

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
 Data File : VL041569.D
 Acq On : 21 Aug 2024 16:15
 Operator : SY/MD
 Sample : P3709-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024

Quant Time: Aug 22 01:13:17 2024

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 22 01:13:17 2024

QLast Update : Thu Aug 22 01:05:17 2024

Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		5.198	49	985560	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.655	114	2599985	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.465	117	2331006	10.000	ppbv	# 0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.773	95	1795895	10.011	ppbv	0.00
Spiked Amount 10.000		Range 65	- 135	Recovery	= 100.100%		
Target Compounds							Qvalue
2) Dichlorodifluoromethane		2.748	85	32230	0.190	ppbv	99
3) Chlorodifluoromethane		2.693	51	90750m	0.773	ppbv	
4) Chloromethane		2.832	50	37519	0.601	ppbv	95
9) Propene		2.726	41	255351	4.738	ppbv #	64
11) Trichlorofluoromethane		3.574	101	35582	0.236	ppbv #	76
13) Ethanol		3.250	45	1749419	363.161	ppbv	96
15) Acetone		3.484	43	502495	4.487	ppbv	98
19) Isopropyl Alcohol		3.594	45	77955	1.191	ppbv #	87
20) Methylene Chloride		3.944	84	218872	5.241	ppbv	97
26) Hexane		5.221	57	224221	2.430	ppbv #	41
29) Chloroform		5.279	83	259042	1.721	ppbv	91
34) 2-Butanone		4.803	43	63570	0.505	ppbv	94
35) Carbon Tetrachloride		6.494	117	9227m	0.064	ppbv	
36) Benzene		6.378	78	31682	0.167	ppbv #	88
42) Bromodichloromethane		7.253	83	18190	0.118	ppbv #	88
51) 2-Hexanone		9.571	43	43967m	0.293	ppbv	
52) Tetrachloroethene		10.609	164	6963m	0.095	ppbv	
53) Toluene		9.224	91	40725m	0.192	ppbv	
76) 1,4-Dichlorobenzene		16.474	146	83638	0.531	ppbv	91

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

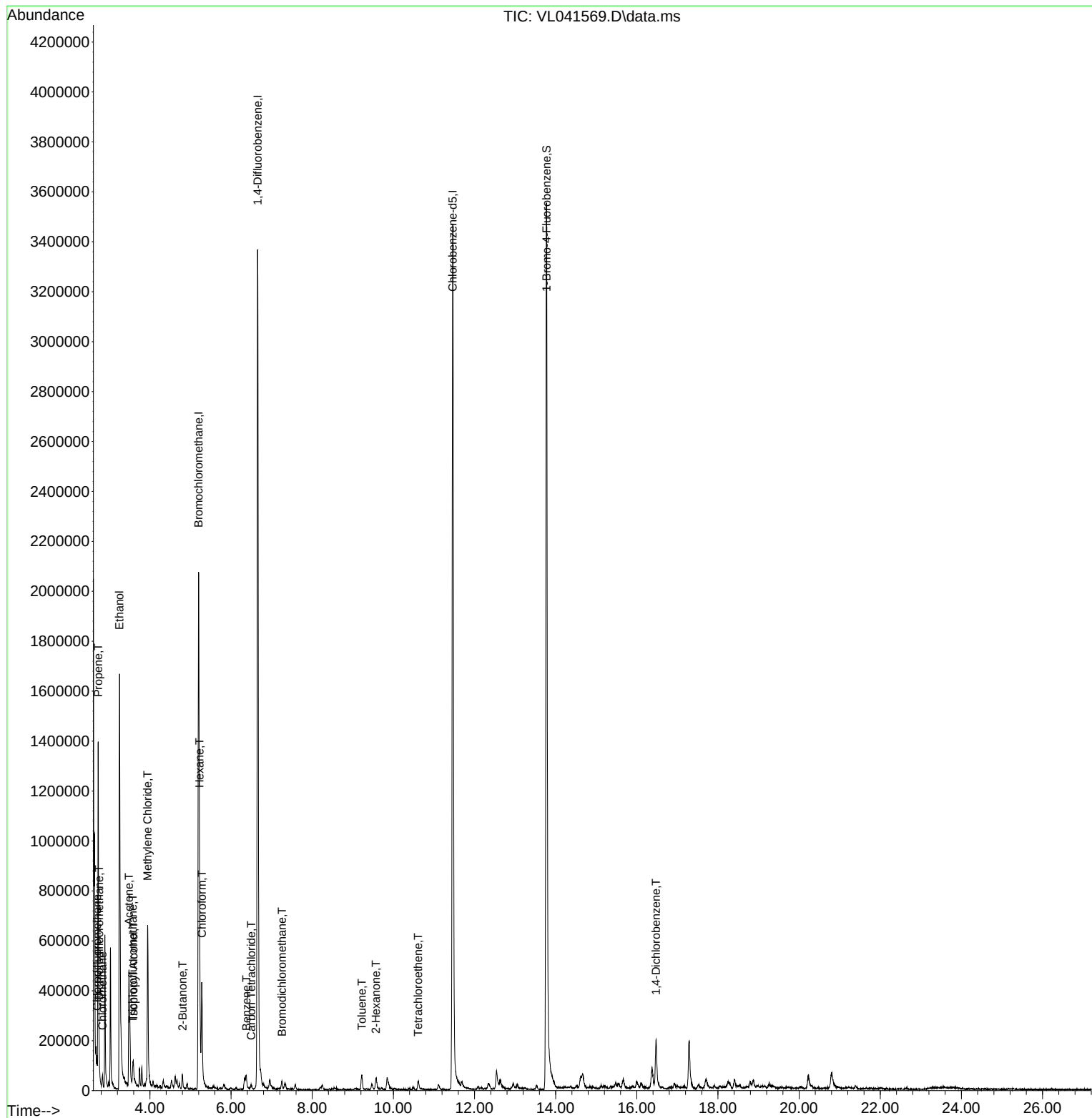
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
Data File : VL041569.D
Acq On : 21 Aug 2024 16:15
Operator : SY/MD
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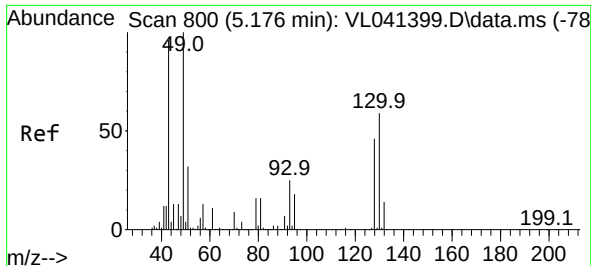
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Aug 22 01:13:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 22 01:05:17 2024
Response via : Initial Calibration

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APPROVED

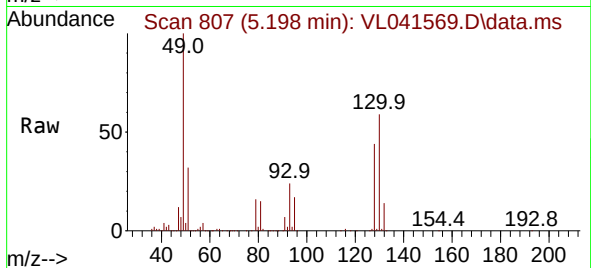
Reviewed By : Semsettin Yesilyurt 08/23/2024
Supervised By : Mahesh Dadoda 08/23/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

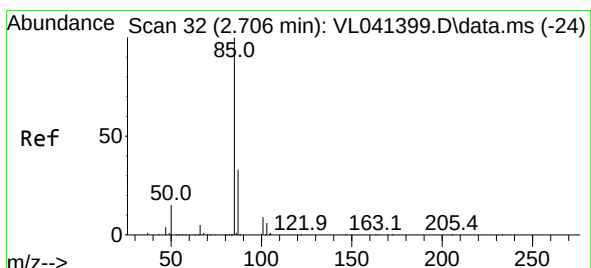
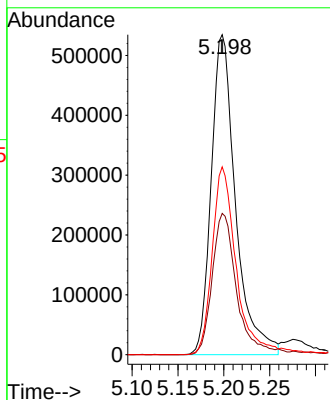
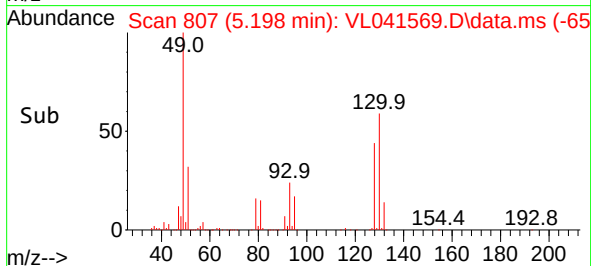
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 985560
Ion Ratio Lower Upper
49 100
128 45.8 23.8 71.4
130 59.7 30.8 92.4

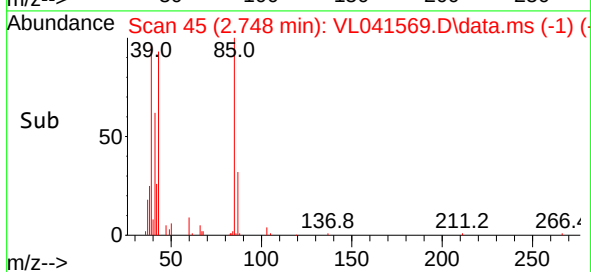
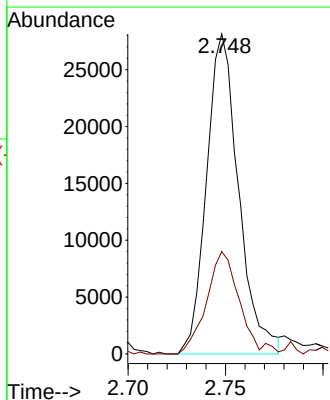
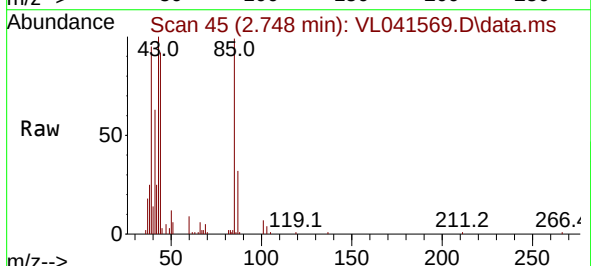
Manual Integrations
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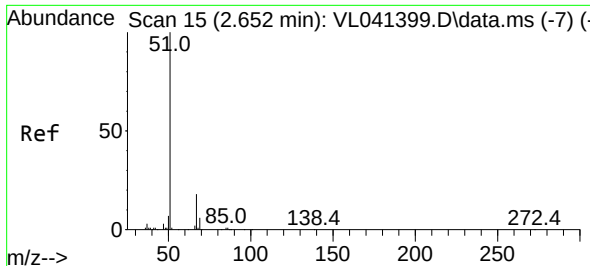
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#2
Dichlorodifluoromethane
Concen: 0.190 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

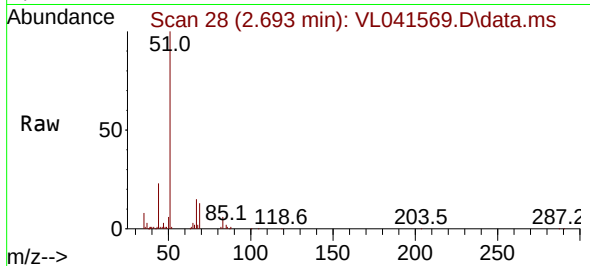
Tgt Ion: 85 Resp: 32230
Ion Ratio Lower Upper
85 100
87 32.0 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.773 ppbv m
RT: 2.693 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

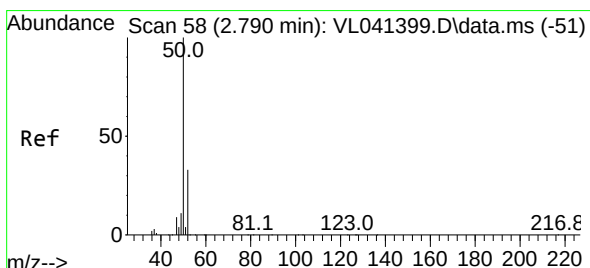
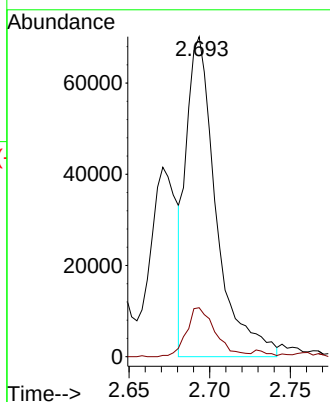
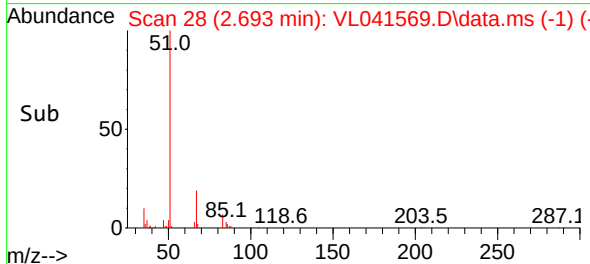
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 90750
Ion Ratio Lower Upper
51 100
67 16.0 14.5 21.7

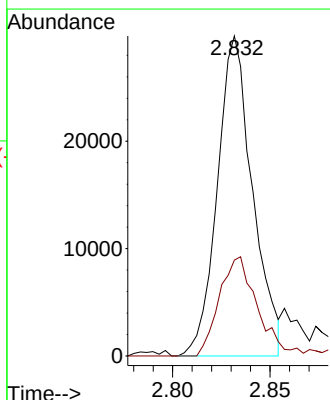
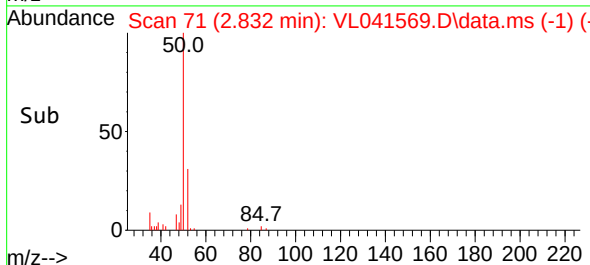
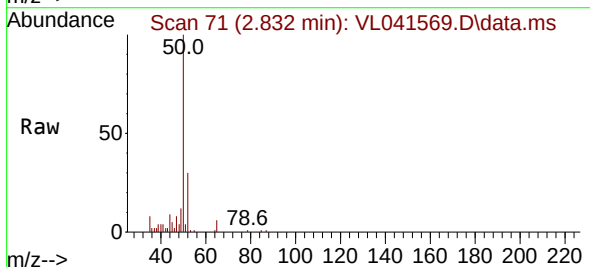
Manual Integrations
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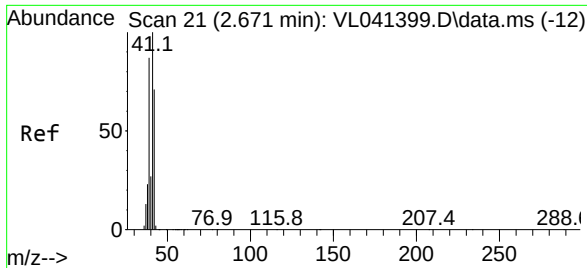
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#4
Chloromethane
Concen: 0.601 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

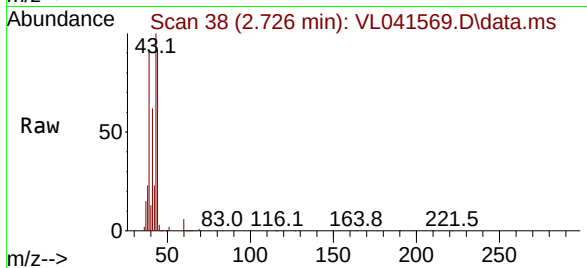
Tgt Ion: 50 Resp: 37519
Ion Ratio Lower Upper
50 100
52 30.0 26.1 39.1





#9
 Propene
 Concen: 4.738 ppbv
 RT: 2.726 min Scan# 301
 Delta R.T. 0.019 min
 Lab File: VL041569.D
 Acq: 21 Aug 2024 16:15

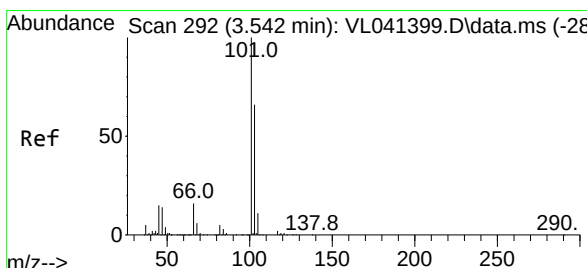
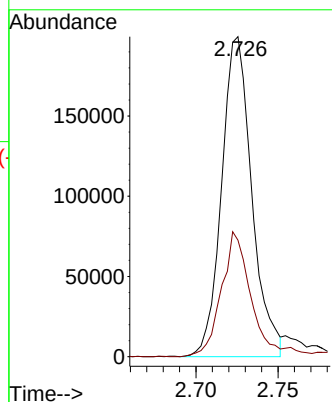
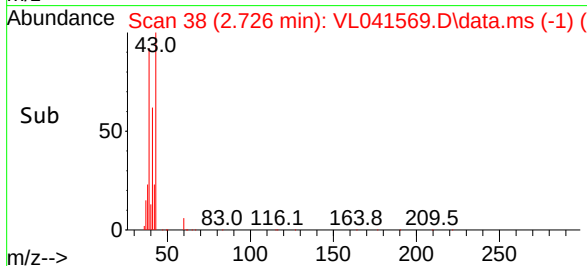
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 41 Resp: 25535
 Ion Ratio Lower Upper
 41 100
 42 40.3 55.9 83.9

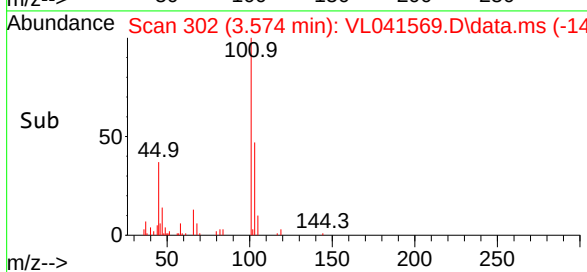
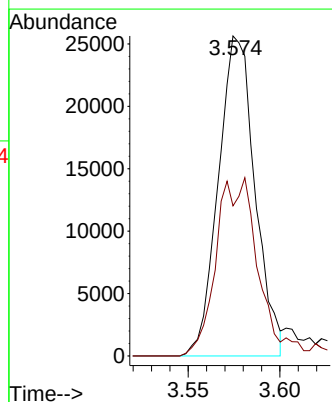
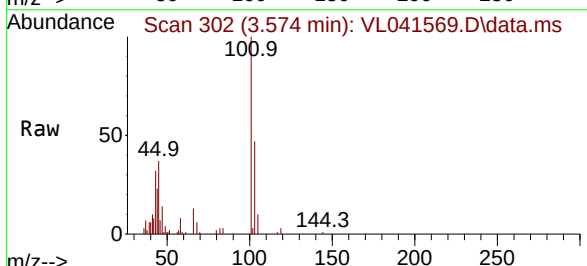
Manual Integrations
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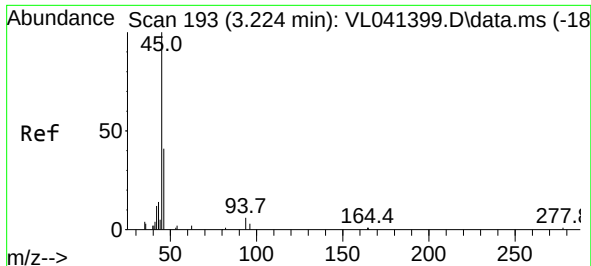
Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024



#11
 Trichlorofluoromethane
 Concen: 0.236 ppbv
 RT: 3.574 min Scan# 302
 Delta R.T. 0.003 min
 Lab File: VL041569.D
 Acq: 21 Aug 2024 16:15

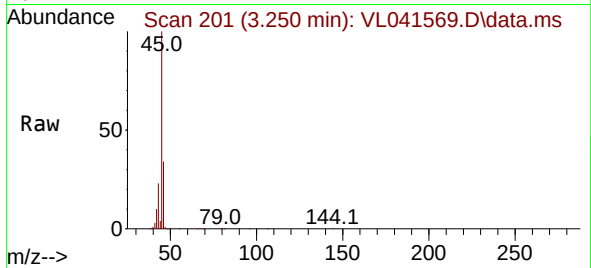
Tgt Ion:101 Resp: 35582
 Ion Ratio Lower Upper
 101 100
 103 46.9 52.6 79.0





#13
Ethanol
Concen: 363.161 ppbv
RT: 3.250 min Scan# 201
Delta R.T. -0.010 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

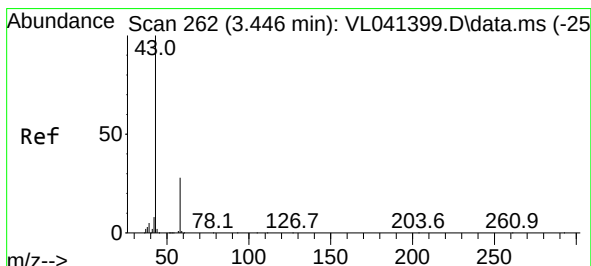
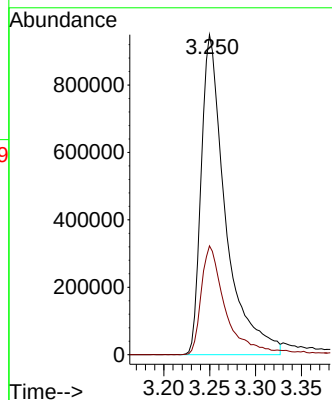
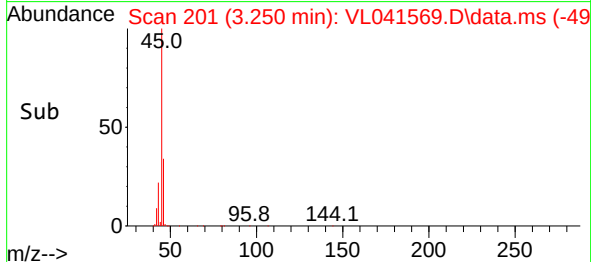
Instrument :
MSVOA_L
ClientSampleId :
IA1



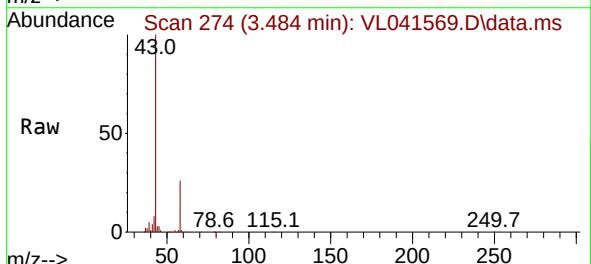
Tgt Ion: 45 Resp: 1749419
Ion Ratio Lower Upper
45 100
46 35.6 13.4 53.4

Manual Integrations
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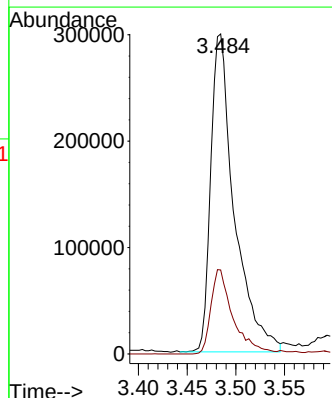
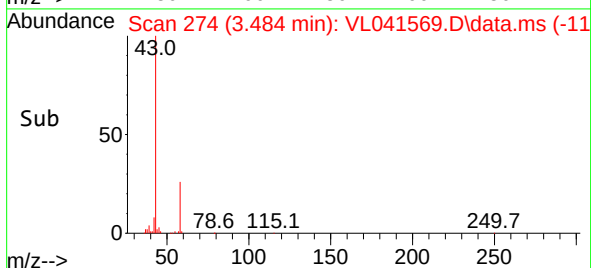
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

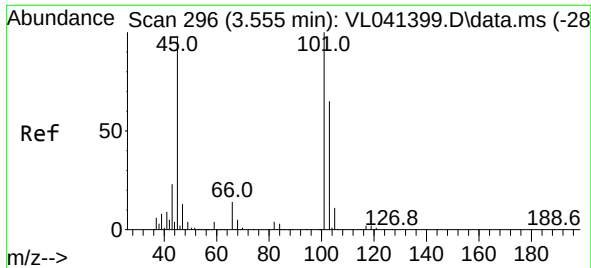


#15
Acetone
Concen: 4.487 ppbv
RT: 3.484 min Scan# 274
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15



Tgt Ion: 43 Resp: 502495
Ion Ratio Lower Upper
43 100
58 25.6 21.4 32.2





#19

Isopropyl Alcohol

Concen: 1.191 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.010 min

Lab File: VL041569.D

Acq: 21 Aug 2024 16:15

Instrument :

MSVOA_L

ClientSampleId :

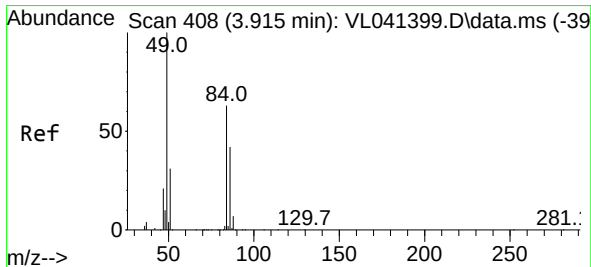
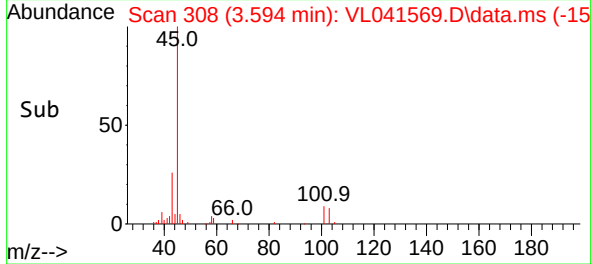
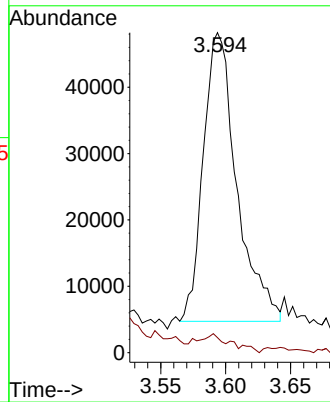
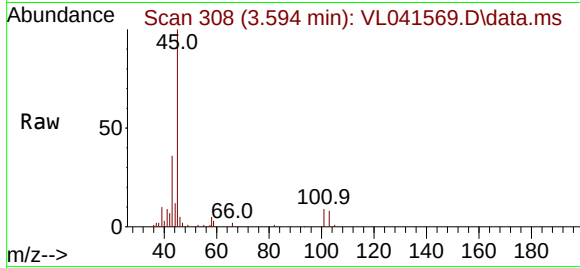
IA1

Tgt Ion: 45 Resp: 7795
 Ion Ratio Lower Upper
 45 100
 58 6.8 1.9 2.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024



#20

Methylene Chloride

Concen: 5.241 ppbv

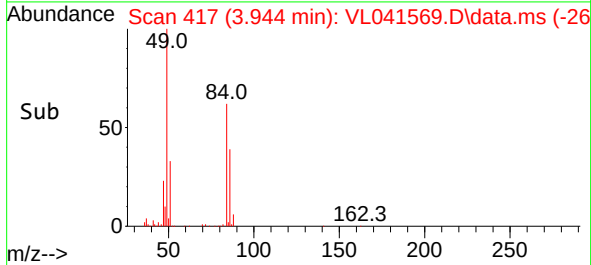
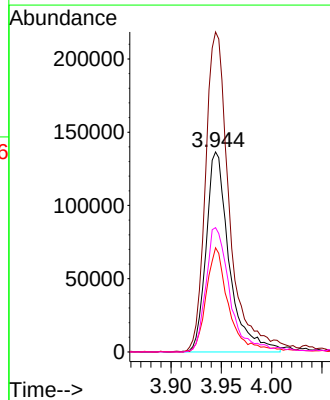
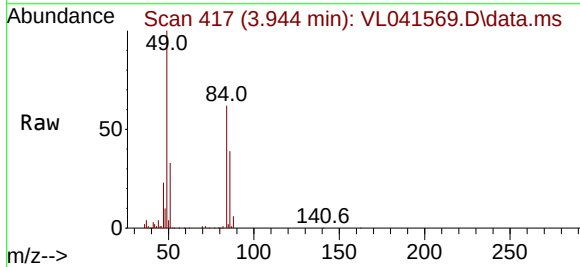
RT: 3.944 min Scan# 417

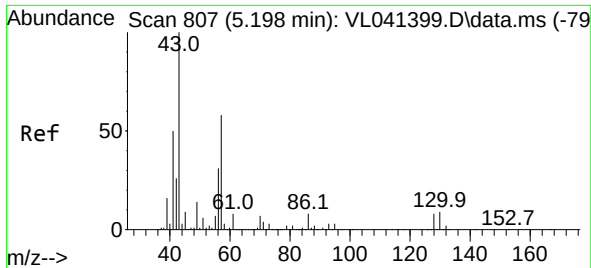
Delta R.T. 0.003 min

Lab File: VL041569.D

Acq: 21 Aug 2024 16:15

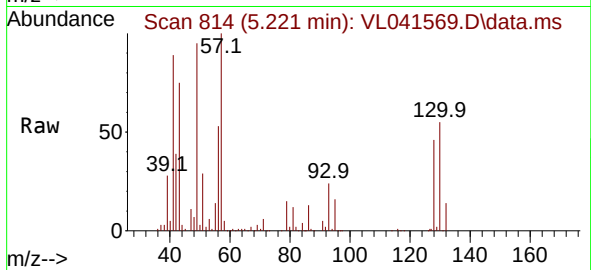
Tgt Ion: 84 Resp: 218872
 Ion Ratio Lower Upper
 84 100
 49 159.8 126.6 190.0
 51 52.1 38.6 58.0
 86 62.2 53.0 79.4





#26
Hexane
Concen: 2.430 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.003 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

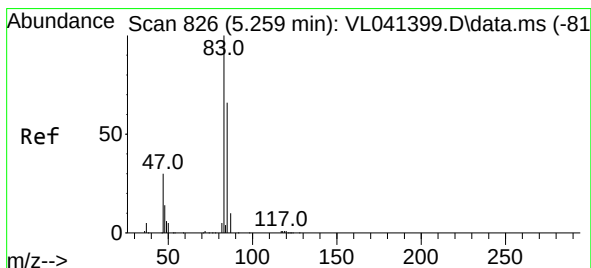
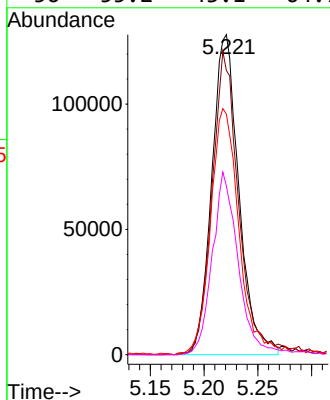
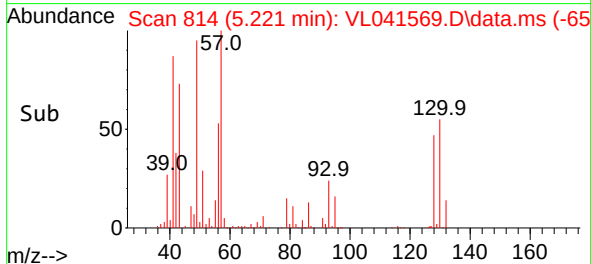
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 22422
Ion Ratio Lower Upper
57 100
41 95.4 74.0 111.0
43 81.8 193.6 290.4
56 55.2 43.1 64.7

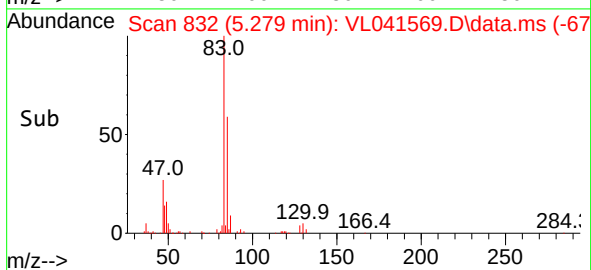
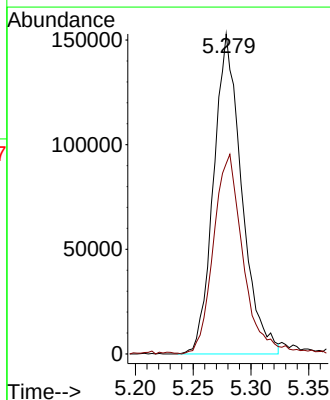
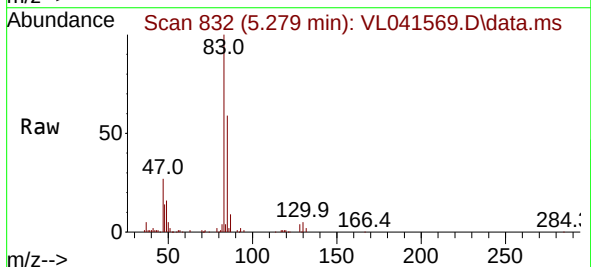
Manual Integrations
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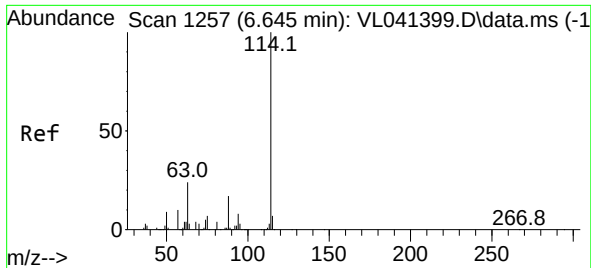
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#29
Chloroform
Concen: 1.721 ppbv
RT: 5.279 min Scan# 832
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 83 Resp: 259042
Ion Ratio Lower Upper
83 100
85 59.2 53.1 79.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL041569.D

Acq: 21 Aug 2024 16:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 259998

Ion Ratio Lower Upper

114 100

63 25.3 20.3 30.5

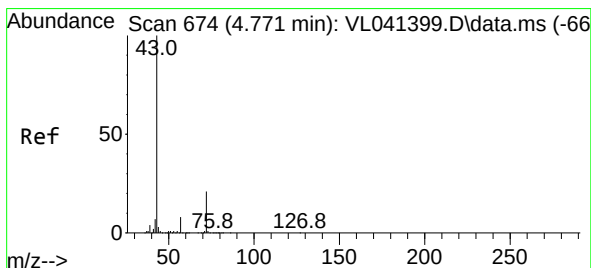
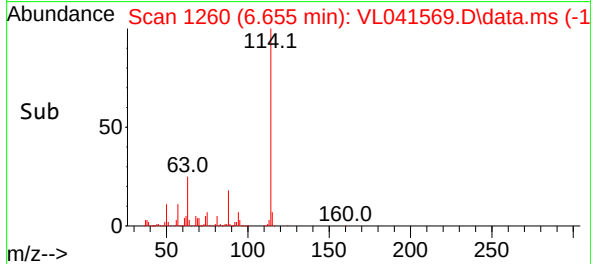
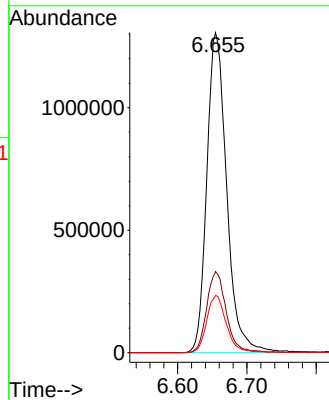
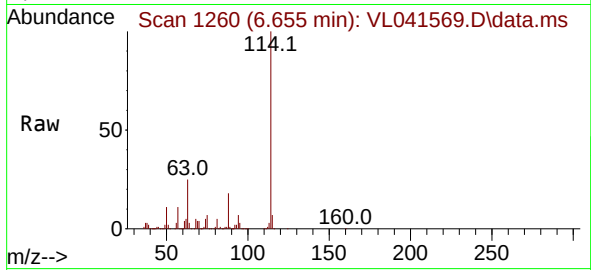
88 17.8 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#34

2-Butanone

Concen: 0.505 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.010 min

Lab File: VL041569.D

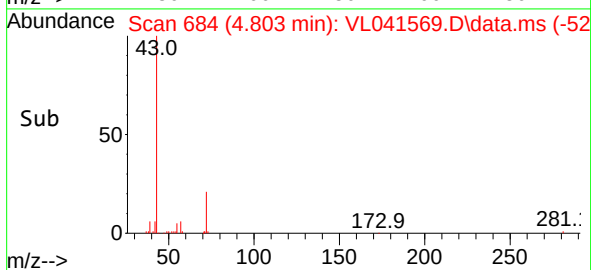
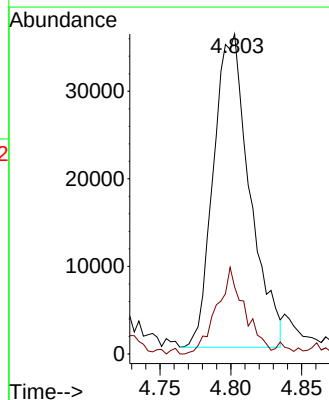
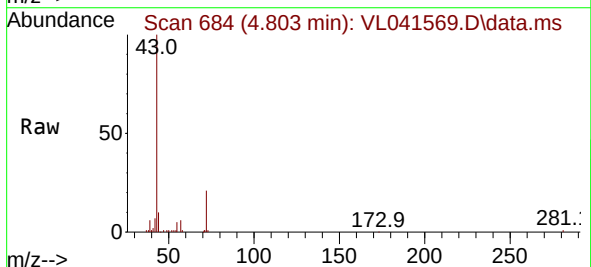
Acq: 21 Aug 2024 16:15

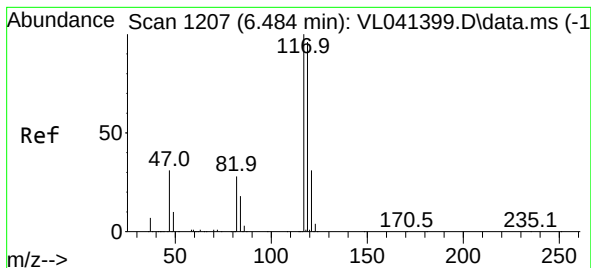
Tgt Ion: 43 Resp: 63570

Ion Ratio Lower Upper

43 100

72 24.5 17.3 25.9





#35

Carbon Tetrachloride

Concen: 0.064 ppbv

RT: 6.494 min Scan# 1174

Delta R.T. -0.003 min

Lab File: VL041569.D

Acq: 21 Aug 2024 16:15

Instrument :

MSVOA_L

ClientSampleId :

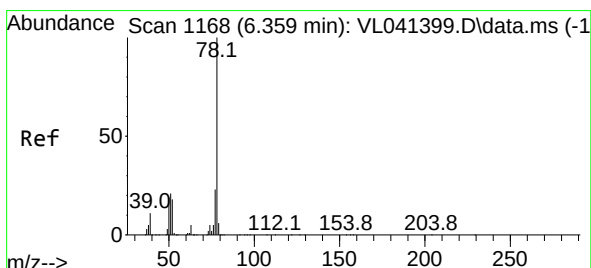
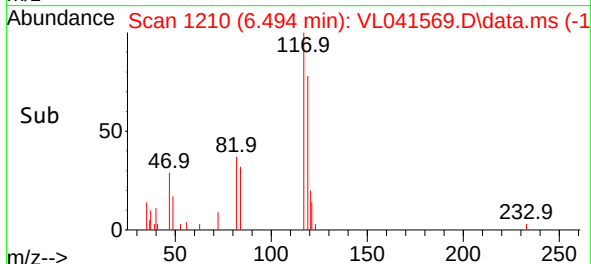
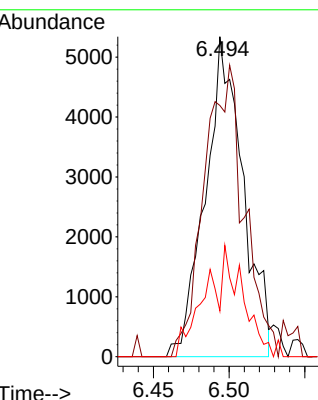
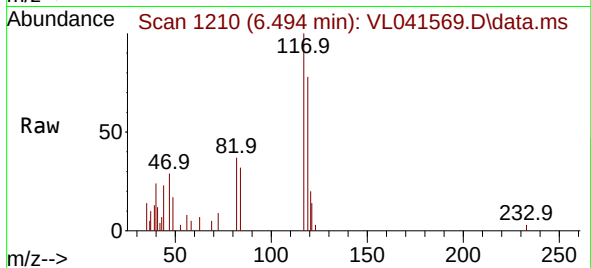
IA1

Tgt Ion:	117	Resp:	922
Ion	Ratio	Lower	Upper
117	100		
119	78.5	76.6	115.0
121	14.3	25.1	37.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#36

Benzene

Concen: 0.167 ppbv

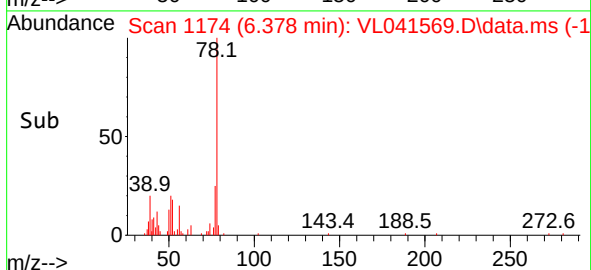
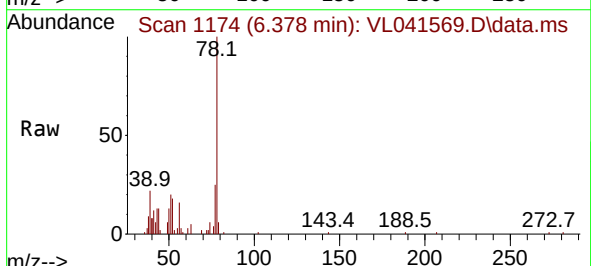
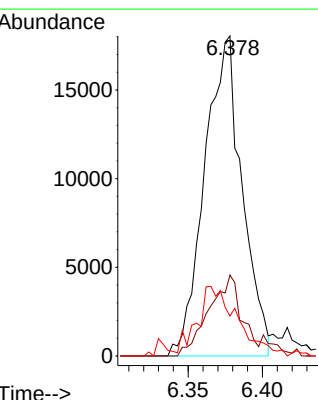
RT: 6.378 min Scan# 1174

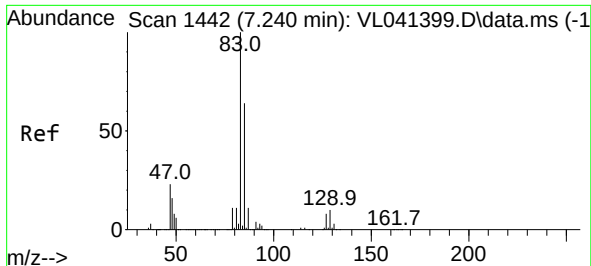
Delta R.T. 0.006 min

Lab File: VL041569.D

Acq: 21 Aug 2024 16:15

Tgt Ion:	78	Resp:	31682
Ion	Ratio	Lower	Upper
78	100		
77	25.3	18.1	27.1
50	10.7	15.5	23.3





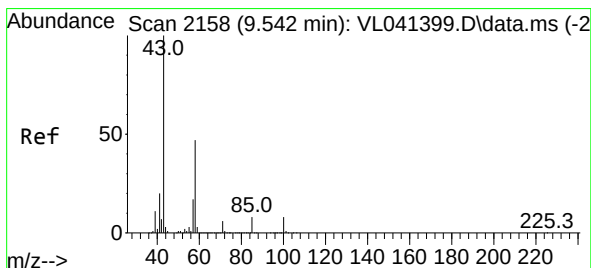
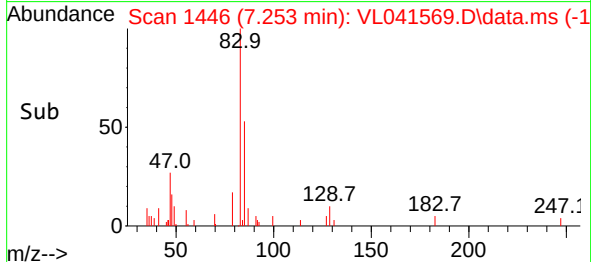
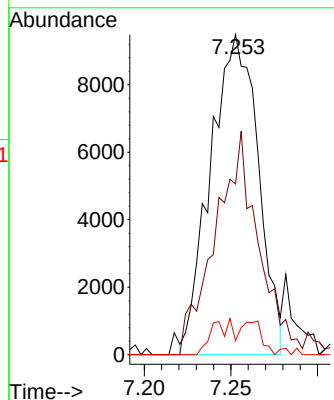
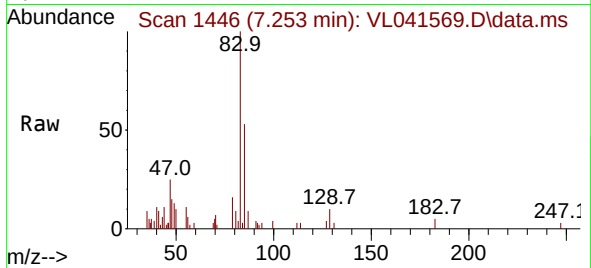
#42
Bromodichloromethane
Concen: 0.118 ppbv
RT: 7.253 min Scan# 1446
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 83 Resp: 18190
Ion Ratio Lower Upper
83 100
85 55.1 51.4 77.0
127 4.6 6.7 10.1

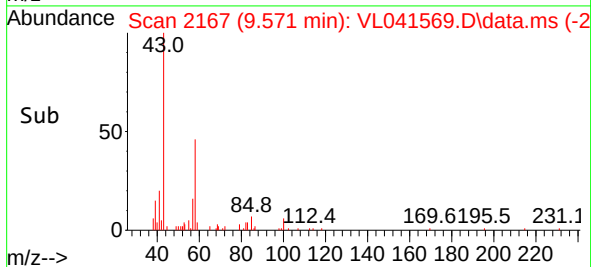
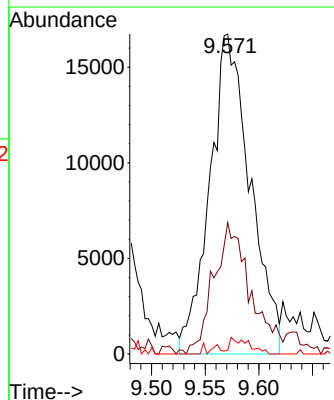
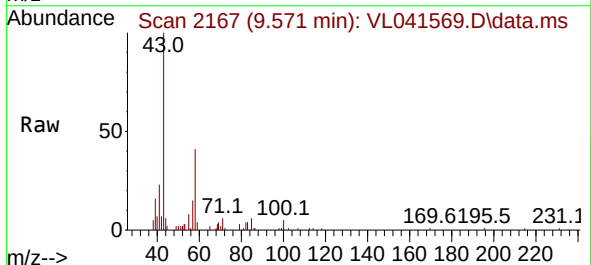
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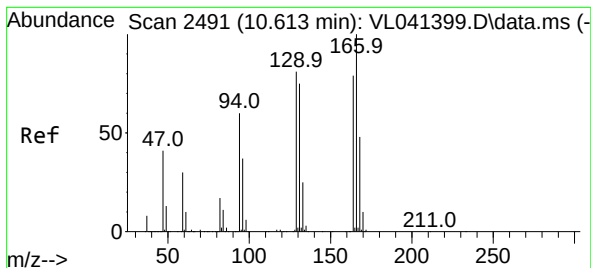
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#51
2-Hexanone
Concen: 0.293 ppbv m
RT: 9.571 min Scan# 2167
Delta R.T. 0.019 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

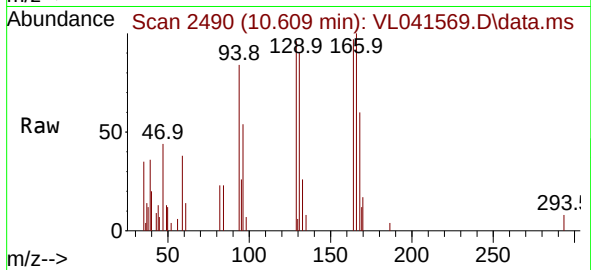
Tgt Ion: 43 Resp: 43967
Ion Ratio Lower Upper
43 100
58 0.0 38.2 57.2#
98 0.0 0.3 0.5#





#52
Tetrachloroethene
Concen: 0.095 ppbv m
RT: 10.609 min Scan# 2490
Delta R.T. -0.007 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

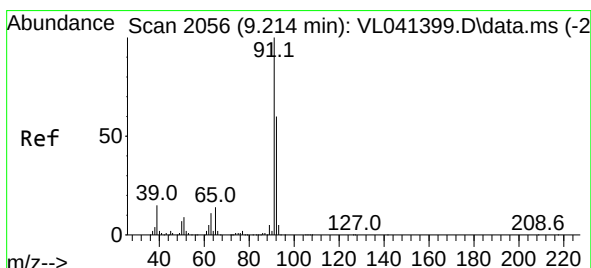
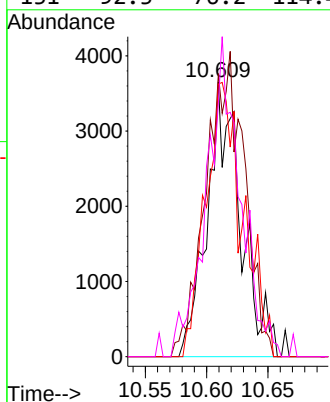
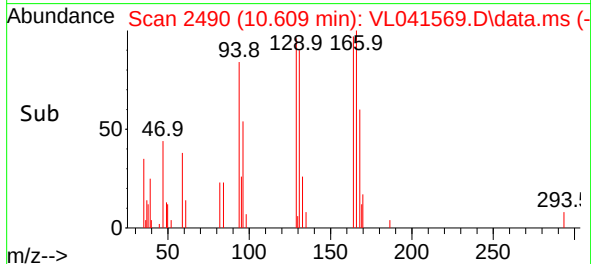
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 696
Ion Ratio Lower Upper
164 100
166 103.0 101.1 151.7
129 99.2 81.7 122.5
131 92.3 76.2 114.4

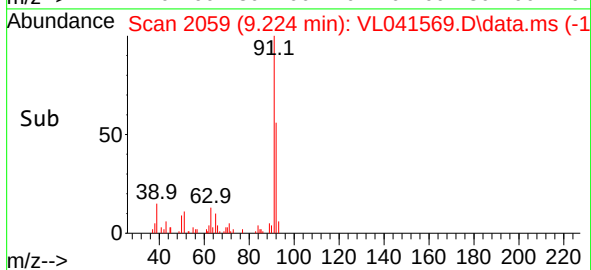
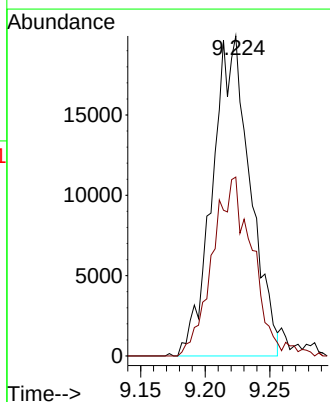
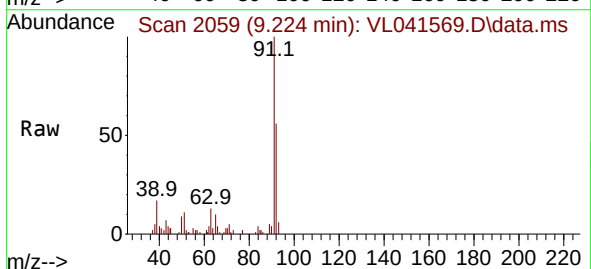
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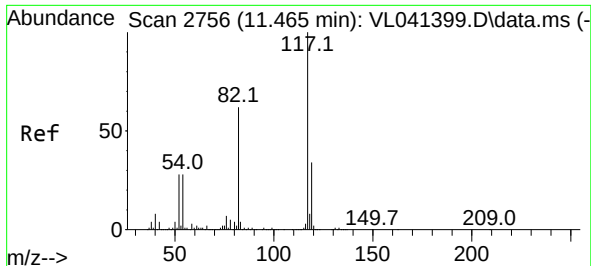
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#53
Toluene
Concen: 0.192 ppbv m
RT: 9.224 min Scan# 2059
Delta R.T. 0.003 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

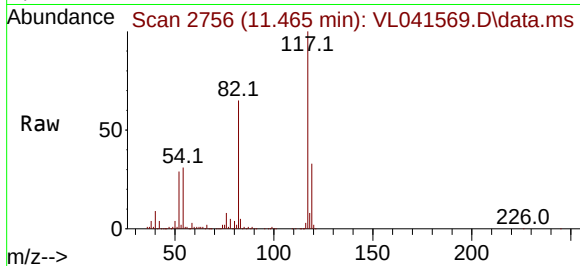
Tgt Ion: 91 Resp: 40725
Ion Ratio Lower Upper
91 100
92 59.6 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

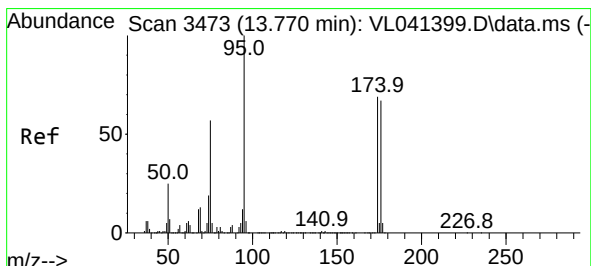
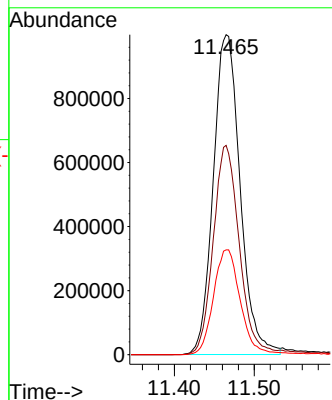
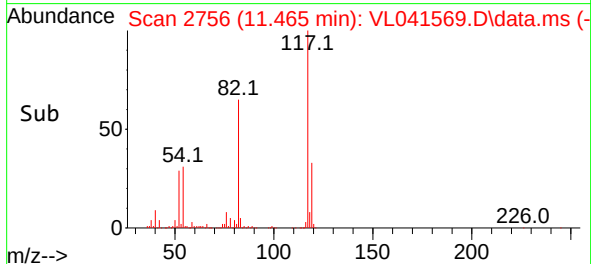
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 2331000
Ion Ratio Lower Upper
117 100
82 65.3 51.0 76.6
119 33.2 45.2 67.8

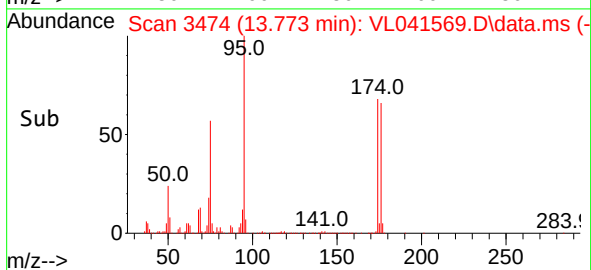
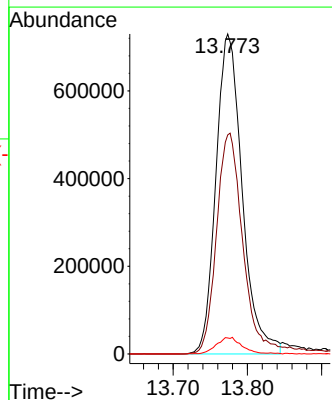
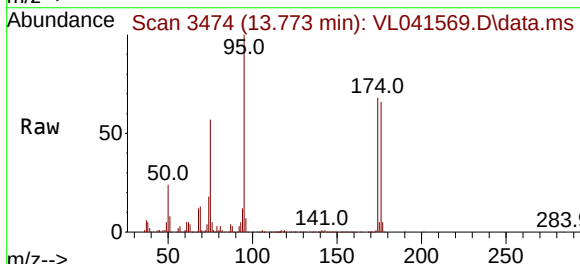
Manual Integrations
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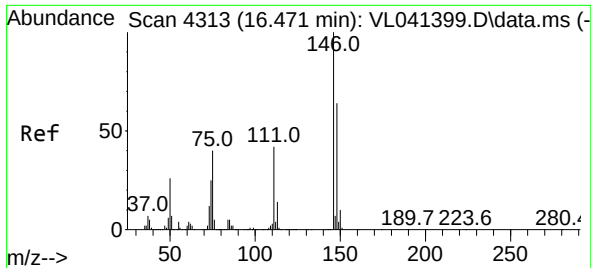
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.011 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

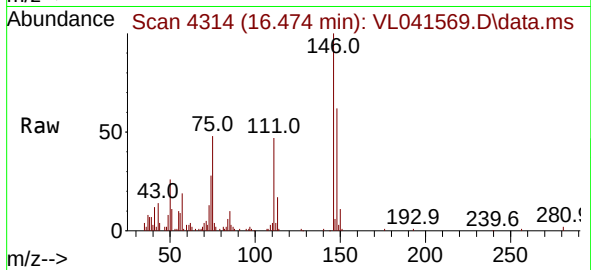
Tgt Ion: 95 Resp: 1795895
Ion Ratio Lower Upper
95 100
174 71.8 56.3 84.5
175 5.1 4.0 6.0





#76
 1,4-Dichlorobenzene
 Concen: 0.531 ppbv
 RT: 16.474 min Scan# 4313
 Delta R.T. 0.003 min
 Lab File: VL041569.D
 Acq: 21 Aug 2024 16:15

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	146	Resp:	83638
Ion	Ratio	Lower	Upper
146	100		
111	50.3	22.4	67.0
148	73.8	33.1	99.5

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024

