

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041269.D
 Acq On : 21 May 2024 17:33
 Operator : SY/MD
 Sample : P2533-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024
 Supervised By :Mahesh Dadoda 05/22/2024

Quant Time: May 22 05:46:14 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

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

QLast Update : Wed May 22 05:39:49 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	886258	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2203521	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2187359	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1708013	10.343	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	35887	0.299	ppbv	96
3) Chlorodifluoromethane	2.687	51	420545	3.124	ppbv	99
4) Chloromethane	2.832	50	33552m	0.635	ppbv	
9) Propene	2.716	41	70707m	1.342	ppbv	
10) Heptane	7.581	43	17602m	0.138	ppbv	
11) Trichlorofluoromethane	3.575	101	29283	0.240	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	4.079	101	8267m	0.092	ppbv	
13) Ethanol	3.256	45	6742354	570.978	ppbv	100
15) Acetone	3.475	43	1548508	14.805	ppbv	99
19) Isopropyl Alcohol	3.594	45	5566104	81.098	ppbv #	43
20) Methylene Chloride	3.941	84	193090	5.309	ppbv	94
25) Ethyl Acetate	5.208	43	716262	3.431	ppbv	97
26) Hexane	5.218	57	206228	2.214	ppbv #	55
29) Chloroform	5.282	83	25000m	0.195	ppbv	
34) 2-Butanone	4.793	43	66018	0.589	ppbv	97
35) Carbon Tetrachloride	6.491	117	8827m	0.071	ppbv	
36) Benzene	6.372	78	43383	0.235	ppbv #	89
38) Trichloroethene	7.298	130	3343m	0.049	ppbv	
44) 2,2,4-Trimethylpentane	7.324	57	62488m	0.196	ppbv	
52) Tetrachloroethene	10.616	164	191863	2.952	ppbv	95
53) Toluene	9.224	91	163027	0.760	ppbv	100
58) Ethyl Benzene	12.089	91	29011m	0.097	ppbv	
59) m/p-Xylene	12.340	91	94300m	0.374	ppbv	
60) o-Xylene	13.066	91	37368m	0.158	ppbv	
61) Styrene	12.902	104	43308m	0.347	ppbv	
69) p-Isopropyltoluene	16.992	119	74463	0.203	ppbv	95
74) 1,2,4-Trimethylbenzene	16.105	105	38203	0.144	ppbv #	65
76) 1,4-Dichlorobenzene	16.474	146	37249	0.255	ppbv	97

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

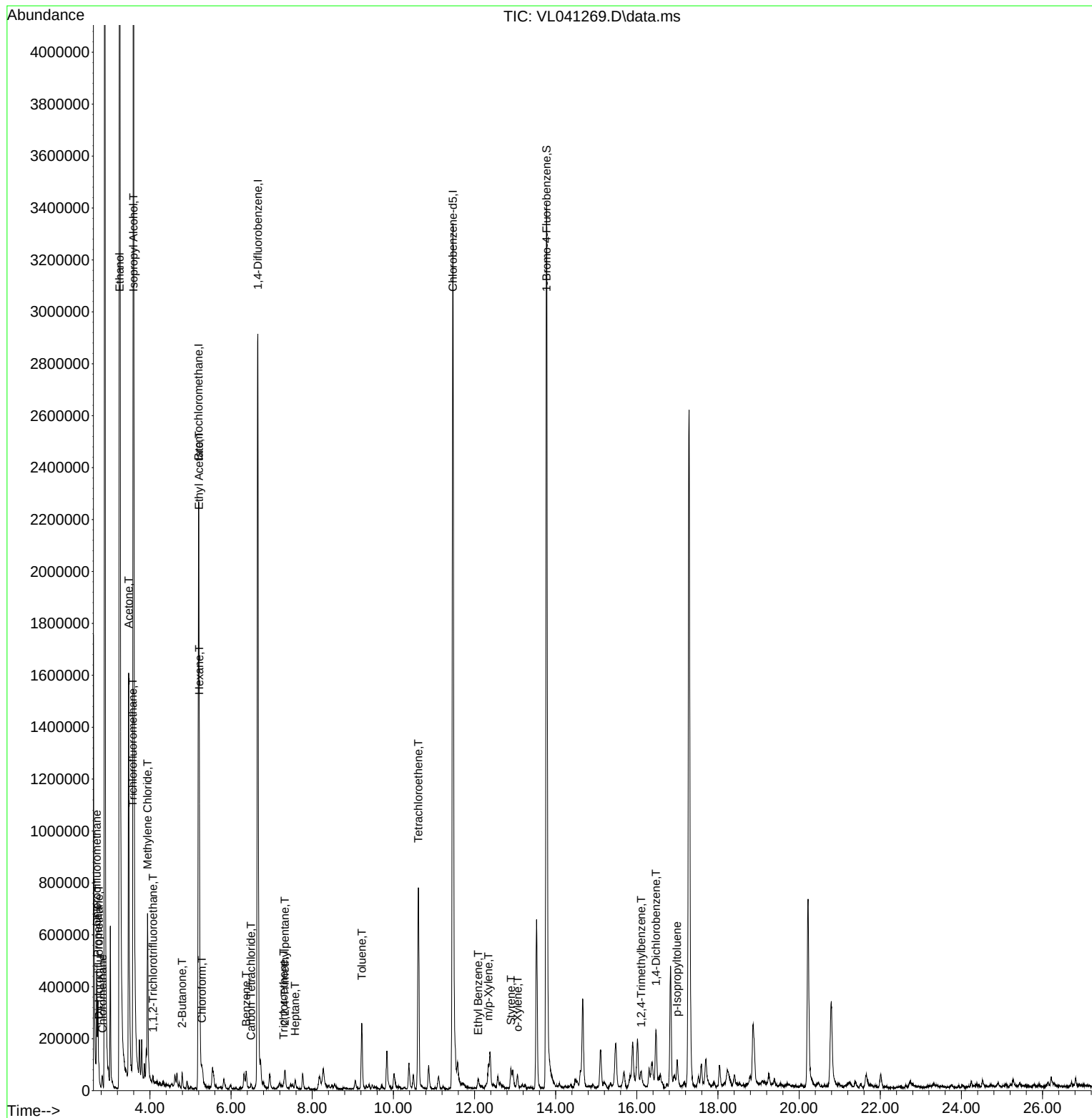
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
Data File : VL041269.D
Acq On : 21 May 2024 17:33
Operator : SY/MD
Sample : P2533-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

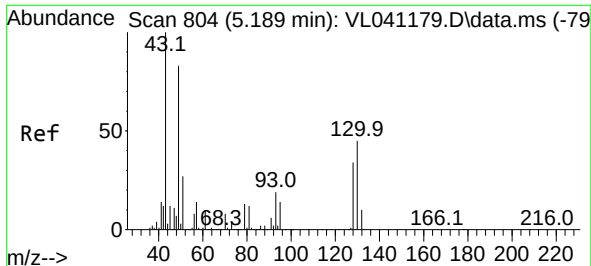
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: May 22 05:46:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed May 22 05:39:49 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

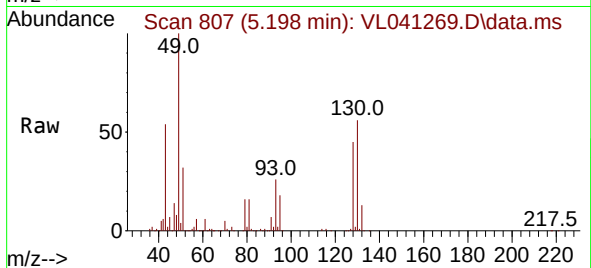
Reviewed By : Semsettin Yesilyurt 05/22/2024
Supervised By : Mahesh Dadoda 05/22/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

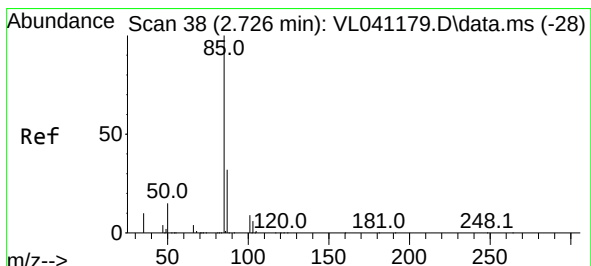
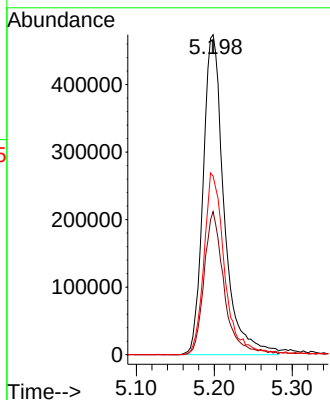
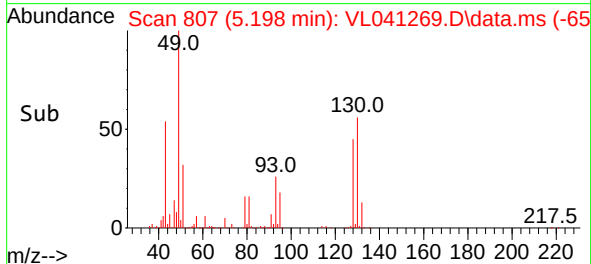
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 886258
Ion Ratio Lower Upper
49 100
128 43.8 21.5 64.5
130 57.0 27.2 81.6

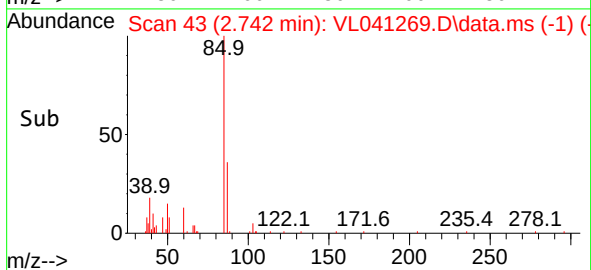
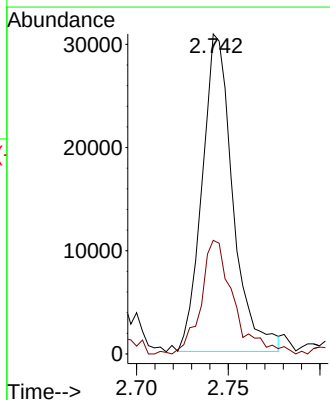
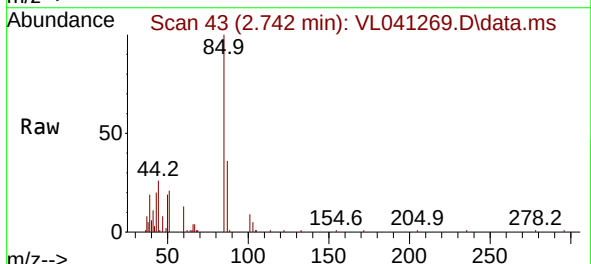
Manual Integrations
APPROVED

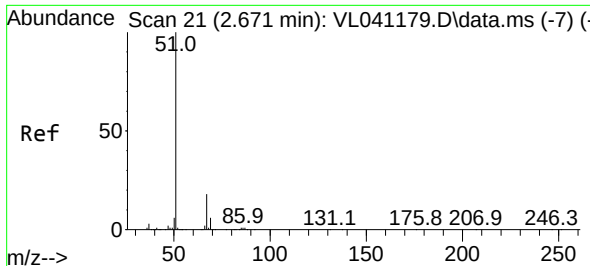
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#2
Dichlorodifluoromethane
Concen: 0.299 ppbv
RT: 2.742 min Scan# 43
Delta R.T. -0.006 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

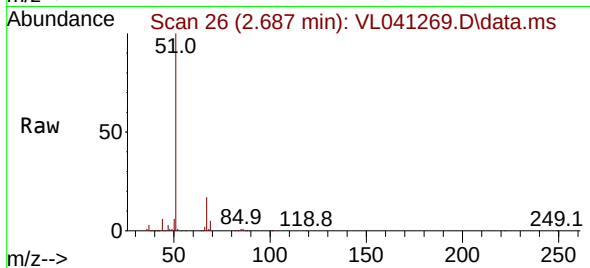
Tgt Ion: 85 Resp: 35887
Ion Ratio Lower Upper
85 100
87 34.4 25.7 38.5





#3
Chlorodifluoromethane
Concen: 3.124 ppbv
RT: 2.687 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

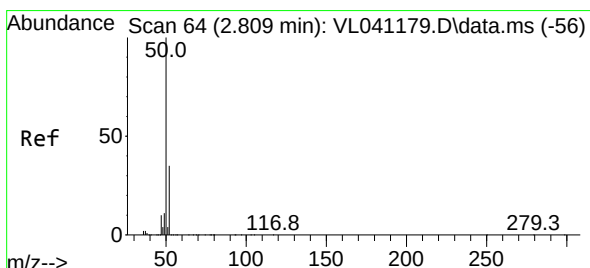
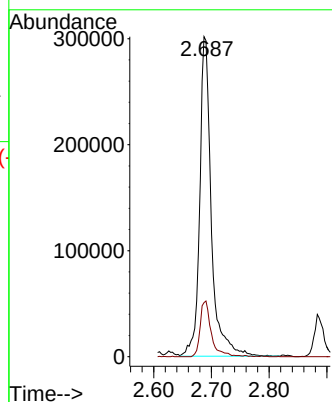
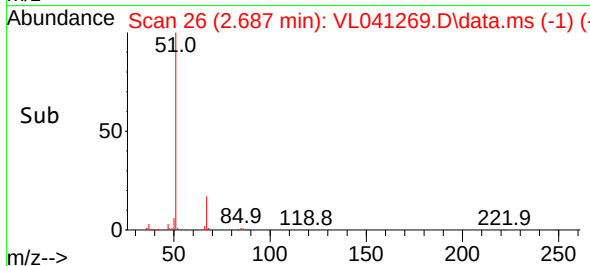
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 420549
Ion Ratio Lower Upper
51 100
67 17.0 14.0 21.0

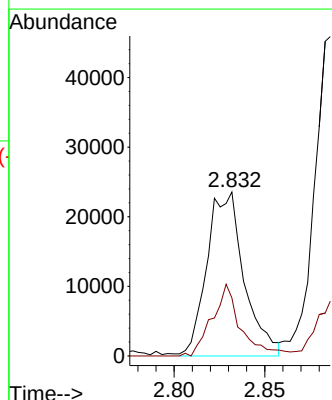
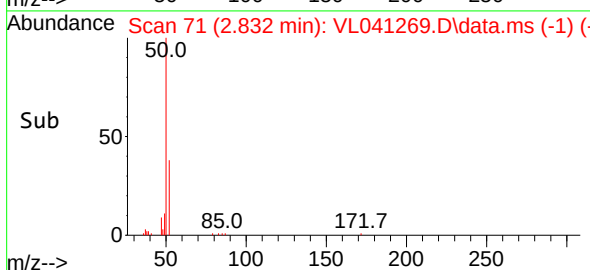
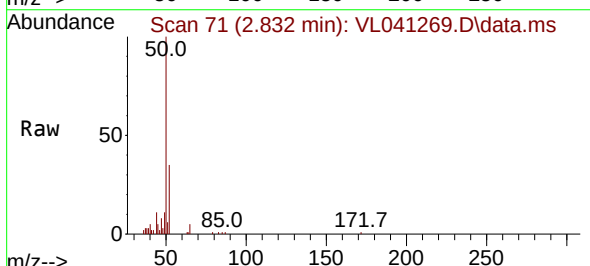
Manual Integrations
APPROVED

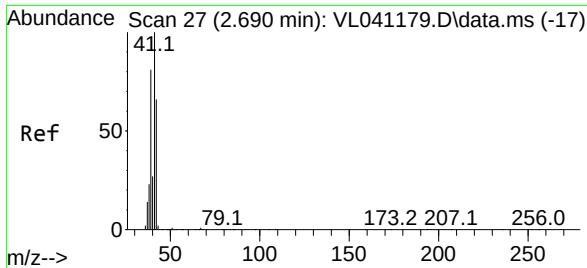
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#4
Chloromethane
Concen: 0.635 ppbv m
RT: 2.832 min Scan# 71
Delta R.T. 0.000 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

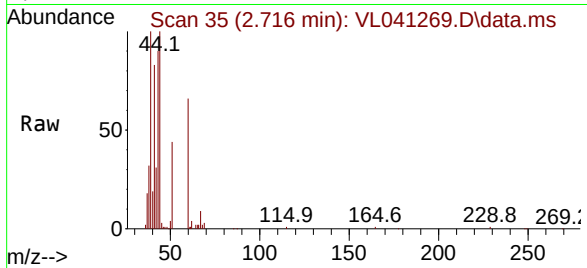
Tgt Ion: 50 Resp: 33552
Ion Ratio Lower Upper
50 100
52 35.5 28.3 42.5





#9
Propene
Concen: 1.342 ppbv m
RT: 2.716 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

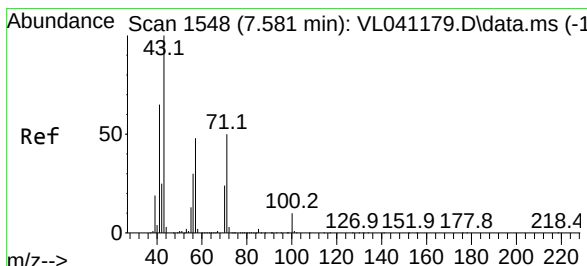
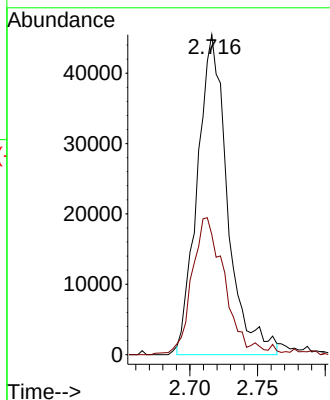
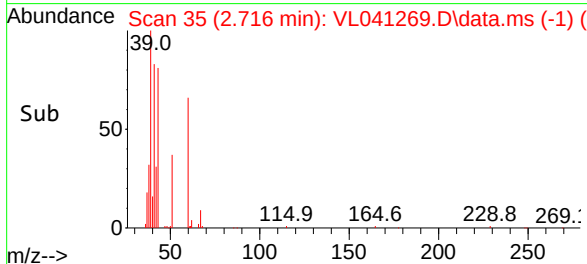
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 41 Resp: 7070
Ion Ratio Lower Upper
41 100
42 2134.7 55.3 82.9

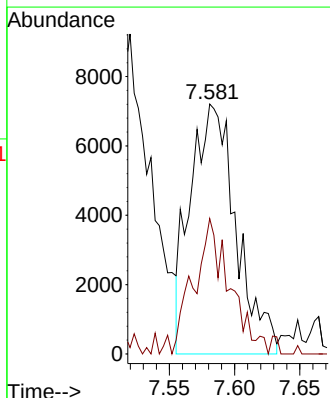
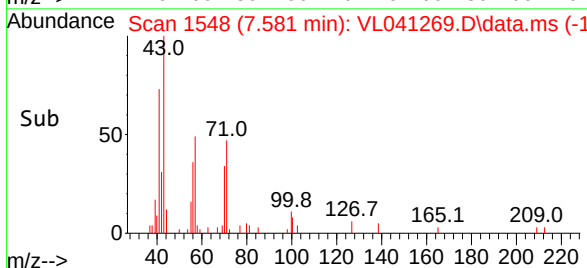
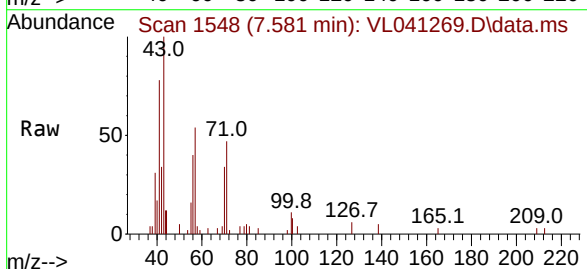
Manual Integrations
APPROVED

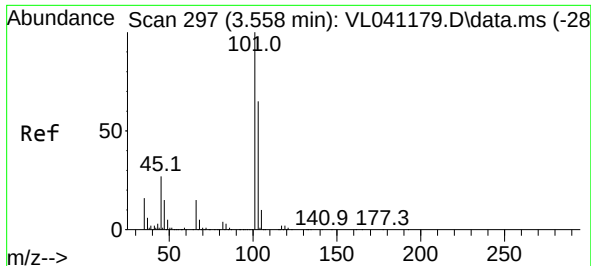
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#10
Heptane
Concen: 0.138 ppbv m
RT: 7.581 min Scan# 1548
Delta R.T. -0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

Tgt Ion: 43 Resp: 17602
Ion Ratio Lower Upper
43 100
57 44.5 38.7 58.1





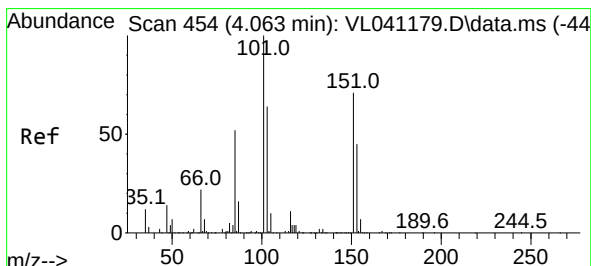
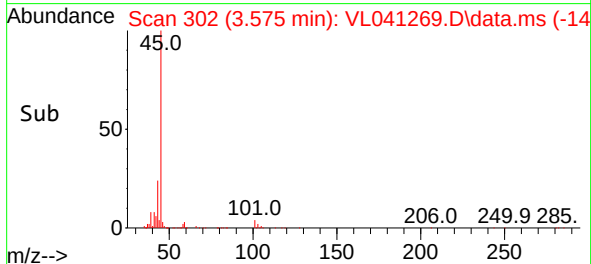
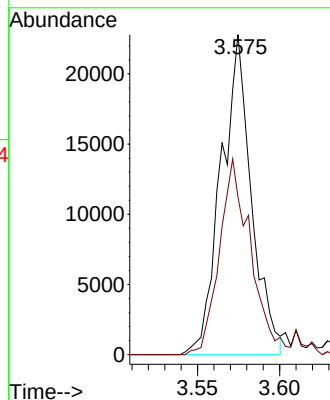
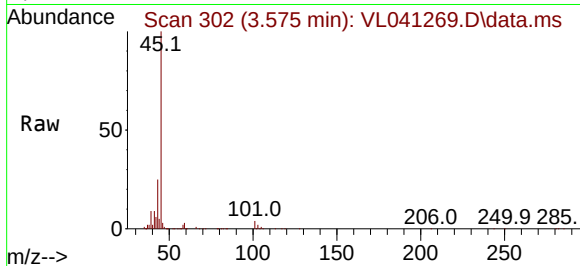
#11
Trichlorofluoromethane
Concen: 0.240 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.000 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:101 Resp: 2928
Ion Ratio Lower Upper
101 100
103 49.3 51.6 77.4

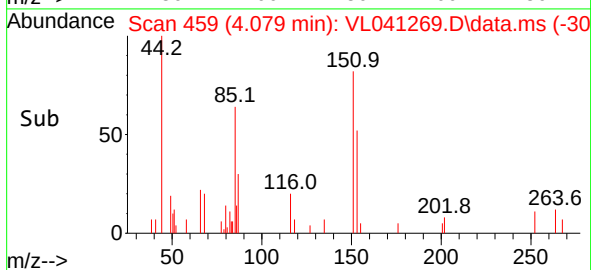
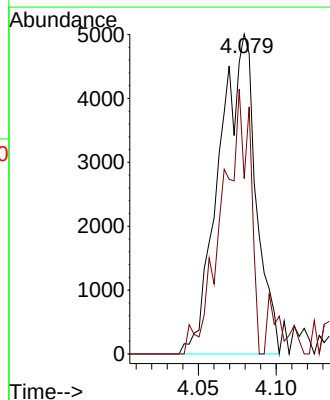
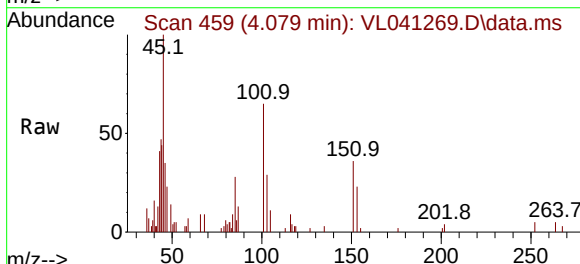
Manual Integrations
APPROVED

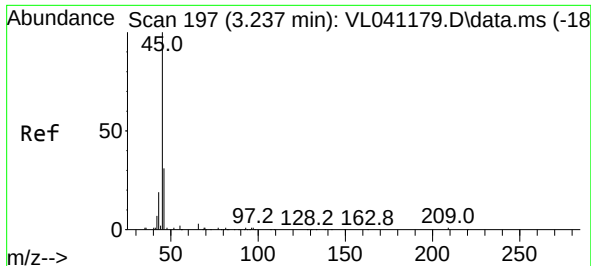
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.092 ppbv m
RT: 4.079 min Scan# 459
Delta R.T. 0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

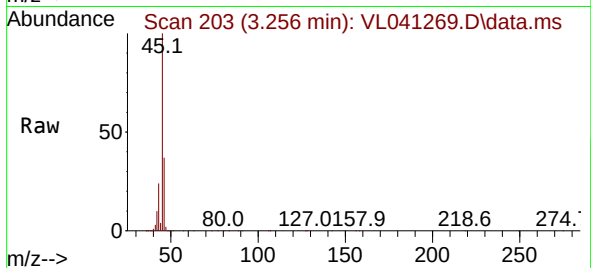
Tgt Ion:101 Resp: 8267
Ion Ratio Lower Upper
101 100
151 70.4 56.8 85.2





#13
Ethanol
Concen: 570.978 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

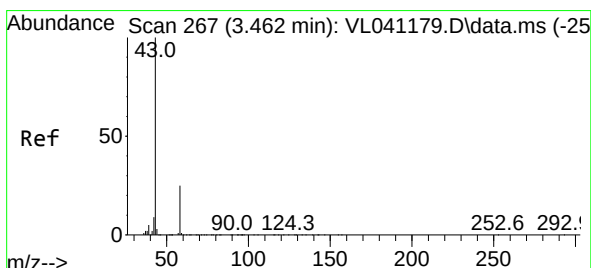
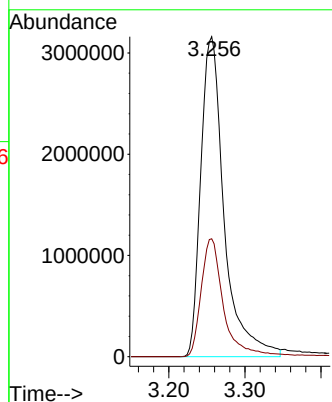
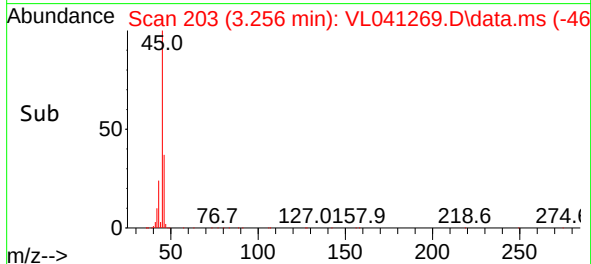
Instrument :
MSVOA_L
ClientSampleId :
IA1



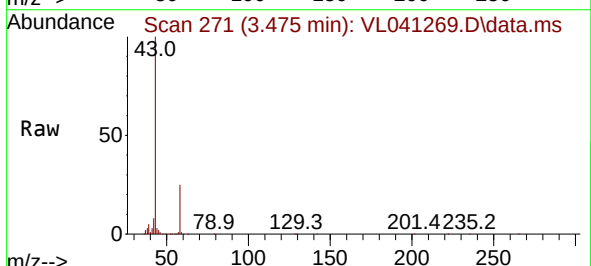
Tgt Ion: 45 Resp: 6742354
Ion Ratio Lower Upper
45 100
46 36.6 14.8 59.0

Manual Integrations
APPROVED

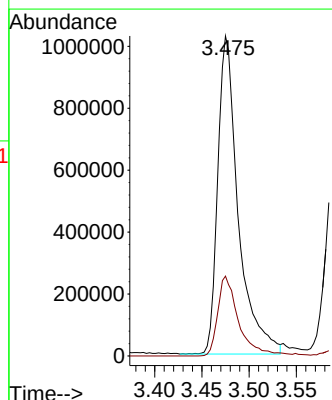
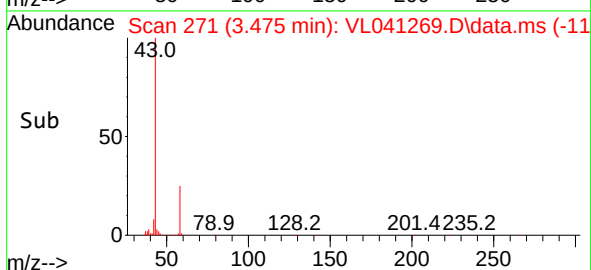
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

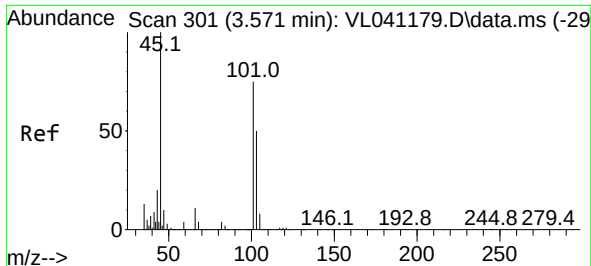


#15
Acetone
Concen: 14.805 ppbv
RT: 3.475 min Scan# 271
Delta R.T. -0.006 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33



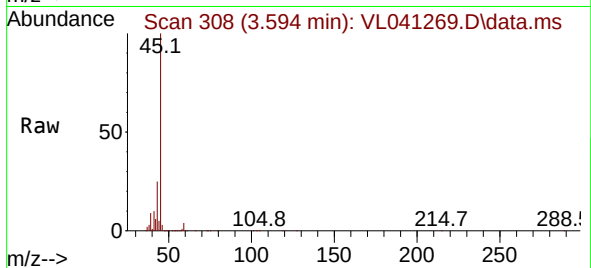
Tgt Ion: 43 Resp: 1548508
Ion Ratio Lower Upper
43 100
58 26.0 21.4 32.0





#19
Isopropyl Alcohol
Concen: 81.098 ppbv
RT: 3.594 min Scan# 301
Delta R.T. 0.006 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

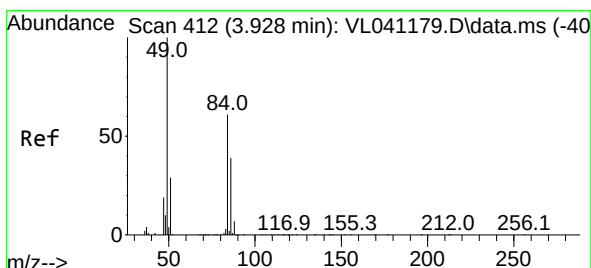
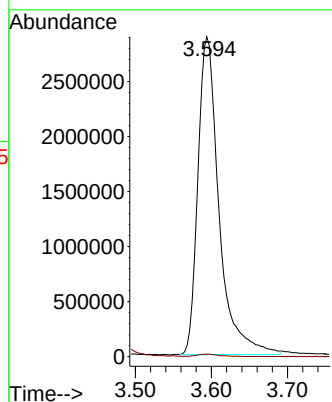
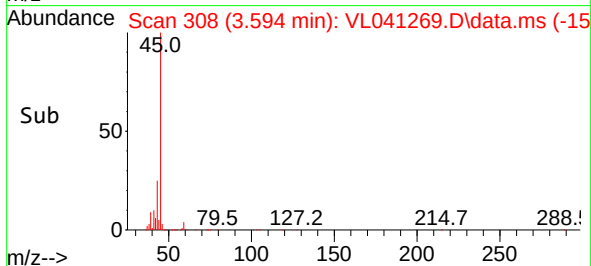
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 5566104
Ion Ratio Lower Upper
45 100
58 1.0 26.8 40.2

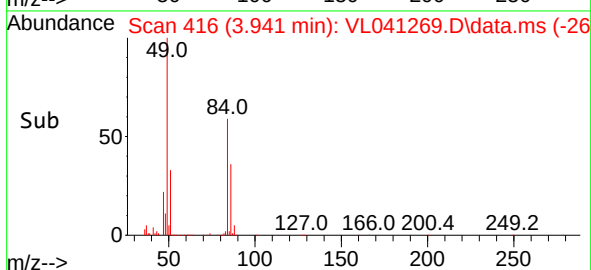
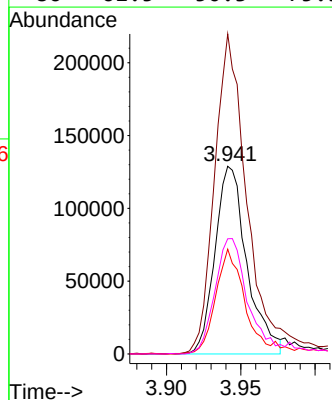
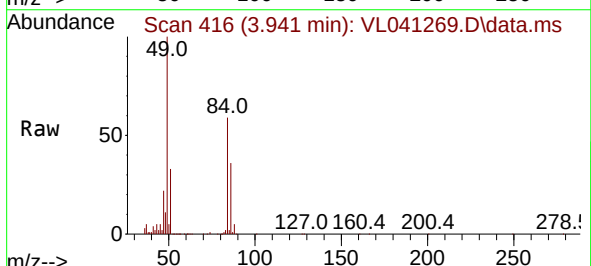
Manual Integrations
APPROVED

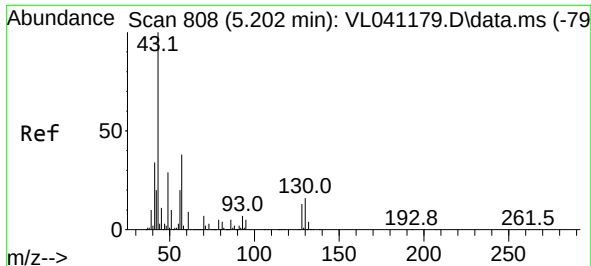
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#20
Methylene Chloride
Concen: 5.309 ppbv
RT: 3.941 min Scan# 416
Delta R.T. -0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

Tgt Ion: 84 Resp: 193090
Ion Ratio Lower Upper
84 100
49 170.5 130.4 195.6
51 55.6 38.0 57.0
86 61.5 50.3 75.5





#25

Ethyl Acetate

Concen: 3.431 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.003 min

Lab File: VL041269.D

Acq: 21 May 2024 17:33

Instrument :

MSVOA_L

ClientSampleId :

IA1

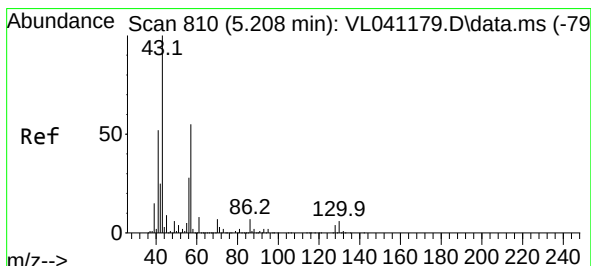
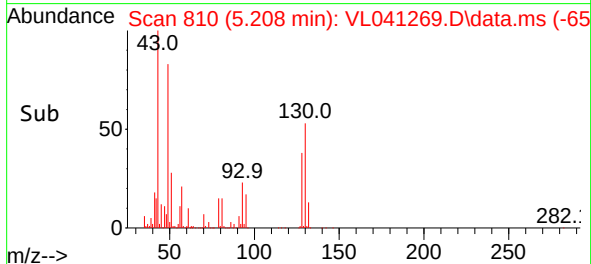
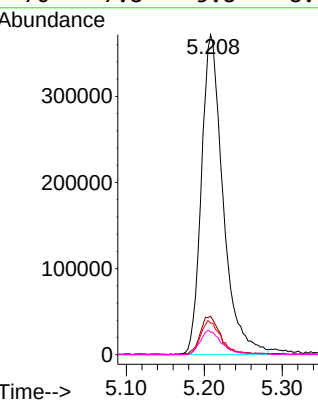
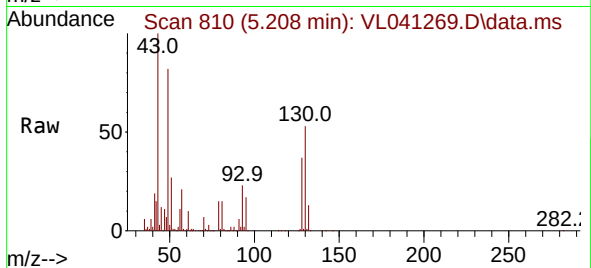
Tgt Ion: 43 Resp: 716262

Ion	Ratio	Lower	Upper
43	100		
45	12.0	8.2	12.2
61	10.3	7.7	11.5
70	7.8	5.8	8.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#26

Hexane

Concen: 2.214 ppbv

RT: 5.218 min Scan# 813

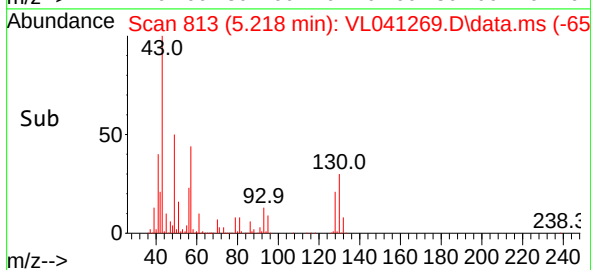
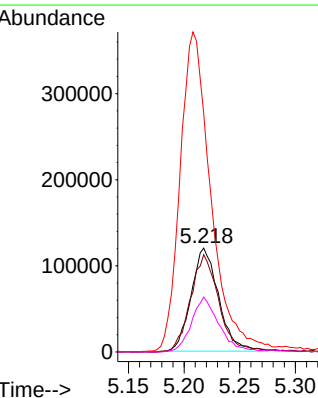
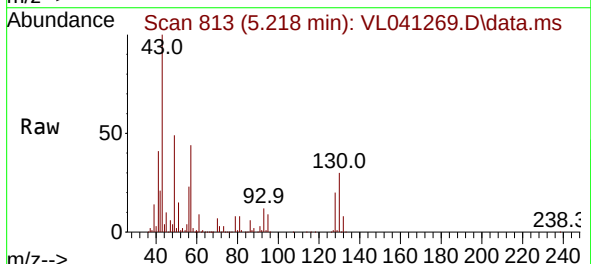
Delta R.T. -0.003 min

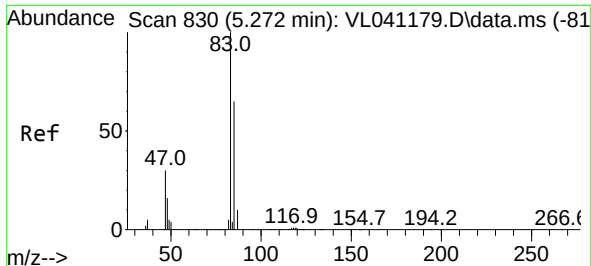
Lab File: VL041269.D

Acq: 21 May 2024 17:33

Tgt Ion: 57 Resp: 206228

Ion	Ratio	Lower	Upper
57	100		
41	99.6	75.8	113.8
43	352.6	187.0	280.4#
56	54.8	42.7	64.1





#29

Chloroform

Concen: 0.195 ppbv m

RT: 5.282 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL041269.D

Acq: 21 May 2024 17:33

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 25000

Ion Ratio Lower Upper

83 100

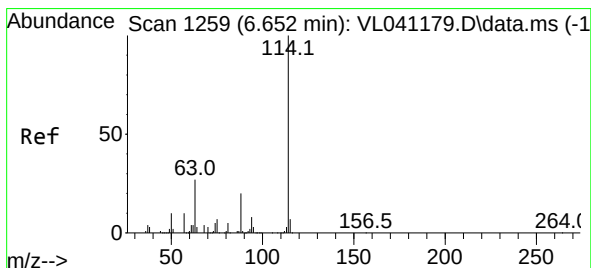
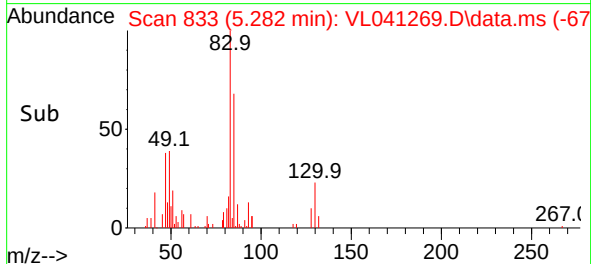
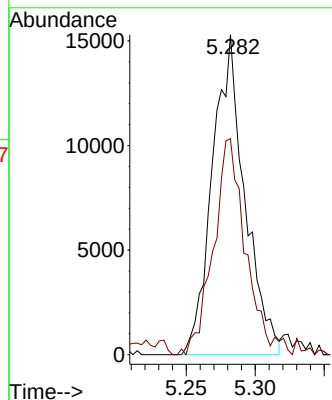
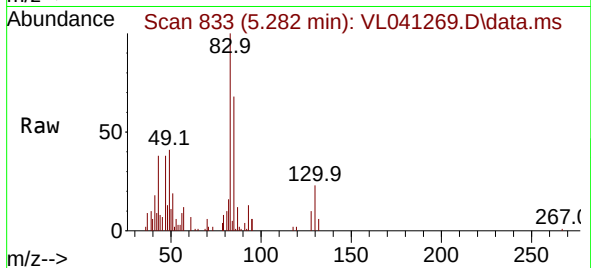
85 67.5 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024

Supervised By :Mahesh Dadoda 05/22/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. 0.000 min

Lab File: VL041269.D

Acq: 21 May 2024 17:33

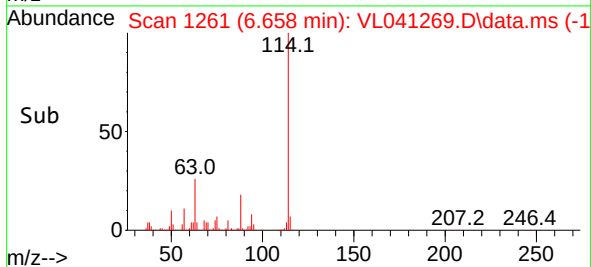
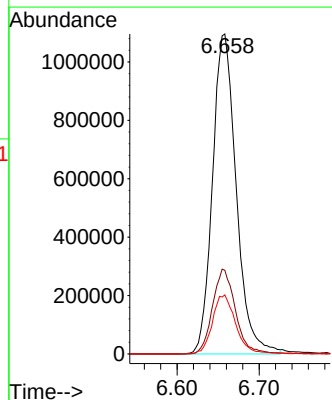
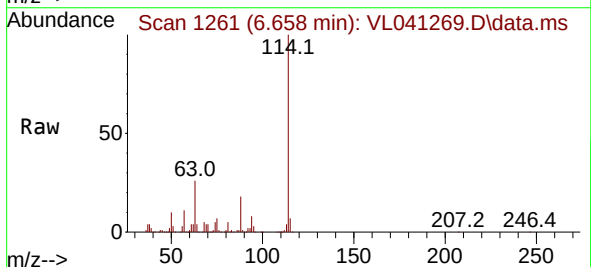
Tgt Ion:114 Resp: 2203521

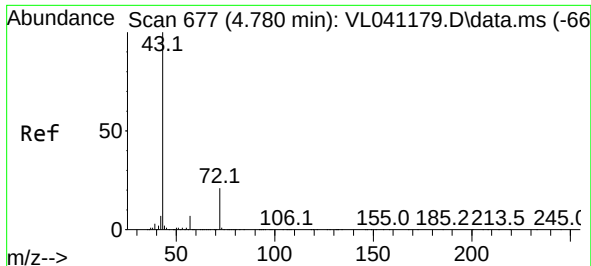
Ion Ratio Lower Upper

114 100

63 25.9 21.8 32.6

88 18.2 15.2 22.8





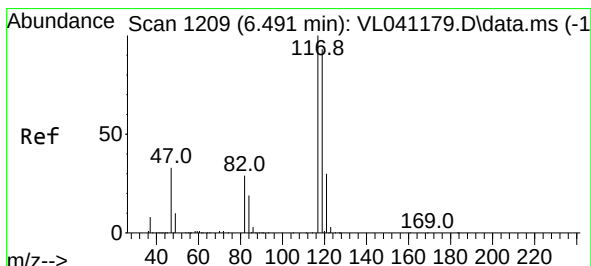
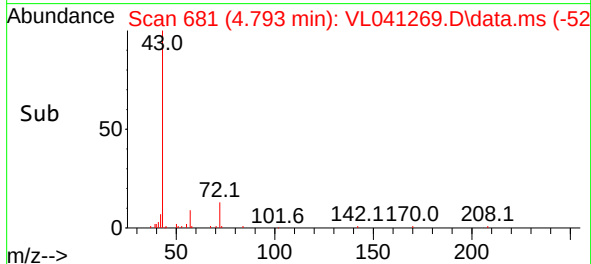
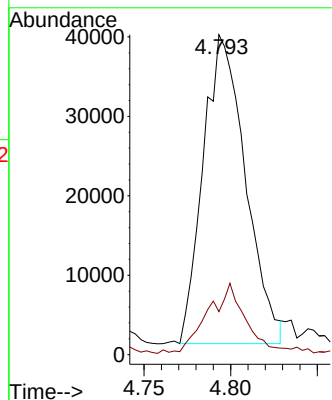
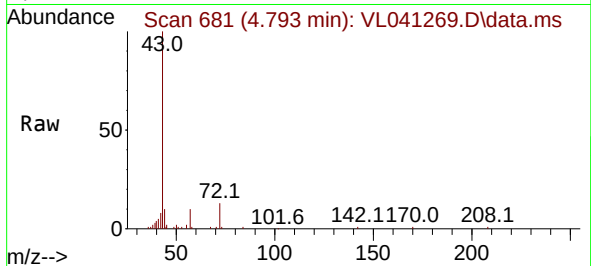
#34
2-Butanone
Concen: 0.589 ppbv
RT: 4.793 min Scan# 60
Delta R.T. 0.000 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 66018
Ion Ratio Lower Upper
43 100
72 23.0 17.3 25.9

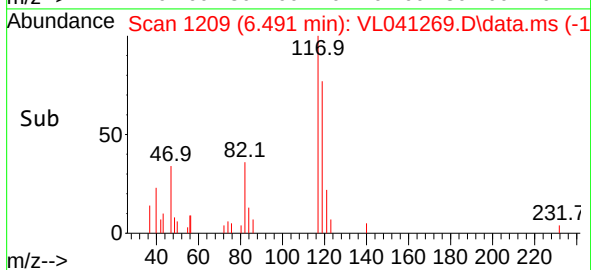
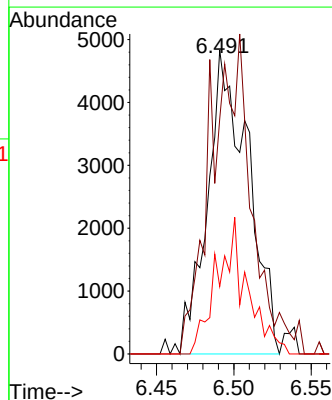
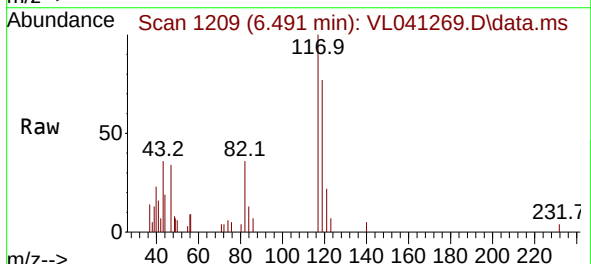
Manual Integrations
APPROVED

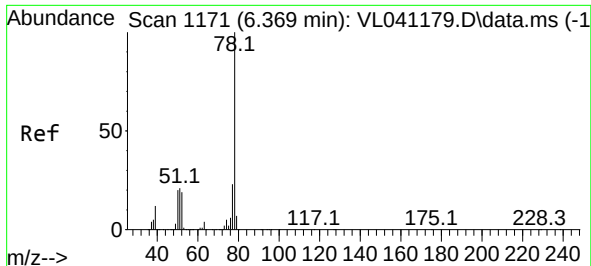
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 6.491 min Scan# 1209
Delta R.T. -0.006 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

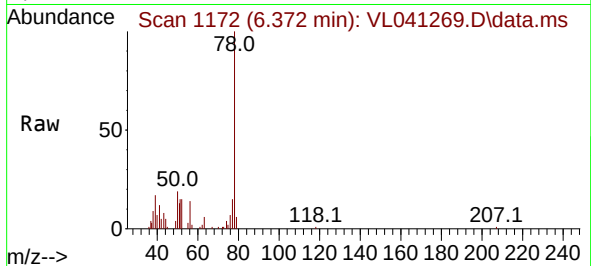
Tgt Ion:117 Resp: 8827
Ion Ratio Lower Upper
117 100
119 77.3 74.3 111.5
121 22.2 23.8 35.8#





#36
Benzene
Concen: 0.235 ppbv
RT: 6.372 min Scan# 1171
Delta R.T. -0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

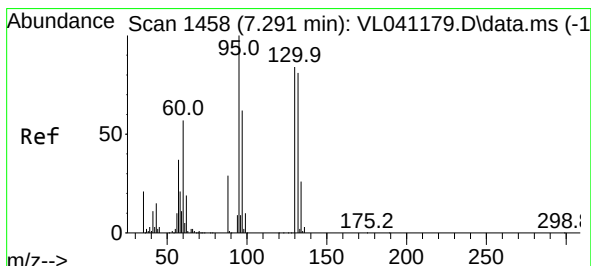
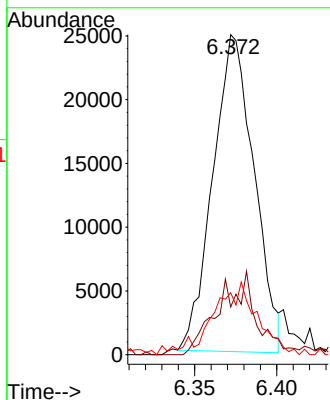
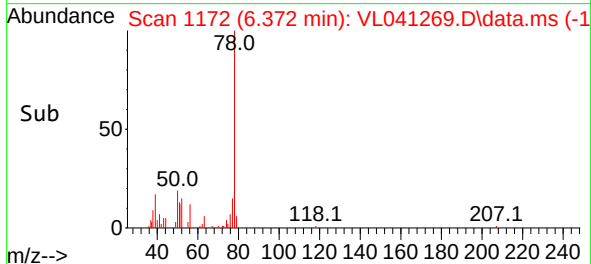
Instrument :
MSVOA_L
ClientSampleId :
IA1



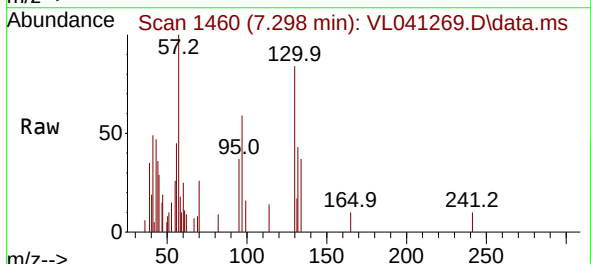
Tgt Ion: 78 Resp: 4338
Ion Ratio Lower Upper
78 100
77 15.1 18.3 27.5
50 18.0 15.9 23.9

Manual Integrations
APPROVED

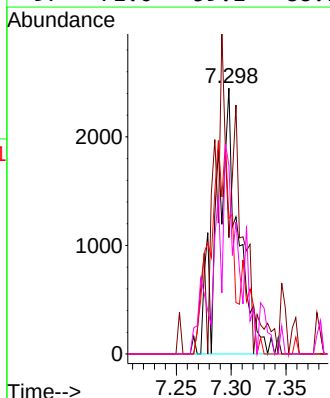
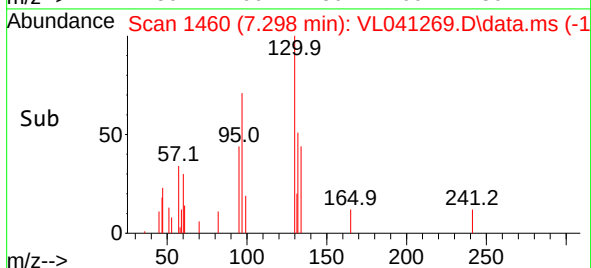
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

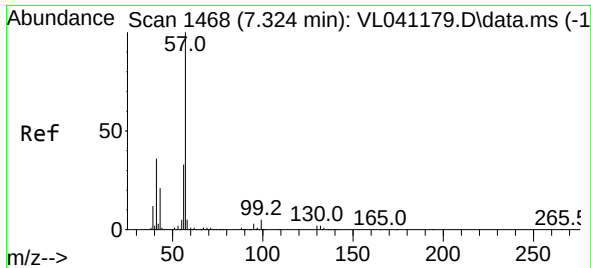


#38
Trichloroethene
Concen: 0.049 ppbv m
RT: 7.298 min Scan# 1460
Delta R.T. 0.006 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33



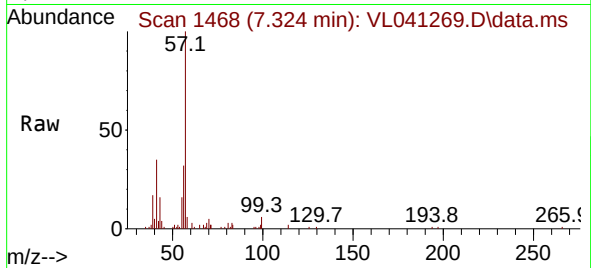
Tgt Ion:130 Resp: 3343
Ion Ratio Lower Upper
130 100
95 43.8 95.0 142.6#
132 51.0 77.0 115.4#
97 71.0 59.1 88.7





#44
2,2,4-Trimethylpentane
Concen: 0.196 ppbv m
RT: 7.324 min Scan# 1468
Delta R.T. -0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

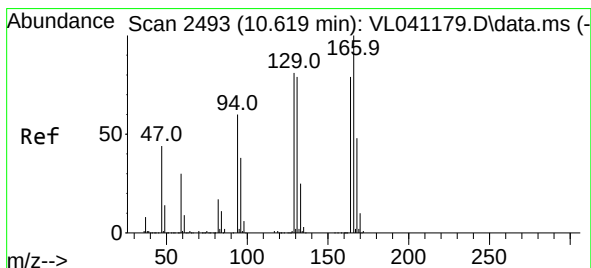
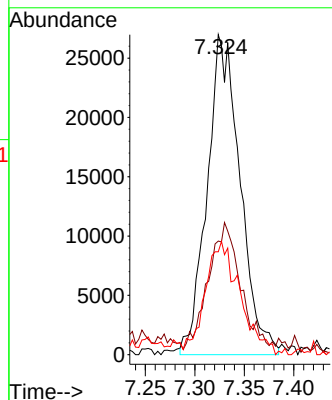
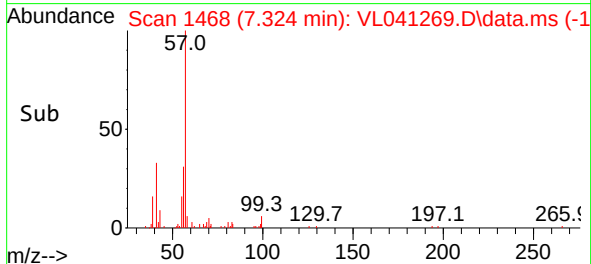
Instrument :
MSVOA_L
ClientSampleId :
IA1



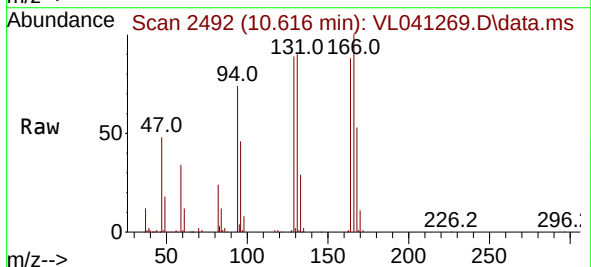
Tgt Ion: 57 Resp: 62488
Ion Ratio Lower Upper
57 100
41 42.6 29.5 44.3
56 39.2 25.3 37.9

Manual Integrations
APPROVED

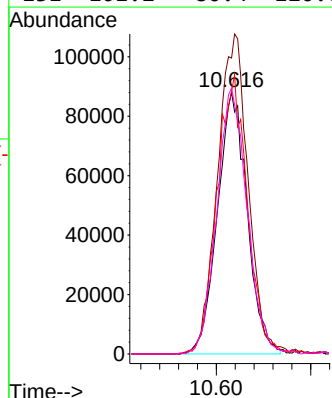
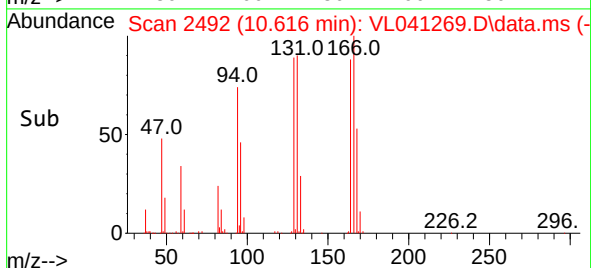
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

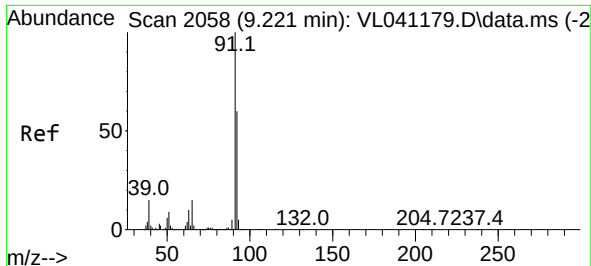


#52
Tetrachloroethene
Concen: 2.952 ppbv
RT: 10.616 min Scan# 2492
Delta R.T. 0.000 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33



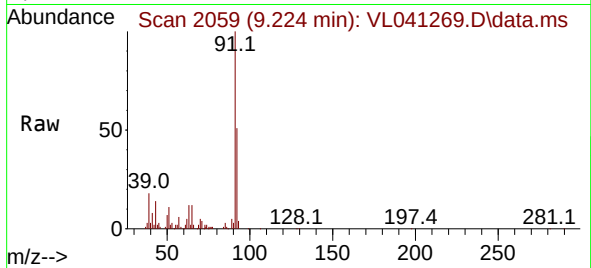
Tgt Ion:164 Resp: 191863
Ion Ratio Lower Upper
164 100
166 113.0 101.1 151.7
129 100.3 81.7 122.5
131 101.2 80.4 120.6





#53
Toluene
Concen: 0.760 ppbv
RT: 9.224 min Scan# 2058
Delta R.T. 0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

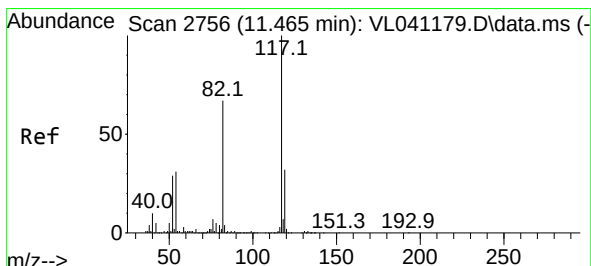
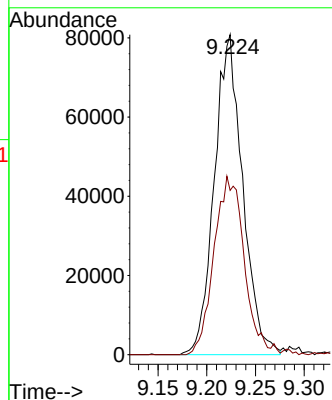
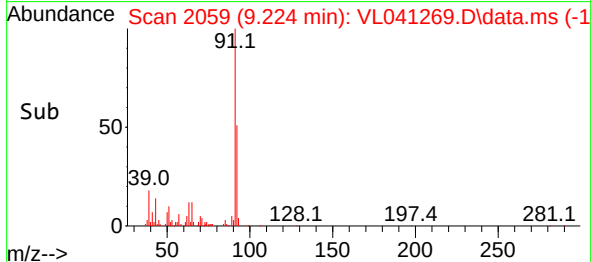
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 16302
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.4

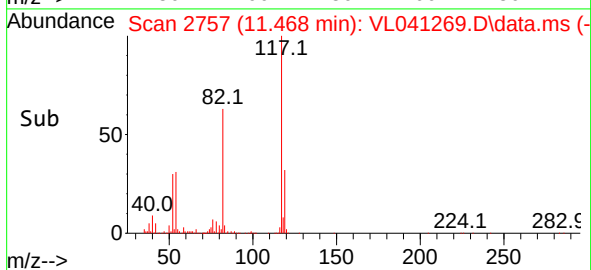
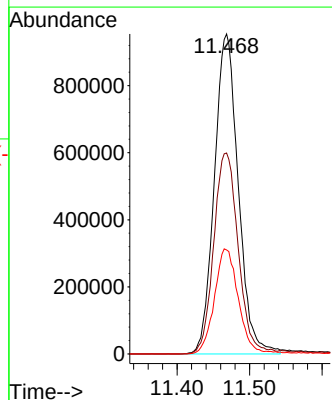
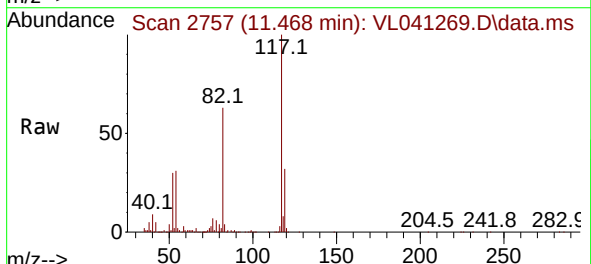
Manual Integrations
APPROVED

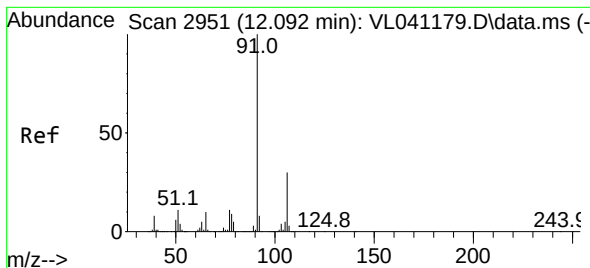
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

Tgt Ion:117 Resp: 2187359
Ion Ratio Lower Upper
117 100
82 65.8 53.6 80.4
119 33.1 27.2 40.8





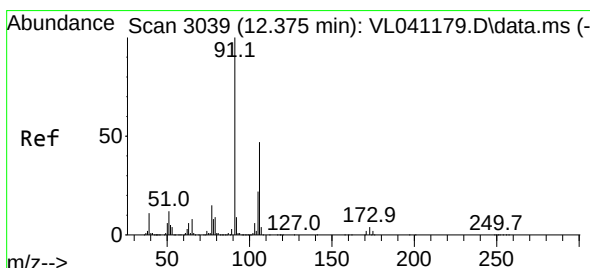
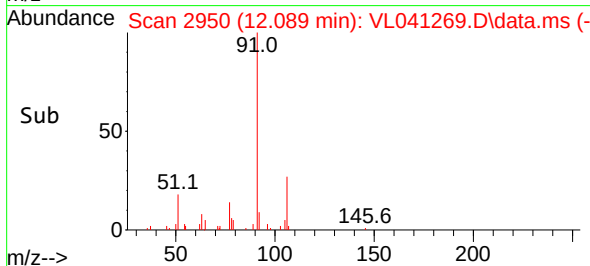
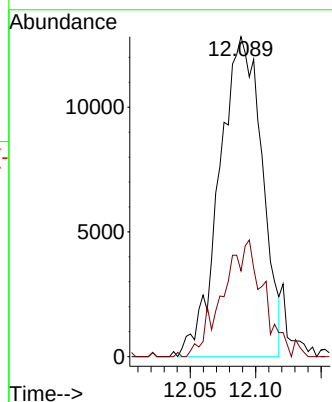
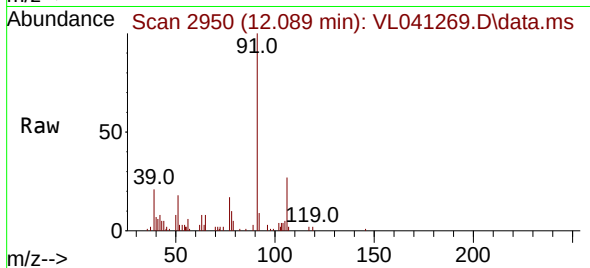
#58
Ethyl Benzene
Concen: 0.097 ppbv m
RT: 12.089 min Scan# 2951
Delta R.T. 0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 2901
Ion Ratio Lower Upper
91 100
106 26.8 24.3 36.5

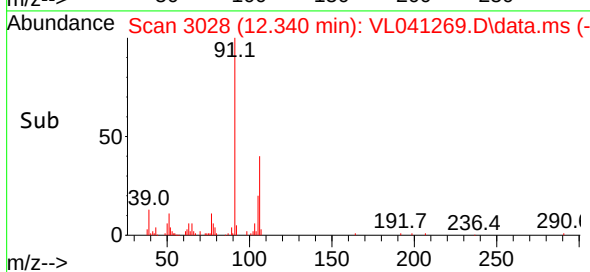
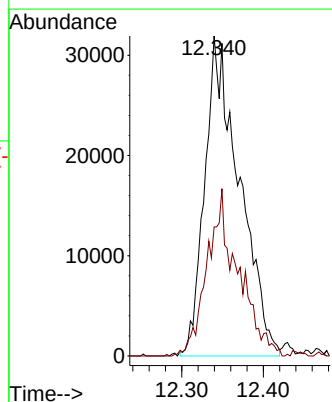
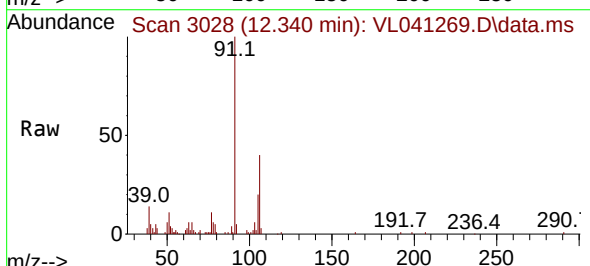
Manual Integrations
APPROVED

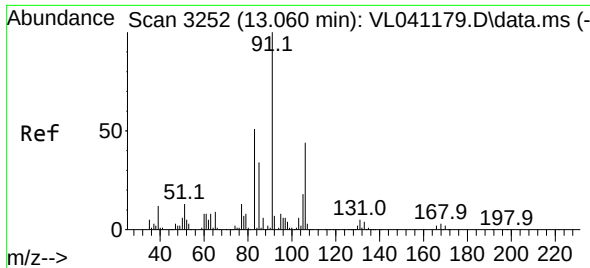
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#59
m/p-Xylene
Concen: 0.374 ppbv m
RT: 12.340 min Scan# 3028
Delta R.T. -0.026 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

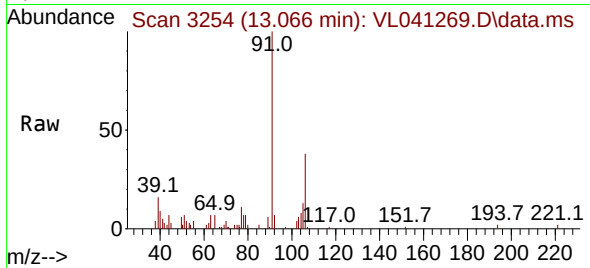
Tgt Ion: 91 Resp: 94300
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#





#60
o-Xylene
Concen: 0.158 ppbv m
RT: 13.066 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

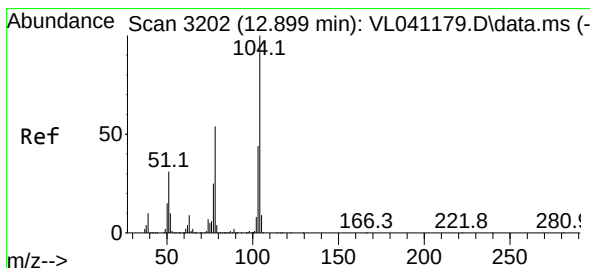
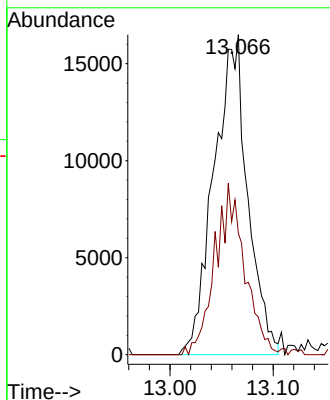
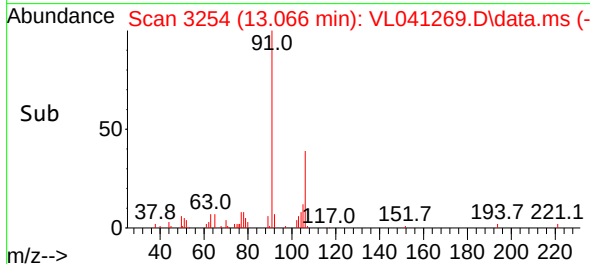
Instrument :
MSVOA_L
ClientSampleId :
IA1



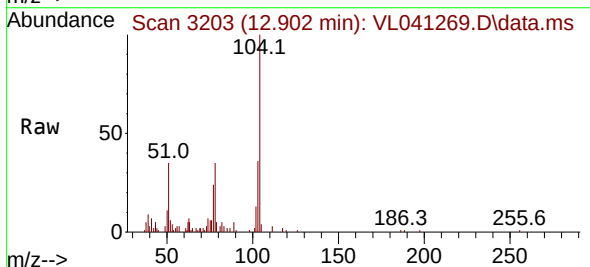
Tgt Ion: 91 Resp: 3736
Ion Ratio Lower Upper
91 100
106 47.7 22.4 67.3

Manual Integrations
APPROVED

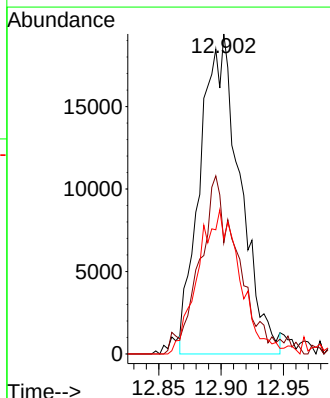
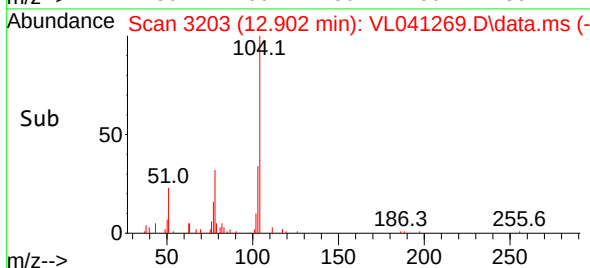
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

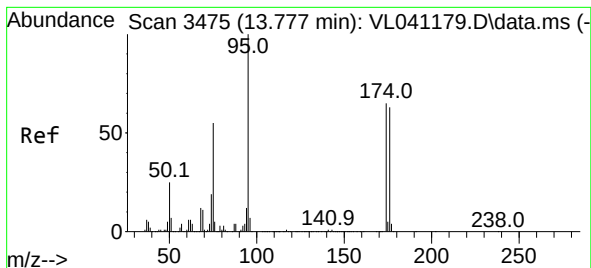


#61
Styrene
Concen: 0.347 ppbv m
RT: 12.902 min Scan# 3203
Delta R.T. 0.010 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33



Tgt Ion:104 Resp: 43308
Ion Ratio Lower Upper
104 100
78 54.4 42.6 63.8
103 47.1 38.4 57.6





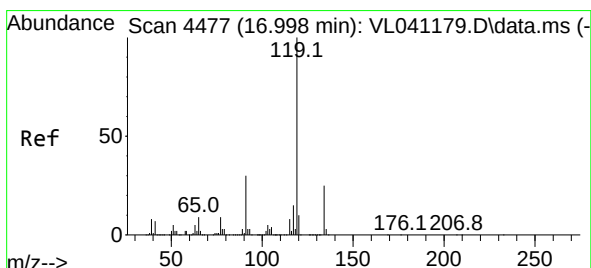
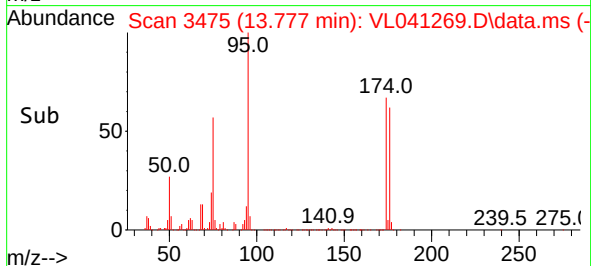
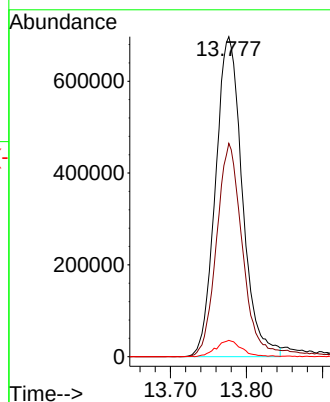
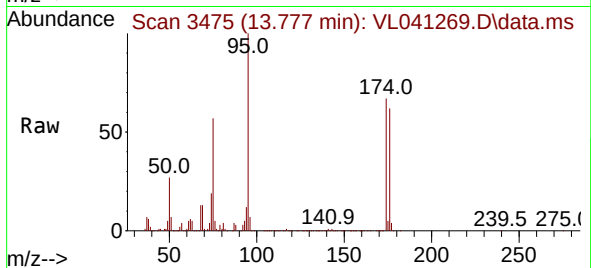
#68
1-Bromo-4-Fluorobenzene
Concen: 10.343 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 95 Resp: 170801
Ion Ratio Lower Upper
95 100
174 66.7 53.6 80.4
175 5.0 4.2 6.4

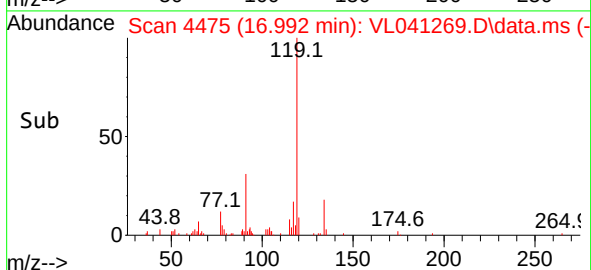
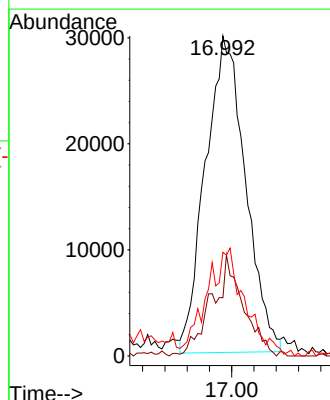
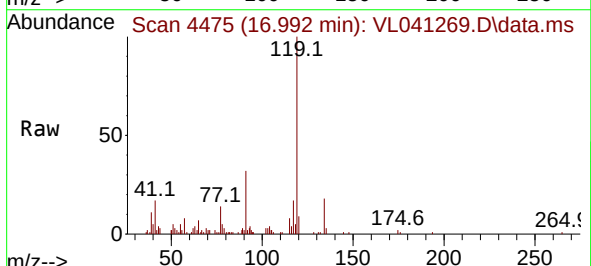
Manual Integrations
APPROVED

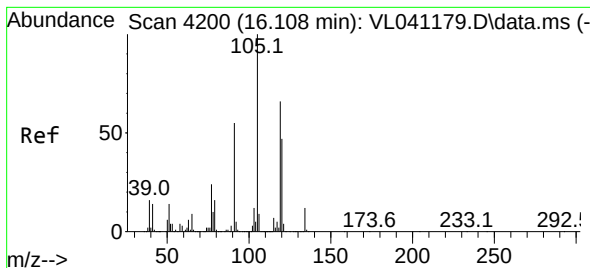
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#69
p-Isopropyltoluene
Concen: 0.203 ppbv
RT: 16.992 min Scan# 4475
Delta R.T. 0.003 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

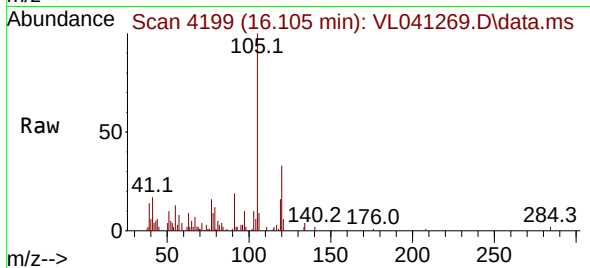
Tgt Ion:119 Resp: 74463
Ion Ratio Lower Upper
119 100
134 26.2 20.1 30.1
91 34.5 24.2 36.2





#74
1,2,4-Trimethylbenzene
Concen: 0.144 ppbv
RT: 16.105 min Scan# 4199
Delta R.T. 0.000 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

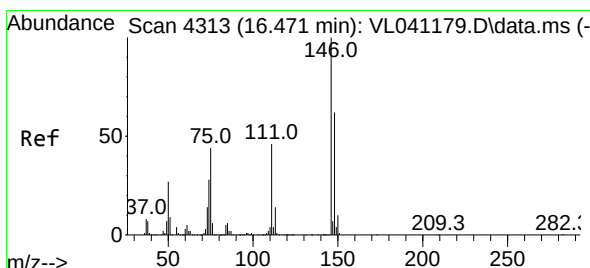
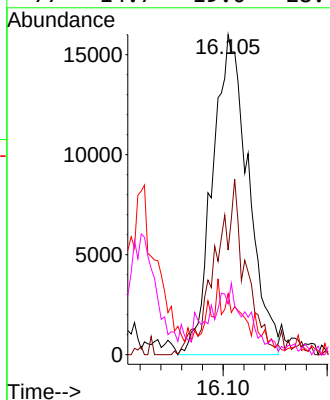
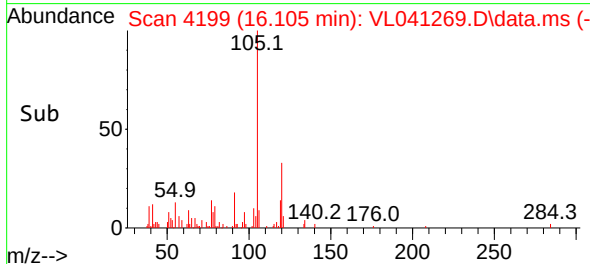
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.7	37.8	56.6
91	16.1	44.3	66.5
77	14.7	19.0	28.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#76
1,4-Dichlorobenzene
Concen: 0.255 ppbv
RT: 16.474 min Scan# 4314
Delta R.T. 0.006 min
Lab File: VL041269.D
Acq: 21 May 2024 17:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	51.0	23.3	69.8
148	66.0	32.6	97.7

