

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042324\
 Data File : VL041159.D
 Acq On : 23 Apr 2024 14:00
 Operator : SY/MD
 Sample : P2222-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/24/2024
 Supervised By :Mahesh Dadoda 04/24/2024

Quant Time: Apr 24 02:52:12 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M

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

QLast Update : Wed Apr 24 02:47:46 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1234642	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	3061210	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2925416	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2391876	10.168	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	23199	0.110	ppbv	100
3) Chlorodifluoromethane	2.678	51	22574m	0.119	ppbv	
9) Propene	2.700	41	105547	1.745	ppbv	86
10) Heptane	7.571	43	78217	0.545	ppbv	97
13) Ethanol	3.243	45	45269	3.146	ppbv	97
15) Acetone	3.468	43	697866	5.220	ppbv #	71
20) Methylene Chloride	3.935	84	660624	11.981	ppbv	95
26) Hexane	5.208	57	1148906	10.199	ppbv #	40
34) 2-Butanone	4.787	43	305533	2.359	ppbv	96
36) Benzene	6.362	78	40593	0.181	ppbv	99
38) Trichloroethene	7.282	130	4062m	0.050	ppbv	
44) 2,2,4-Trimethylpentane	7.324	57	285328	0.767	ppbv #	84
51) 2-Hexanone	9.552	43	149875	0.948	ppbv #	86
52) Tetrachloroethene	10.603	164	55135	0.769	ppbv	93
53) Toluene	9.214	91	361790	1.528	ppbv	98
58) Ethyl Benzene	12.086	91	103319	0.323	ppbv	93
59) m/p-Xylene	12.339	91	289055	0.999	ppbv	99
60) o-Xylene	13.050	91	95244	0.348	ppbv	98
72) 4-Ethyltoluene	15.179	105	43470m	0.142	ppbv	
74) 1,2,4-Trimethylbenzene	16.095	105	104439m	0.338	ppbv	

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

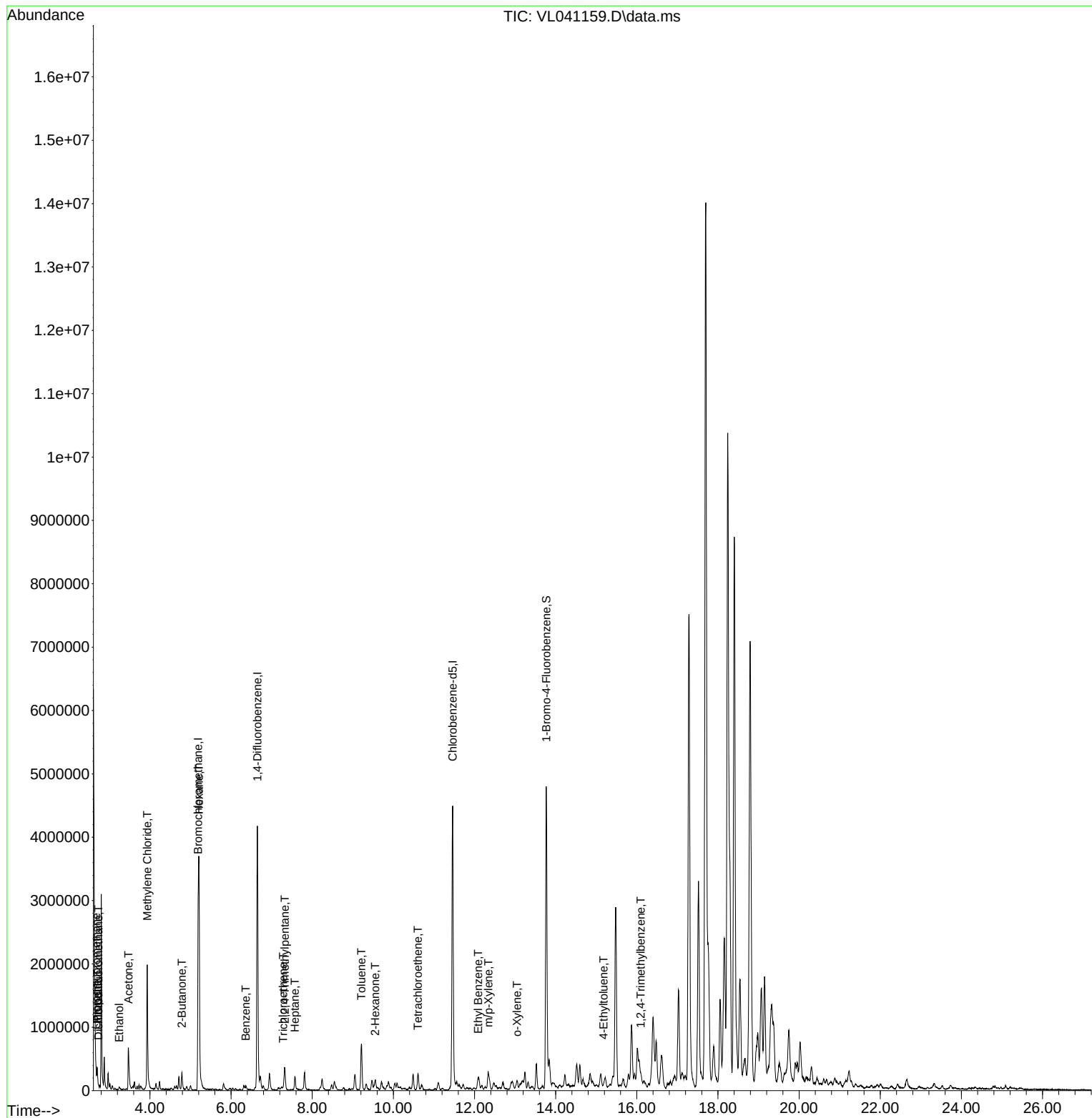
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042324\
Data File : VL041159.D
Acq On : 23 Apr 2024 14:00
Operator : SY/MD
Sample : P2222-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

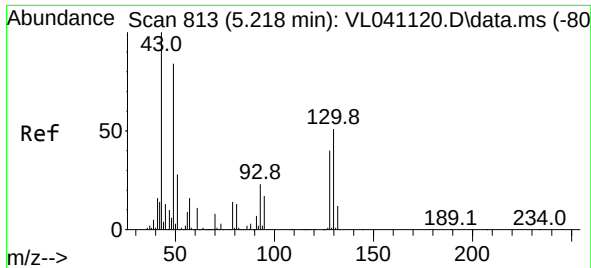
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Apr 24 02:52:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Apr 24 02:47:46 2024
Response via : Initial Calibration

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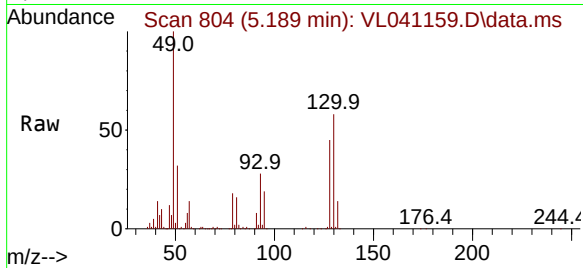
Reviewed By : Semsettin Yesilyurt 04/24/2024
Supervised By : Mahesh Dadoda 04/24/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

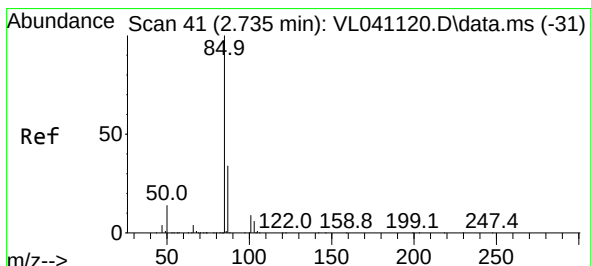
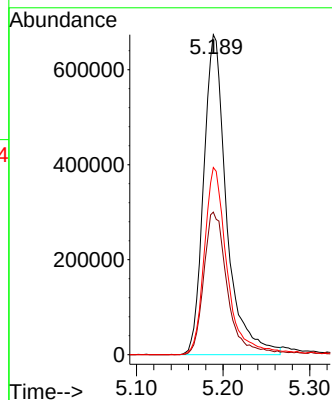
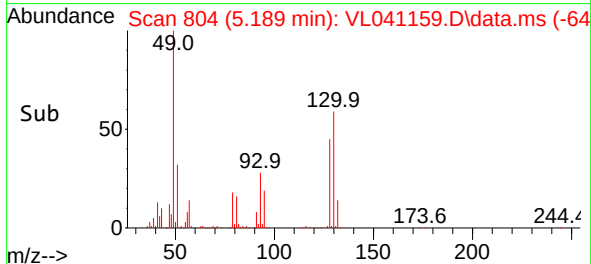
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 123464
Ion Ratio Lower Upper
49 100
128 47.1 23.6 71.0
130 59.9 30.1 90.5

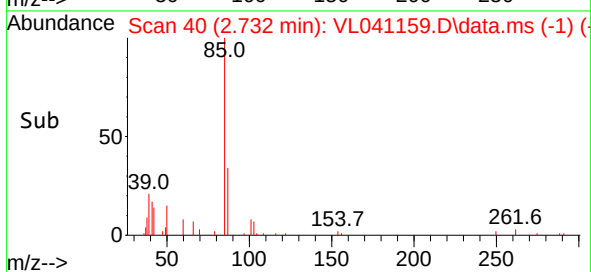
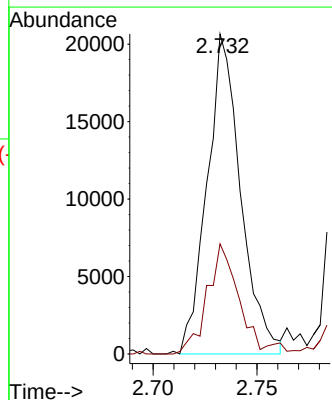
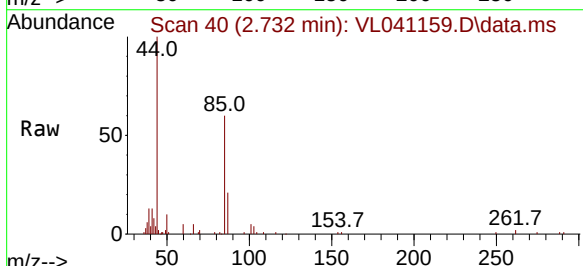
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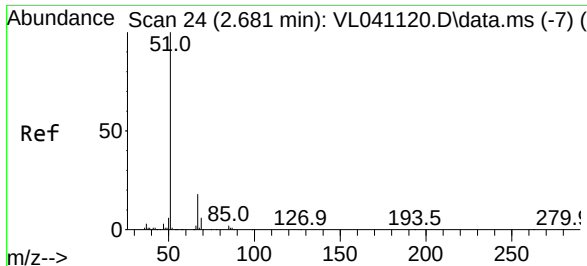
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#2
Dichlorodifluoromethane
Concen: 0.110 ppbv
RT: 2.732 min Scan# 40
Delta R.T. -0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

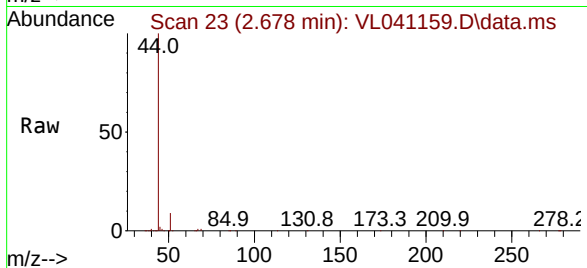
Tgt Ion: 85 Resp: 23199
Ion Ratio Lower Upper
85 100
87 33.6 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.119 ppbv m
RT: 2.678 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

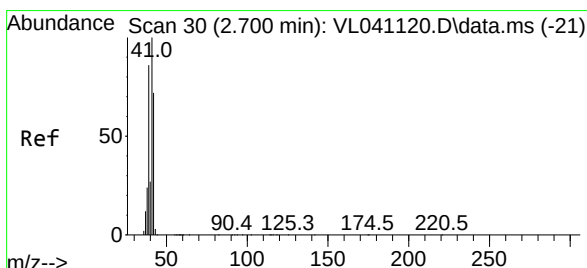
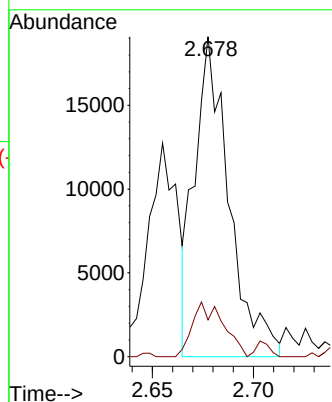
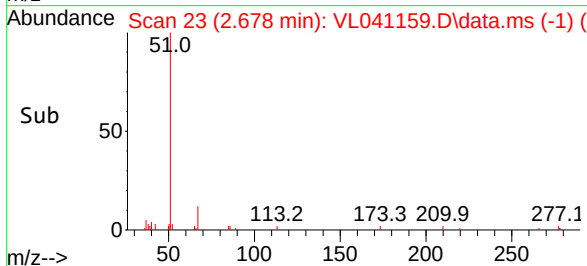
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 51 Resp: 22574
Ion Ratio Lower Upper
51 100
67 17.7 14.9 22.3

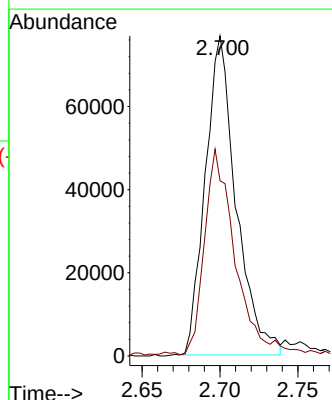
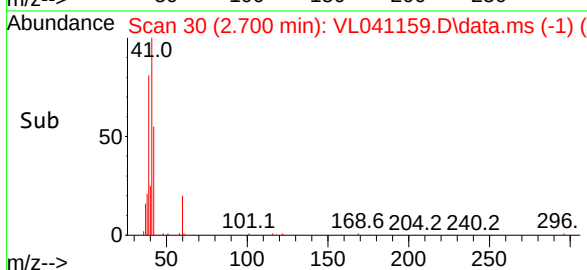
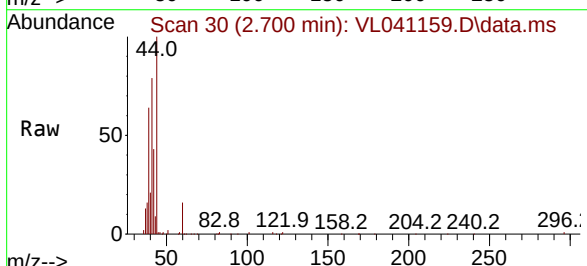
Manual Integrations
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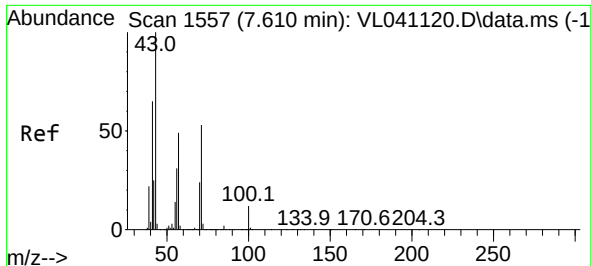
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#9
Propene
Concen: 1.745 ppbv
RT: 2.700 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

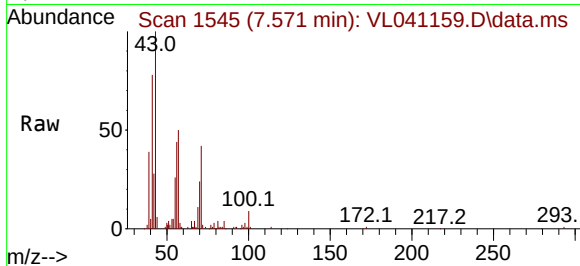
Tgt Ion: 41 Resp: 105547
Ion Ratio Lower Upper
41 100
42 63.5 60.1 90.1





#10
 Heptane
 Concen: 0.545 ppbv
 RT: 7.571 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VL041159.D
 Acq: 23 Apr 2024 14:00

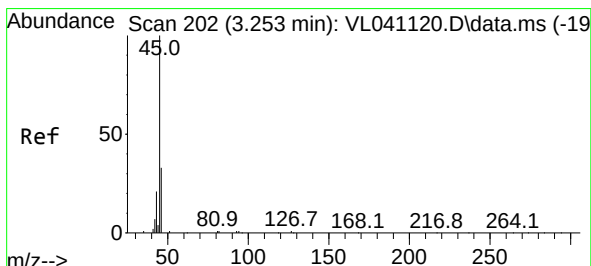
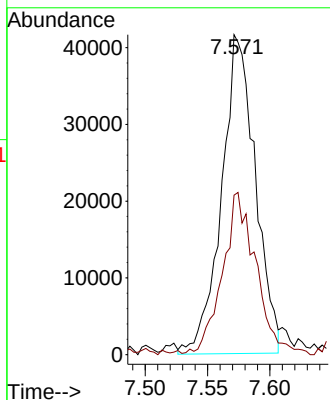
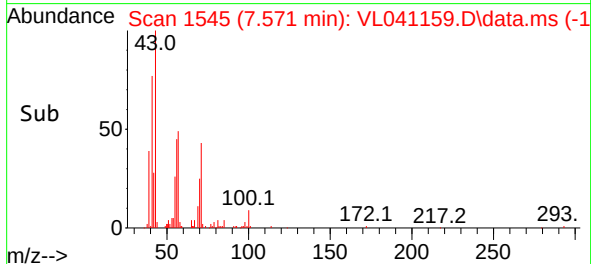
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



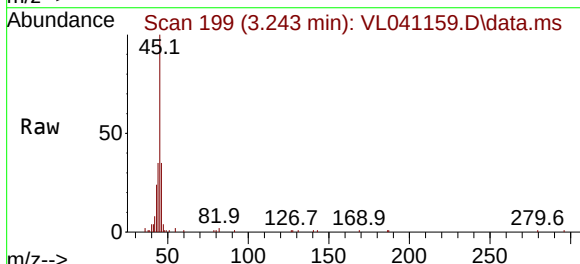
Tgt Ion: 43 Resp: 7821
 Ion Ratio Lower Upper
 43 100
 57 51.9 39.9 59.9

Manual Integrations
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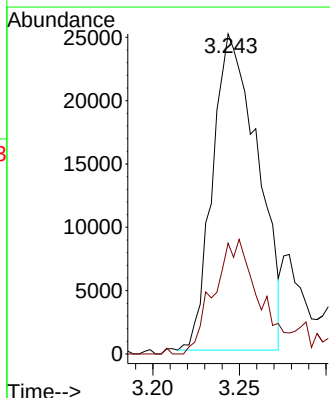
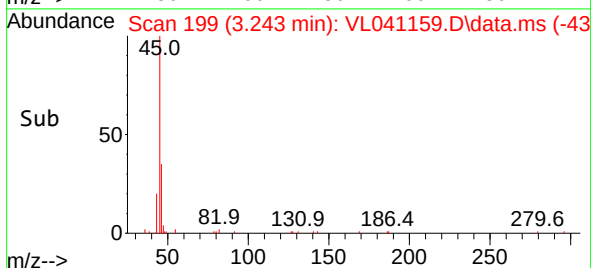
Reviewed By :Semsettin Yesilyurt 04/24/2024
 Supervised By :Mahesh Dadoda 04/24/2024

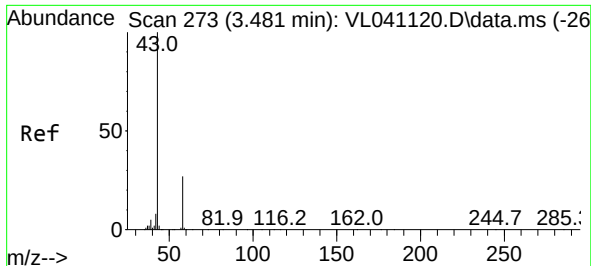


#13
 Ethanol
 Concen: 3.146 ppbv
 RT: 3.243 min Scan# 199
 Delta R.T. 0.000 min
 Lab File: VL041159.D
 Acq: 23 Apr 2024 14:00



Tgt Ion: 45 Resp: 45269
 Ion Ratio Lower Upper
 45 100
 46 39.1 15.0 59.8





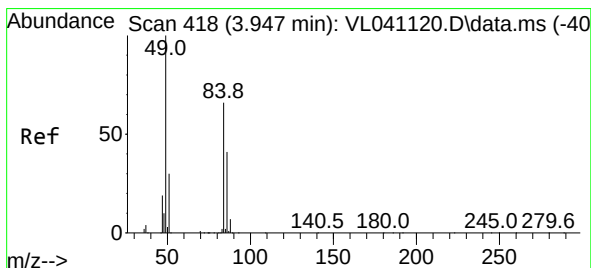
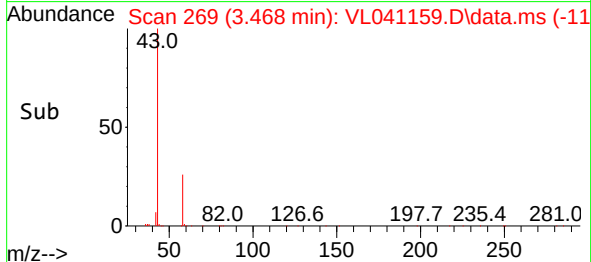
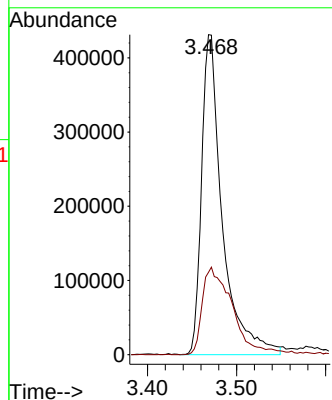
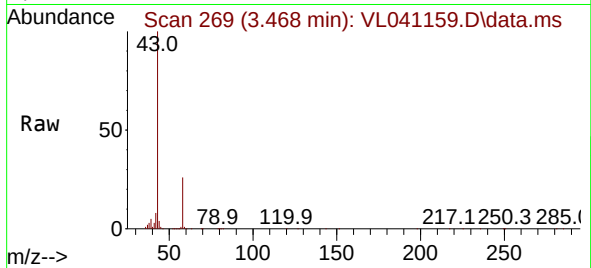
#15
Acetone
Concen: 5.220 ppbv
RT: 3.468 min Scan# 20
Delta R.T. -0.000 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 697860
Ion Ratio Lower Upper
43 100
58 41.0 21.1 31.7

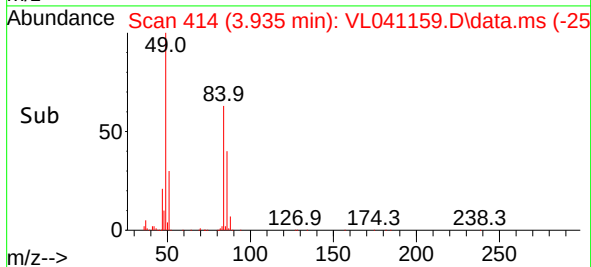
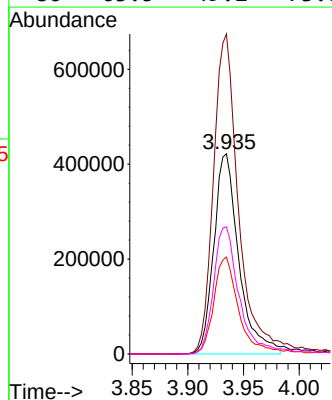
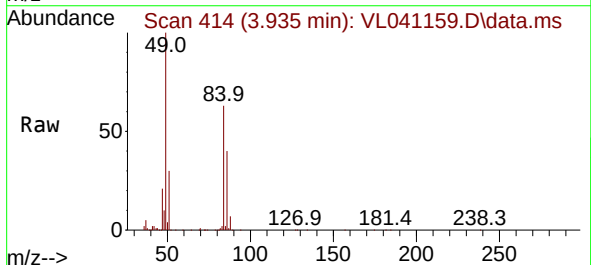
Manual Integrations
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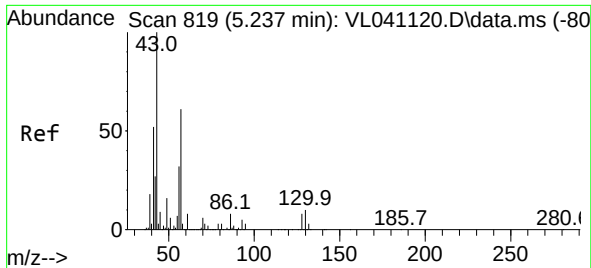
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#20
Methylene Chloride
Concen: 11.981 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

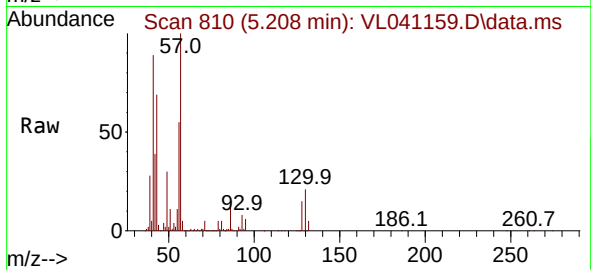
Tgt Ion: 84 Resp: 660624
Ion Ratio Lower Upper
84 100
49 159.7 120.7 181.1
51 48.4 36.6 54.8
86 63.5 49.2 73.8





#26
Hexane
Concen: 10.199 ppbv
RT: 5.208 min Scan# 819
Delta R.T. 0.000 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

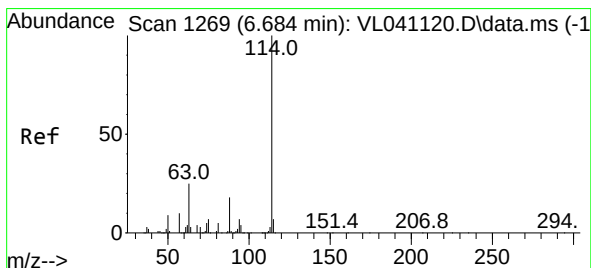
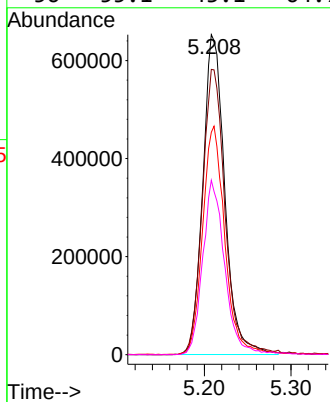
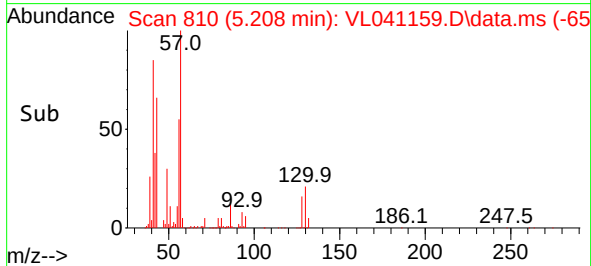
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 1148900
Ion Ratio Lower Upper
57 100
41 93.5 73.8 110.8
43 72.5 186.2 279.2
56 55.1 43.1 64.7

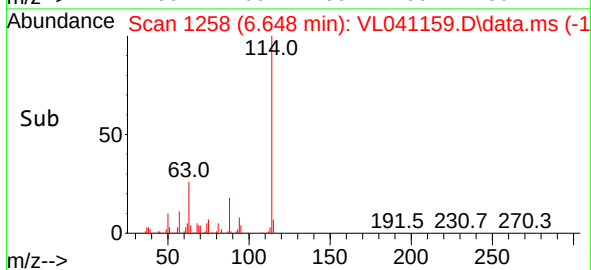
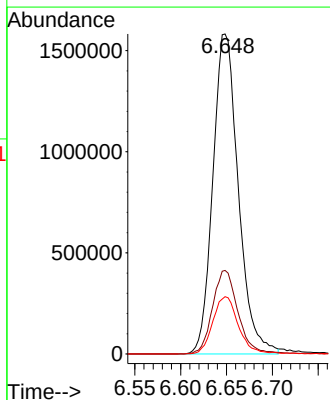
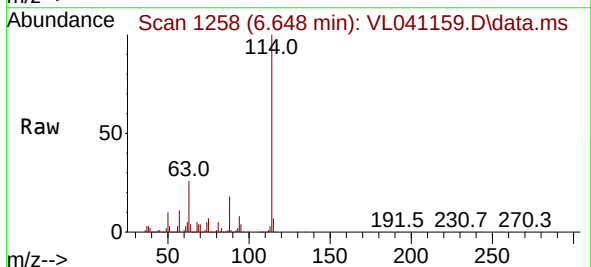
Manual Integrations
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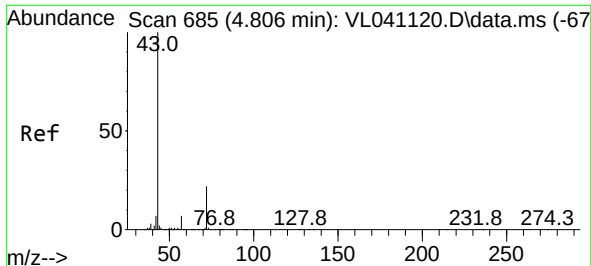
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. 0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

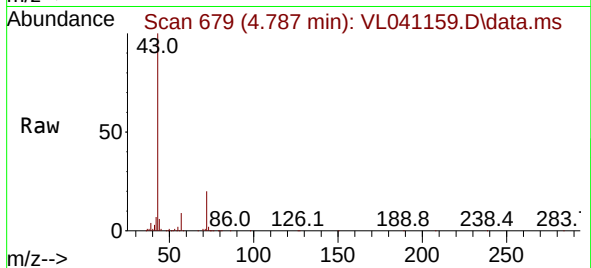
Tgt Ion:114 Resp: 3061210
Ion Ratio Lower Upper
114 100
63 26.4 20.9 31.3
88 18.2 14.5 21.7





#34
2-Butanone
Concen: 2.359 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

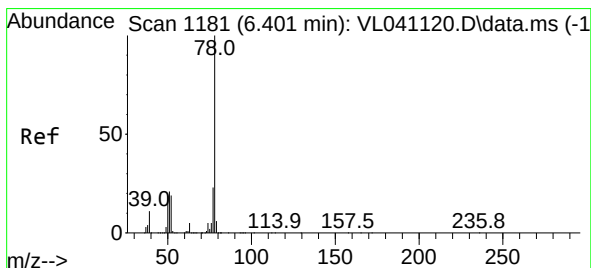
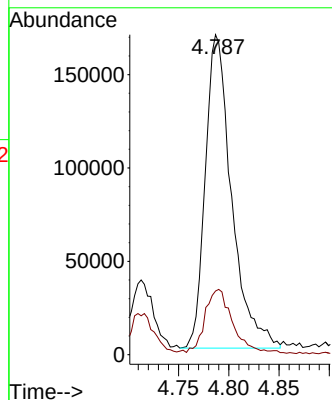
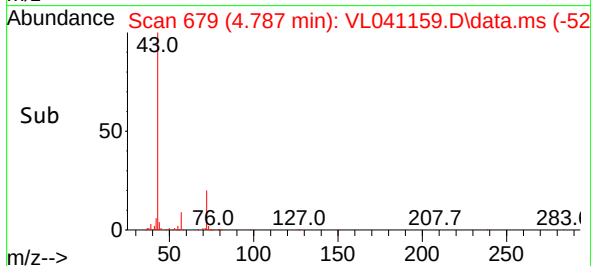
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 30553
Ion Ratio Lower Upper
43 100
72 23.9 17.6 26.4

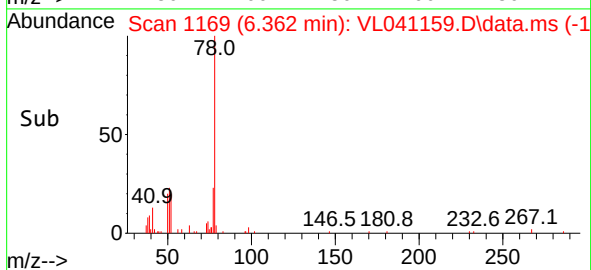
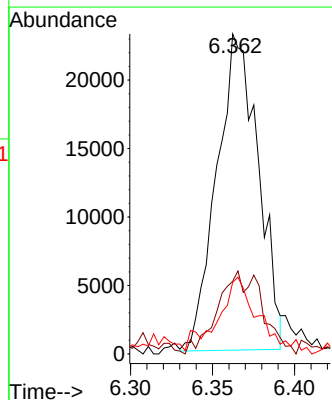
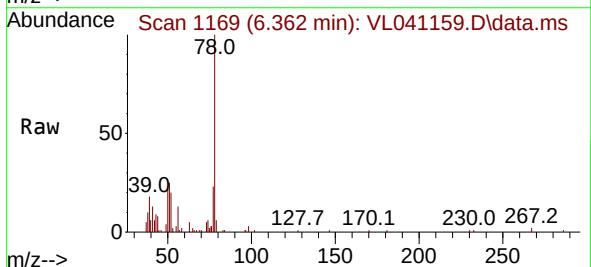
Manual Integrations
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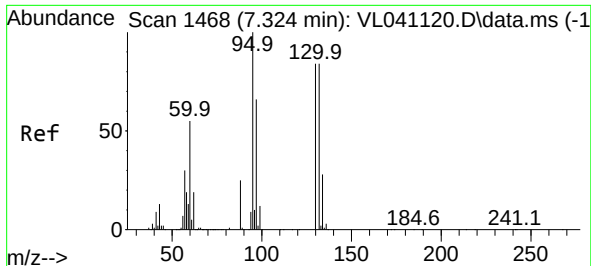
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#36
Benzene
Concen: 0.181 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. -0.000 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

Tgt Ion: 78 Resp: 40593
Ion Ratio Lower Upper
78 100
77 22.1 18.2 27.4
50 19.6 15.4 23.2





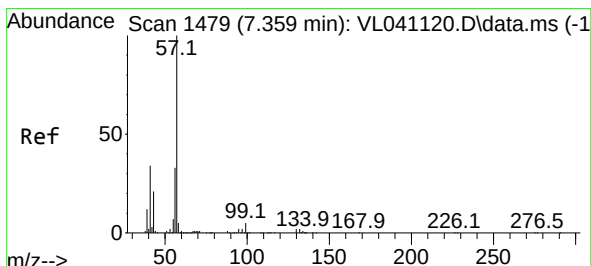
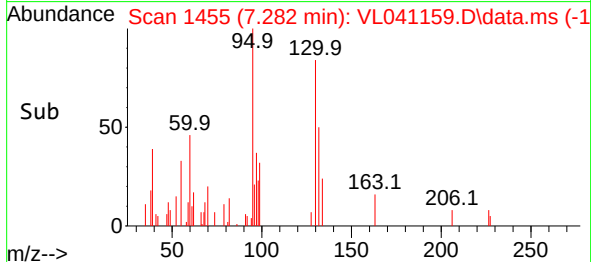
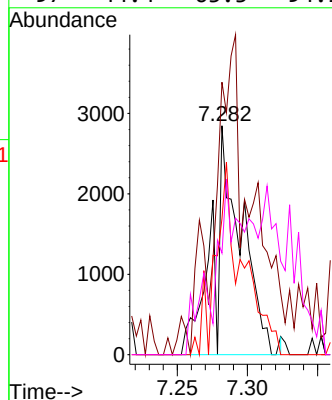
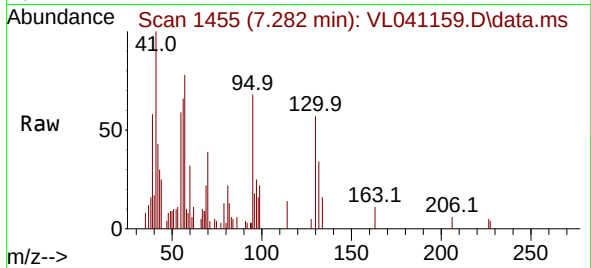
#38
Trichloroethene
Concen: 0.050 ppbv m
RT: 7.282 min Scan# 1455
Delta R.T. -0.000 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:130 Resp: 4062
Ion Ratio Lower Upper
130 100
95 119.0 95.4 143.0
132 59.3 80.0 120.0
97 44.4 63.3 94.9#

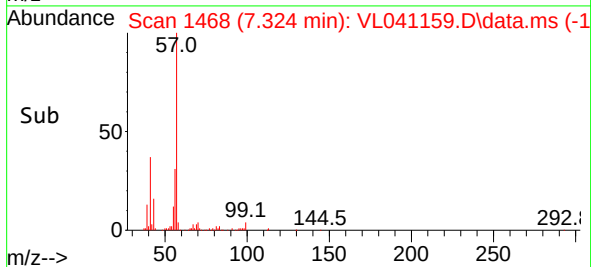
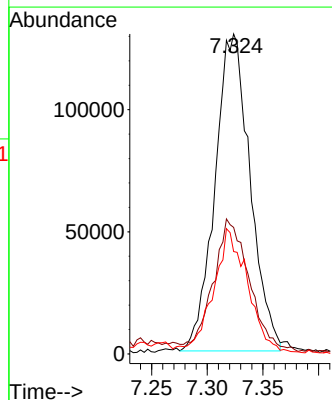
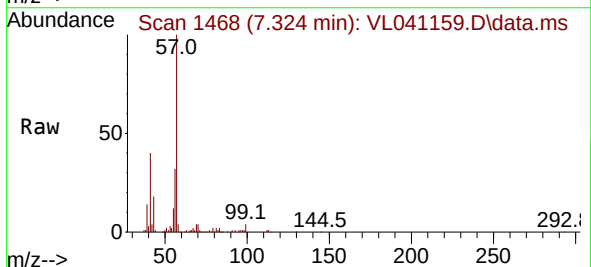
Manual Integrations
APPROVED

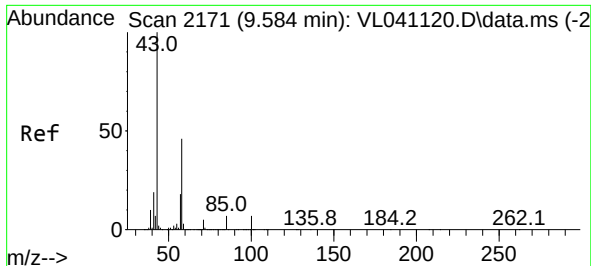
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#44
2,2,4-Trimethylpentane
Concen: 0.767 ppbv
RT: 7.324 min Scan# 1468
Delta R.T. 0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

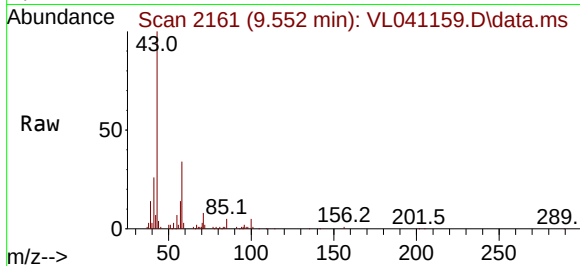
Tgt Ion: 57 Resp: 285328
Ion Ratio Lower Upper
57 100
41 44.6 28.2 42.2#
56 40.3 25.2 37.8#





#51
2-Hexanone
Concen: 0.948 ppbv
RT: 9.552 min Scan# 2171
Delta R.T. 0.013 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

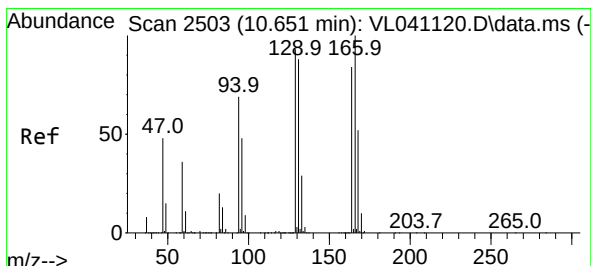
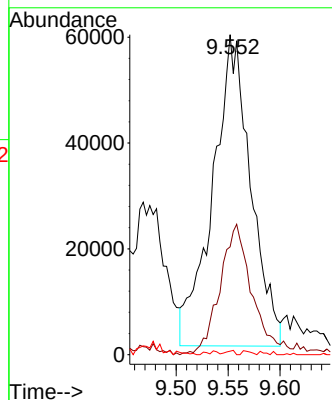
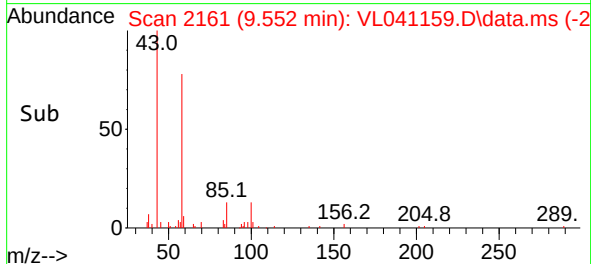
Instrument :
MSVOA_L
Client Sample Id :
SV1



Tgt Ion: 43 Resp: 149875
Ion Ratio Lower Upper
43 100
58 37.3 37.3 55.9
98 0.7 0.3 0.5

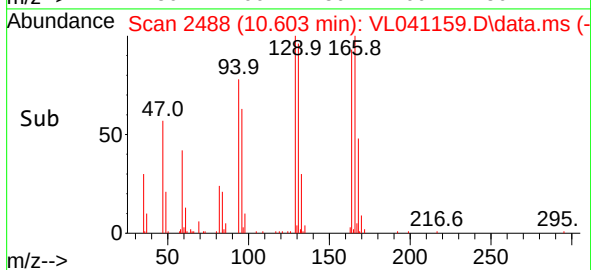
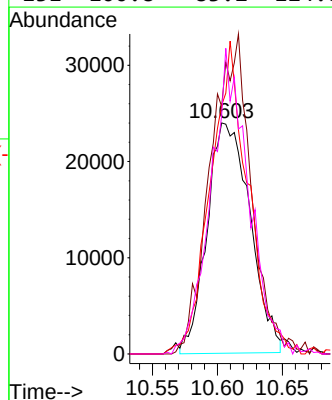
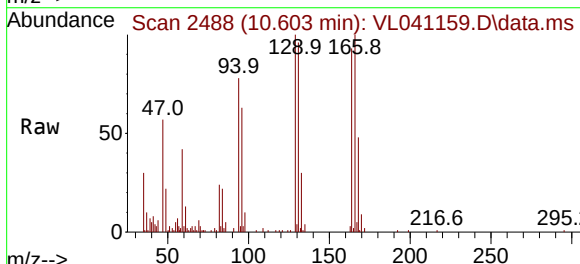
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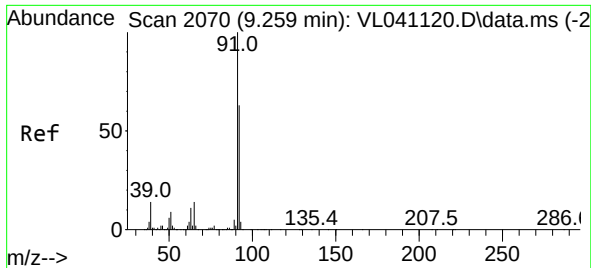
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#52
Tetrachloroethene
Concen: 0.769 ppbv
RT: 10.603 min Scan# 2488
Delta R.T. -0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

Tgt Ion:164 Resp: 55135
Ion Ratio Lower Upper
164 100
166 105.5 95.0 142.6
129 106.0 88.7 133.1
131 100.8 83.2 124.8





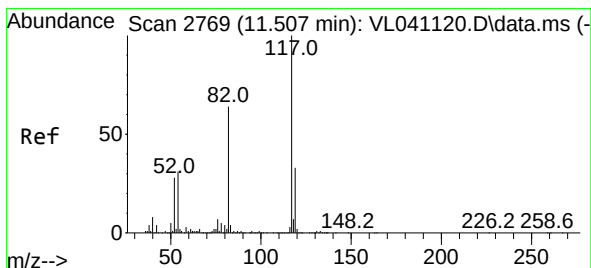
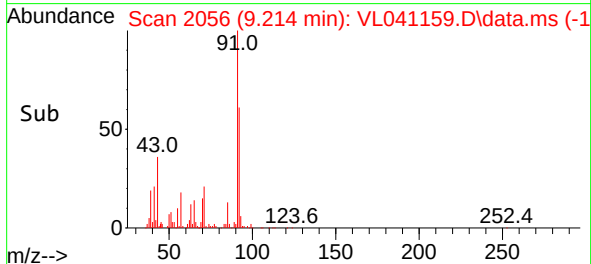
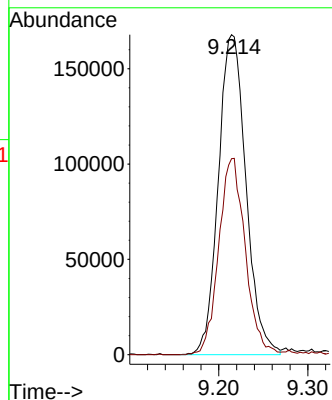
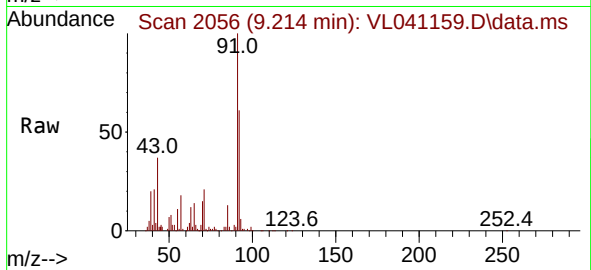
#53
Toluene
Concen: 1.528 ppbv
RT: 9.214 min Scan# 2070
Delta R.T. 0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 361790
Ion Ratio Lower Upper
91 100
92 59.4 49.0 73.4

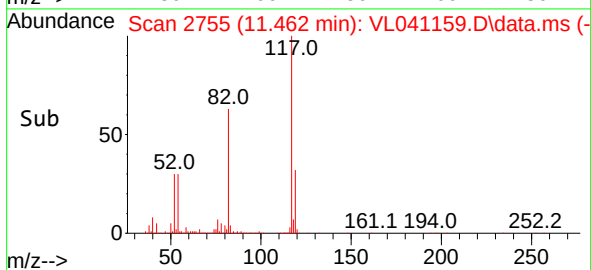
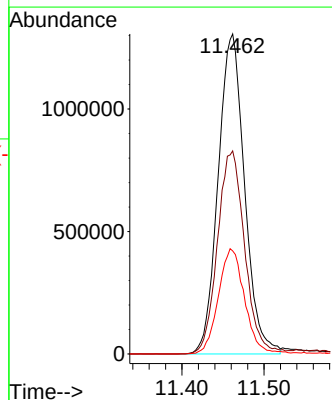
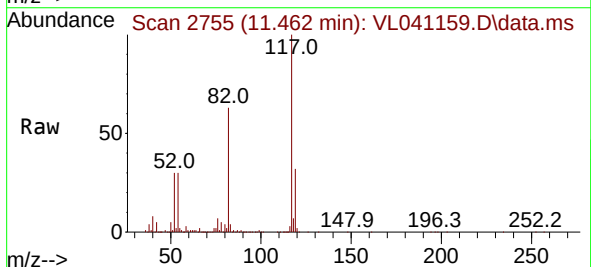
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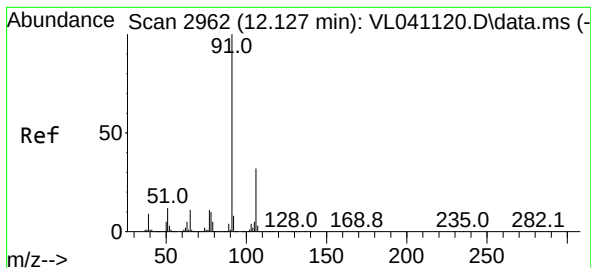
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 2755
Delta R.T. 0.006 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

Tgt Ion:117 Resp: 2925416
Ion Ratio Lower Upper
117 100
82 65.3 51.0 76.6
119 33.1 25.2 37.8





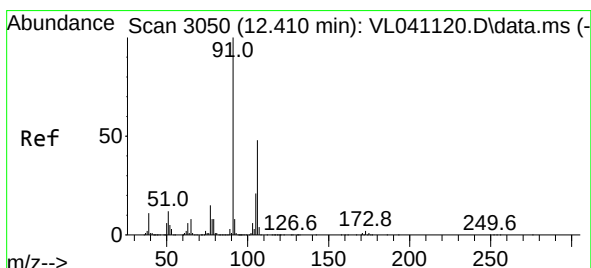
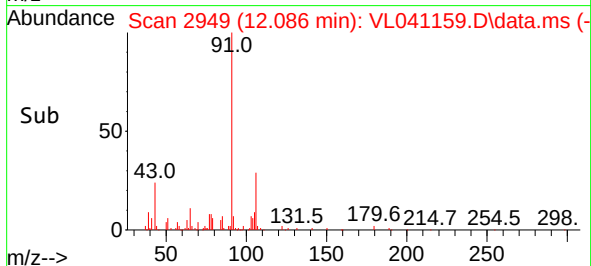
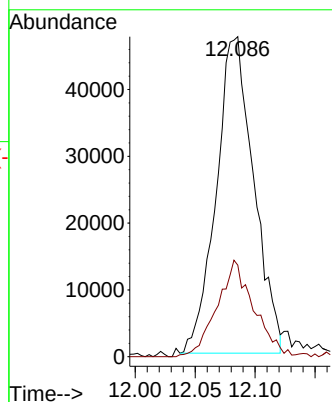
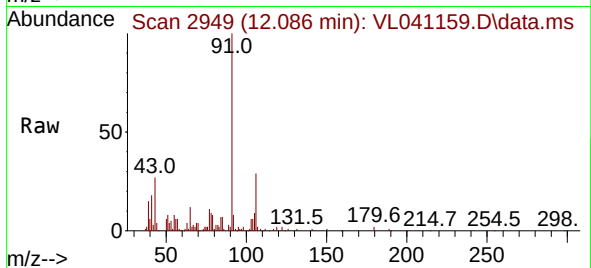
#58
Ethyl Benzene
Concen: 0.323 ppbv
RT: 12.086 min Scan# 2962
Delta R.T. 0.010 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 103319
Ion Ratio Lower Upper
91 100
106 28.3 25.6 38.4

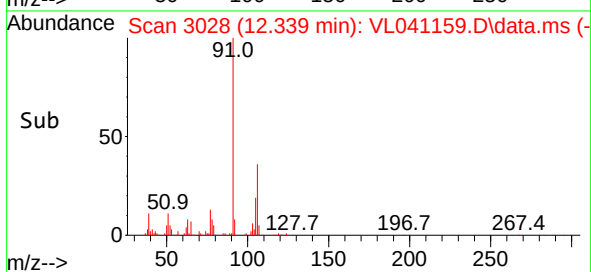
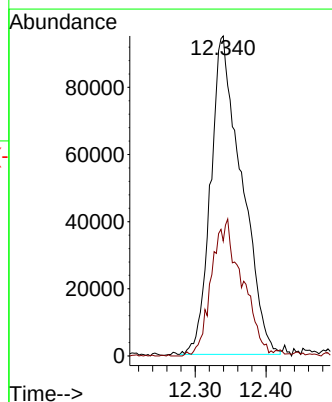
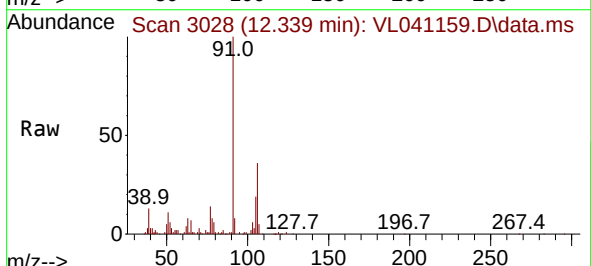
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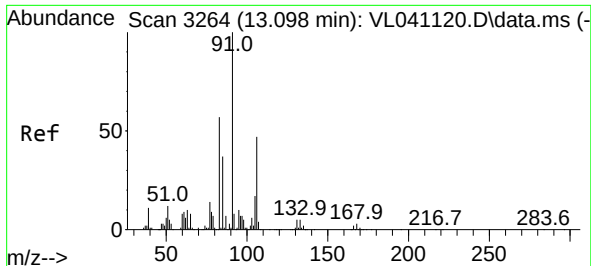
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#59
m/p-Xylene
Concen: 0.999 ppbv
RT: 12.339 min Scan# 3028
Delta R.T. -0.023 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

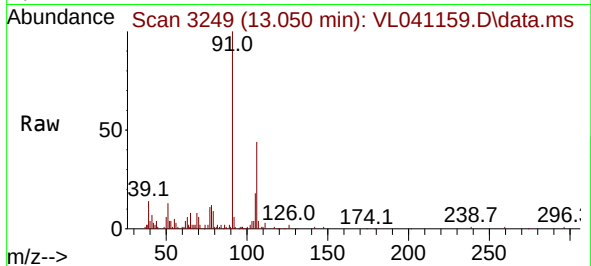
Tgt Ion: 91 Resp: 289055
Ion Ratio Lower Upper
91 100
106 43.6 35.4 53.2





#60
o-Xylene
Concen: 0.348 ppbv
RT: 13.050 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

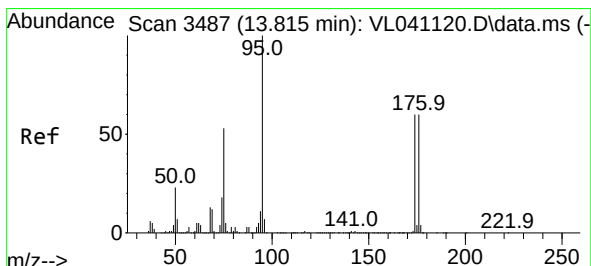
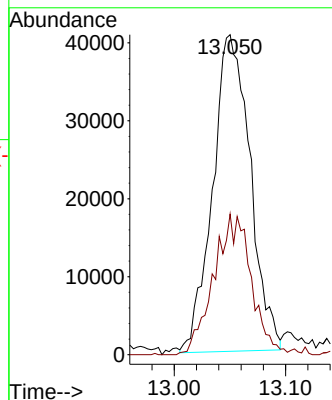
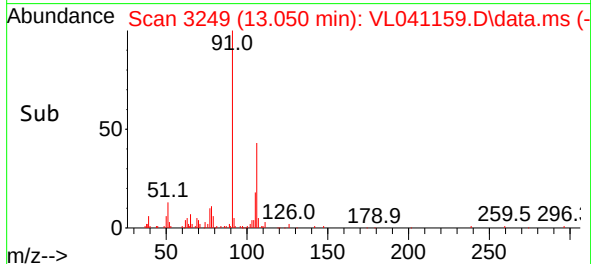
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 95244
Ion Ratio Lower Upper
91 100
106 44.7 22.9 68.5

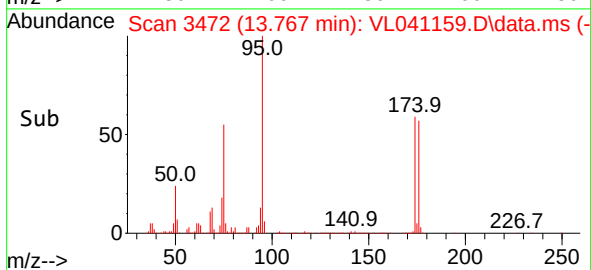
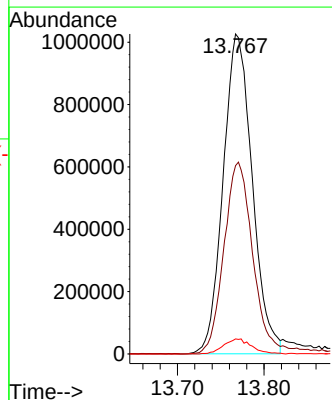
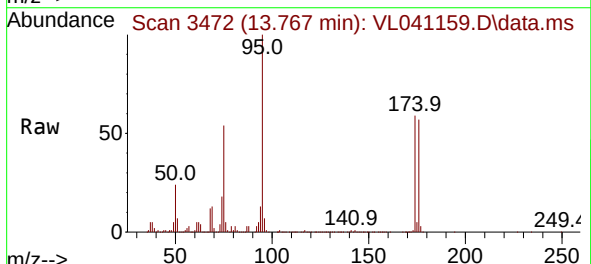
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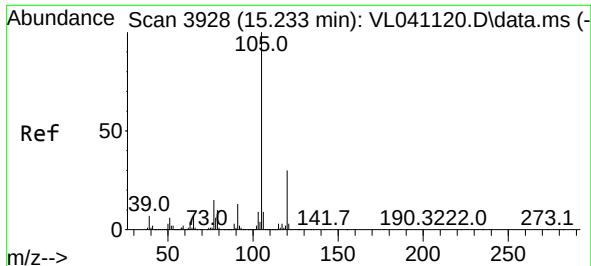
Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.168 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. 0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

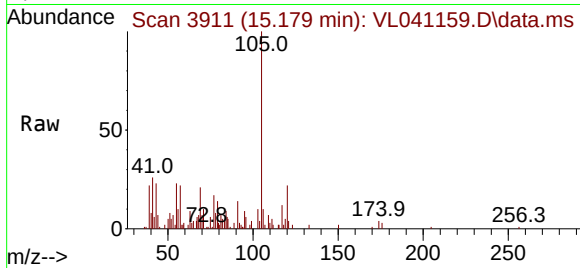
Tgt Ion: 95 Resp: 2391876
Ion Ratio Lower Upper
95 100
174 61.9 49.3 73.9
175 4.7 3.6 5.4





#72
4-Ethyltoluene
Concen: 0.142 ppbv m
RT: 15.179 min Scan# 3928
Delta R.T. -0.003 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00

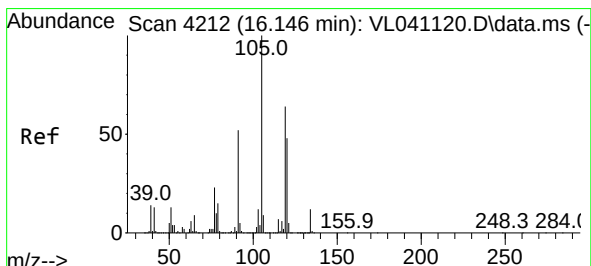
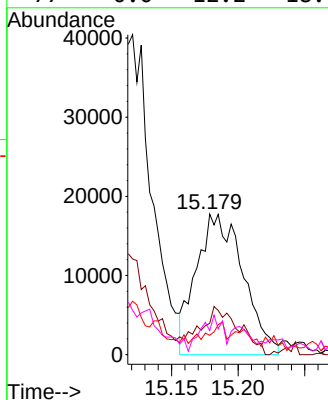
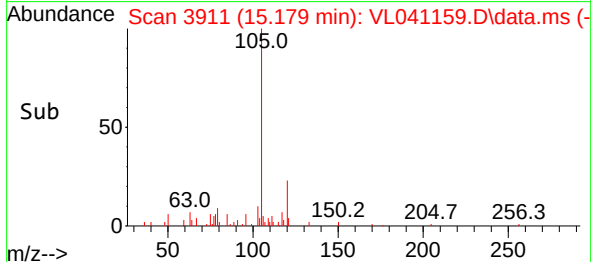
Instrument :
MSVOA_L
ClientSampleId :
SV1



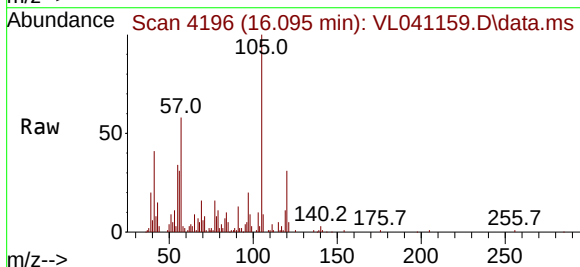
Tgt Ion:105	Resp:	43470
Ion Ratio	Lower	Upper
105	100	
120	0.0	24.2
91	19.2	11.2
77	0.0	12.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/24/2024
Supervised By :Mahesh Dadoda 04/24/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.338 ppbv m
RT: 16.095 min Scan# 4196
Delta R.T. -0.000 min
Lab File: VL041159.D
Acq: 23 Apr 2024 14:00



Tgt Ion:105	Resp:	104439
Ion Ratio	Lower	Upper
105	100	
120	30.9	38.9
91	13.3	43.0
77	15.9	18.6

