion Ratio Lower Upper
64 100
66 24.8 25.9 38.9

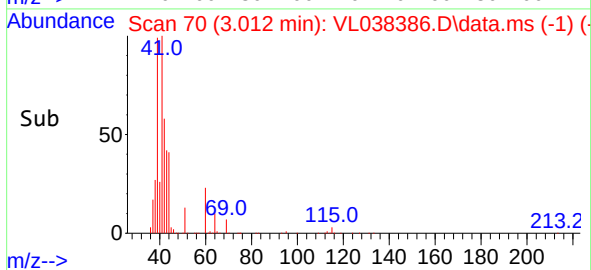
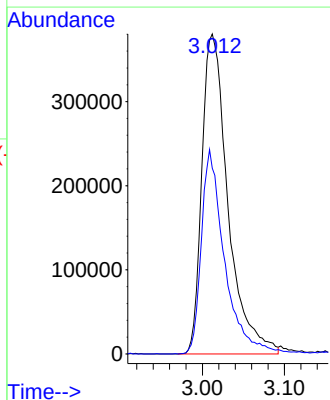
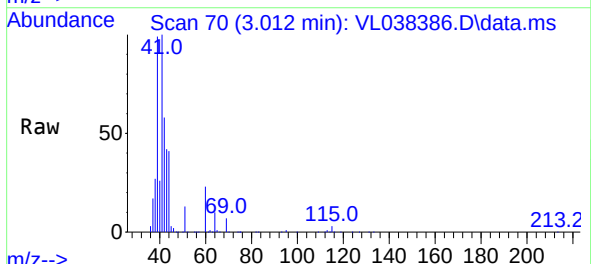
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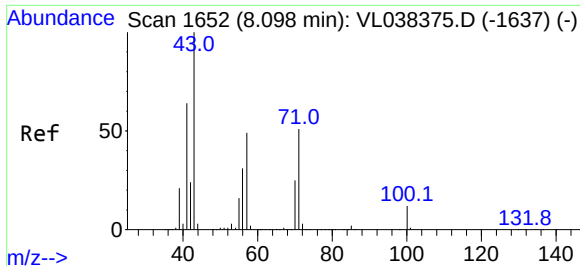
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#9
Propene
Concen: 14.996 ppbv
RT: 3.012 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

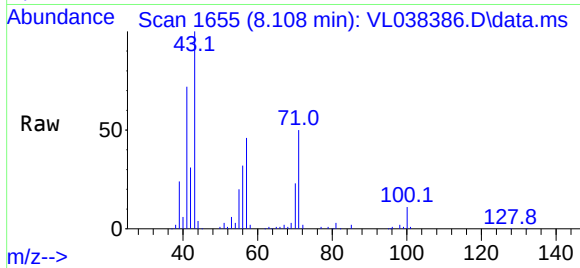
Tgt Ion: 41 Resp: 840404
Ion Ratio Lower Upper
41 100
42 57.2 54.6 82.0





#10
Heptane
Concen: 0.849 ppbv
RT: 8.108 min Scan# 115850
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

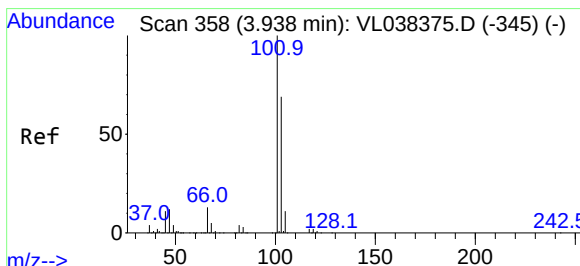
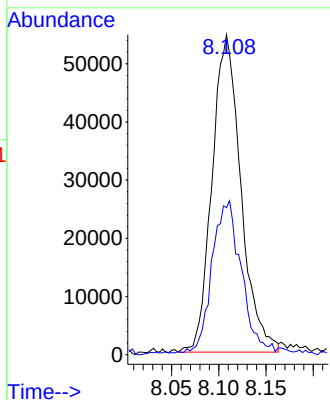
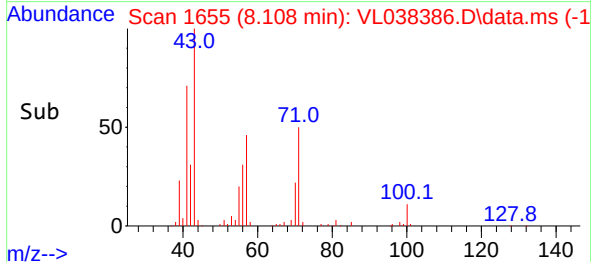
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL



Tgt Ion: 43 Resp: 115850
Ion Ratio Lower Upper
43 100
57 51.9 39.8 59.8

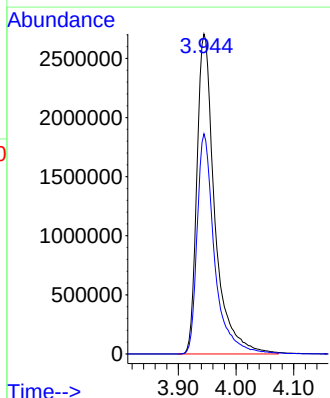
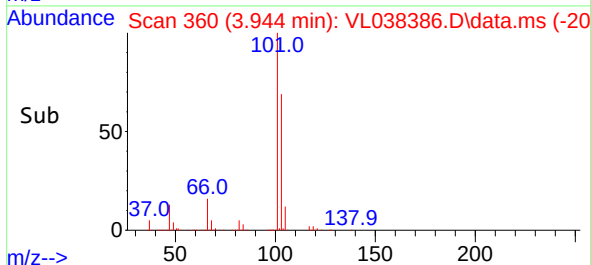
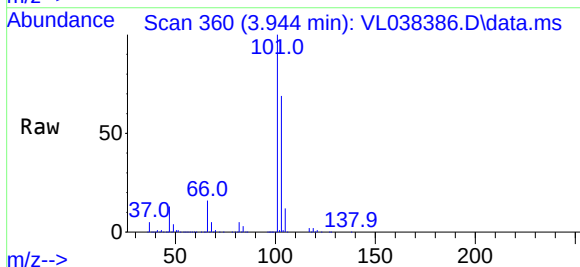
Manual Integrations
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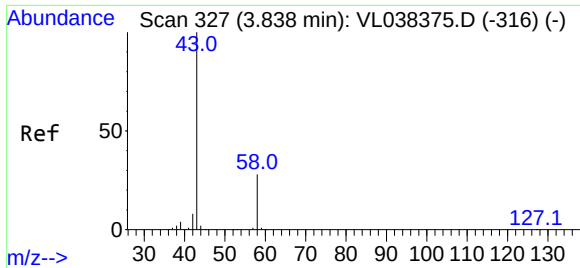
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#11
Trichlorofluoromethane
Concen: 39.892 ppbv
RT: 3.944 min Scan# 360
Delta R.T. 0.007 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

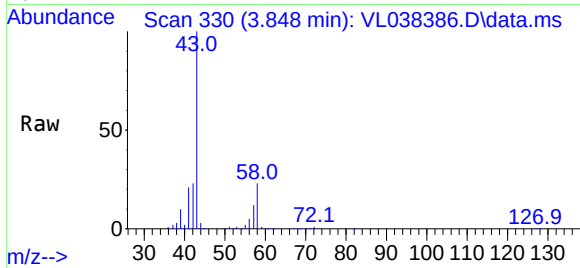
Tgt Ion:101 Resp: 5814899
Ion Ratio Lower Upper
101 100
103 68.8 55.0 82.4





#15
Acetone
Concen: 3.257 ppbv m
RT: 3.848 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

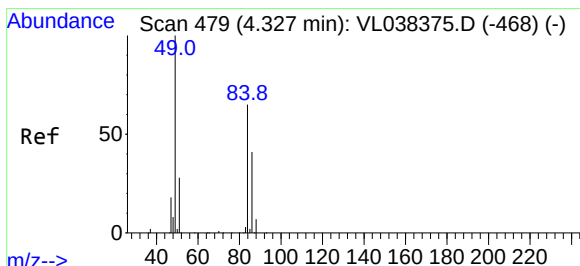
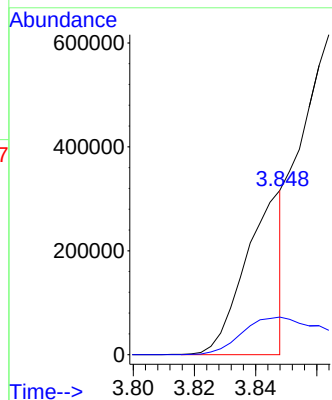
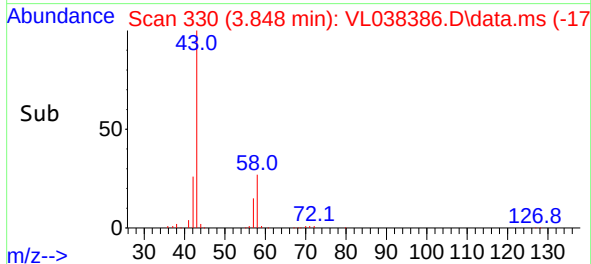
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL



Tgt Ion: 43 Resp: 266238
Ion Ratio Lower Upper
43 100
58 75.5 21.7 32.5

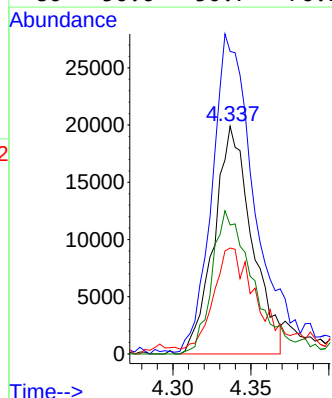
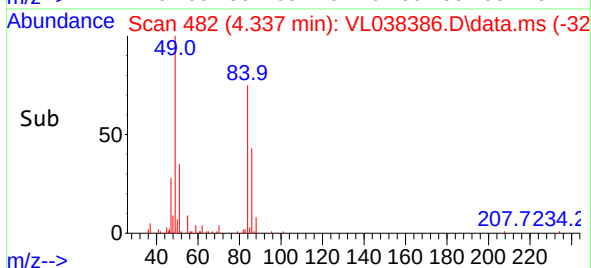
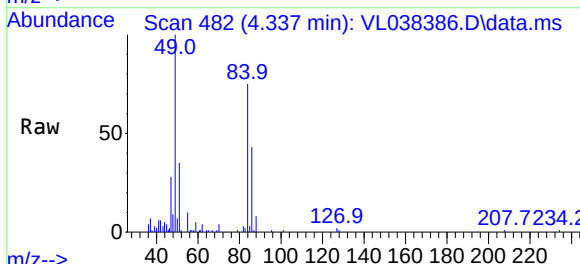
Manual Integrations
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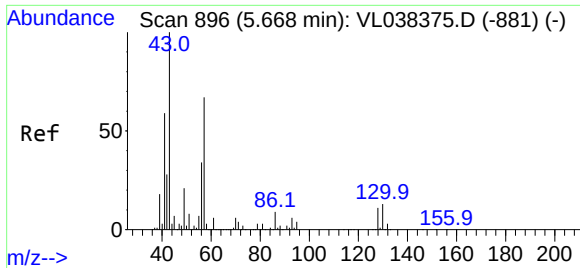
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#20
Methylene Chloride
Concen: 0.832 ppbv
RT: 4.337 min Scan# 482
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

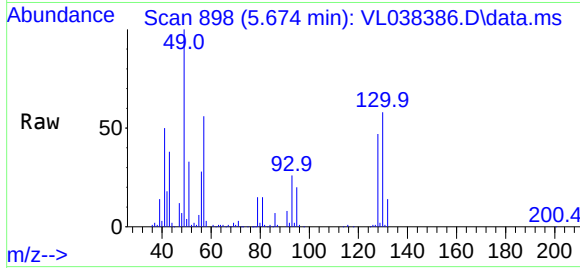
Tgt Ion: 84 Resp: 33705
Ion Ratio Lower Upper
84 100
49 131.8 122.4 183.6
51 45.8 33.3 49.9
86 56.6 50.7 76.1





#26
Hexane
Concen: 1.927 ppbv
RT: 5.674 min Scan# 896
Delta R.T. 0.007 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

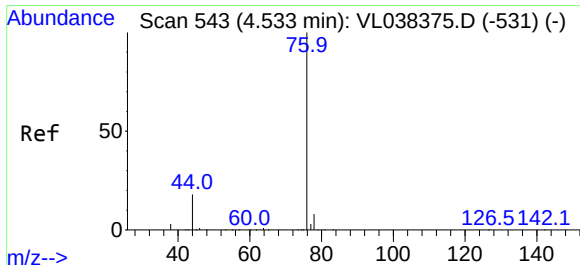
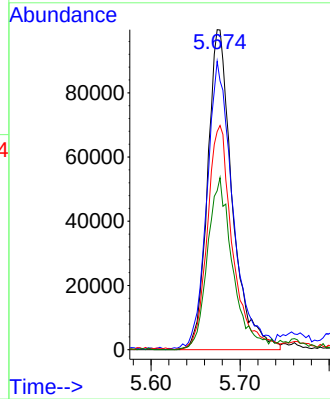
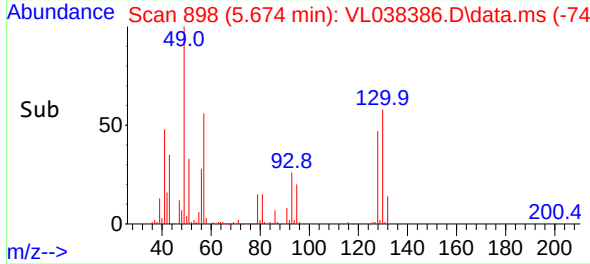
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL



Tgt Ion: 57 Resp: 191628
Ion Ratio Lower Upper
57 100
41 97.6 73.1 109.7
43 75.8 181.0 271.4
56 54.9 43.4 65.0

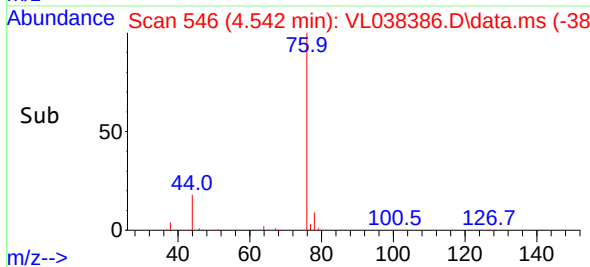
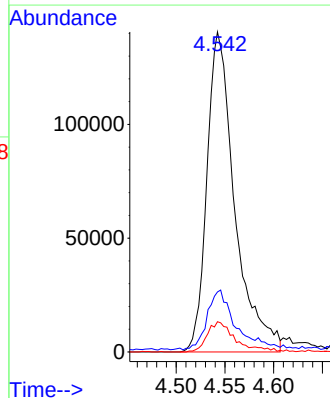
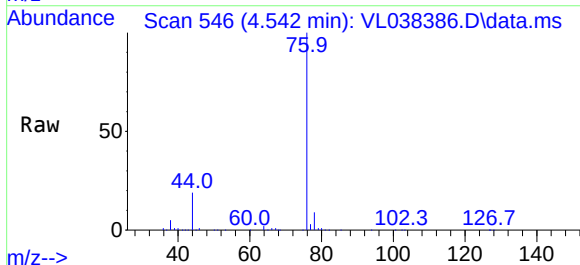
Manual Integrations
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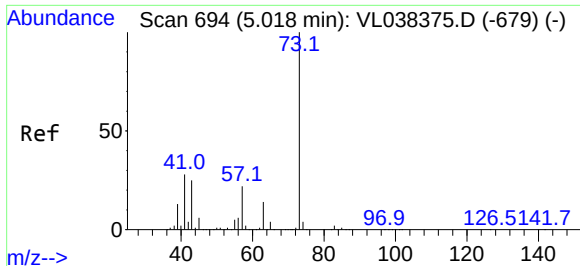
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#27
Carbon Disulfide
Concen: 2.527 ppbv
RT: 4.542 min Scan# 546
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

Tgt Ion: 76 Resp: 279516
Ion Ratio Lower Upper
76 100
44 19.9 14.2 21.2
78 9.7 7.8 11.6





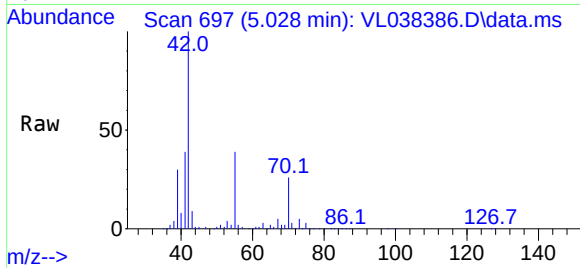
#28
Methyl tert-Butyl Ether
Concen: 0.190 ppbv m
RT: 5.028 min Scan# 694
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

Instrument :

MSVOA_L

ClientSampleId :

SG-FAM4GL-3DL

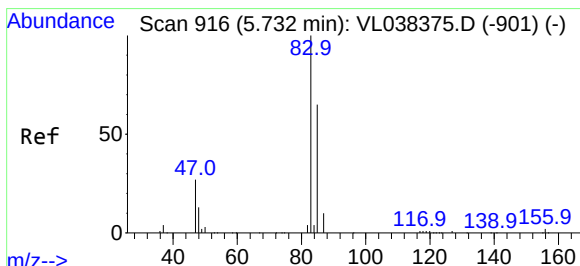
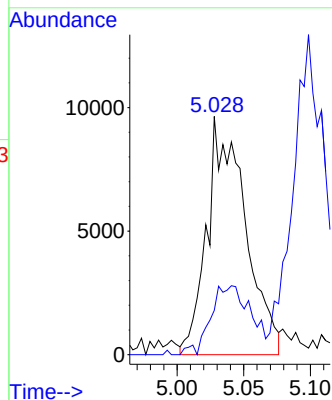
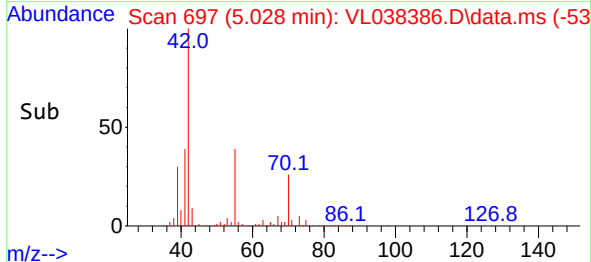


Tgt Ion: 73 Resp: 19250
Ion Ratio Lower Upper
73 100
57 0.0 18.2 27.4

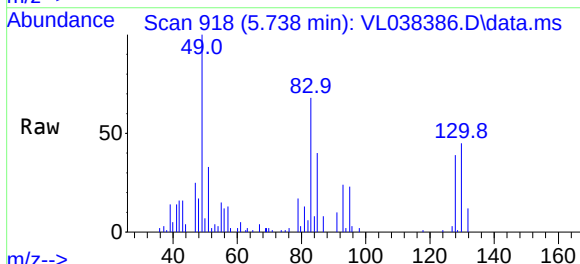
Manual Integrations

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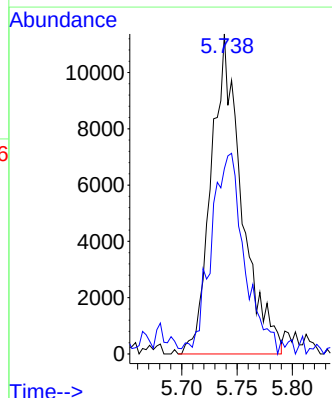
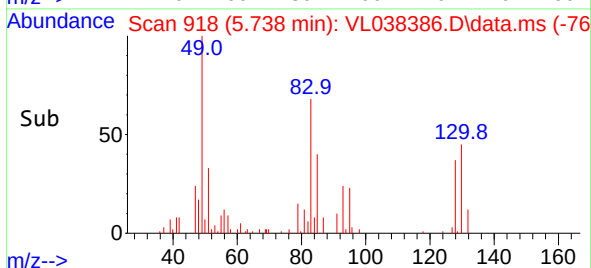
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022

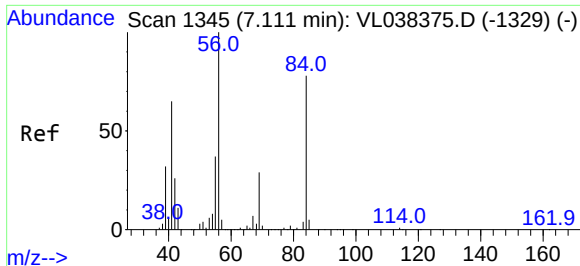


#29
Chloroform
Concen: 0.134 ppbv m
RT: 5.738 min Scan# 918
Delta R.T. 0.007 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01



Tgt Ion: 83 Resp: 21796
Ion Ratio Lower Upper
83 100
85 57.9 51.6 77.4





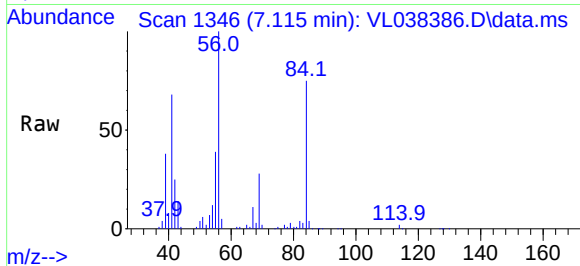
#30
Cyclohexane
Concen: 1.363 ppbv
RT: 7.115 min Scan# 11089
Delta R.T. 0.003 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

Instrument :

MSVOA_L

ClientSampleId :

SG-FAM4GL-3DL

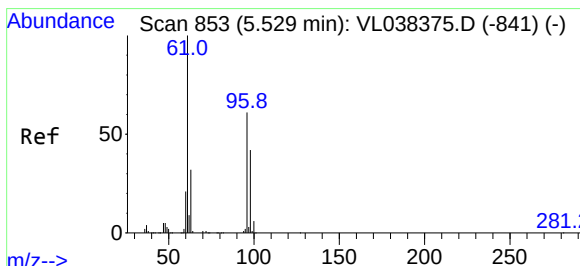
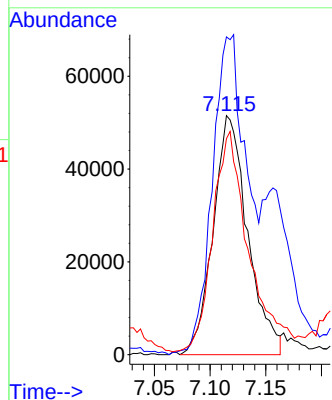
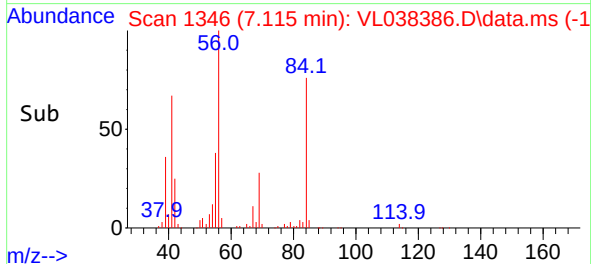


Tgt Ion: 84 Resp: 11089
Ion Ratio Lower Upper
84 100
56 193.2 116.2 174.4
41 95.5 74.3 111.5

Manual Integrations

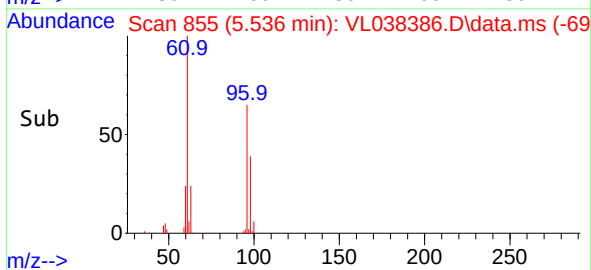
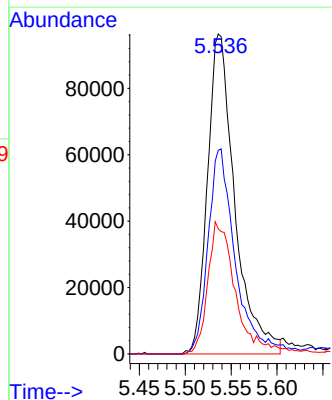
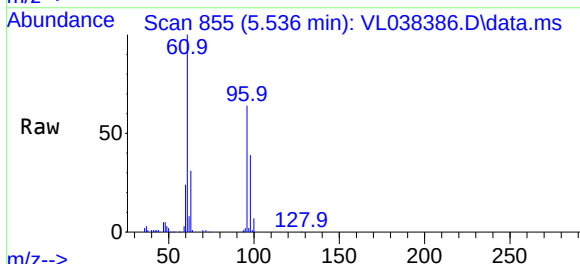
APPROVED

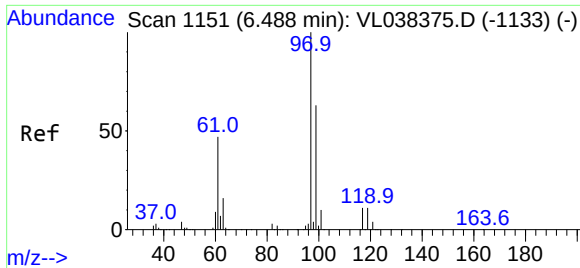
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#31
cis-1,2-Dichloroethene
Concen: 2.077 ppbv
RT: 5.536 min Scan# 855
Delta R.T. 0.007 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

Tgt Ion: 61 Resp: 200090
Ion Ratio Lower Upper
61 100
96 63.6 48.6 73.0
98 39.1 33.2 49.8





#32
1,1,1-Trichloroethane
Concen: 0.495 ppbv
RT: 6.500 min Scan# 1151
Delta R.T. 0.013 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

Instrument :

MSVOA_L

ClientSampleId :

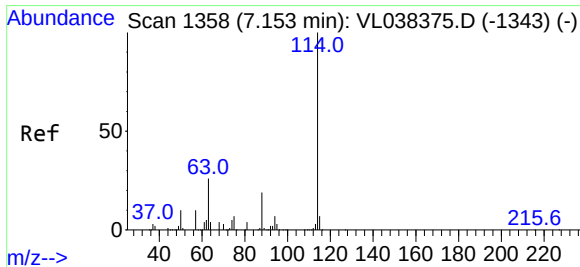
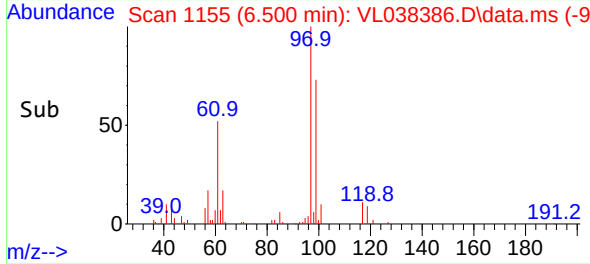
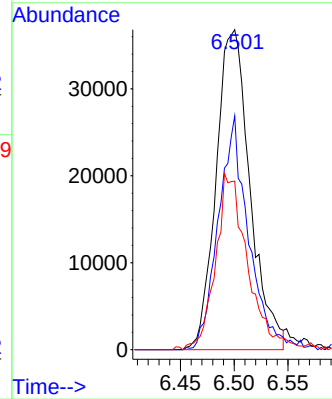
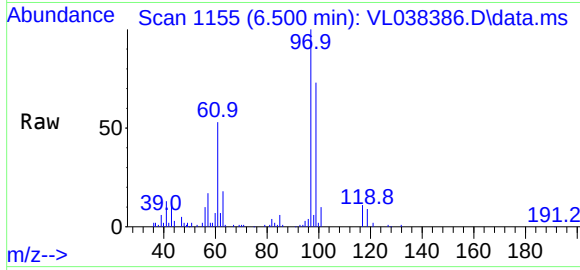
SG-FAM4GL-3DL

Tgt Ion: 97 Resp: 8081
Ion Ratio Lower Upper
97 100
99 65.9 51.9 77.9
61 52.6 40.5 60.7

Manual Integrations

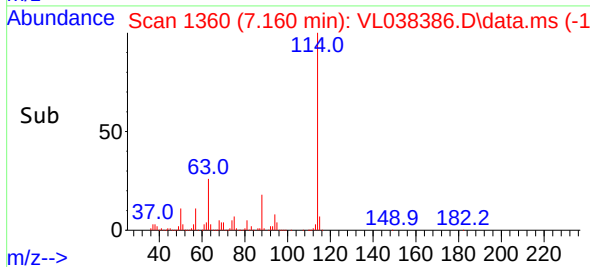
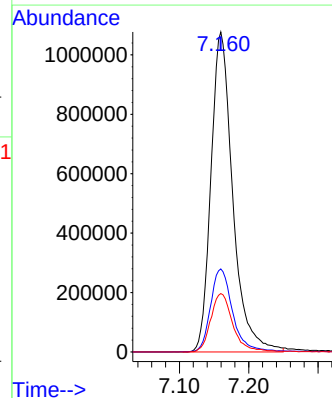
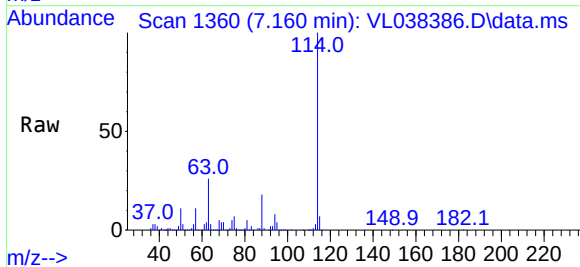
APPROVED

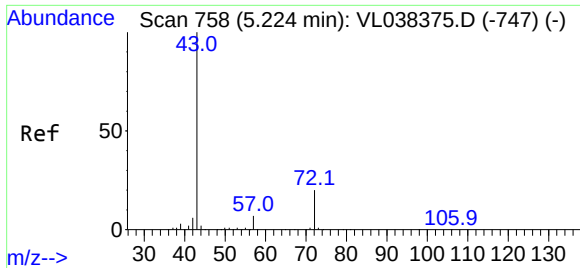
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.160 min Scan# 1360
Delta R.T. 0.007 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

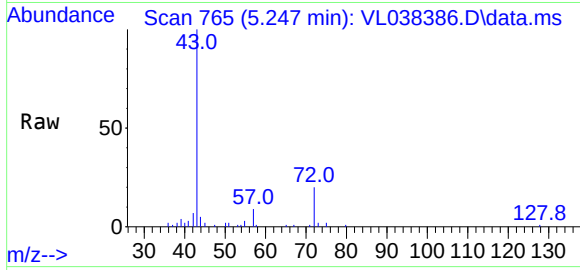
Tgt Ion:114 Resp: 2350357
Ion Ratio Lower Upper
114 100
63 26.8 22.2 33.2
88 18.8 15.2 22.8





#34
2-Butanone
Concen: 0.903 ppbv m
RT: 5.247 min Scan# 70
Delta R.T. 0.023 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

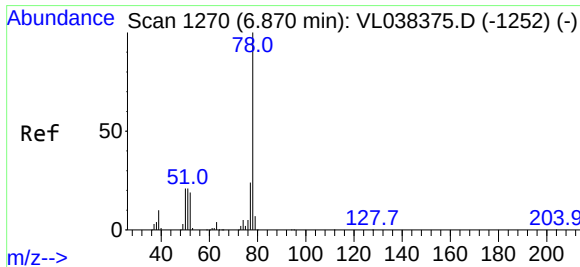
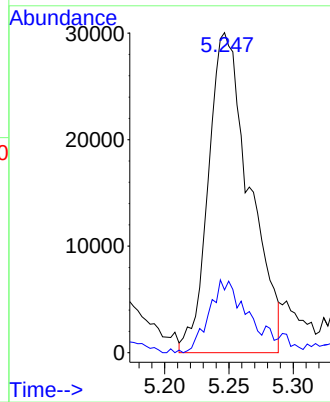
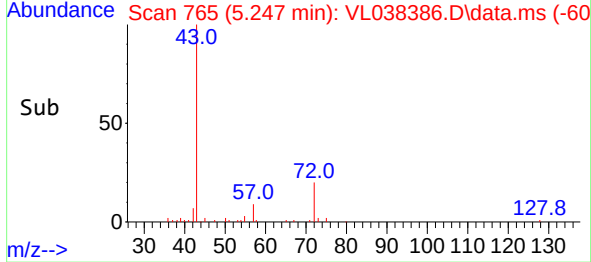
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL



Tgt Ion: 43 Resp: 66775
Ion Ratio Lower Upper
43 100
72 23.6 17.4 26.2

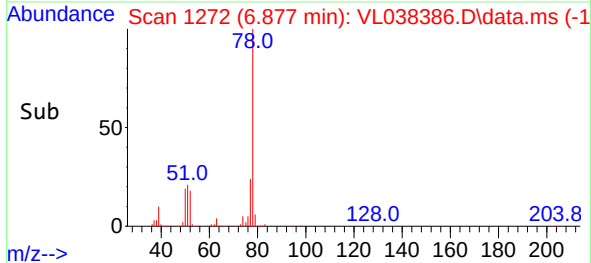
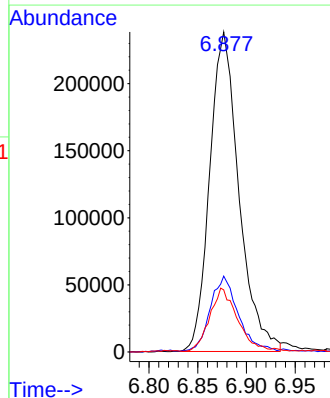
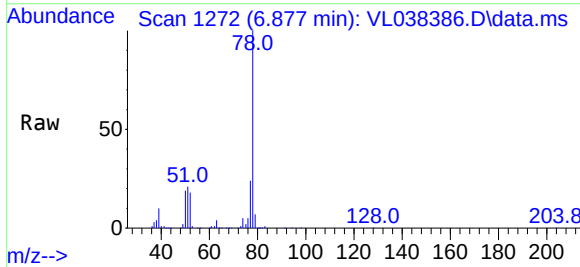
Manual Integrations
APPROVED

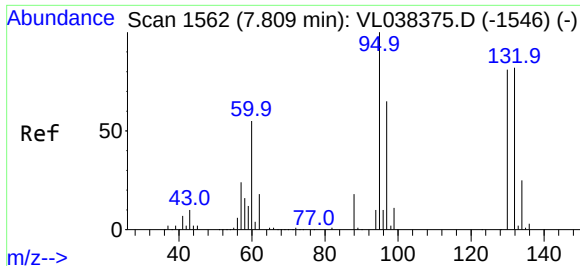
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#36
Benzene
Concen: 2.403 ppbv
RT: 6.877 min Scan# 1272
Delta R.T. 0.007 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

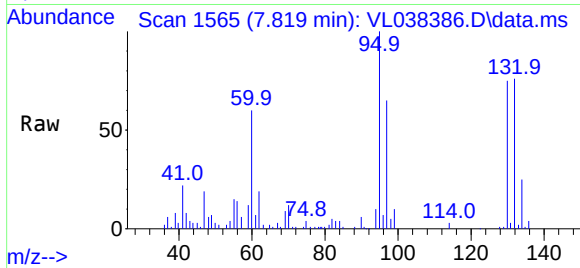
Tgt Ion: 78 Resp: 497185
Ion Ratio Lower Upper
78 100
77 23.5 19.0 28.6
50 18.7 16.6 24.8





#38
Trichloroethene
Concen: 0.779 ppbv m
RT: 7.819 min Scan# 1562
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

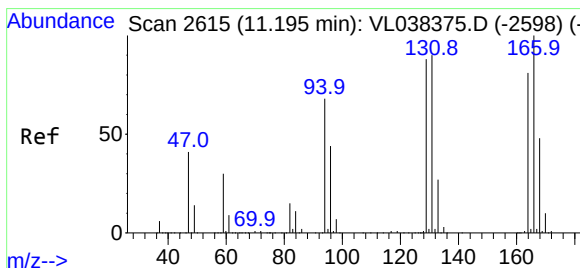
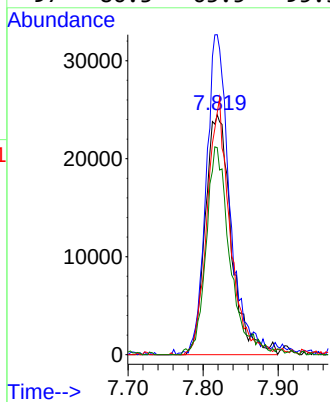
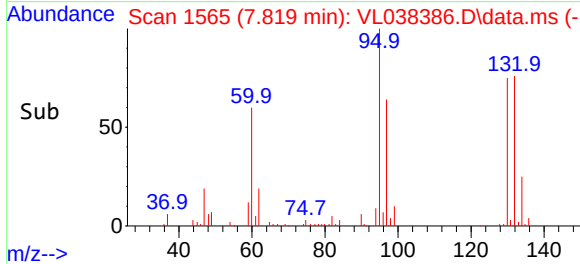
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL



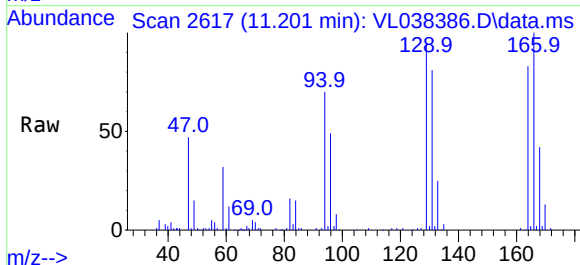
Tgt Ion:130 Resp: 58738
Ion Ratio Lower Upper
130 100
95 133.4 98.1 147.1
132 100.9 80.3 120.5
97 86.3 63.5 95.3

Manual Integrations
APPROVED

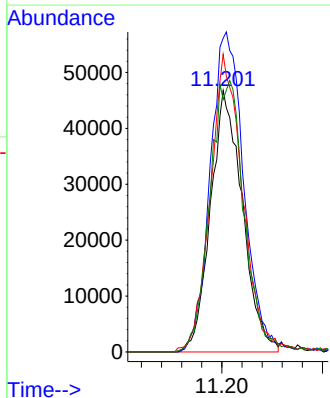
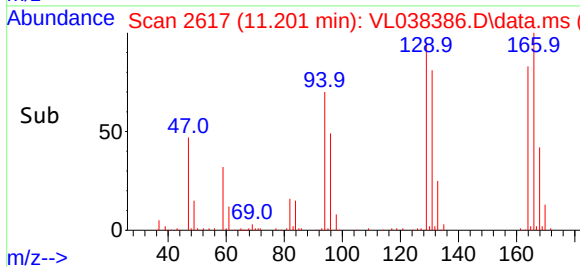
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022

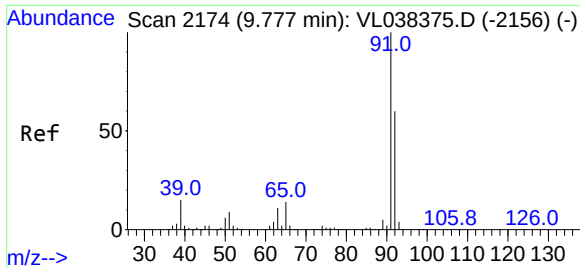


#52
Tetrachloroethene
Concen: 1.497 ppbv
RT: 11.201 min Scan# 2617
Delta R.T. 0.007 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01



Tgt Ion:164 Resp: 102845
Ion Ratio Lower Upper
164 100
166 120.0 98.6 148.0
129 112.3 86.9 130.3
131 96.1 88.6 133.0





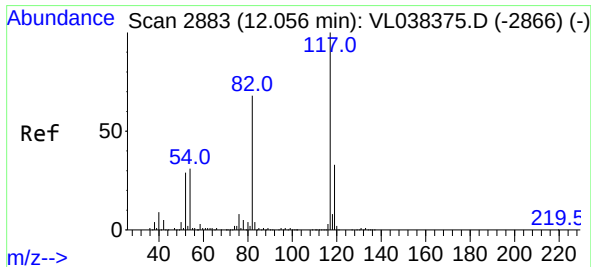
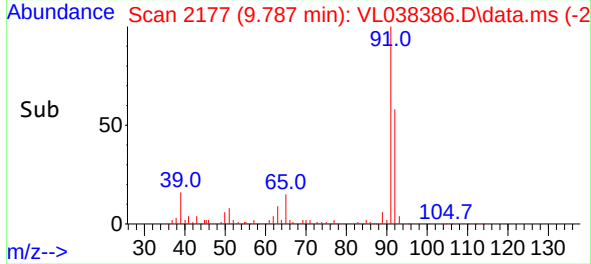
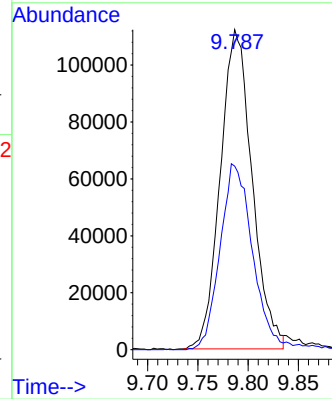
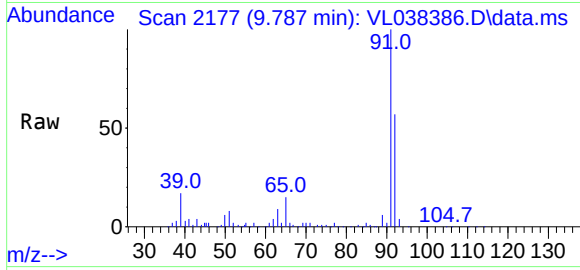
#53
Toluene
Concen: 1.099 ppbv
RT: 9.787 min Scan# 2174
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL

Tgt Ion: 91 Resp: 246894
Ion Ratio Lower Upper
91 100
92 60.7 48.2 72.4

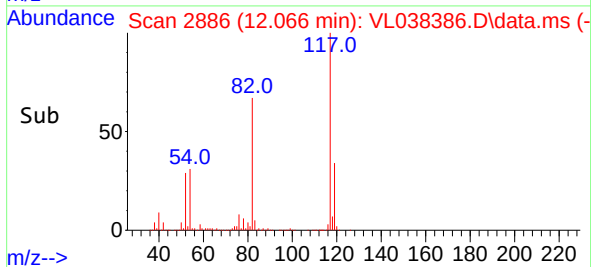
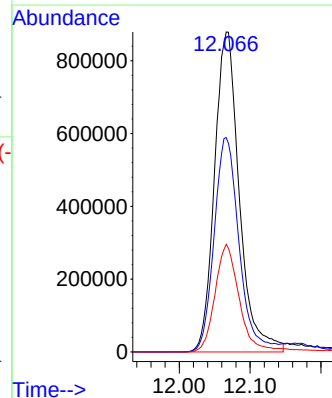
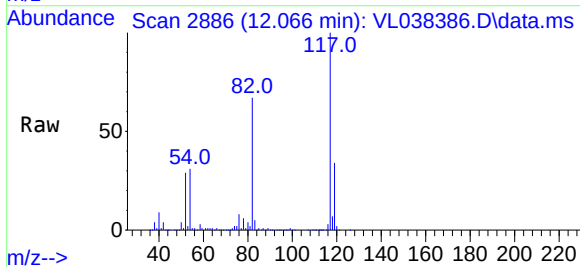
Manual Integrations
APPROVED

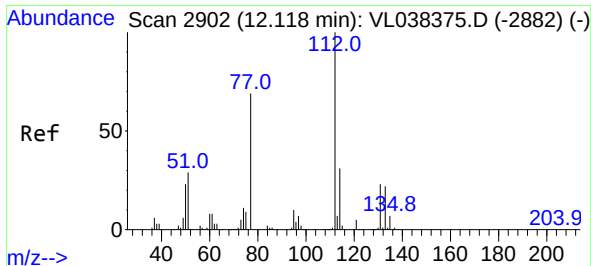
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.066 min Scan# 2886
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

Tgt Ion:117 Resp: 2139008
Ion Ratio Lower Upper
117 100
82 67.9 54.9 82.3
119 33.5 46.1 69.1





#57

Chlorobenzene

Concen: 0.797 ppbv

RT: 12.127 min Scan# 2905

Delta R.T. 0.010 min

Lab File: VL038386.D

Acq: 22 Feb 2022 13:01

Instrument :

MSVOA_L

ClientSampleId :

SG-FAM4GL-3DL

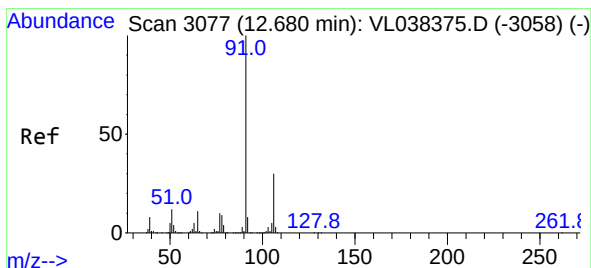
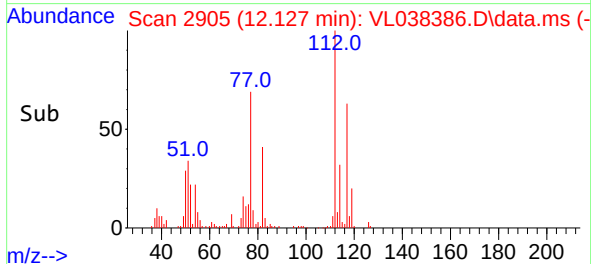
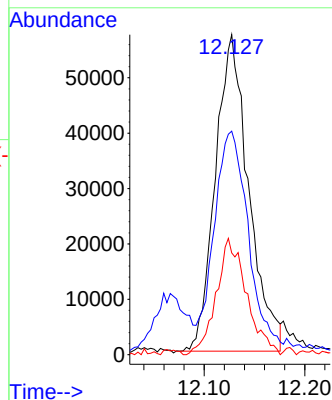
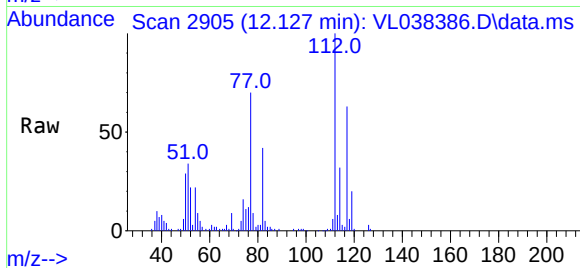
Tgt Ion: 112 Resp: 13145

Ion	Ratio	Lower	Upper
112	100		
77	66.6	55.2	82.8
114	32.1	27.9	34.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#58

Ethyl Benzene

Concen: 0.228 ppbv m

RT: 12.687 min Scan# 3079

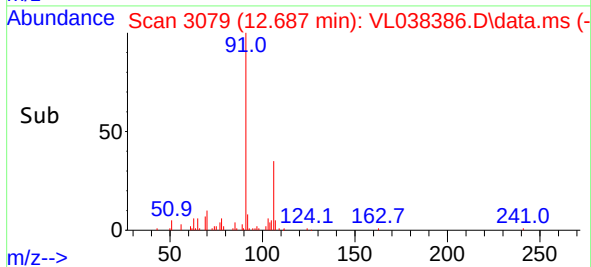
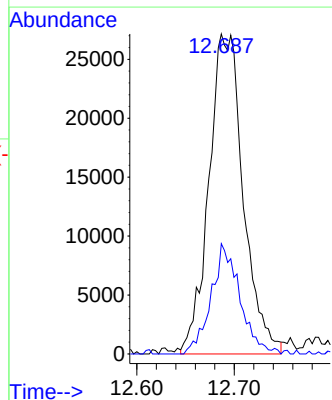
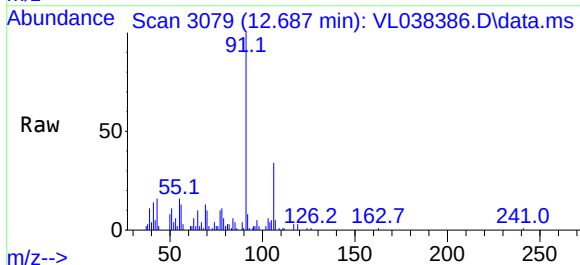
Delta R.T. 0.007 min

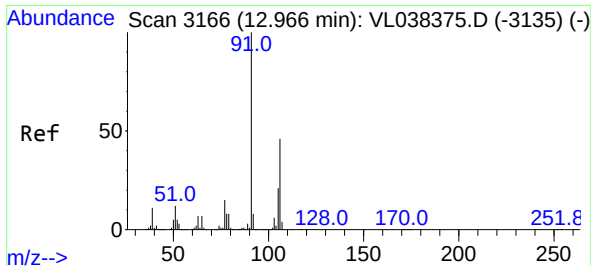
Lab File: VL038386.D

Acq: 22 Feb 2022 13:01

Tgt Ion: 91 Resp: 66556

Ion	Ratio	Lower	Upper
91	100		
106	34.4	24.0	36.0





#59

m/p-Xylene

Concen: 0.378 ppbv m

RT: 12.944 min Scan# 3166

Delta R.T. -0.022 min

Lab File: VL038386.D

Acq: 22 Feb 2022 13:01

Instrument :

MSVOA_L

ClientSampleId :

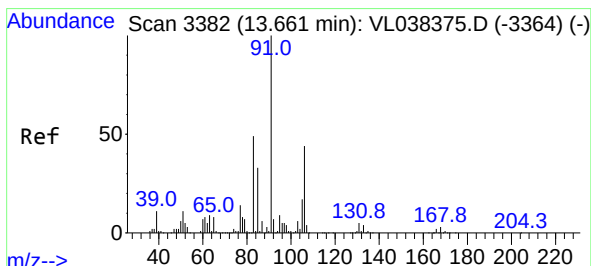
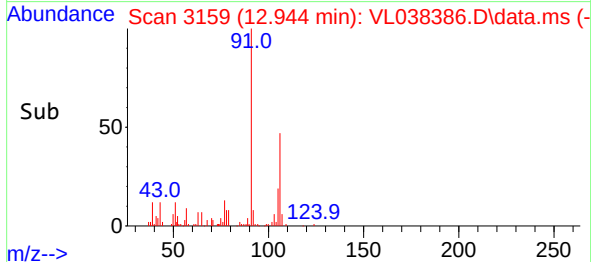
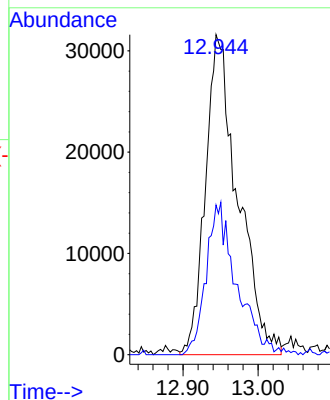
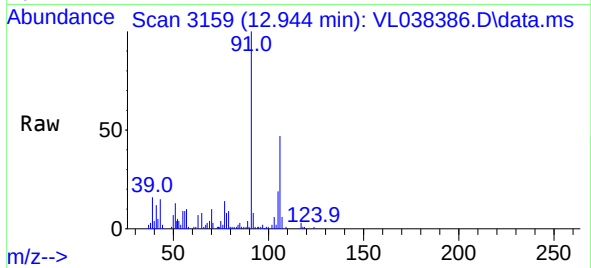
SG-FAM4GL-3DL

Tgt Ion: 91 Resp: 94940
 Ion Ratio Lower Upper
 91 100
 106 0.0 34.4 51.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/24/2022
 Supervised By :Mahesh Dadoda 02/25/2022



#60

o-Xylene

Concen: 0.277 ppbv

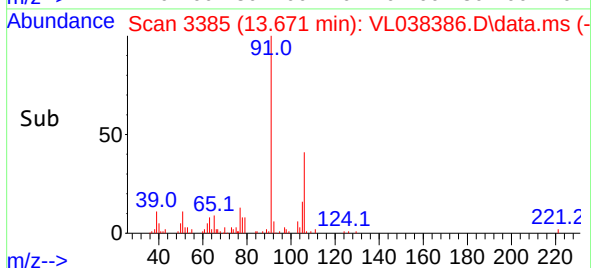
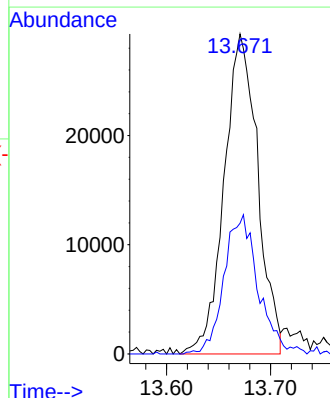
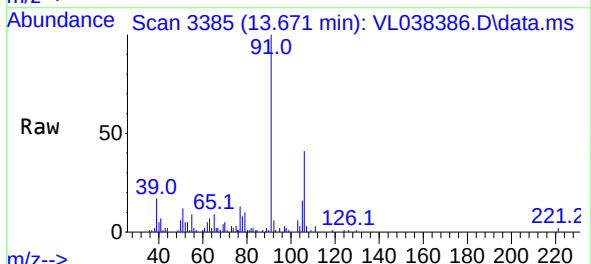
RT: 13.671 min Scan# 3385

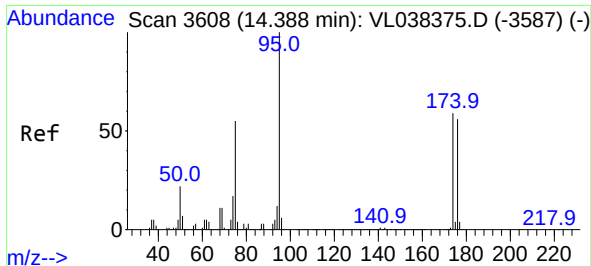
Delta R.T. 0.010 min

Lab File: VL038386.D

Acq: 22 Feb 2022 13:01

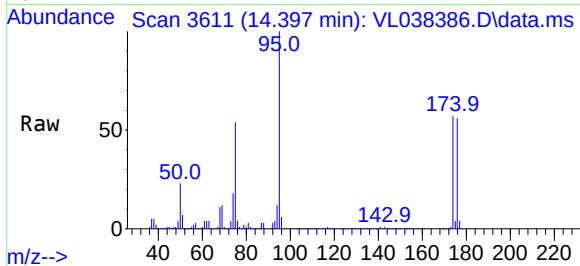
Tgt Ion: 91 Resp: 65714
 Ion Ratio Lower Upper
 91 100
 106 44.7 21.9 65.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.888 ppbv
RT: 14.397 min Scan# 30
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

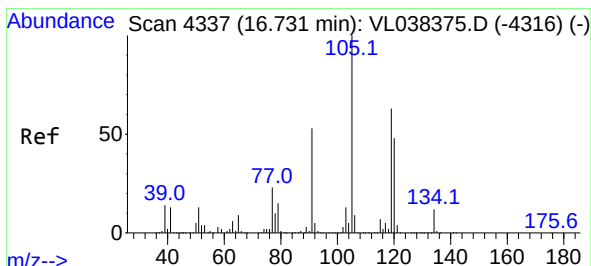
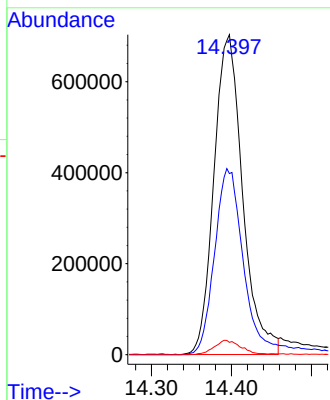
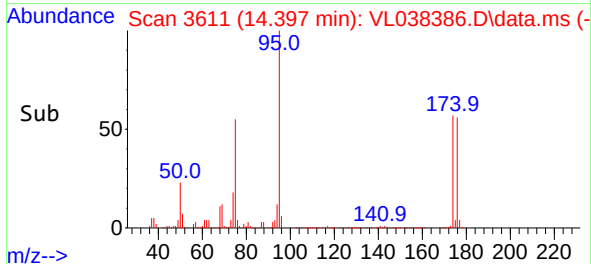
Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL



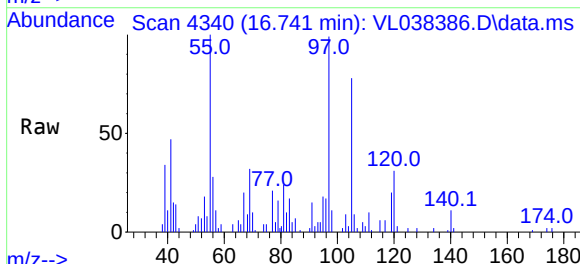
Tgt Ion: 95 Resp: 1749938
Ion Ratio Lower Upper
95 100
174 62.5 49.0 73.4
175 4.4 3.6 5.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.096 ppbv
RT: 16.741 min Scan# 4340
Delta R.T. 0.010 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01



Tgt Ion:105 Resp: 23990
Ion Ratio Lower Upper
105 100
120 34.3 38.2 57.4#
91 12.8 42.7 64.1#
77 19.3 18.5 27.7

