

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
 Data File : VL041574.D
 Acq On : 21 Aug 2024 19:43
 Operator : SY/MD
 Sample : P3709-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

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

Quant Time: Aug 22 01:15:24 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 01:15:24 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	947275	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2533989	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2367336	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.767 95 1851397 10.162 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.751	85	20639	0.127	ppbv	97
3) Chlorodifluoromethane	2.697	51	11419m	0.101	ppbv	
9) Propene	2.722	41	58901	1.137	ppbv	91
10) Heptane	7.581	43	20182	0.173	ppbv	94
13) Ethanol	3.269	45	17806m	3.846	ppbv	
15) Acetone	3.488	43	315917	2.935	ppbv #	76
20) Methylene Chloride	3.944	84	12652	0.315	ppbv #	78
23) Vinyl Acetate	4.639	43	299342	3.642	ppbv #	97
26) Hexane	5.221	57	208306	2.348	ppbv #	31
27) Carbon Disulfide	4.140	76	44403	0.428	ppbv #	88
29) Chloroform	5.275	83	334763	2.314	ppbv	96
30) Cyclohexane	6.603	84	9067m	0.126	ppbv	
34) 2-Butanone	4.803	43	419559	3.423	ppbv	99
38) Trichloroethene	7.291	130	13734	0.162	ppbv	95
41) Tetrahydrofuran	5.581	42	9137m	0.130	ppbv	
51) 2-Hexanone	9.552	43	83061m	0.568	ppbv	
52) Tetrachloroethene	10.610	164	1232480	17.227	ppbv	98
53) Toluene	9.217	91	200748	0.973	ppbv	98
58) Ethyl Benzene	12.085	91	74035	0.271	ppbv	98
59) m/p-Xylene	12.336	91	349723m	1.485	ppbv	
60) o-Xylene	13.053	91	142314	0.639	ppbv	100
72) 4-Ethyltoluene	15.179	105	58951m	0.225	ppbv	
73) 1,3,5-Trimethylbenzene	15.342	105	39843m	0.176	ppbv	
74) 1,2,4-Trimethylbenzene	16.098	105	244958	0.932	ppbv #	70

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

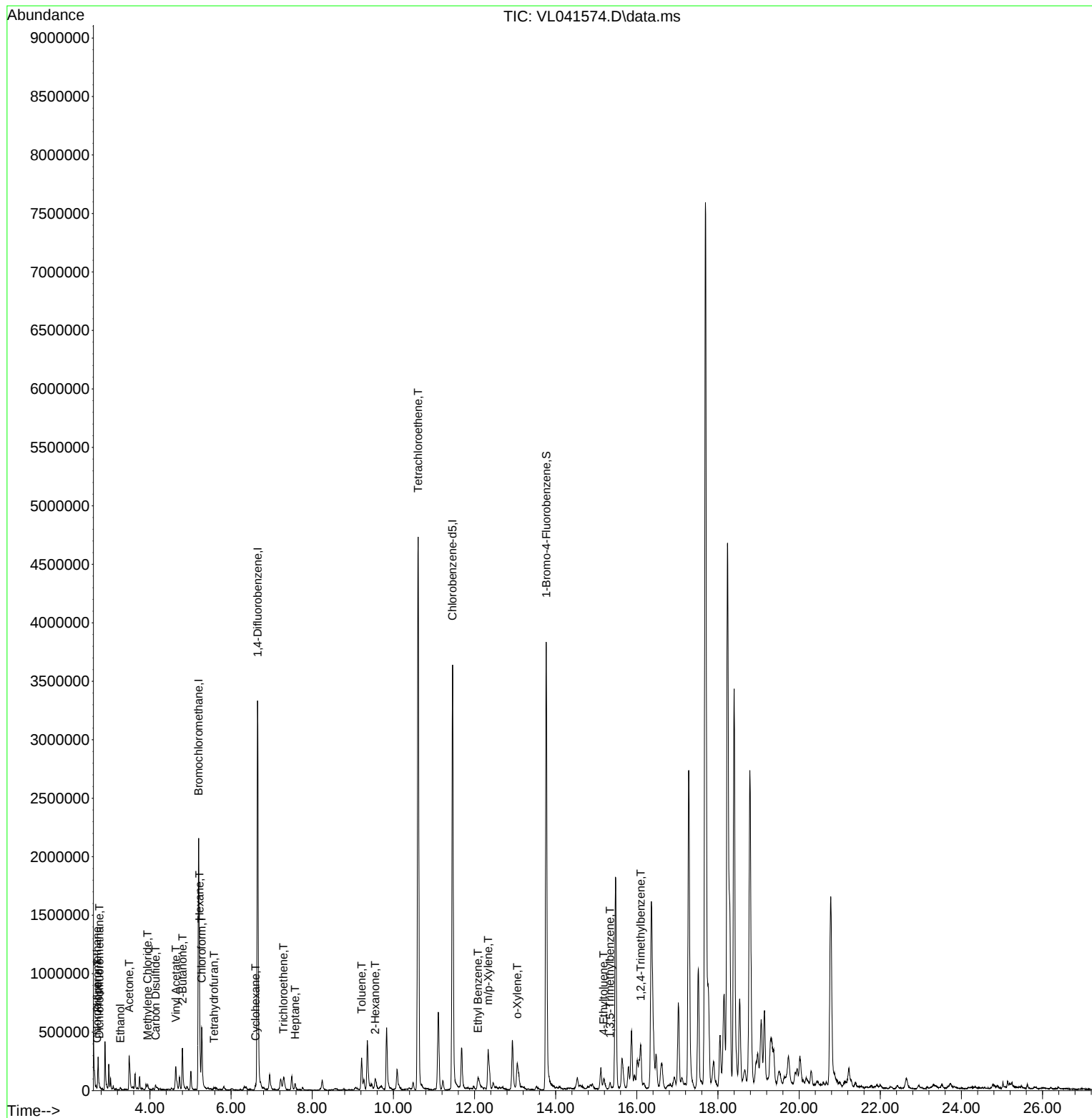
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
Data File : VL041574.D
Acq On : 21 Aug 2024 19:43
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

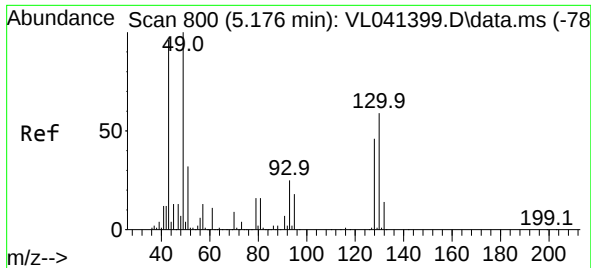
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Aug 22 01:15:24 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

Manual Integrations
APPROVED

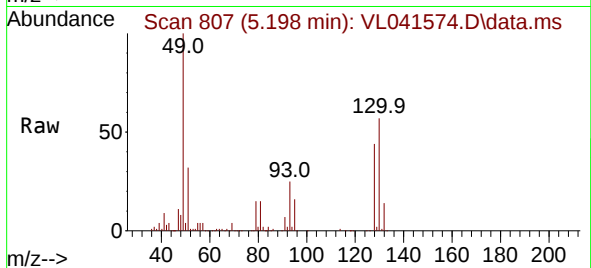
Reviewed By : Semsettin Yesilyurt 08/23/2024
Supervised By : Mahesh Dadoda 08/23/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

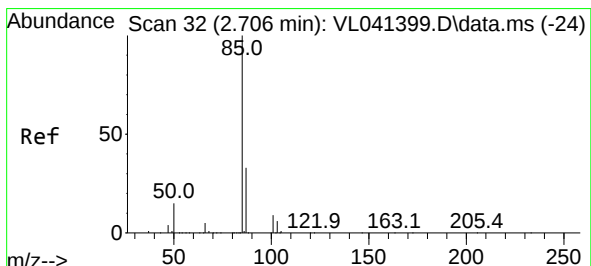
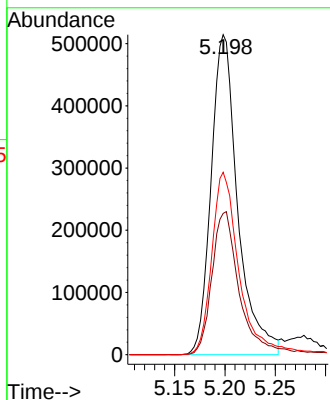
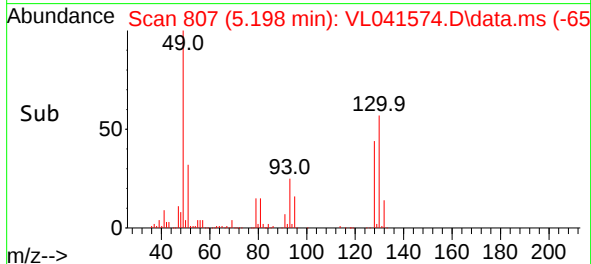
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 947275
Ion Ratio Lower Upper
49 100
128 47.7 23.8 71.4
130 61.0 30.8 92.4

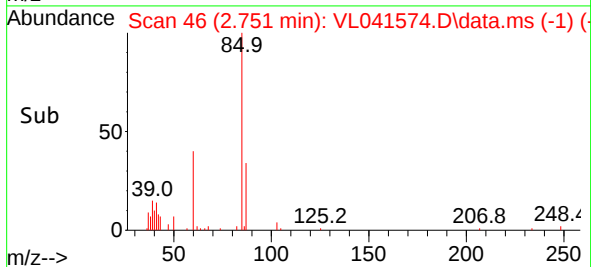
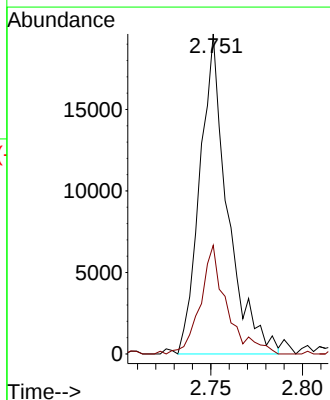
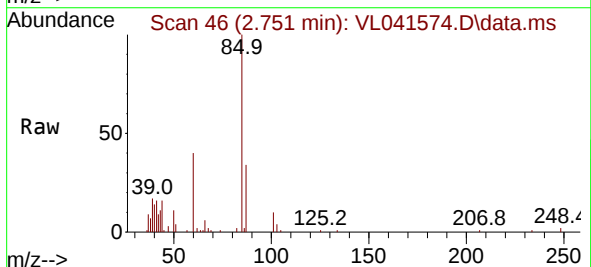
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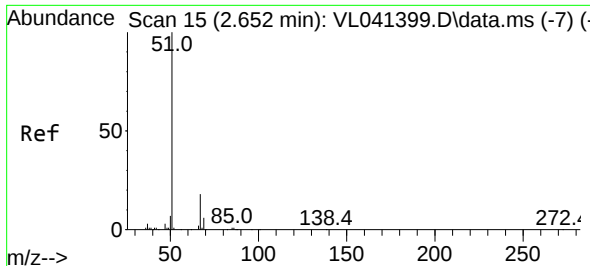
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#2
Dichlorodifluoromethane
Concen: 0.127 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.010 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

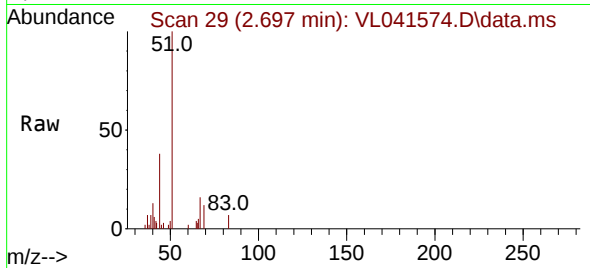
Tgt Ion: 85 Resp: 20639
Ion Ratio Lower Upper
85 100
87 34.0 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.101 ppbv m
RT: 2.697 min Scan# 29
Delta R.T. 0.010 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

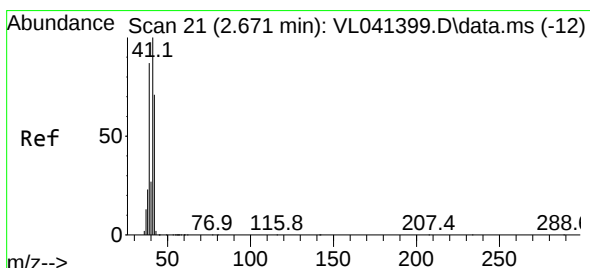
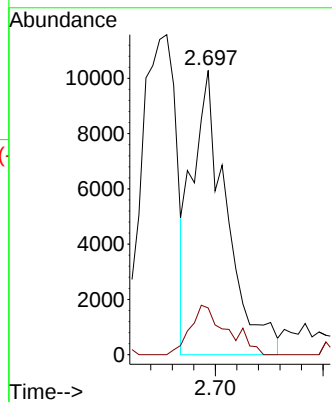
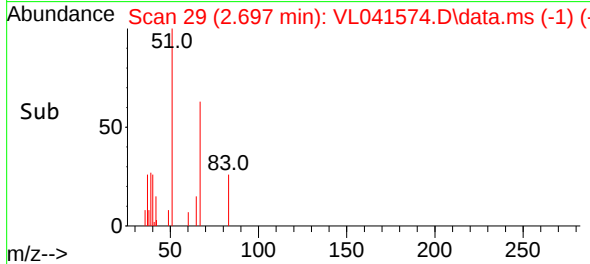
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 51 Resp: 11419
Ion Ratio Lower Upper
51 100
67 18.6 14.5 21.7

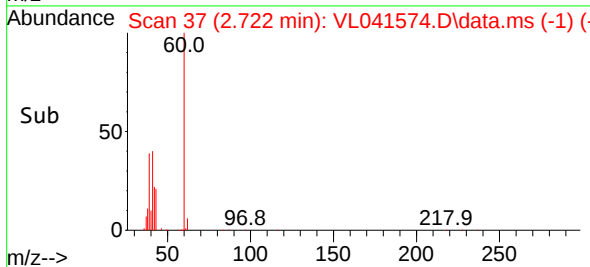
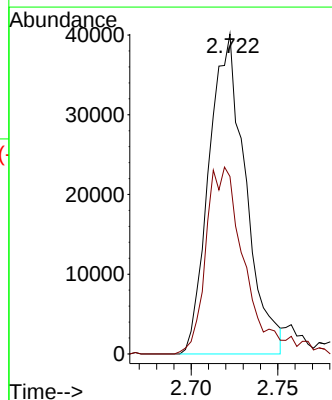
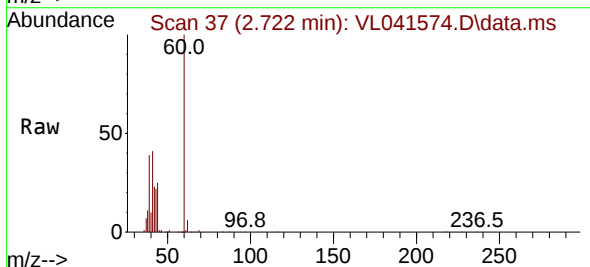
Manual Integrations
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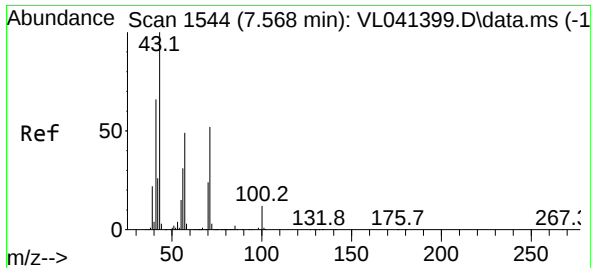
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#9
Propene
Concen: 1.137 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.016 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

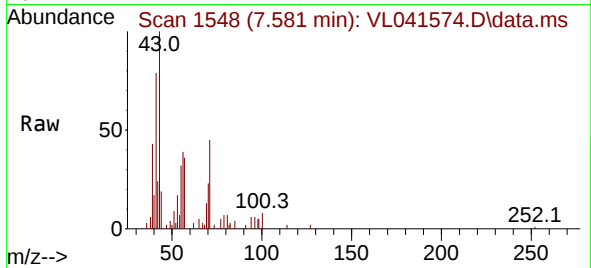
Tgt Ion: 41 Resp: 58901
Ion Ratio Lower Upper
41 100
42 62.8 55.9 83.9





#10
Heptane
Concen: 0.173 ppbv
RT: 7.581 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

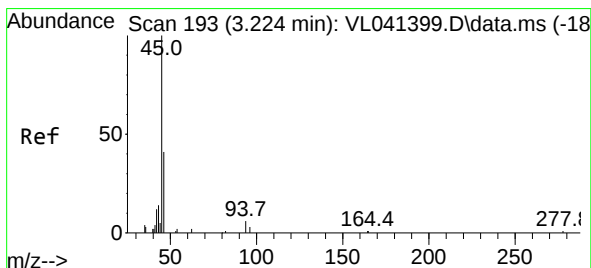
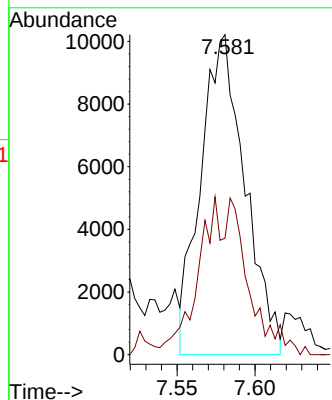
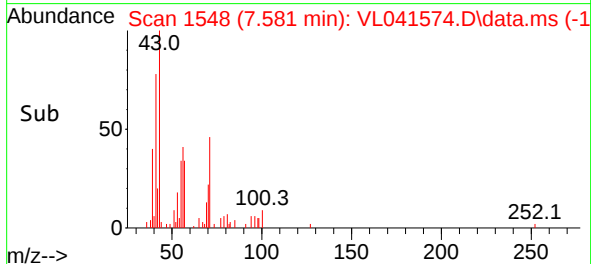
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 2018
Ion Ratio Lower Upper
43 100
57 54.6 40.5 60.7

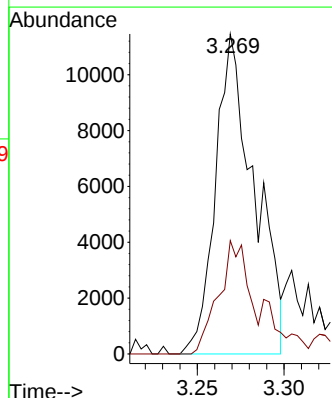
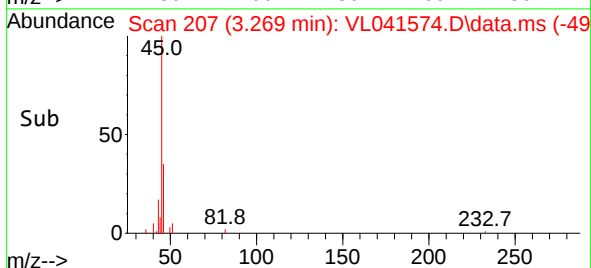
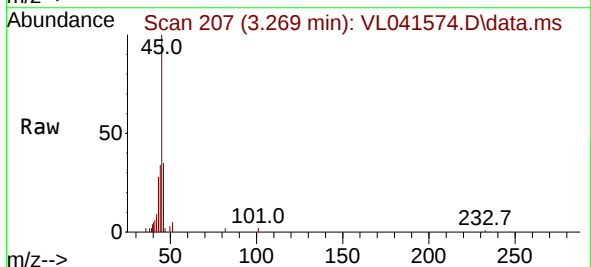
Manual Integrations
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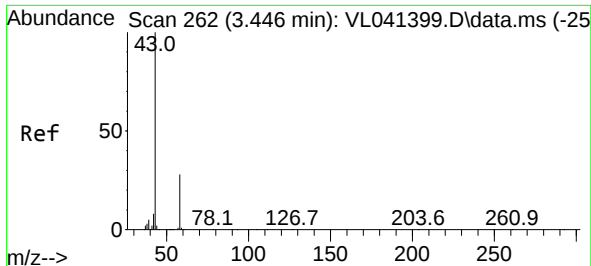
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#13
Ethanol
Concen: 3.846 ppbv m
RT: 3.269 min Scan# 207
Delta R.T. 0.010 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

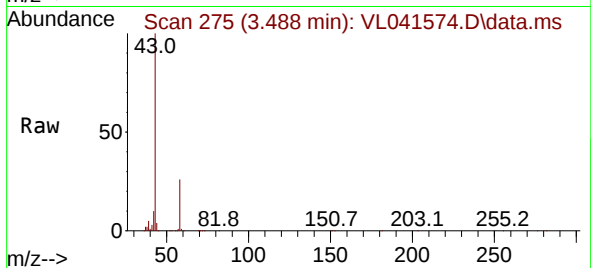
Tgt Ion: 45 Resp: 17806
Ion Ratio Lower Upper
45 100
46 39.9 13.4 53.4





#15
Acetone
Concen: 2.935 ppbv
RT: 3.488 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

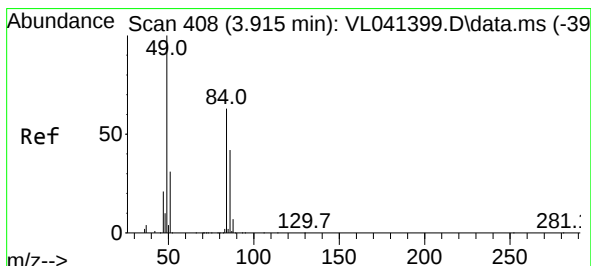
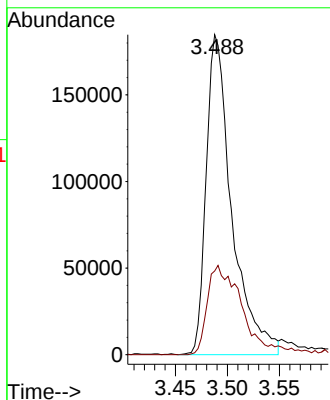
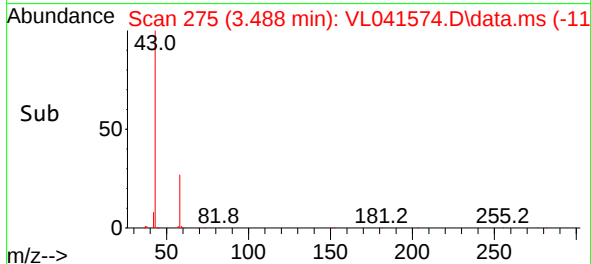
Instrument :
MSVOA_L
ClientSampleId :
SV2



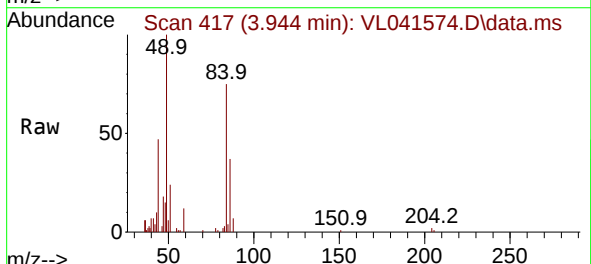
Tgt Ion: 43 Resp: 31591
Ion Ratio Lower Upper
43 100
58 39.0 21.4 32.2

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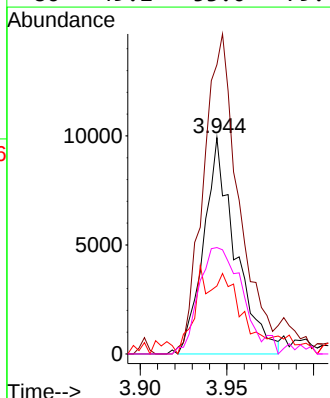
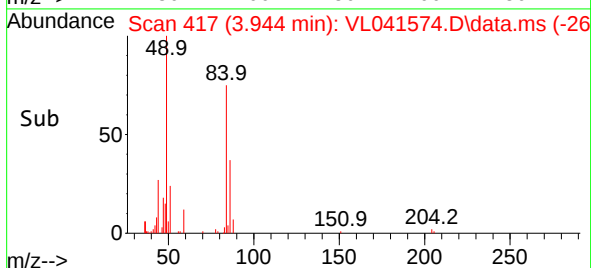
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

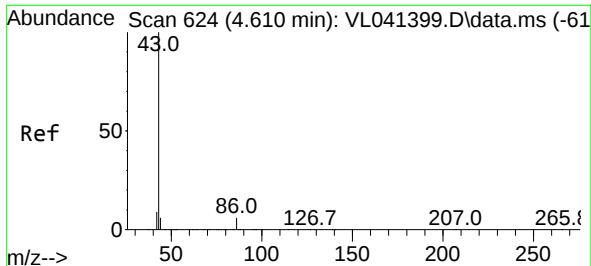


#20
Methylene Chloride
Concen: 0.315 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.003 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43



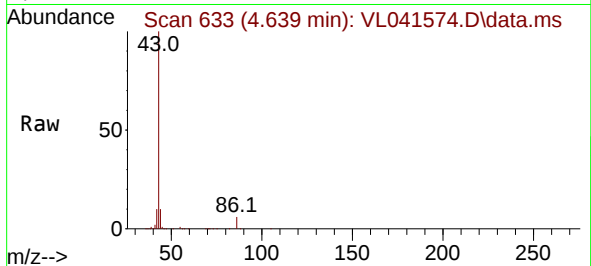
Tgt Ion: 84 Resp: 12652
Ion Ratio Lower Upper
84 100
49 130.6 126.6 190.0
51 31.4 38.6 58.0#
86 49.2 53.0 79.4#





#23
 Vinyl Acetate
 Concen: 3.642 ppbv
 RT: 4.639 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL041574.D
 Acq: 21 Aug 2024 19:43

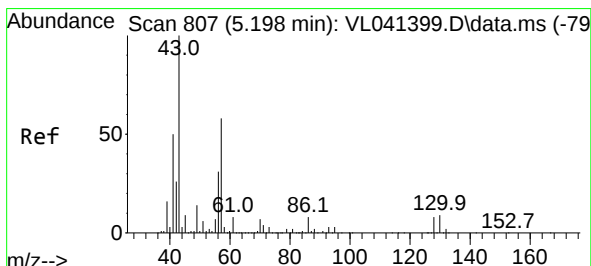
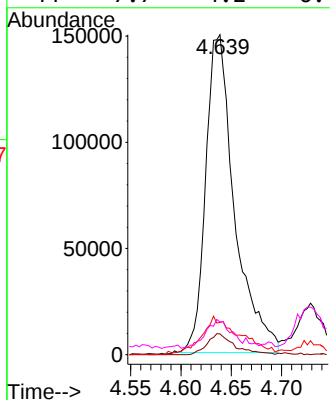
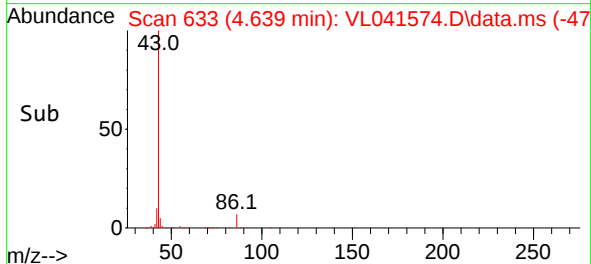
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion: 43 Resp: 29934
 Ion Ratio Lower Upper
 43 100
 86 6.5 4.6 6.8
 42 9.2 7.9 11.9
 44 7.7 4.2 6.4#

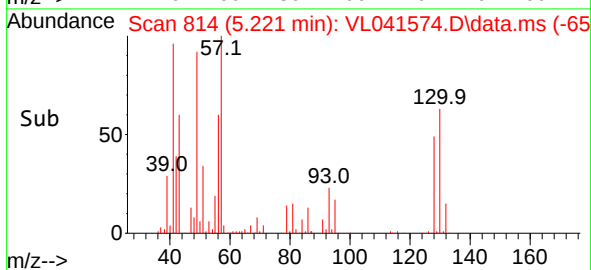
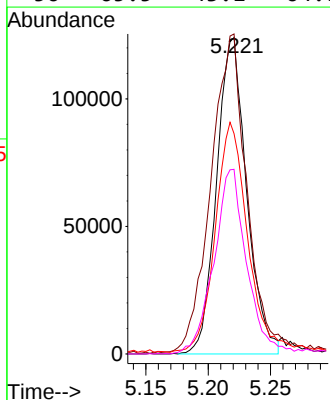
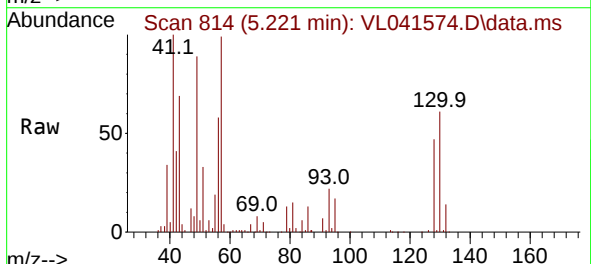
Manual Integrations
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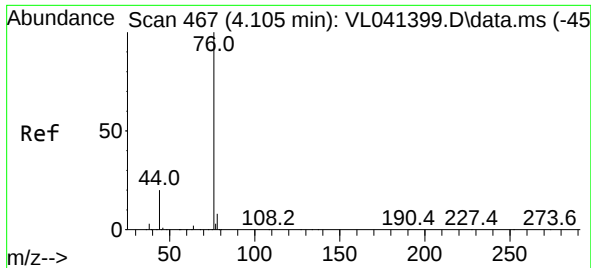
Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024



#26
 Hexane
 Concen: 2.348 ppbv
 RT: 5.221 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL041574.D
 Acq: 21 Aug 2024 19:43

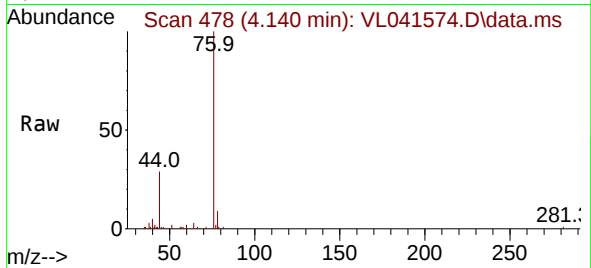
Tgt Ion: 57 Resp: 208306
 Ion Ratio Lower Upper
 57 100
 41 124.4 74.0 111.0#
 43 80.7 193.6 290.4#
 56 65.5 43.1 64.7#





#27
Carbon Disulfide
Concen: 0.428 ppbv
RT: 4.140 min Scan# 411
Delta R.T. 0.010 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

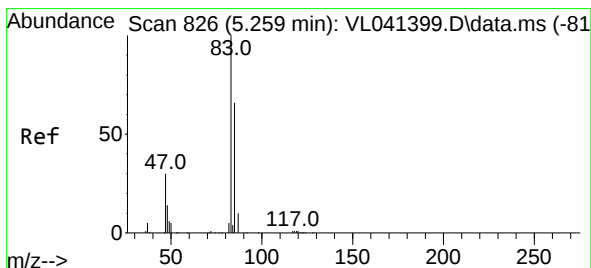
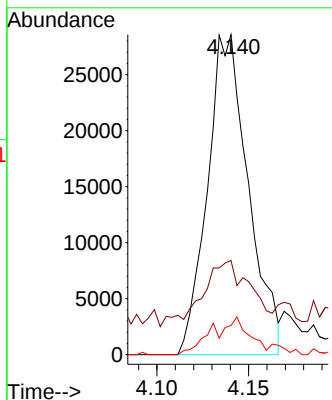
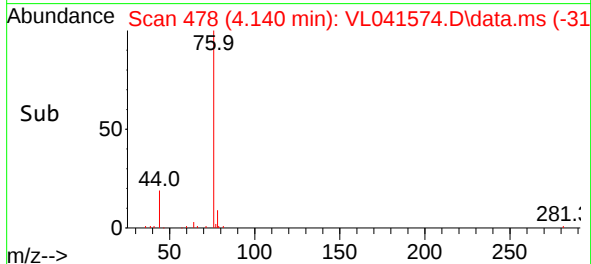
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 76 Resp: 4440
Ion Ratio Lower Upper
76 100
44 26.2 15.6 23.4
78 12.5 7.7 11.5

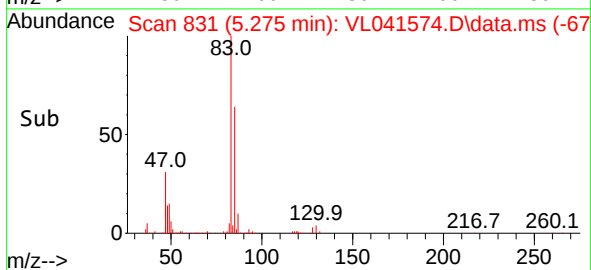
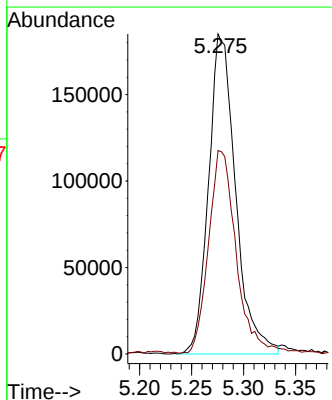
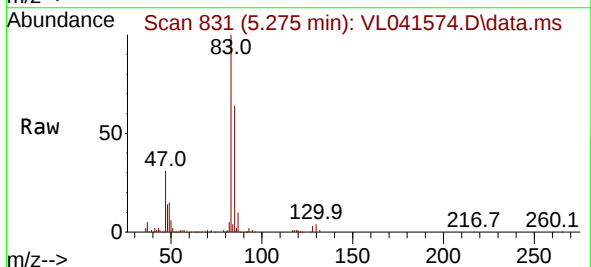
Manual Integrations
APPROVED

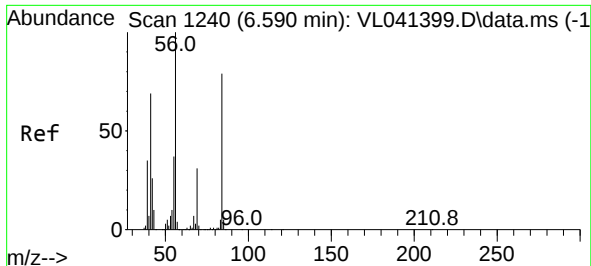
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#29
Chloroform
Concen: 2.314 ppbv
RT: 5.275 min Scan# 831
Delta R.T. -0.003 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

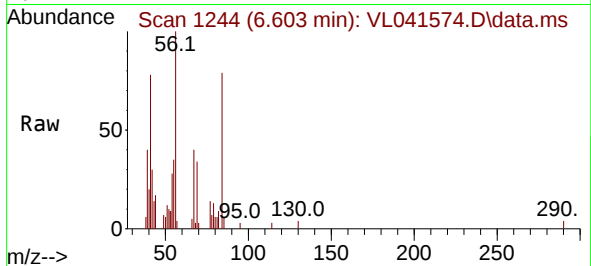
Tgt Ion: 83 Resp: 334763
Ion Ratio Lower Upper
83 100
85 63.2 53.1 79.7





#30
Cyclohexane
Concen: 0.126 ppbv m
RT: 6.603 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

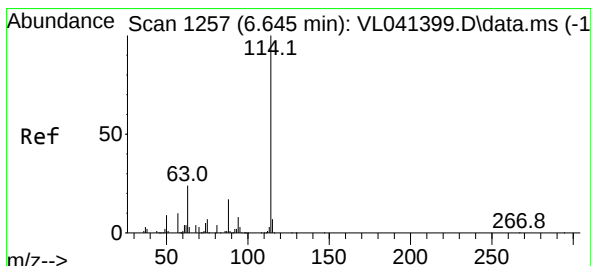
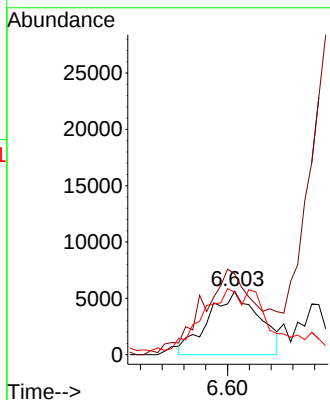
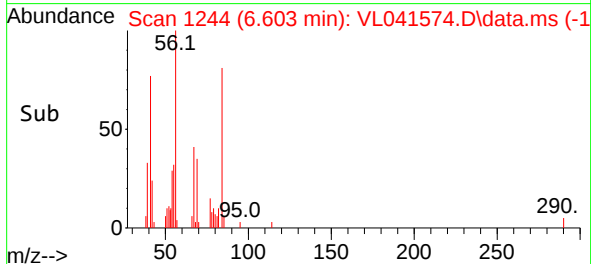
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 906
Ion Ratio Lower Upper
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56 144.2 111.2 166.8
41 151.6 70.3 105.5

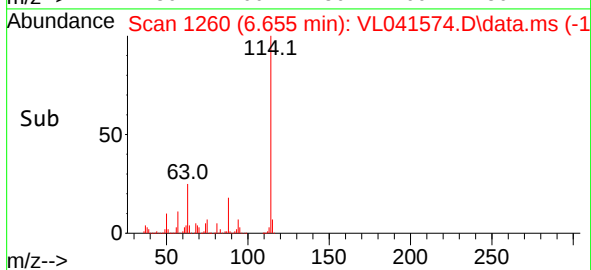
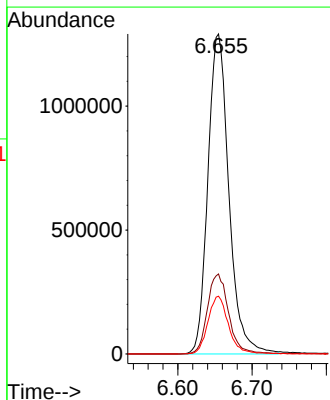
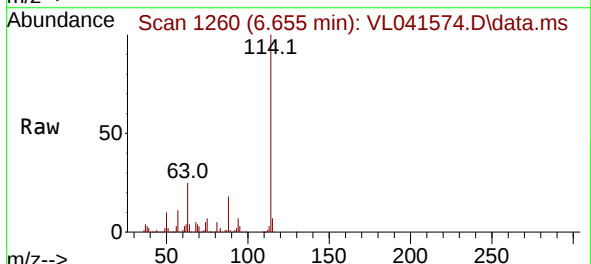
Manual Integrations
APPROVED

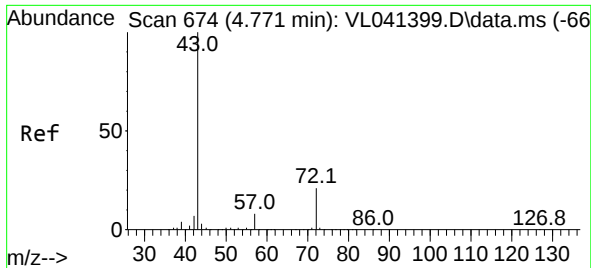
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.000 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

Tgt Ion:114 Resp: 2533989
Ion Ratio Lower Upper
114 100
63 25.3 20.3 30.5
88 17.8 14.3 21.5





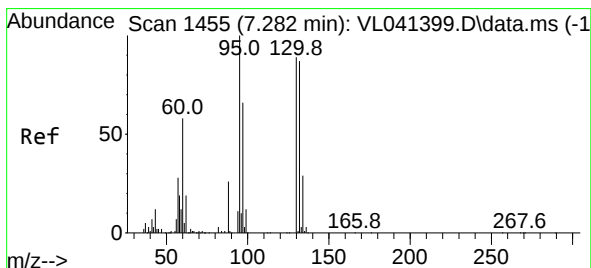
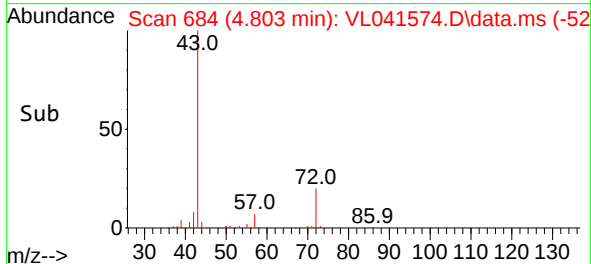
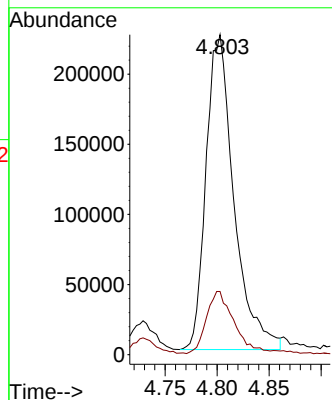
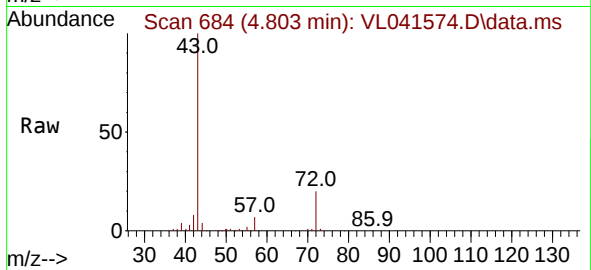
#34
2-Butanone
Concen: 3.423 ppbv
RT: 4.803 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 41955
Ion Ratio Lower Upper
43 100
72 22.1 17.3 25.9

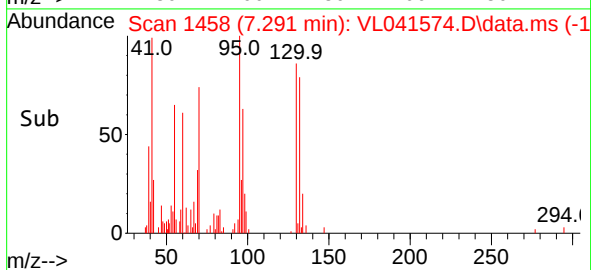
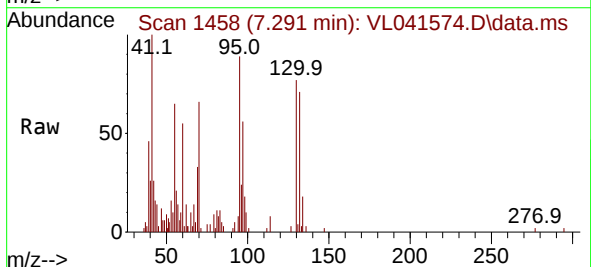
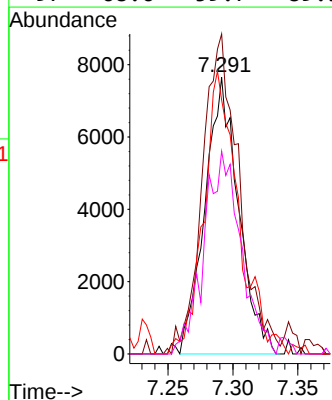
Manual Integrations
APPROVED

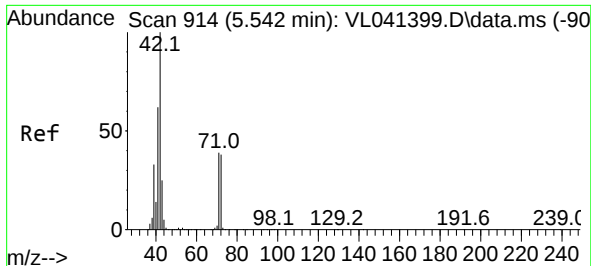
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#38
Trichloroethene
Concen: 0.162 ppbv
RT: 7.291 min Scan# 1458
Delta R.T. -0.000 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

Tgt Ion:130 Resp: 13734
Ion Ratio Lower Upper
130 100
95 112.8 90.2 135.2
132 87.4 78.1 117.1
97 68.6 59.7 89.5





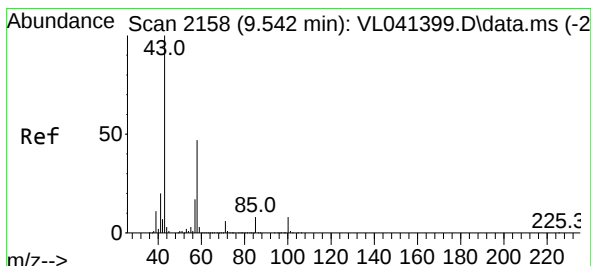
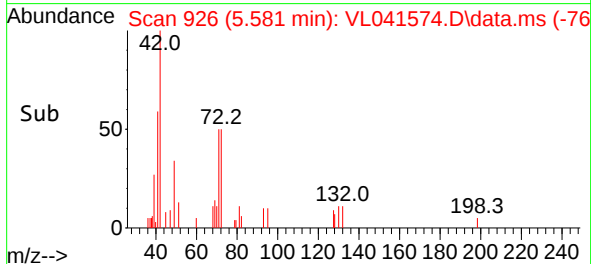
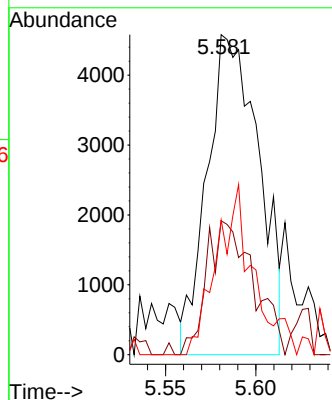
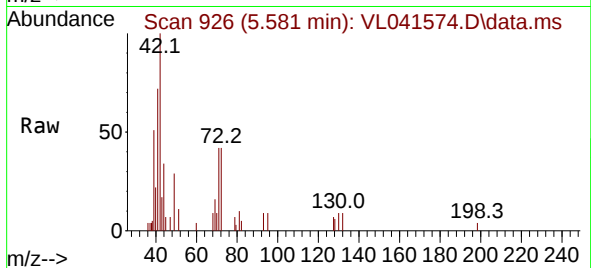
#41
Tetrahydrofuran
Concen: 0.130 ppbv m
RT: 5.581 min Scan# 913
Delta R.T. 0.019 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 42 Resp: 913
Ion Ratio Lower Upper
42 100
72 44.9 31.2 46.8
71 40.7 30.5 45.7

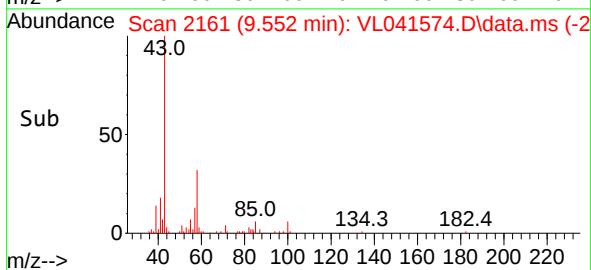
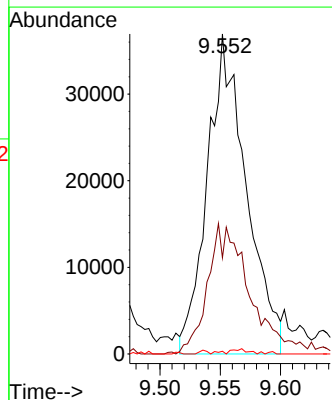
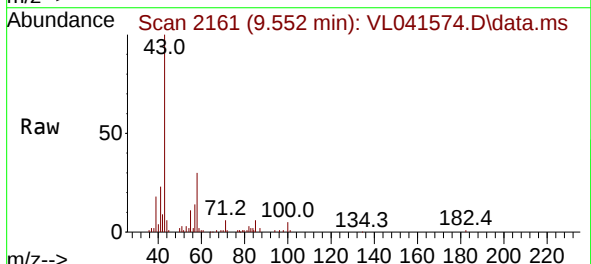
Manual Integrations
APPROVED

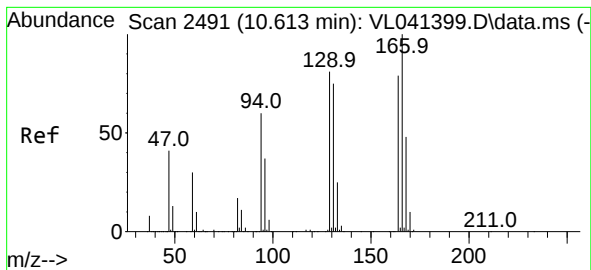
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#51
2-Hexanone
Concen: 0.568 ppbv m
RT: 9.552 min Scan# 2161
Delta R.T. -0.000 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

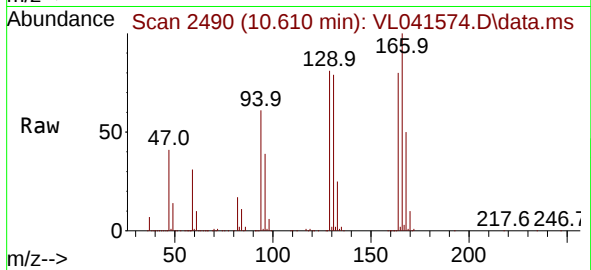
Tgt Ion: 43 Resp: 83061
Ion Ratio Lower Upper
43 100
58 45.5 38.2 57.2
98 0.0 0.3 0.5#





#52
Tetrachloroethene
Concen: 17.227 ppbv
RT: 10.610 min Scan# 2491
Delta R.T. -0.006 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

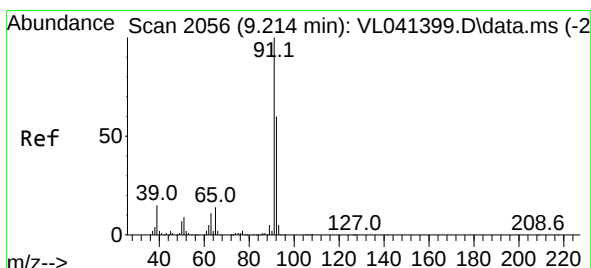
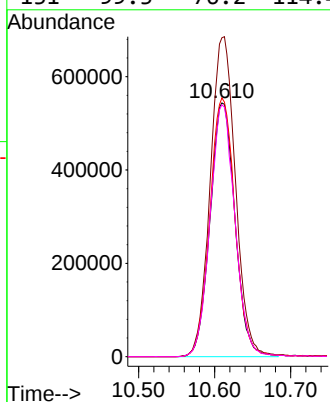
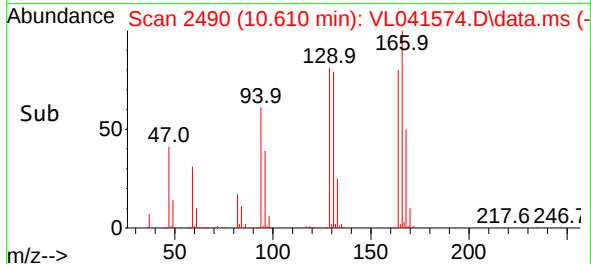
Instrument :
MSVOA_L
ClientSampleId :
SV2



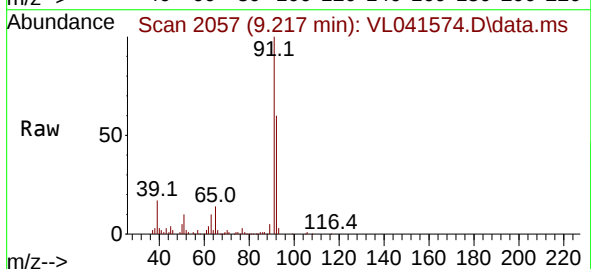
Tgt Ion:164 Resp: 1232480
Ion Ratio Lower Upper
164 100
166 125.6 101.1 151.7
129 102.0 81.7 122.5
131 99.3 76.2 114.4

Manual Integrations
APPROVED

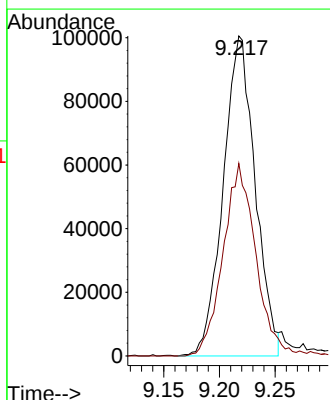
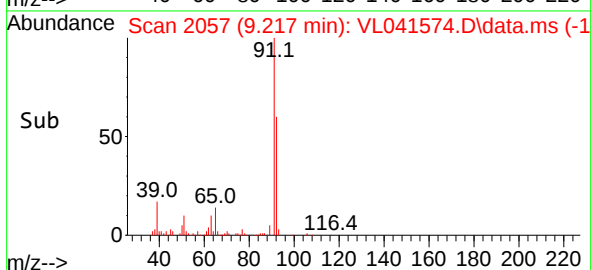
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

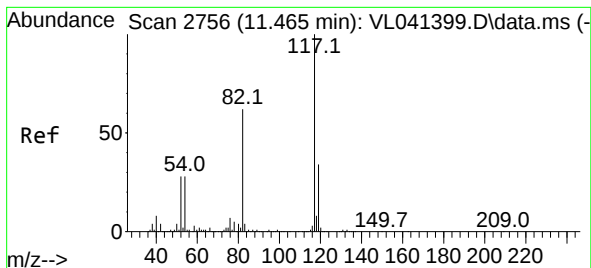


#53
Toluene
Concen: 0.973 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.003 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43



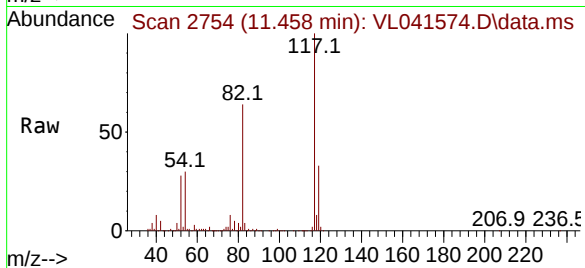
Tgt Ion: 91 Resp: 200748
Ion Ratio Lower Upper
91 100
92 62.1 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

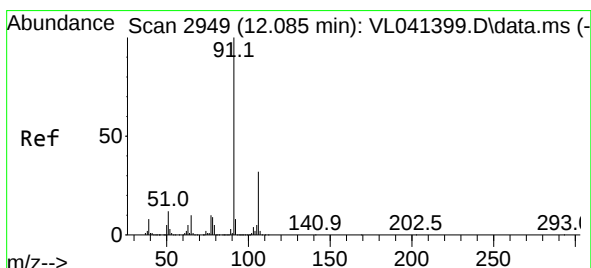
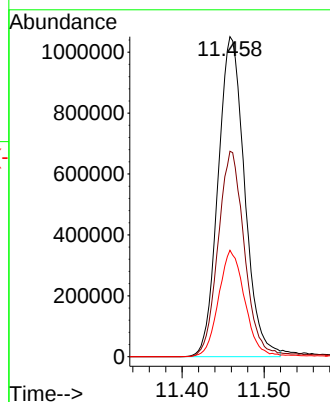
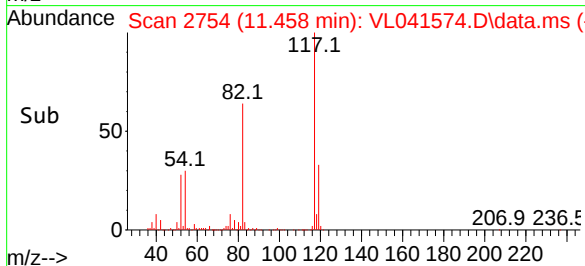
Instrument :
MSVOA_L
ClientSampleId :
SV2



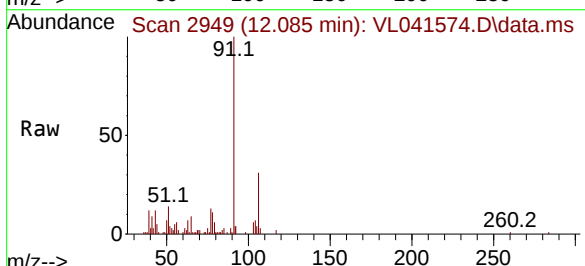
Tgt Ion: 117 Resp: 2367330
Ion Ratio Lower Upper
117 100
82 65.3 51.0 76.6
119 33.1 45.2 67.8

Manual Integrations
APPROVED

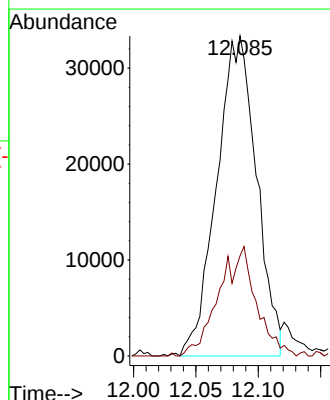
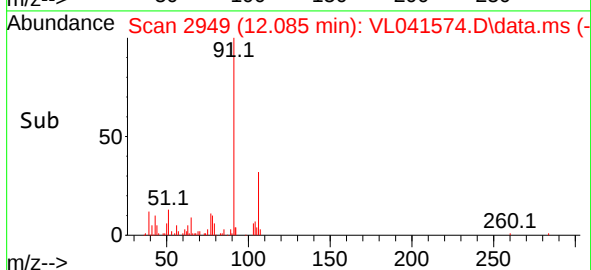
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

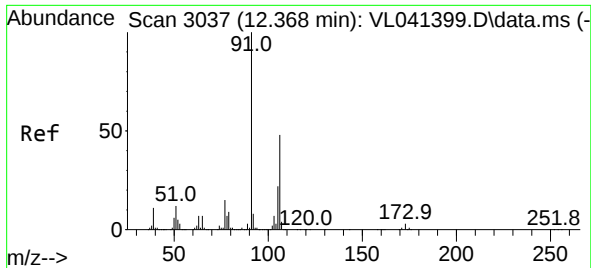


#58
Ethyl Benzene
Concen: 0.271 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. -0.003 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43



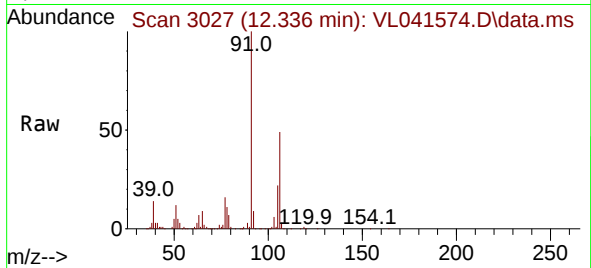
Tgt Ion: 91 Resp: 74035
Ion Ratio Lower Upper
91 100
106 31.3 25.8 38.8





#59
m/p-Xylene
Concen: 1.485 ppbv m
RT: 12.336 min Scan# 3037
Delta R.T. -0.035 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

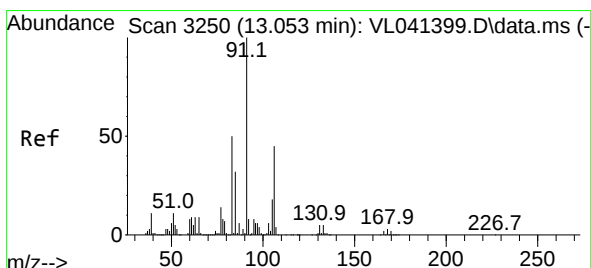
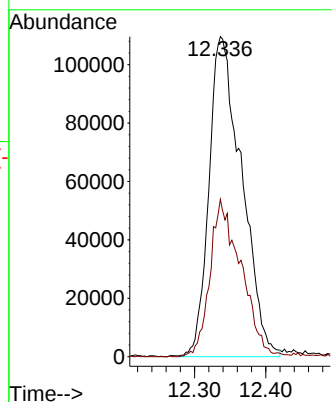
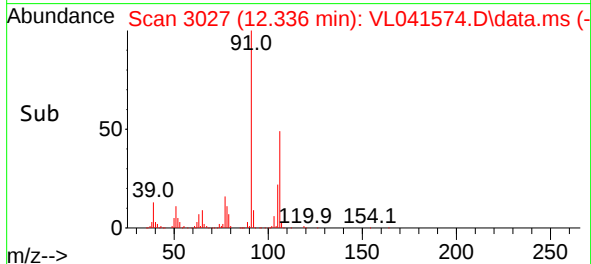
Instrument :
MSVOA_L
ClientSampleId :
SV2



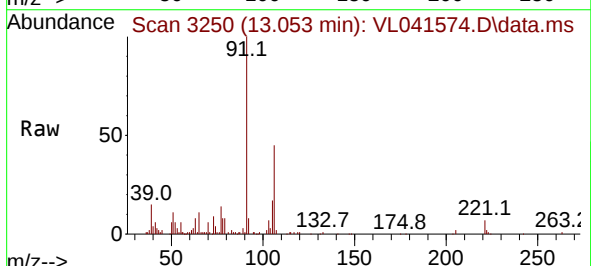
Tgt Ion: 91 Resp: 349723
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5

Manual Integrations
APPROVED

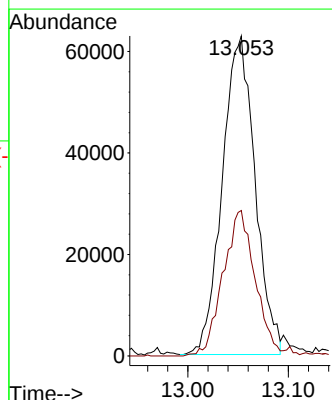
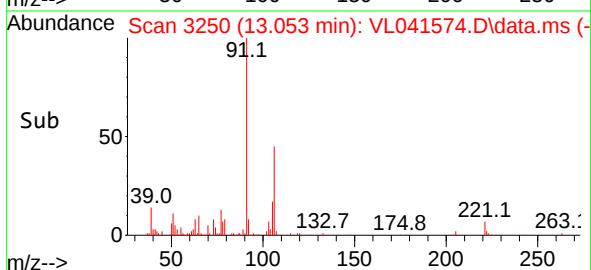
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

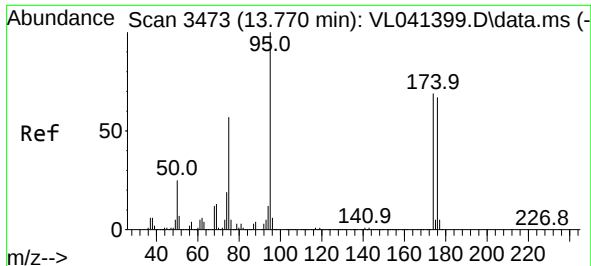


#60
o-Xylene
Concen: 0.639 ppbv
RT: 13.053 min Scan# 3250
Delta R.T. -0.003 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43



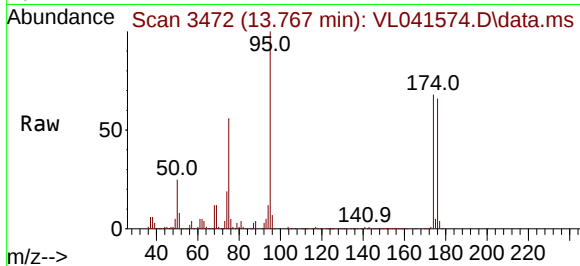
Tgt Ion: 91 Resp: 142314
Ion Ratio Lower Upper
91 100
106 46.3 23.1 69.3





#68
1-Bromo-4-Fluorobenzene
Concen: 10.162 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.006 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43

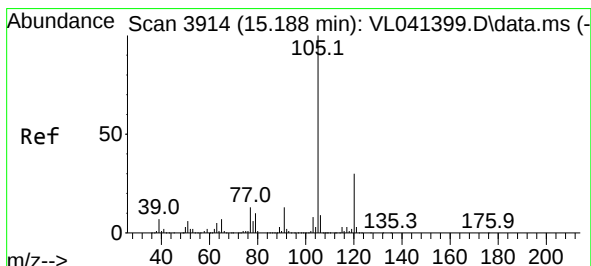
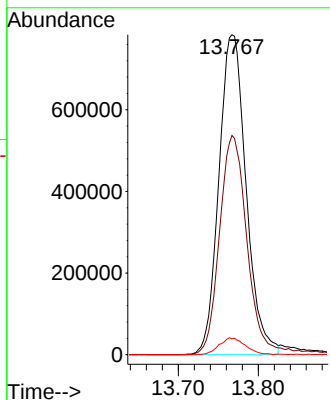
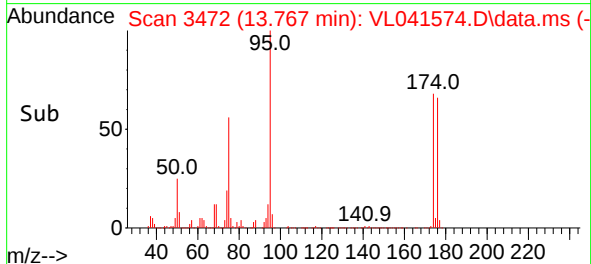
Instrument :
MSVOA_L
ClientSampleId :
SV2



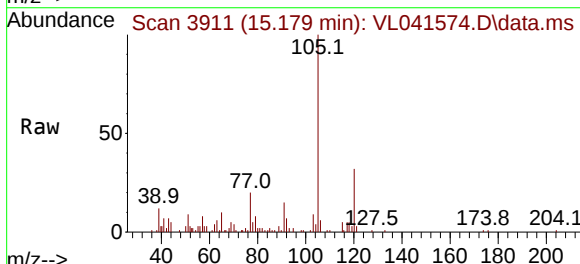
Tgt Ion: 95 Resp: 185139
Ion Ratio Lower Upper
95 100
174 71.4 56.3 84.5
175 5.1 4.0 6.0

Manual Integrations
APPROVED

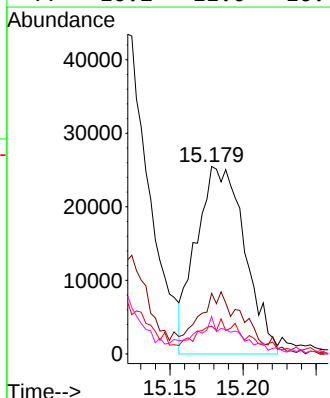
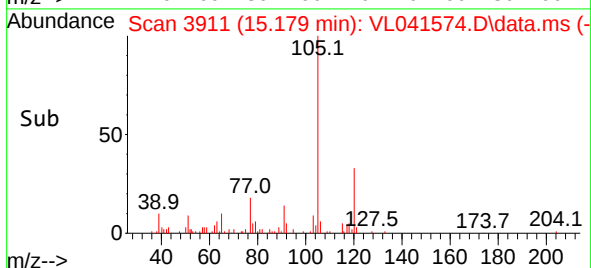
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

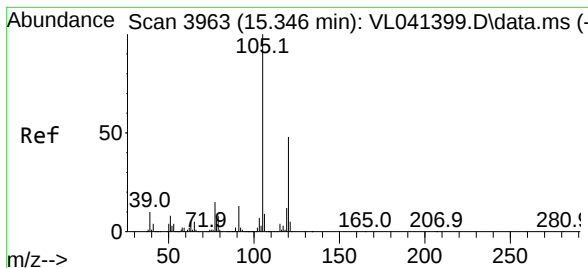


#72
4-Ethyltoluene
Concen: 0.225 ppbv m
RT: 15.179 min Scan# 3911
Delta R.T. -0.010 min
Lab File: VL041574.D
Acq: 21 Aug 2024 19:43



Tgt Ion:105 Resp: 58951
Ion Ratio Lower Upper
105 100
120 0.0 24.2 36.2#
91 0.0 10.4 15.6#
77 16.2 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 0.176 ppbv m

RT: 15.342 min Scan# 3963

Delta R.T. -0.006 min

Lab File: VL041574.D

Acq: 21 Aug 2024 19:43

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:105 Resp: 3984

Ion Ratio Lower Upper

105 100

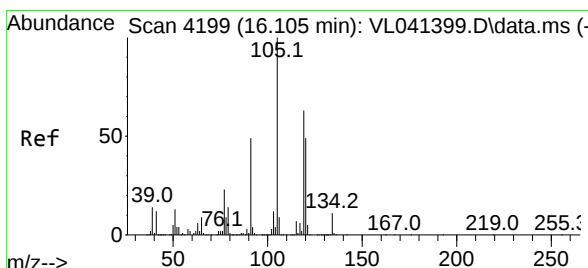
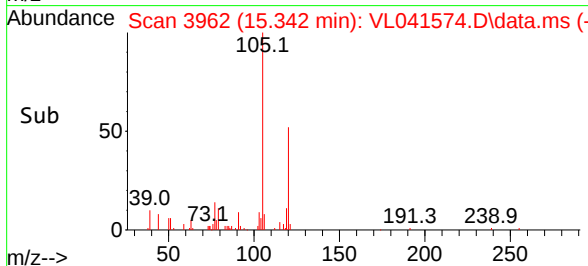
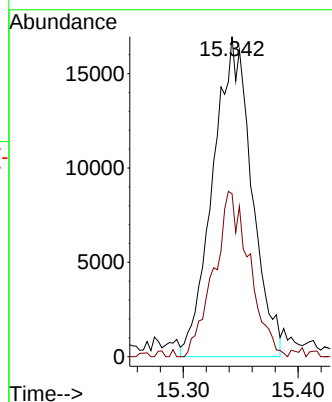
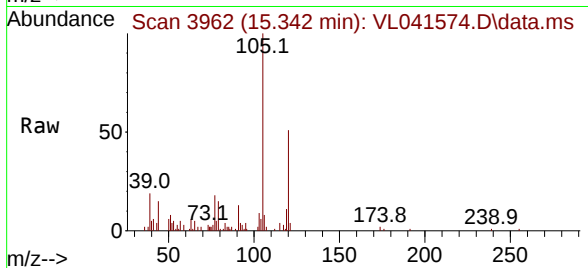
120 51.0 38.6 57.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.932 ppbv

RT: 16.098 min Scan# 4197

Delta R.T. -0.010 min

Lab File: VL041574.D

Acq: 21 Aug 2024 19:43

Tgt Ion:105 Resp: 244958

Ion Ratio Lower Upper

105 100

120 43.0 39.5 59.3

91 11.8 39.8 59.8#

77 13.6 18.2 27.4#

