

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120122\
 Data File : VL039959.D
 Acq On : 2 Dec 2022 2:07
 Operator : SY/MD
 Sample : N5851-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/02/2022
 Supervised By : Mahesh Dadoda 12/05/2022

Quant Time: Dec 02 05:37:34 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2022

QLast Update : Fri Dec 02 05:29:35 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.156	49	970741	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.616	114	2704622	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.439	117	2589827	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.745 95 2300583 11.630 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 116.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.700	85	74088	0.533	ppbv	95
4) Chloromethane	2.780	50	69468	0.812	ppbv	95
5) Vinyl Chloride	2.886	62	13647m	0.204	ppbv	
9) Propene	2.665	41	1108214	17.563	ppbv	95
10) Heptane	7.552	43	58554m	0.385	ppbv	
11) Trichlorofluoromethane	3.530	101	39591m	0.233	ppbv	
13) Ethanol	3.205	45	917117	190.373	ppbv	99
15) Acetone	3.433	43	1492034	11.588	ppbv #	85
17) tert-Butyl alcohol	3.851	59	297515	2.010	ppbv	95
19) Isopropyl Alcohol	3.549	45	167842	2.408	ppbv #	1
20) Methylene Chloride	3.899	84	292475	4.689	ppbv	96
26) Hexane	5.179	57	267910	2.594	ppbv #	39
27) Carbon Disulfide	4.092	76	1459491	11.194	ppbv	98
34) 2-Butanone	4.758	43	426784	3.298	ppbv	98
35) Carbon Tetrachloride	6.462	117	10722m	0.070	ppbv	
36) Benzene	6.333	78	474589	2.064	ppbv	93
43) Methyl Methacrylate	7.446	69	48134	0.534	ppbv	96
44) 2,2,4-Trimethylpentane	7.291	57	81412m	0.212	ppbv	
50) 4-Methyl-2-Pentanone	8.156	43	231840	1.000	ppbv	100
52) Tetrachloroethene	10.587	164	50248	0.584	ppbv	93
53) Toluene	9.185	91	418126	1.597	ppbv	99
57) Chlorobenzene	11.507	112	272096m	1.374	ppbv	
58) Ethyl Benzene	12.060	91	245480m	0.699	ppbv	
59) m/p-Xylene	12.317	91	503982m	1.714	ppbv	
60) o-Xylene	13.034	91	172082m	0.614	ppbv	
73) 1,3,5-Trimethylbenzene	15.330	105	66744m	0.231	ppbv	
74) 1,2,4-Trimethylbenzene	16.085	105	237098m	0.776	ppbv	

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

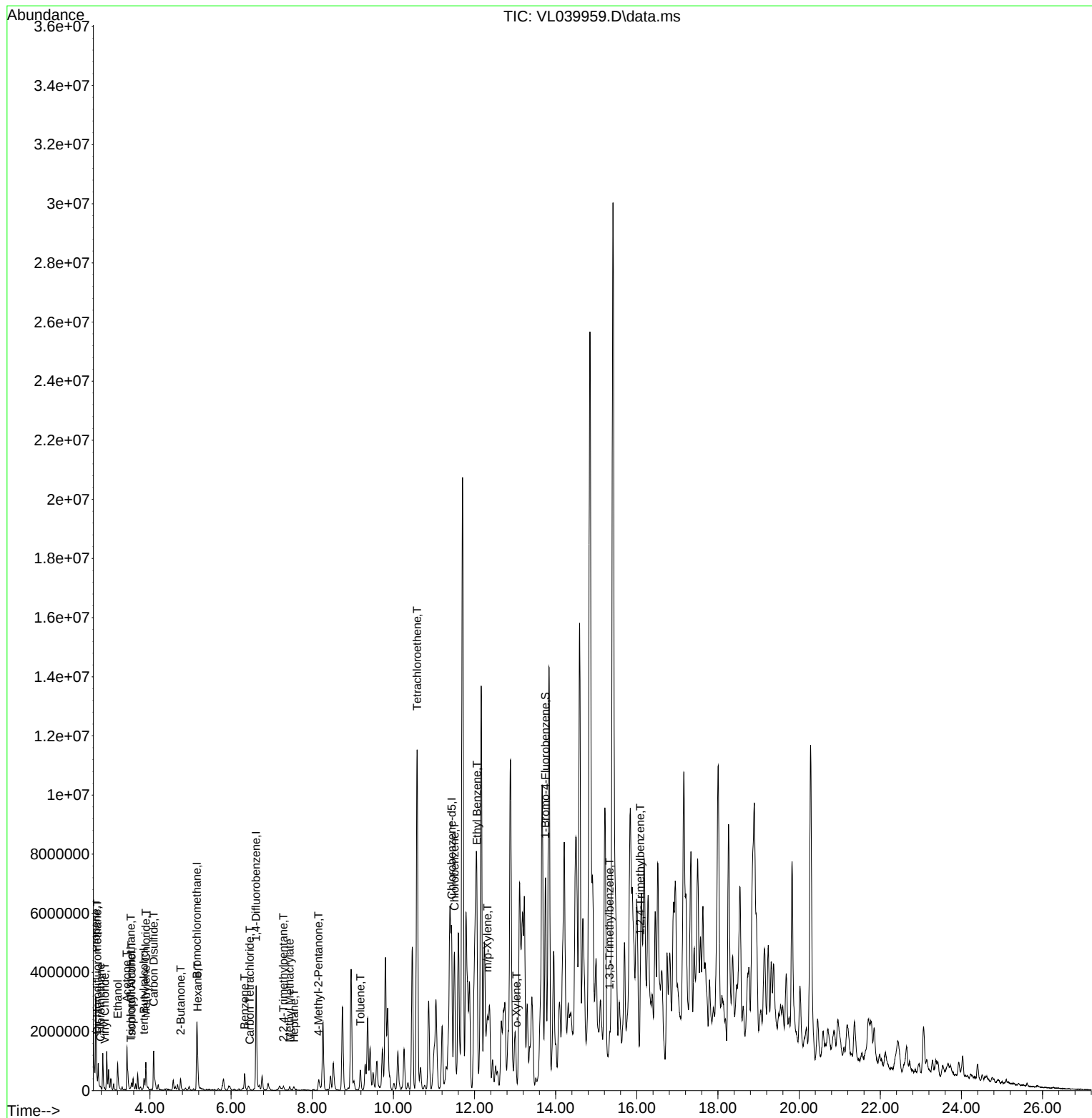
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120122\
Data File : VL039959.D
Acq On : 2 Dec 2022 2:07
Operator : SY/MD
Sample : N5851-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

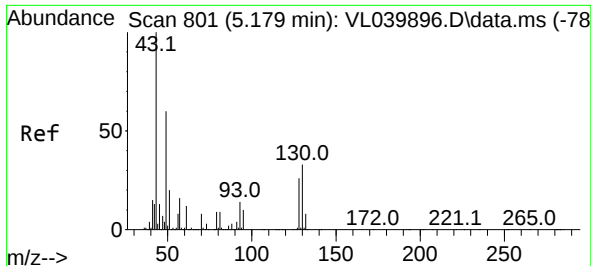
Instrument :
MSVOA_L
ClientSampleId :
SG-1

Quant Time: Dec 02 05:37:34 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Dec 02 05:29:35 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

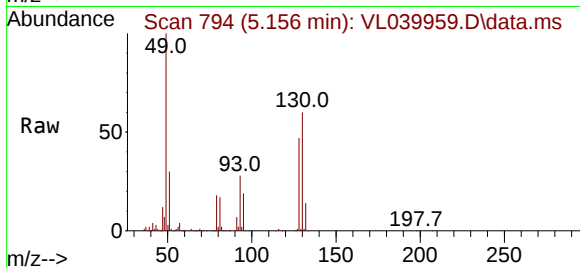
Reviewed By : Semsettin Yesilyurt 12/02/2022
Supervised By : Mahesh Dadoda 12/05/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.156 min Scan# 74
Delta R.T. -0.017 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

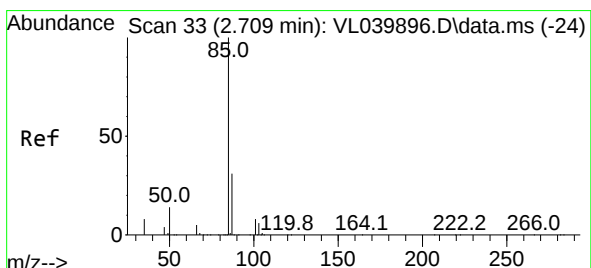
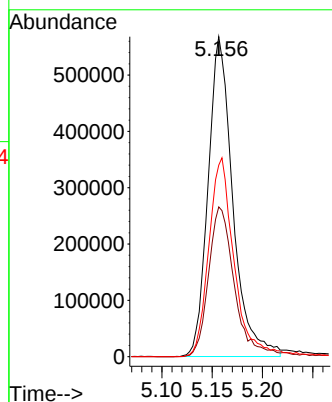
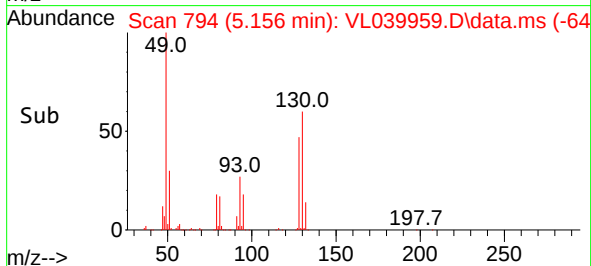
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 49 Resp: 97074
Ion Ratio Lower Upper
49 100
128 50.3 22.1 66.3
130 64.5 27.7 83.1

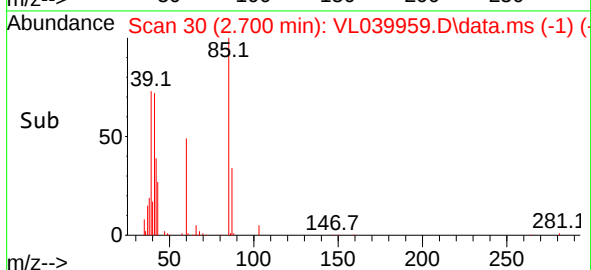
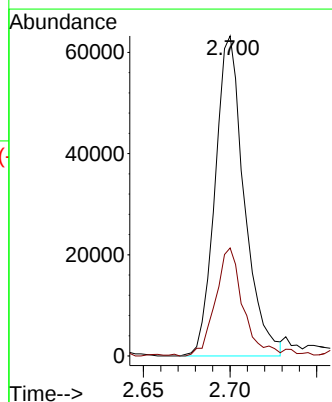
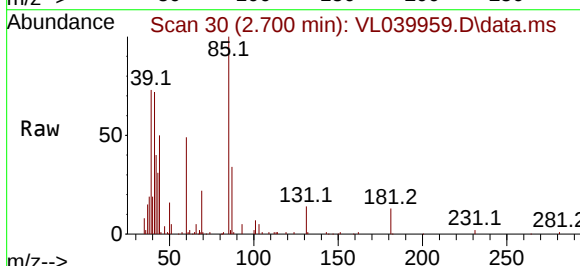
Manual Integrations
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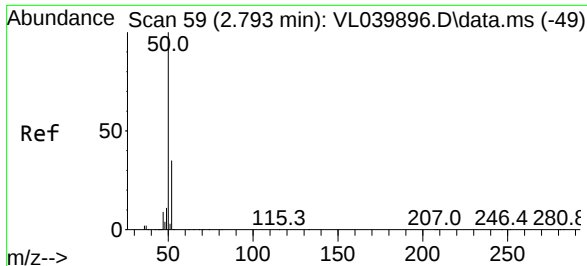
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#2
Dichlorodifluoromethane
Concen: 0.533 ppbv
RT: 2.700 min Scan# 30
Delta R.T. -0.010 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

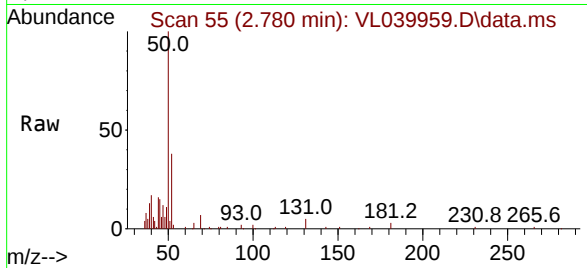
Tgt Ion: 85 Resp: 74088
Ion Ratio Lower Upper
85 100
87 33.7 25.0 37.4





#4
Chloromethane
Concen: 0.812 ppbv
RT: 2.780 min Scan# 50
Delta R.T. -0.010 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

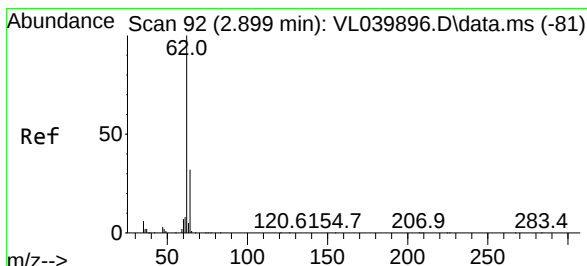
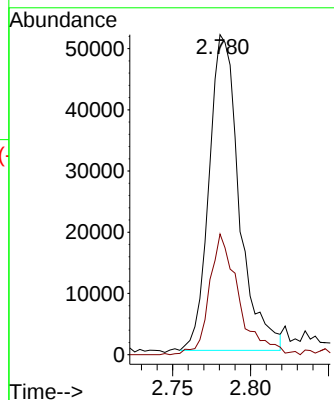
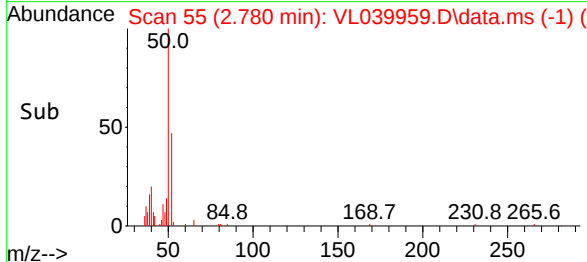
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 50 Resp: 69468
Ion Ratio Lower Upper
50 100
52 37.8 27.8 41.8

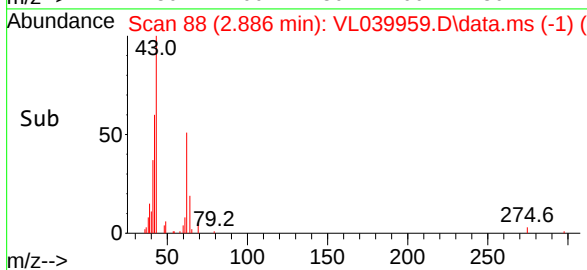
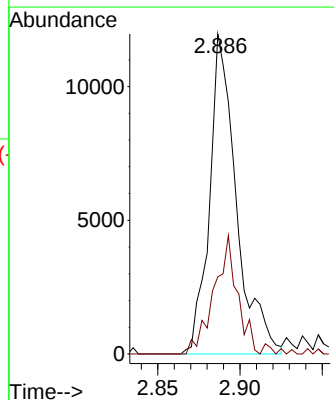
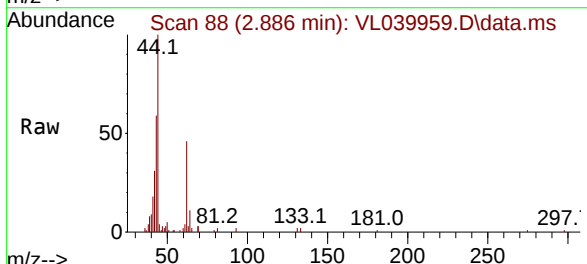
Manual Integrations
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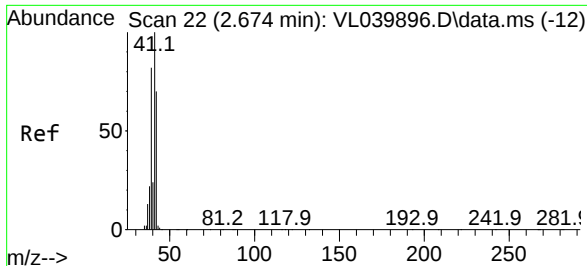
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#5
Vinyl Chloride
Concen: 0.204 ppbv m
RT: 2.886 min Scan# 88
Delta R.T. -0.013 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

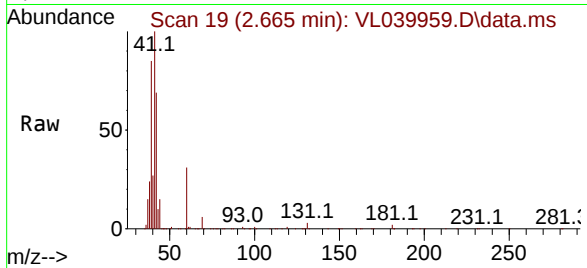
Tgt Ion: 62 Resp: 13647
Ion Ratio Lower Upper
62 100
64 24.1 25.7 38.5#





#9
 Propene
 Concen: 17.563 ppbv
 RT: 2.665 min Scan# 1539
 Delta R.T. -0.006 min
 Lab File: VL039959.D
 Acq: 2 Dec 2022 2:07

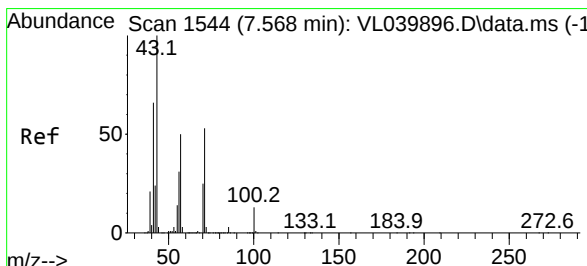
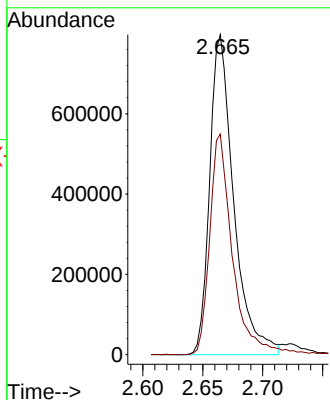
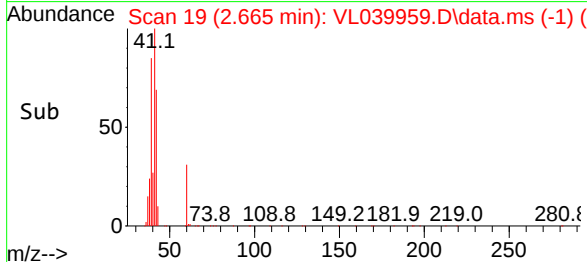
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1



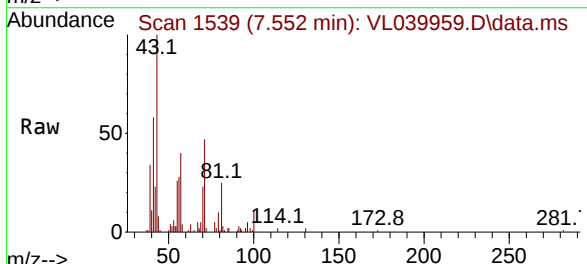
Tgt Ion: 41 Resp: 1108214
 Ion Ratio Lower Upper
 41 100
 42 65.9 55.8 83.6

Manual Integrations
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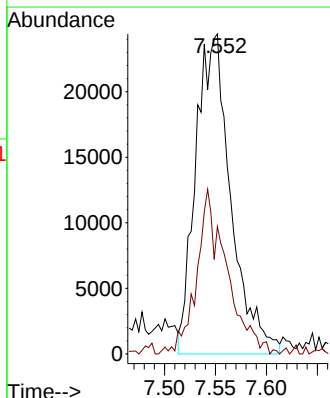
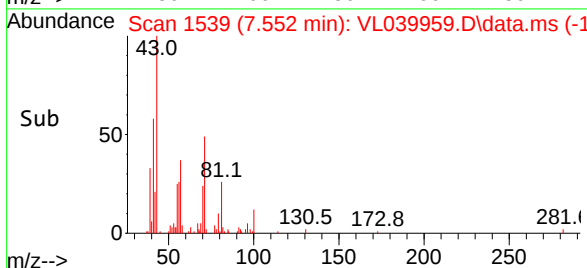
Reviewed By :Semsettin Yesilyurt 12/02/2022
 Supervised By :Mahesh Dadoda 12/05/2022

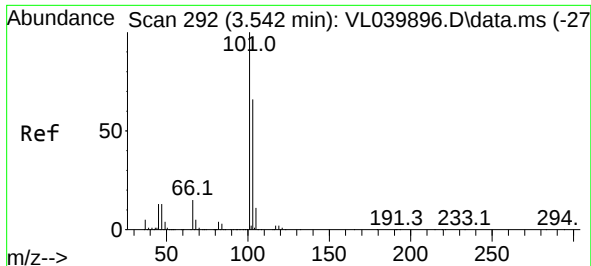


#10
 Heptane
 Concen: 0.385 ppbv m
 RT: 7.552 min Scan# 1539
 Delta R.T. -0.013 min
 Lab File: VL039959.D
 Acq: 2 Dec 2022 2:07



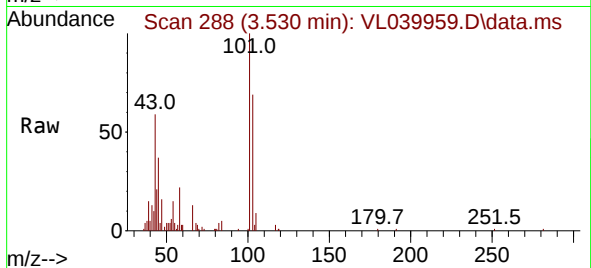
Tgt Ion: 43 Resp: 58554
 Ion Ratio Lower Upper
 43 100
 57 44.7 40.7 61.1





#11
Trichlorofluoromethane
Concen: 0.233 ppbv m
RT: 3.530 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

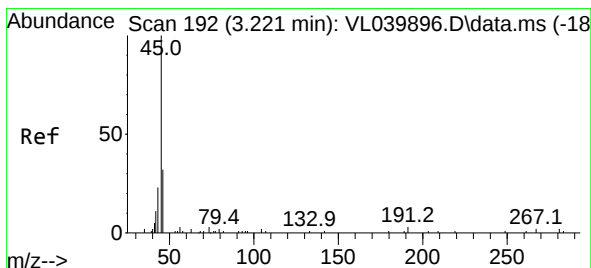
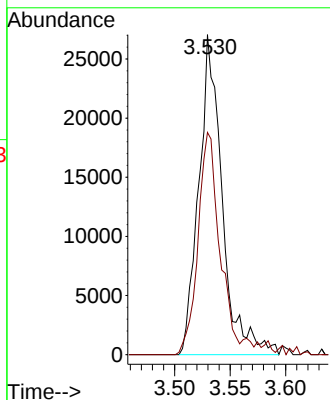
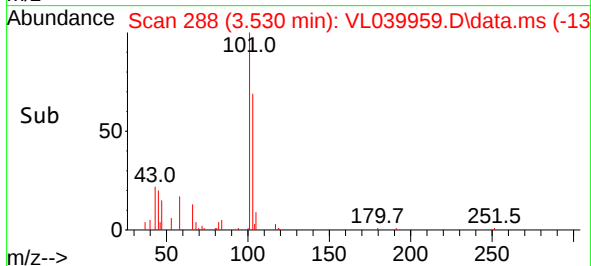
Instrument :
MSVOA_L
ClientSampleId :
SG-1



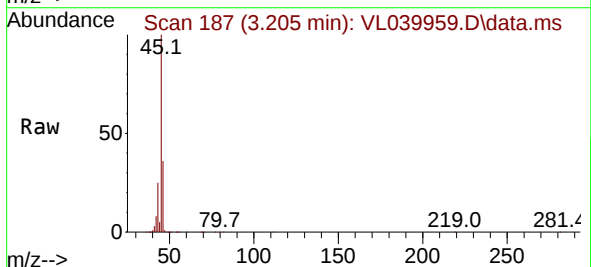
Tgt Ion:101 Resp: 3959
Ion Ratio Lower Upper
101 100
103 69.4 52.6 78.8

Manual Integrations
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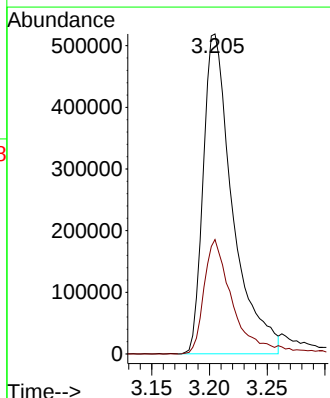
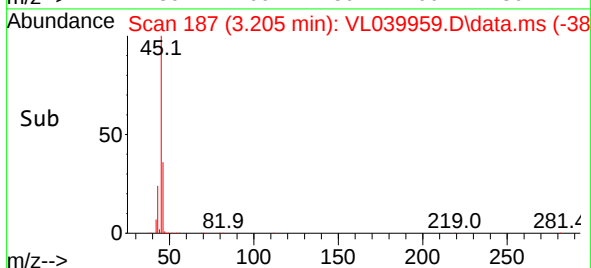
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022

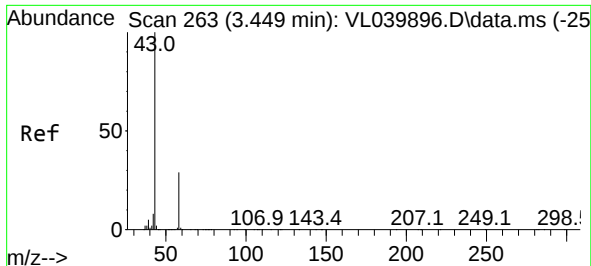


#13
Ethanol
Concen: 190.373 ppbv
RT: 3.205 min Scan# 187
Delta R.T. -0.022 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07



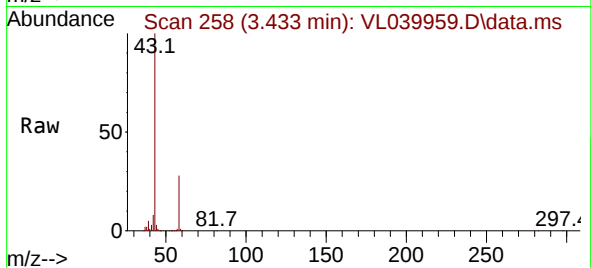
Tgt Ion: 45 Resp: 917117
Ion Ratio Lower Upper
45 100
46 37.0 14.6 58.2





#15
Acetone
Concen: 11.588 ppbv
RT: 3.433 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

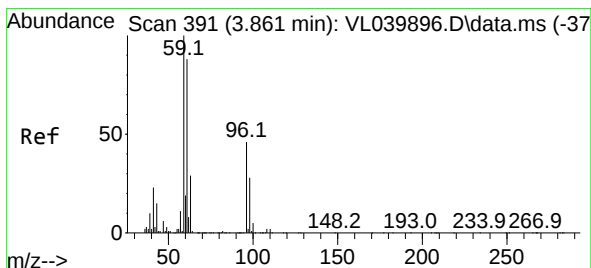
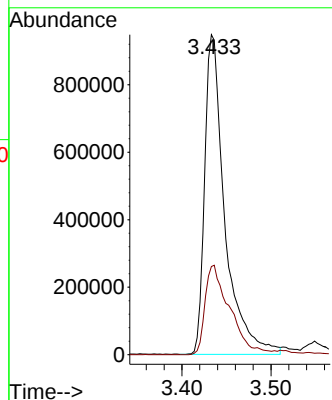
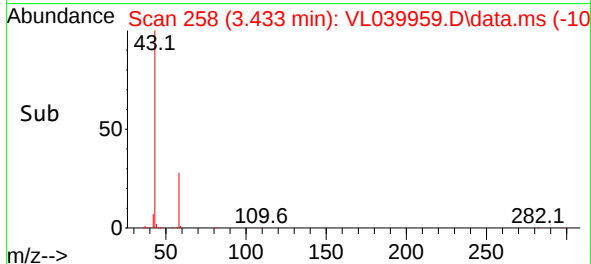
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 43 Resp: 1492034
Ion Ratio Lower Upper
43 100
58 36.4 22.9 34.3

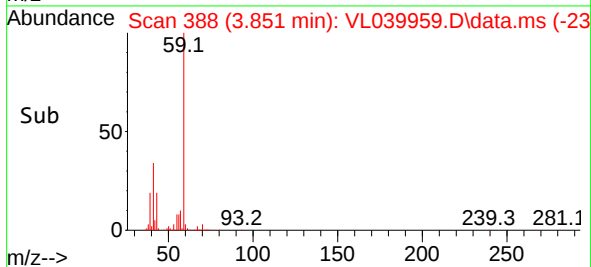
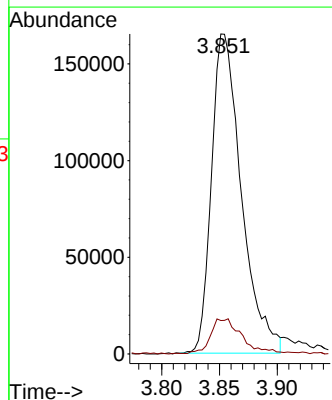
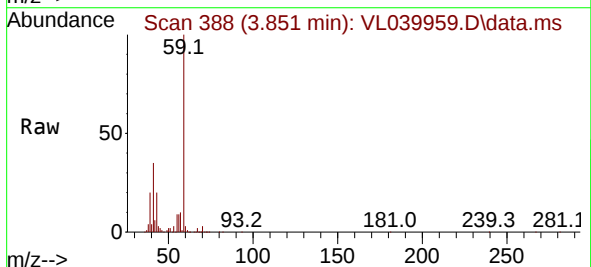
Manual Integrations
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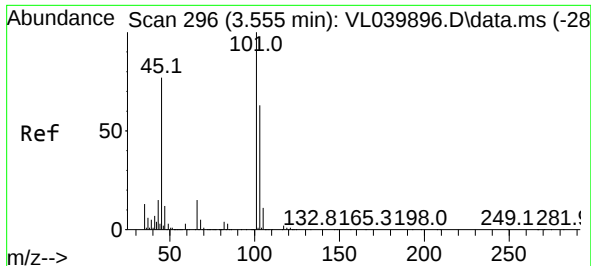
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#17
tert-Butyl alcohol
Concen: 2.010 ppbv
RT: 3.851 min Scan# 388
Delta R.T. -0.006 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

Tgt Ion: 59 Resp: 297515
Ion Ratio Lower Upper
59 100
57 12.4 8.3 12.5





#19

Isopropyl Alcohol

Concen: 2.408 ppbv

RT: 3.549 min Scan# 296

Delta R.T. -0.006 min

Lab File: VL039959.D

Acq: 2 Dec 2022 2:07

Instrument :

MSVOA_L

ClientSampleId :

SG-1

Tgt Ion: 45 Resp: 16784

Ion Ratio Lower Upper

45 100

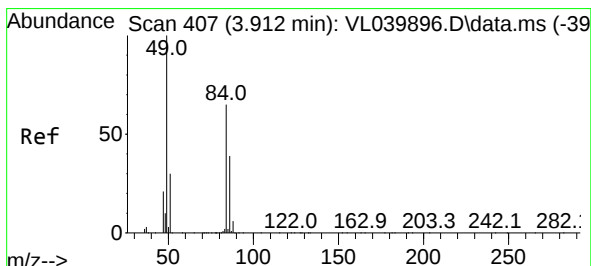
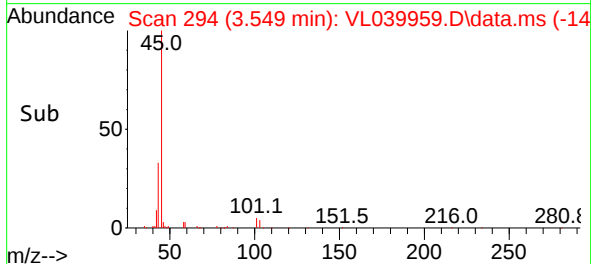
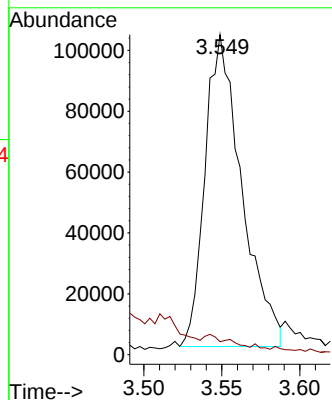
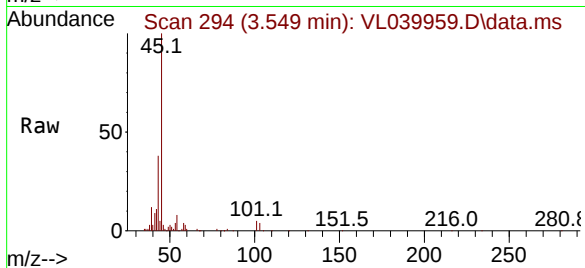
58 323.9 38.7 58.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/02/2022

Supervised By :Mahesh Dadoda 12/05/2022



#20

Methylene Chloride

Concen: 4.689 ppbv

RT: 3.899 min Scan# 403

Delta R.T. -0.013 min

Lab File: VL039959.D

Acq: 2 Dec 2022 2:07

Tgt Ion: 84 Resp: 292475

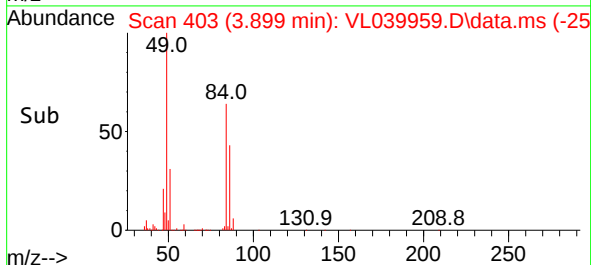
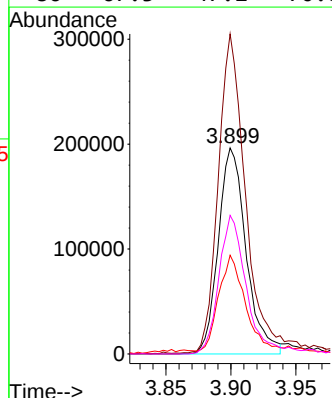
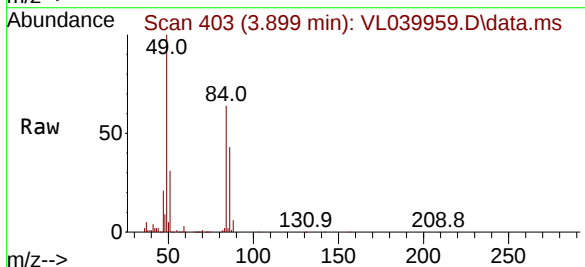
Ion Ratio Lower Upper

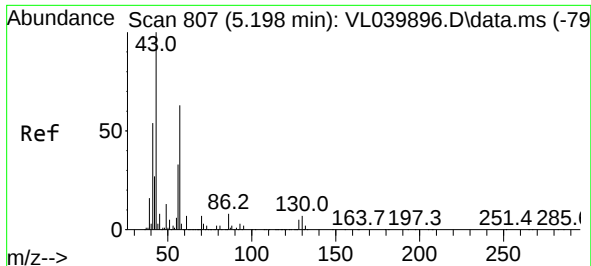
84 100

49 154.8 122.2 183.4

51 46.2 36.3 54.5

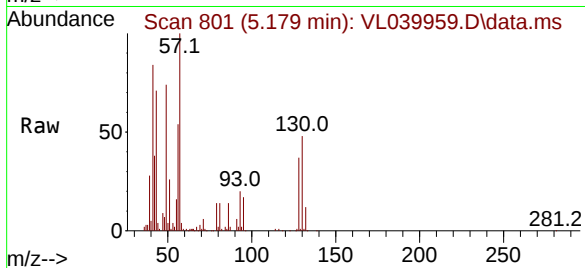
86 67.3 47.2 70.8





#26
Hexane
Concen: 2.594 ppbv
RT: 5.179 min Scan# 801
Delta R.T. -0.016 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

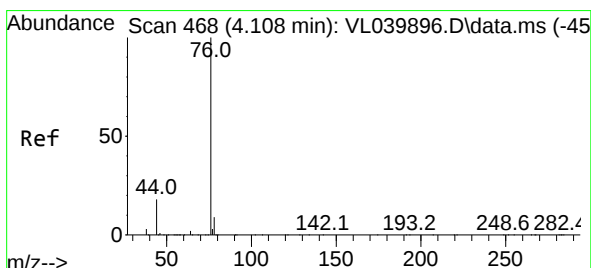
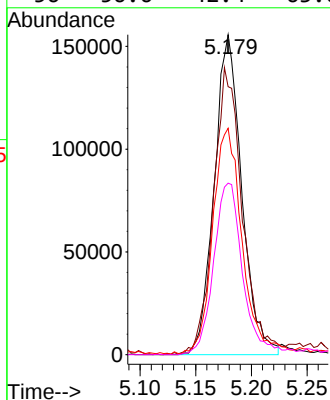
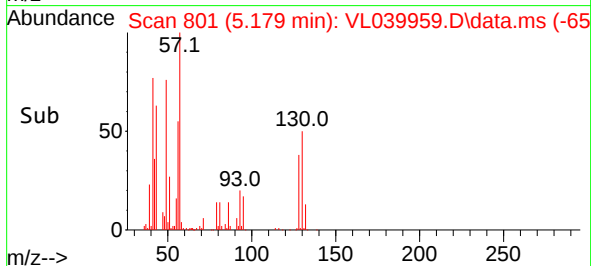
Instrument :
MSVOA_L
ClientSampleId :
SG-1



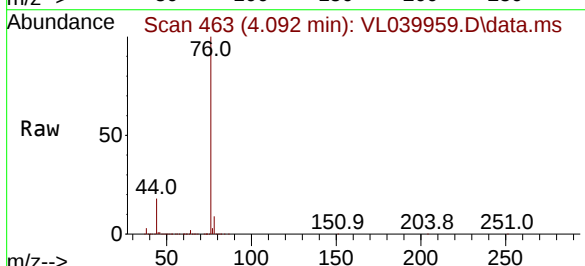
Tgt Ion: 57 Resp: 267910
Ion Ratio Lower Upper
57 100
41 96.8 72.3 108.5
43 76.6 188.7 283.1
56 56.6 42.4 63.6

Manual Integrations
APPROVED

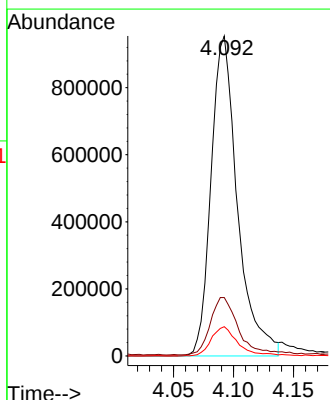
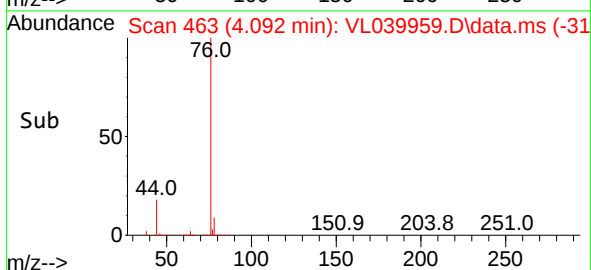
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022

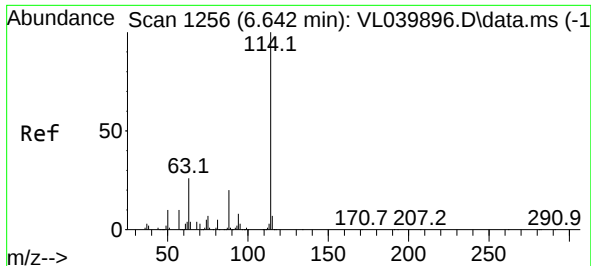


#27
Carbon Disulfide
Concen: 11.194 ppbv
RT: 4.092 min Scan# 463
Delta R.T. -0.013 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07



Tgt Ion: 76 Resp: 1459491
Ion Ratio Lower Upper
76 100
44 19.3 14.7 22.1
78 9.5 7.8 11.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.616 min Scan# 114

Delta R.T. -0.019 min

Lab File: VL039959.D

Acq: 2 Dec 2022 2:07

Instrument :

MSVOA_L

ClientSampleId :

SG-1

Tgt Ion:114 Resp: 270462

Ion Ratio Lower Upper

114 100

63 24.8 21.4 32.0

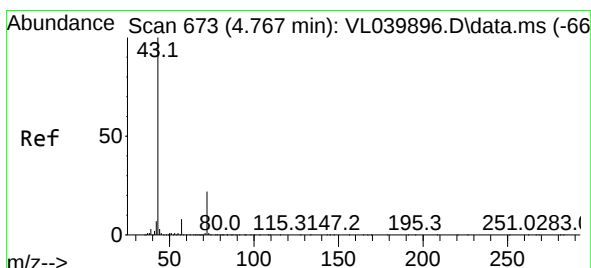
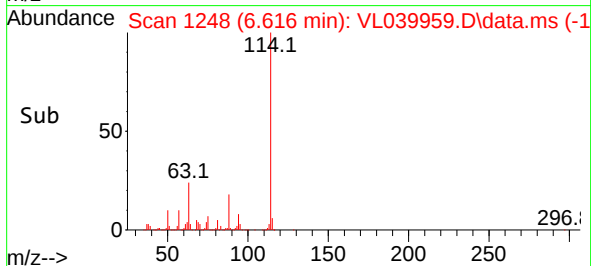
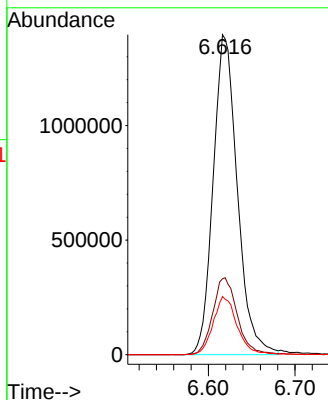
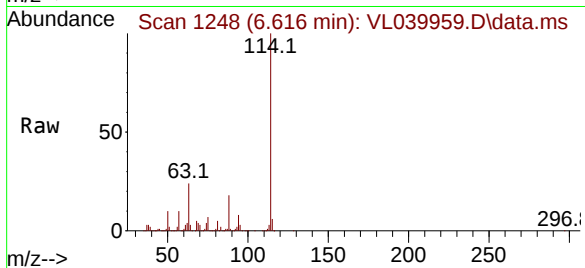
88 18.1 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/02/2022

Supervised By :Mahesh Dadoda 12/05/2022



#34

2-Butanone

Concen: 3.298 ppbv

RT: 4.758 min Scan# 670

Delta R.T. -0.010 min

Lab File: VL039959.D

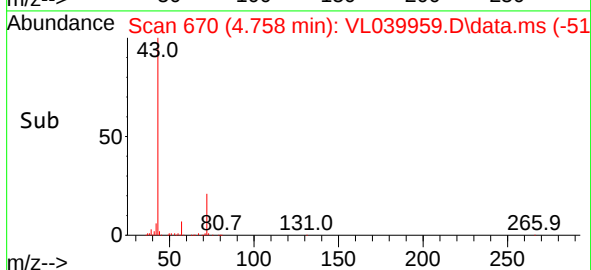
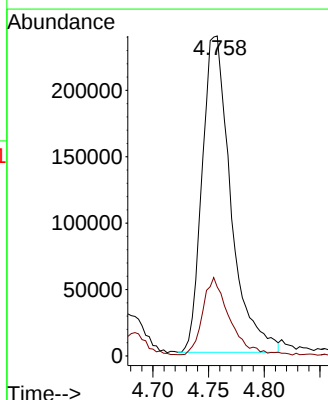
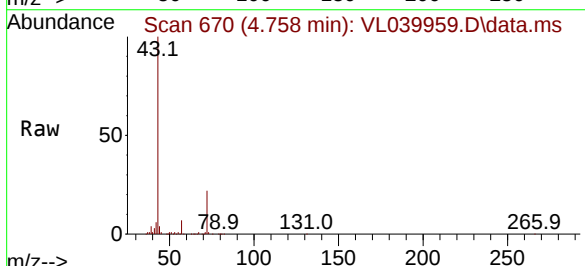
Acq: 2 Dec 2022 2:07

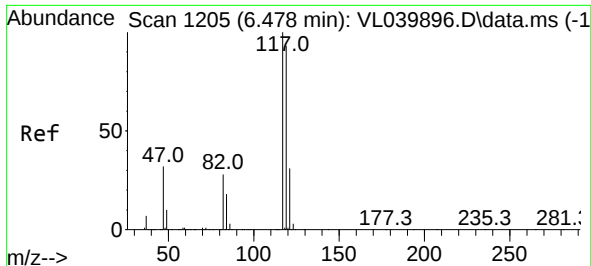
Tgt Ion: 43 Resp: 426784

Ion Ratio Lower Upper

43 100

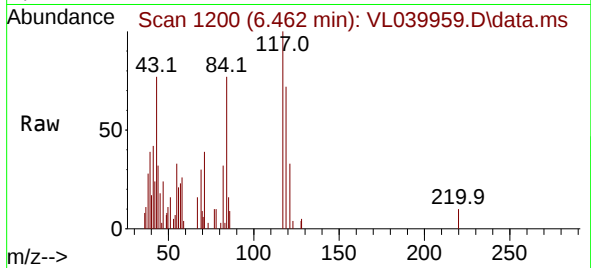
72 22.8 17.4 26.2





#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 6.462 min Scan# 1172
Delta R.T. -0.016 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

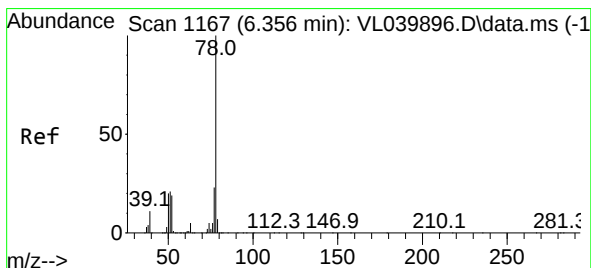
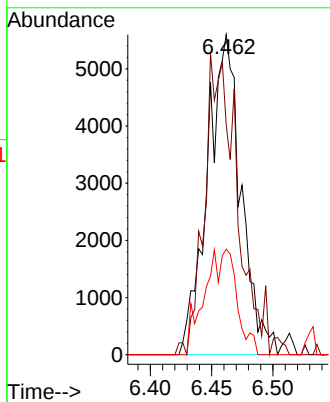
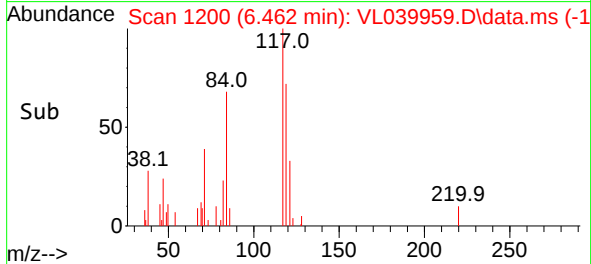
Instrument : MSVOA_L
ClientSampleId : SG-1



Tgt Ion:117 Resp: 1072
Ion Ratio Lower Upper
117 100
119 71.8 74.7 112.1
121 33.0 24.5 36.7

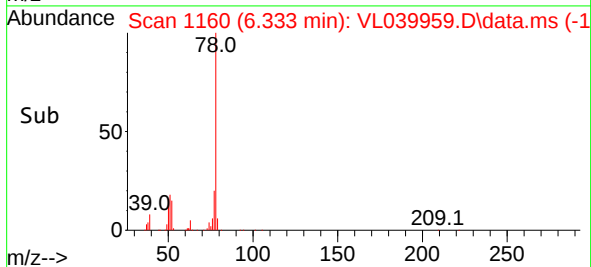
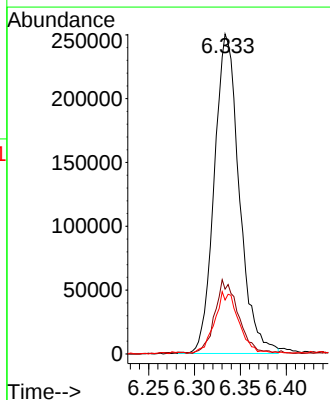
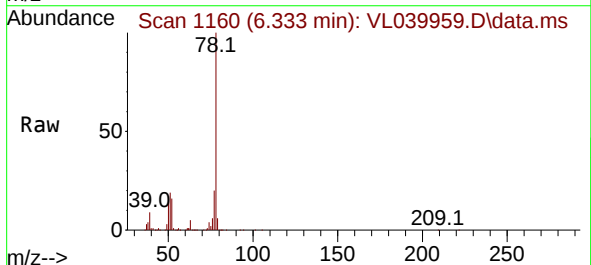
Manual Integrations
APPROVED

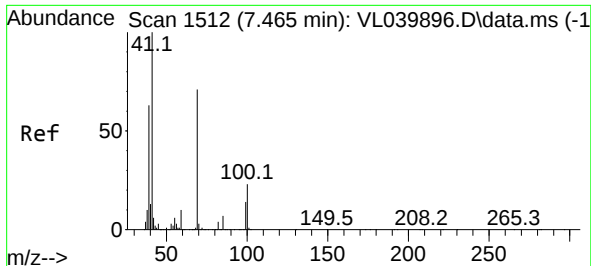
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#36
Benzene
Concen: 2.064 ppbv
RT: 6.333 min Scan# 1160
Delta R.T. -0.019 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

Tgt Ion: 78 Resp: 474589
Ion Ratio Lower Upper
78 100
77 19.7 18.2 27.2
50 16.4 15.8 23.8





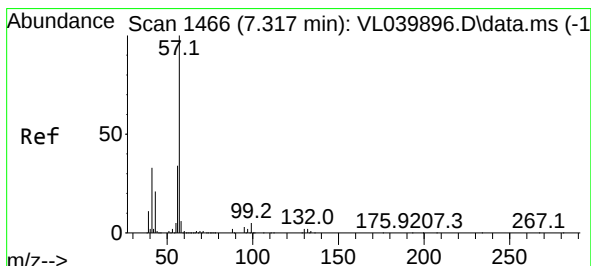
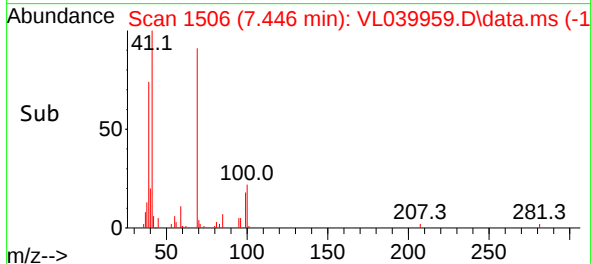
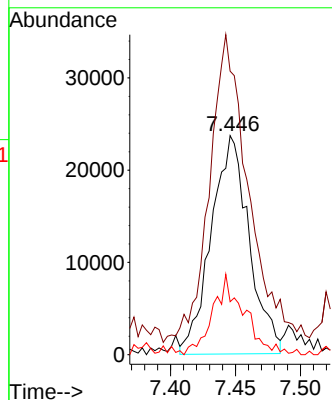
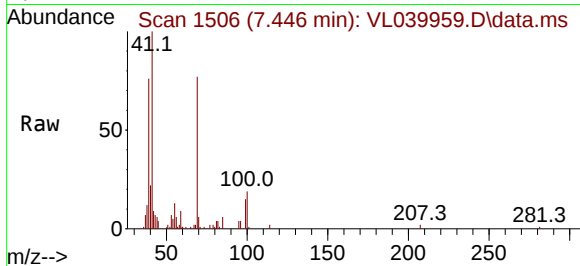
#43
Methyl Methacrylate
Concen: 0.534 ppbv
RT: 7.446 min Scan# 1458
Delta R.T. -0.013 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 69 Resp: 48134
Ion Ratio Lower Upper
69 100
41 149.9 116.4 174.6
100 30.6 26.8 40.2

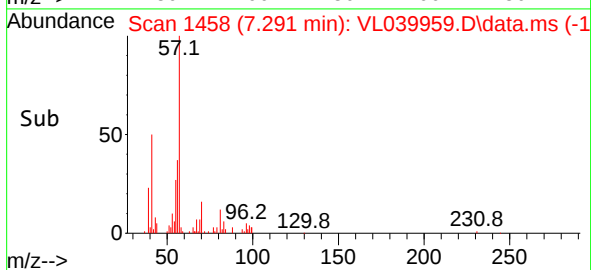
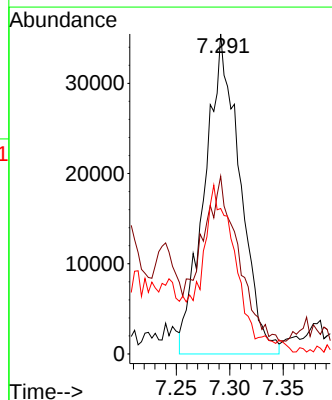
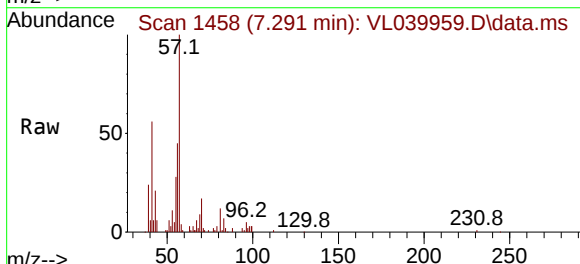
Manual Integrations
APPROVED

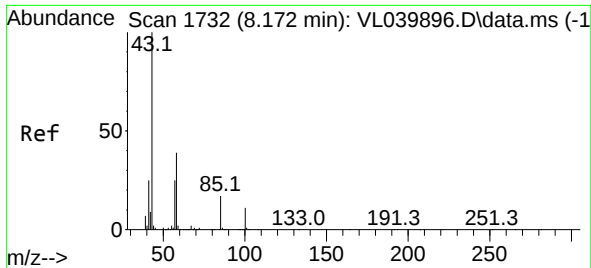
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#44
2,2,4-Trimethylpentane
Concen: 0.212 ppbv m
RT: 7.291 min Scan# 1458
Delta R.T. -0.019 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

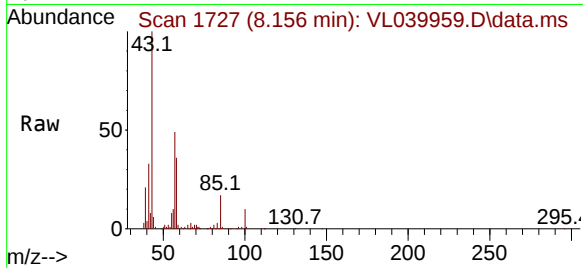
Tgt Ion: 57 Resp: 81412
Ion Ratio Lower Upper
57 100
41 62.1 26.2 39.2#
56 0.0 25.5 38.3#





#50
4-Methyl-2-Pentanone
Concen: 1.000 ppbv
RT: 8.156 min Scan# 1727
Delta R.T. -0.010 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

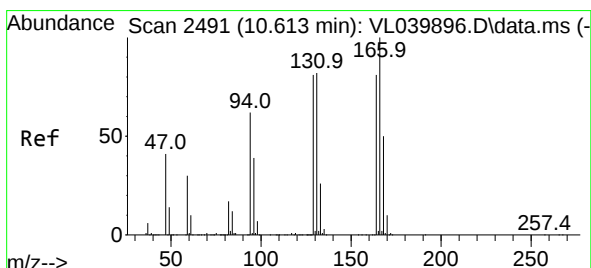
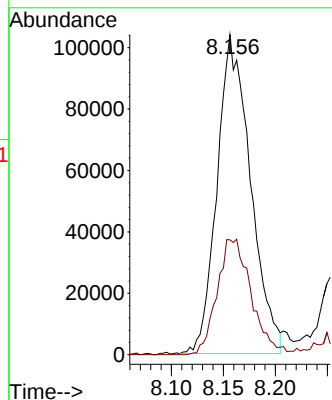
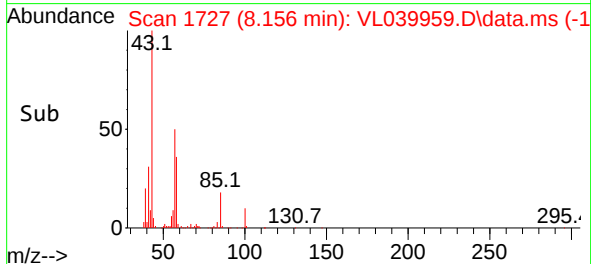
Instrument :
MSVOA_L
ClientSampleId :
SG-1



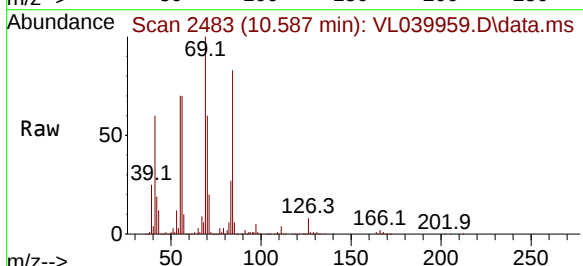
Tgt Ion: 43 Resp: 231840
Ion Ratio Lower Upper
43 100
58 37.1 29.8 44.6

Manual Integrations
APPROVED

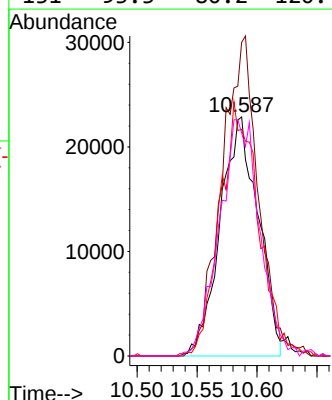
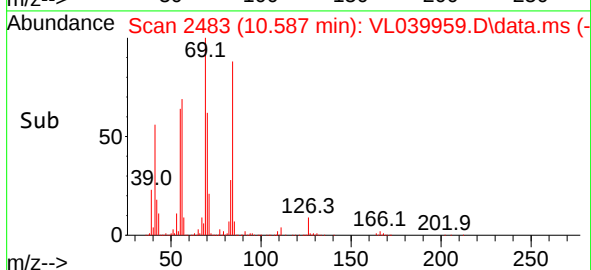
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022

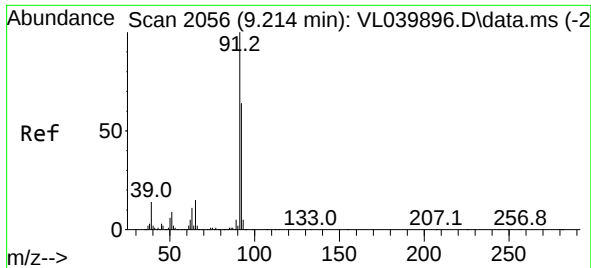


#52
Tetrachloroethene
Concen: 0.584 ppbv
RT: 10.587 min Scan# 2483
Delta R.T. -0.016 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07



Tgt Ion:164 Resp: 50248
Ion Ratio Lower Upper
164 100
166 131.2 98.3 147.5
129 93.8 79.7 119.5
131 93.3 80.2 120.4





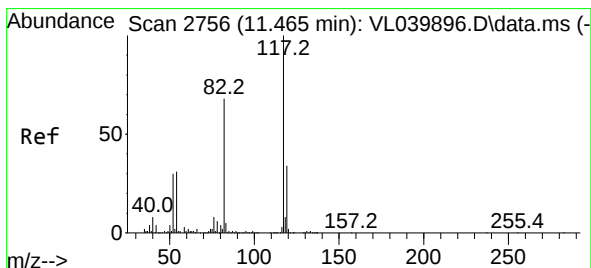
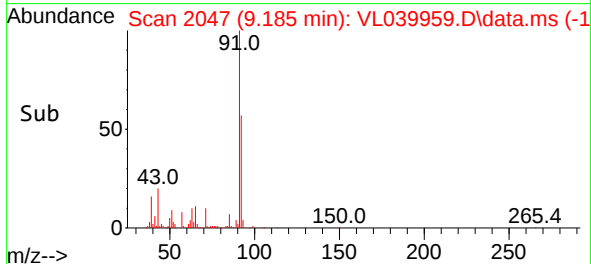
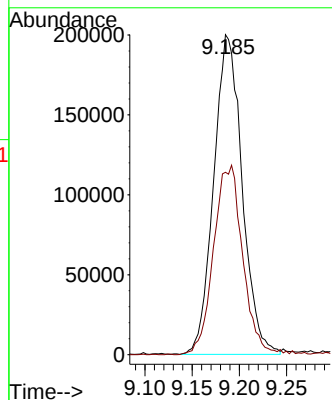
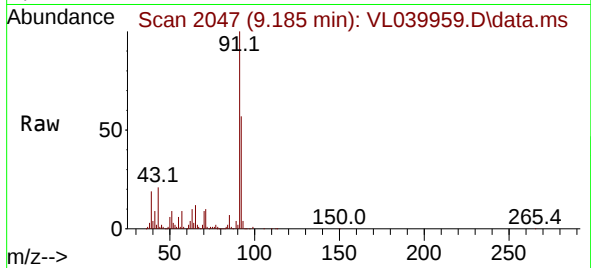
#53
Toluene
Concen: 1.597 ppbv
RT: 9.185 min Scan# 2056
Delta R.T. -0.019 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 91 Resp: 418120
Ion Ratio Lower Upper
91 100
92 61.5 49.8 74.6

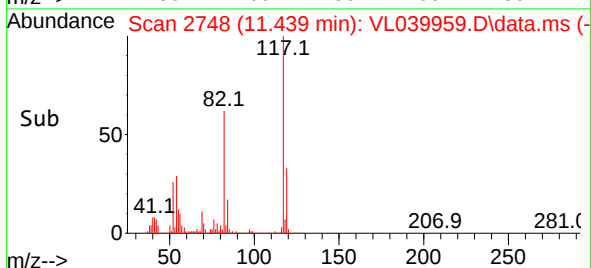
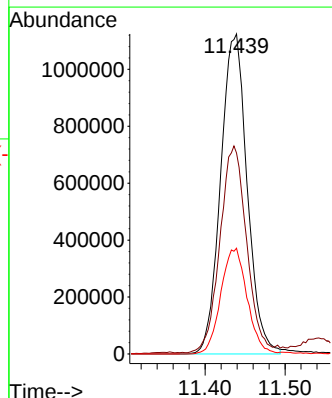
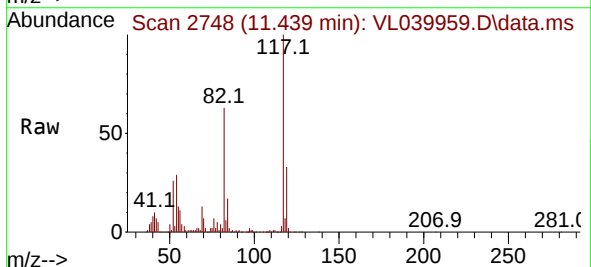
Manual Integrations
APPROVED

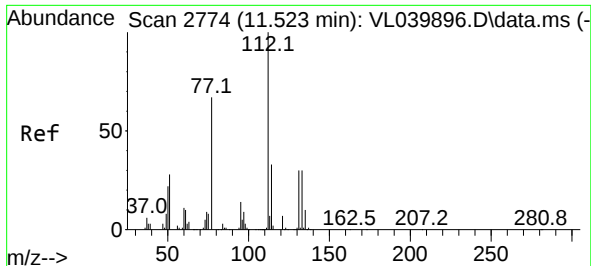
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. -0.013 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

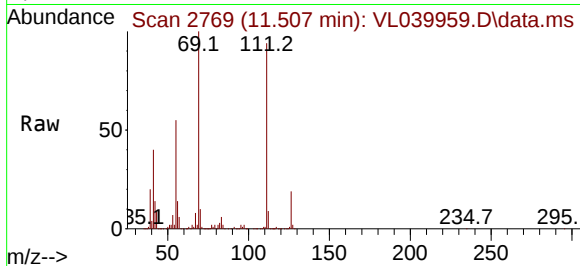
Tgt Ion:117 Resp: 2589827
Ion Ratio Lower Upper
117 100
82 65.3 52.3 78.5
119 33.2 25.7 38.5





#57
Chlorobenzene
Concen: 1.374 ppbv m
RT: 11.507 min Scan# 2769
Delta R.T. -0.006 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

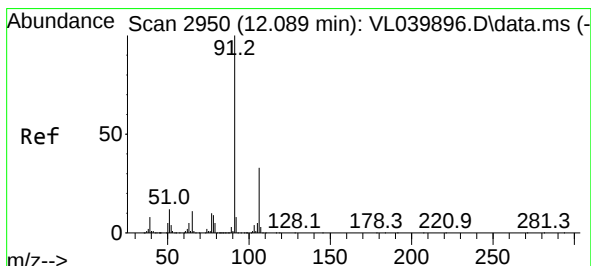
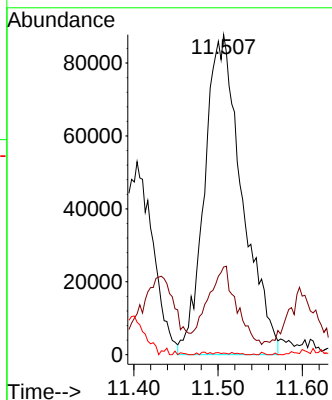
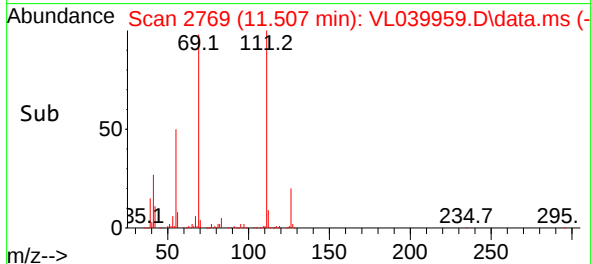
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 112 Resp: 272090
Ion Ratio Lower Upper
112 100
77 27.4 54.6 81.8
114 0.5 30.1 36.7

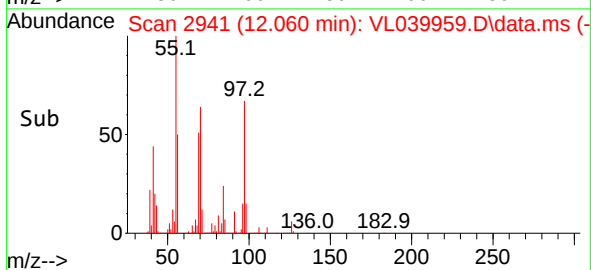
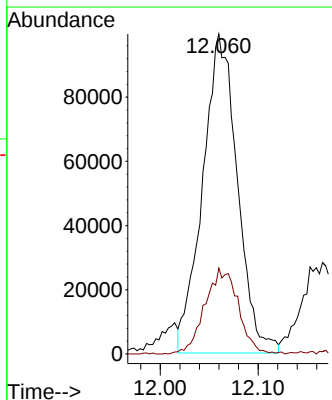
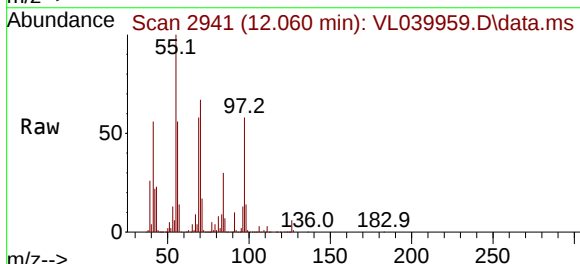
Manual Integrations
APPROVED

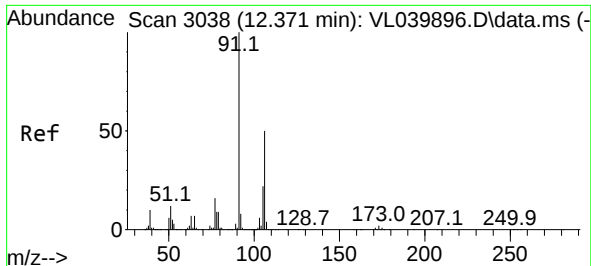
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#58
Ethyl Benzene
Concen: 0.699 ppbv m
RT: 12.060 min Scan# 2941
Delta R.T. -0.016 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

Tgt Ion: 91 Resp: 245480
Ion Ratio Lower Upper
91 100
106 26.8 26.1 39.1





#59

m/p-Xylene

Concen: 1.714 ppbv m

RT: 12.317 min Scan# 3038

Delta R.T. -0.042 min

Lab File: VL039959.D

Acq: 2 Dec 2022 2:07

Instrument :

MSVOA_L

ClientSampleId :

SG-1

Tgt Ion: 91 Resp: 503982

Ion Ratio Lower Upper

91 100

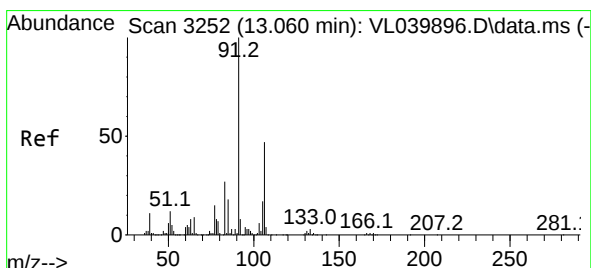
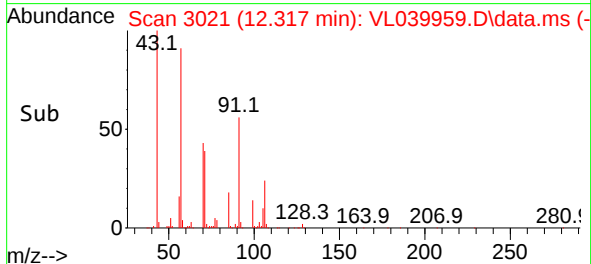
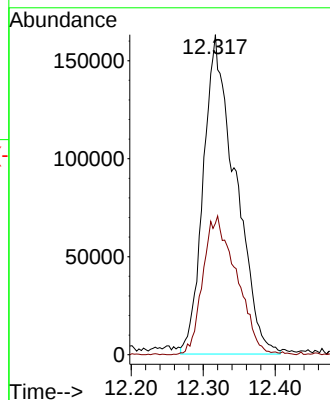
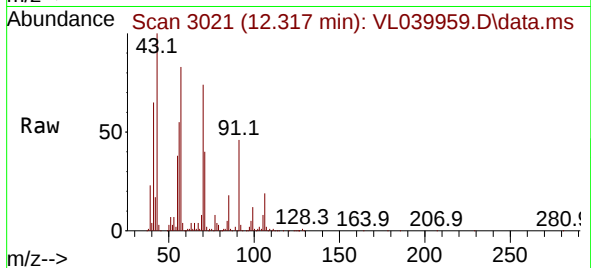
106 0.0 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/02/2022

Supervised By :Mahesh Dadoda 12/05/2022



#60

o-Xylene

Concen: 0.614 ppbv m

RT: 13.034 min Scan# 3244

Delta R.T. -0.013 min

Lab File: VL039959.D

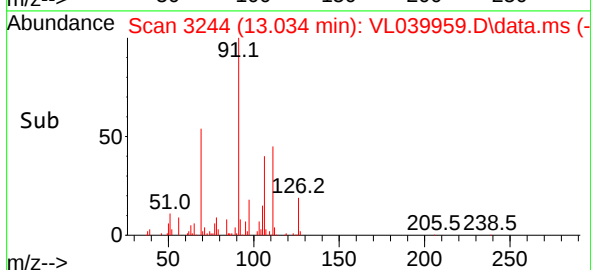
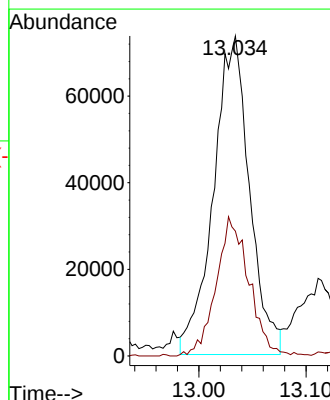
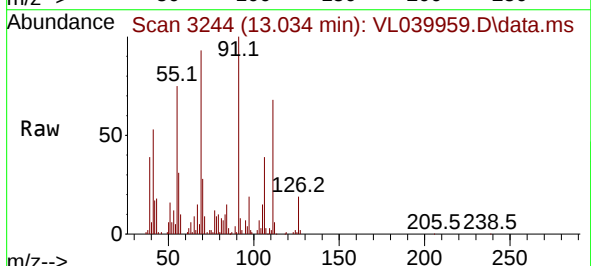
Acq: 2 Dec 2022 2:07

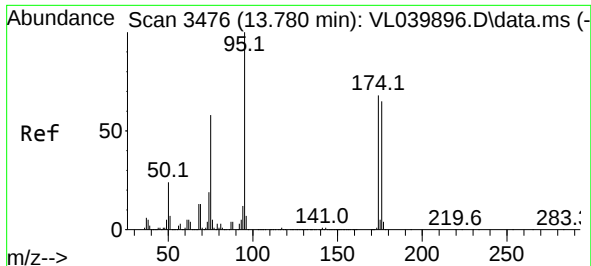
Tgt Ion: 91 Resp: 172082

Ion Ratio Lower Upper

91 100

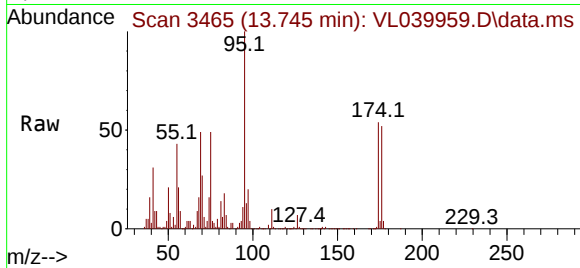
106 1.3 23.2 69.6





#68
1-Bromo-4-Fluorobenzene
Concen: 11.630 ppbv
RT: 13.745 min Scan# 3476
Delta R.T. -0.019 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

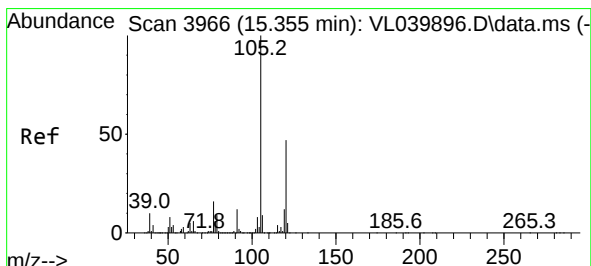
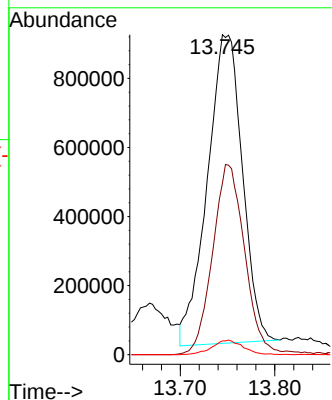
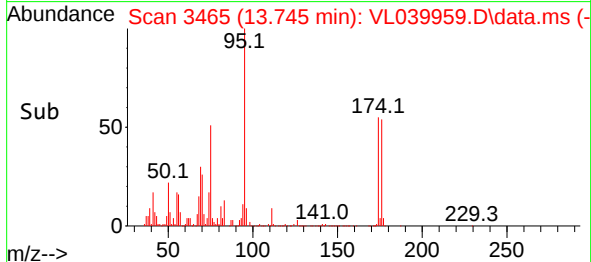
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 95 Resp: 230058
Ion Ratio Lower Upper
95 100
174 57.1 53.7 80.5
175 4.2 4.0 6.0

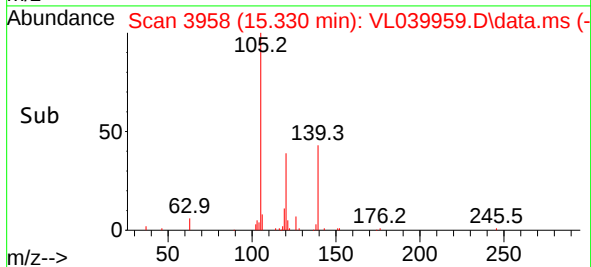
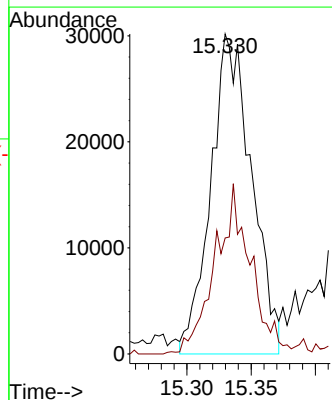
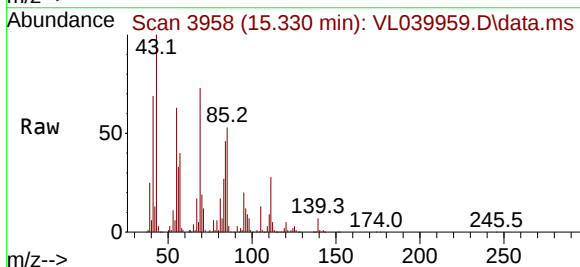
Manual Integrations
APPROVED

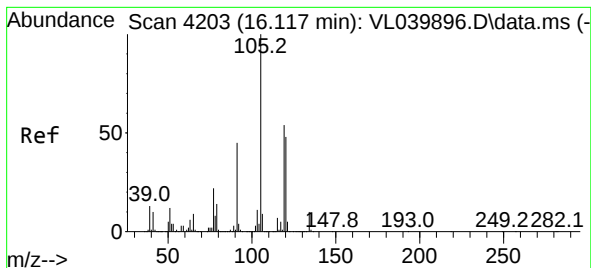
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#73
1,3,5-Trimethylbenzene
Concen: 0.231 ppbv m
RT: 15.330 min Scan# 3958
Delta R.T. -0.013 min
Lab File: VL039959.D
Acq: 2 Dec 2022 2:07

Tgt Ion:105 Resp: 66744
Ion Ratio Lower Upper
105 100
120 36.2 37.9 56.9#





#74

1,2,4-Trimethylbenzene

Concen: 0.776 ppbv m

RT: 16.085 min Scan# 41

Delta R.T. -0.013 min

Lab File: VL039959.D

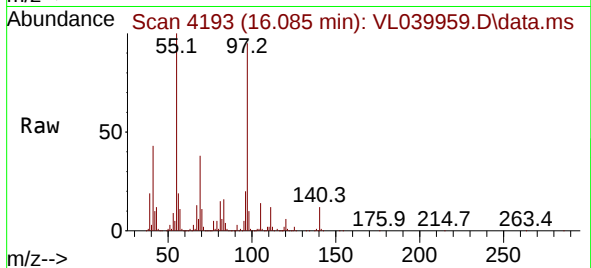
Acq: 2 Dec 2022 2:07

Instrument :

MSVOA_L

ClientSampleId :

SG-1



Tgt Ion:105 Resp: 237098

Ion Ratio Lower Upper

105 100

120 40.6 38.7 58.1

91 19.3 36.4 54.6

77 34.1 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/02/2022

Supervised By :Mahesh Dadoda 12/05/2022

