

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082224\
 Data File : VL041585.D
 Acq On : 22 Aug 2024 13:34
 Operator : SY/MD
 Sample : P3710-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CD132

Manual Integrations
 APPROVED

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

Quant Time: Aug 23 01:31:48 2024

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 23 01:15:26 2024

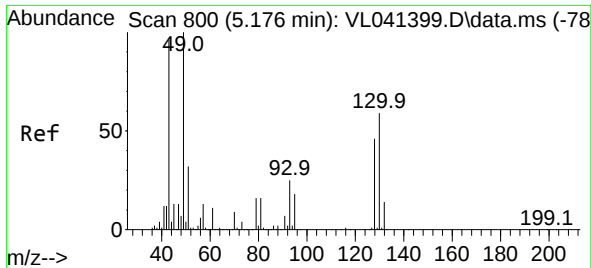
QLast Update : Fri Aug 23 01:15:26 2024

Response via : Initial Calibration

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

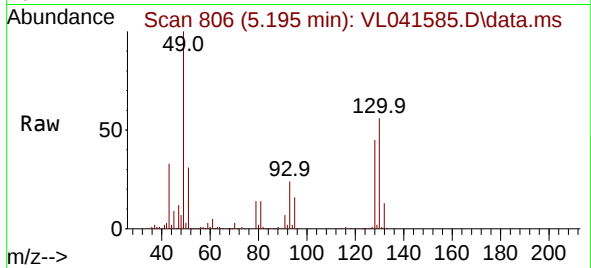
Internal Standards						
1) Bromochloromethane	5.195	49	949483	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2431174	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2277689	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1788253	10.202	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	39442	0.241	ppbv	98
4) Chloromethane	2.832	50	45890	0.763	ppbv	96
9) Propene	2.722	41	115695	2.228	ppbv #	73
10) Heptane	7.571	43	21504m	0.184	ppbv	
11) Trichlorofluoromethane	3.578	101	37872	0.261	ppbv #	76
13) Ethanol	3.253	45	3057353	658.789	ppbv	98
15) Acetone	3.475	43	5572109	51.651	ppbv	100
17) tert-Butyl alcohol	3.899	59	47660m	0.484	ppbv	
19) Isopropyl Alcohol	3.590	45	2800385	44.401	ppbv	99
20) Methylene Chloride	3.944	84	88628	2.203	ppbv	93
25) Ethyl Acetate	5.201	43	430640	2.009	ppbv #	82
26) Hexane	5.211	57	50397m	0.567	ppbv	
29) Chloroform	5.275	83	53096	0.366	ppbv	98
34) 2-Butanone	4.790	43	225638	1.919	ppbv	99
35) Carbon Tetrachloride	6.494	117	9002m	0.067	ppbv	
36) Benzene	6.368	78	39398	0.222	ppbv #	91
37) 1,2-Dichloroethane	5.806	62	181265	1.823	ppbv	99
44) 2,2,4-Trimethylpentane	7.323	57	122767	0.414	ppbv #	80
52) Tetrachloroethene	10.609	164	143500	2.091	ppbv	99
53) Toluene	9.214	91	1428041	7.217	ppbv	100
58) Ethyl Benzene	12.076	91	69080	0.263	ppbv	98
59) m/p-Xylene	12.336	91	156116m	0.689	ppbv	
60) o-Xylene	13.043	91	59936m	0.280	ppbv	
61) Styrene	12.883	104	54251m	0.561	ppbv	
69) p-Isopropyltoluene	16.979	119	33952m	0.101	ppbv	
74) 1,2,4-Trimethylbenzene	16.101	105	35536m	0.141	ppbv	
79) Naphthalene	21.368	128	25153m	0.113	ppbv	

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

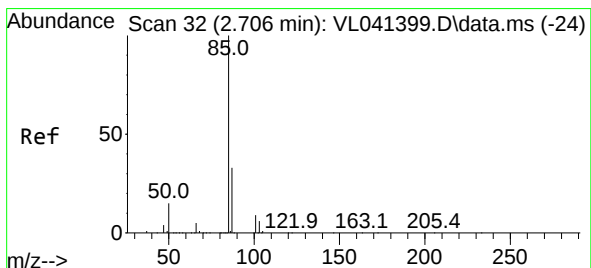
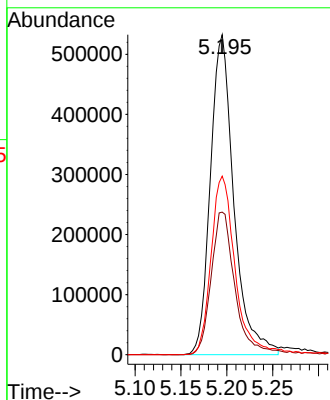
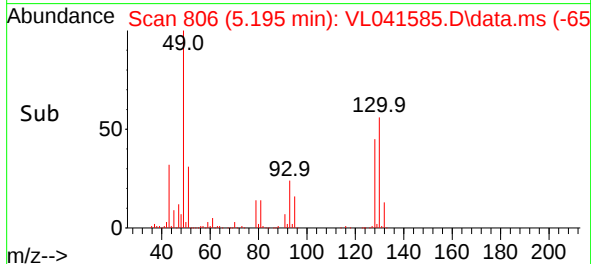
Instrument :
MSVOA_L
ClientSampleId :
CD132



Tgt Ion: 49 Resp: 94948
Ion Ratio Lower Upper
49 100
128 46.4 23.8 71.4
130 59.1 30.8 92.4

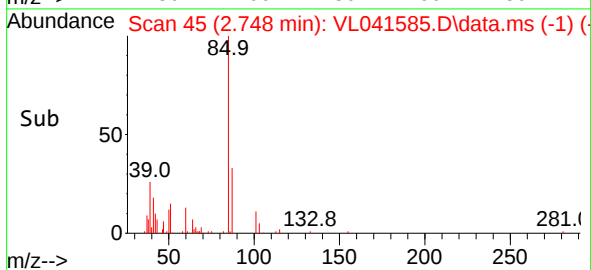
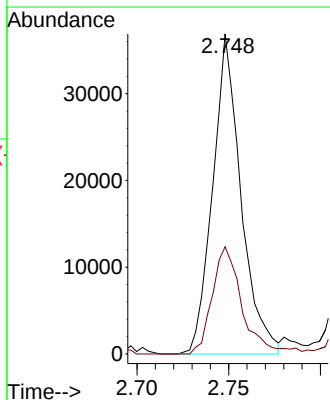
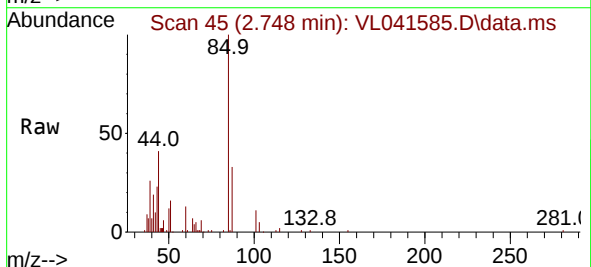
Manual Integrations
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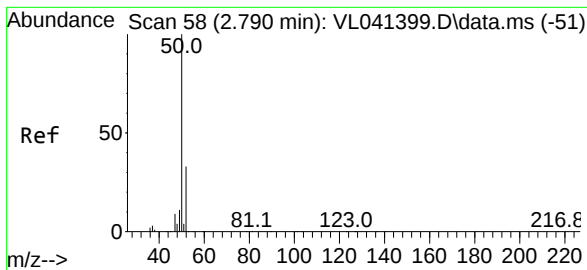
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#2
Dichlorodifluoromethane
Concen: 0.241 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

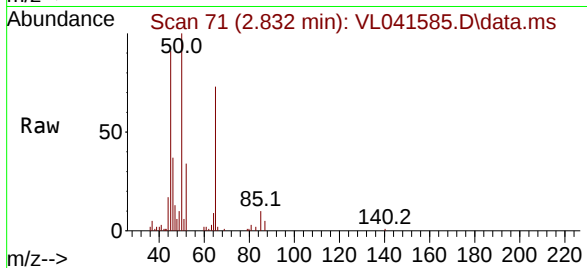
Tgt Ion: 85 Resp: 39442
Ion Ratio Lower Upper
85 100
87 33.5 26.0 39.0





#4
Chloromethane
Concen: 0.763 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

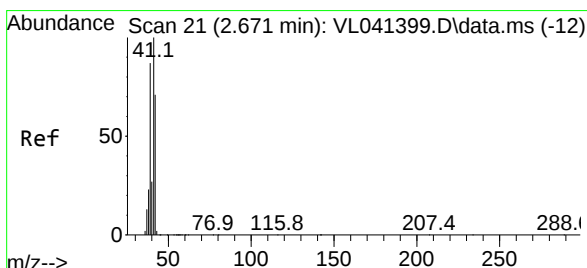
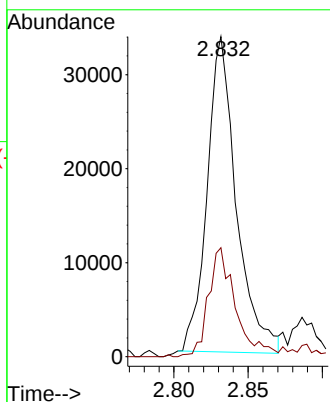
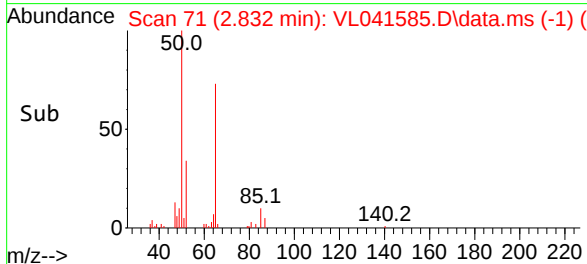
Instrument :
MSVOA_L
ClientSampleId :
CD132



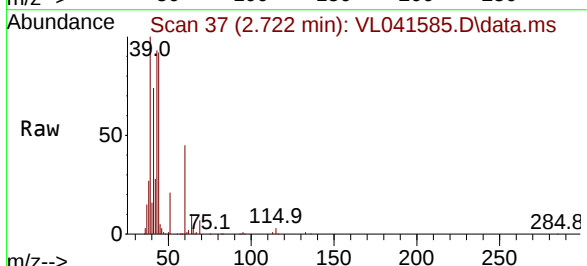
Tgt Ion: 50 Resp: 45890
Ion Ratio Lower Upper
50 100
52 34.7 26.1 39.1

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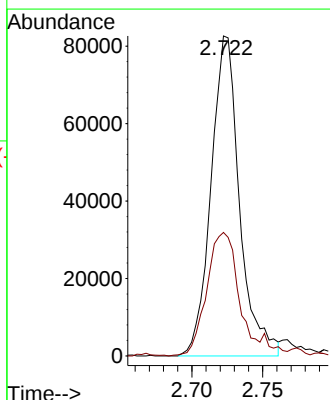
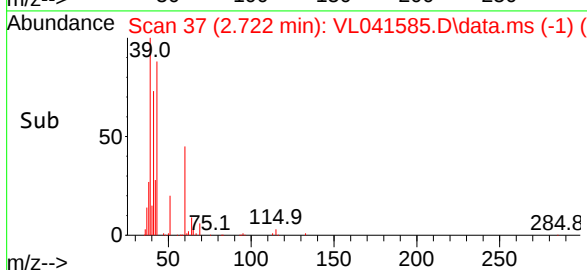
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

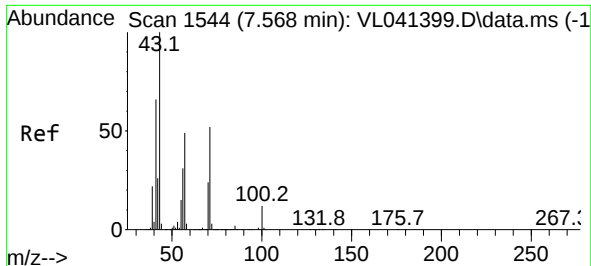


#9
Propene
Concen: 2.228 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.013 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34



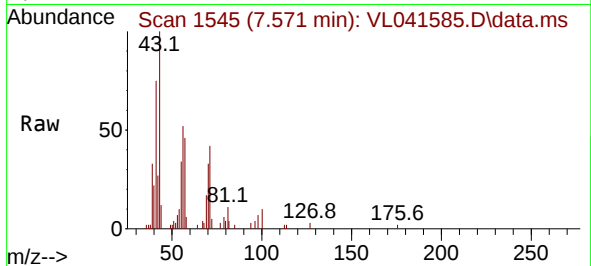
Tgt Ion: 41 Resp: 115695
Ion Ratio Lower Upper
41 100
42 47.6 55.9 83.9#





#10
Heptane
Concen: 0.184 ppbv m
RT: 7.571 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

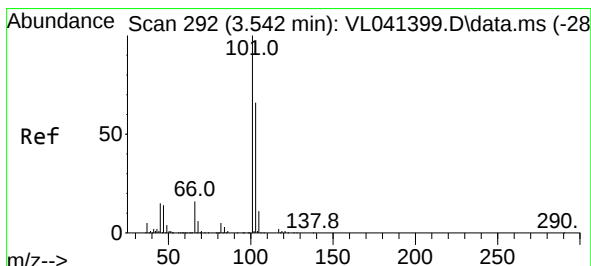
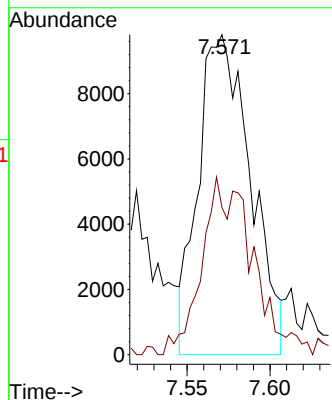
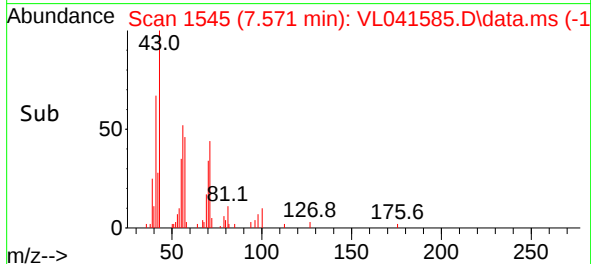
Instrument :
MSVOA_L
ClientSampleId :
CD132



Tgt Ion: 43 Resp: 21504
Ion Ratio Lower Upper
43 100
57 54.8 40.5 60.7

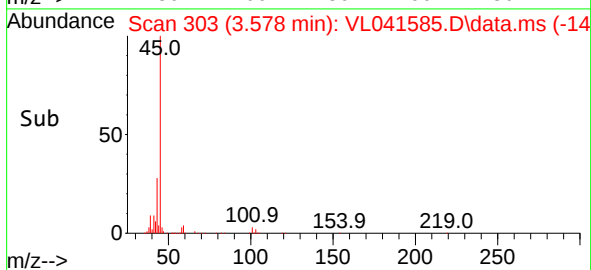
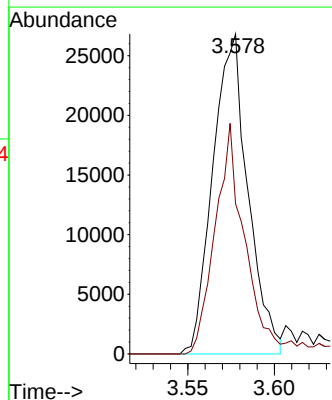
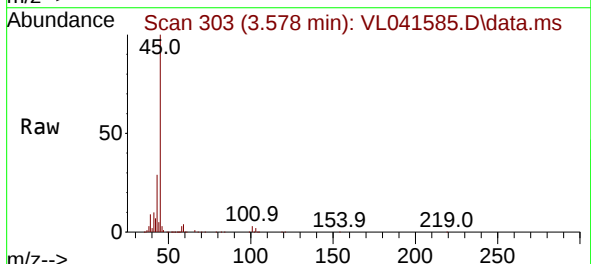
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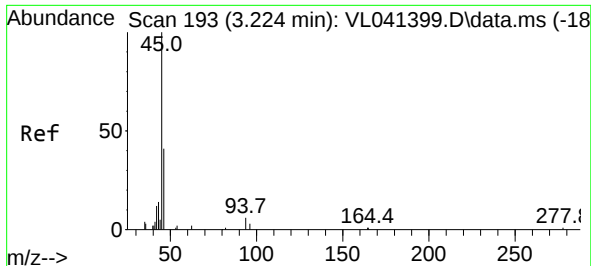
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#11
Trichlorofluoromethane
Concen: 0.261 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.006 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

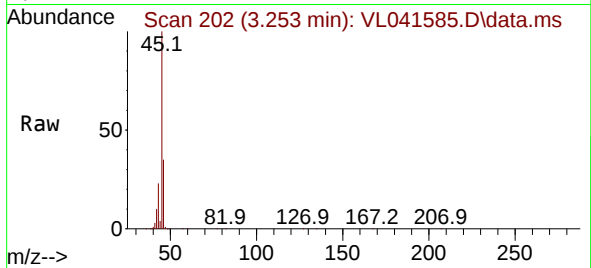
Tgt Ion:101 Resp: 37872
Ion Ratio Lower Upper
101 100
103 46.9 52.6 79.0#





#13
Ethanol
Concen: 658.789 ppbv
RT: 3.253 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

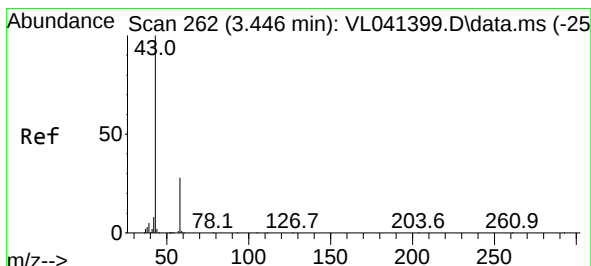
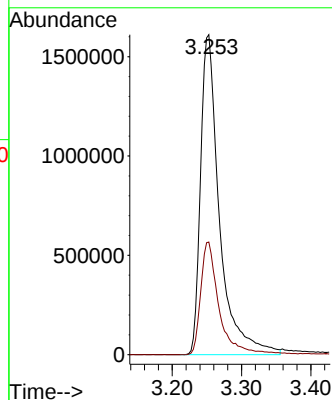
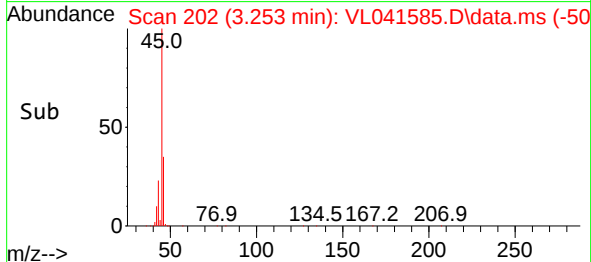
Instrument :
MSVOA_L
ClientSampleId :
CD132



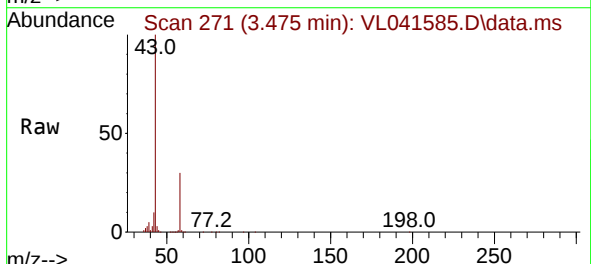
Tgt Ion: 45 Resp: 305735
Ion Ratio Lower Upper
45 100
46 34.7 13.4 53.4

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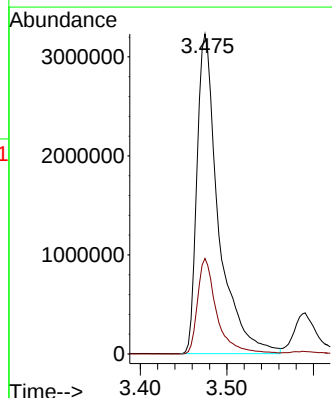
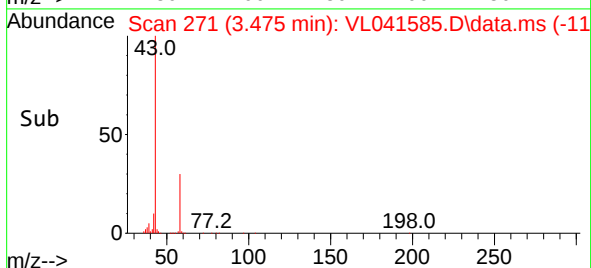
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

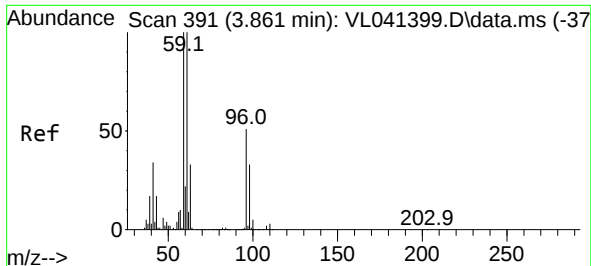


#15
Acetone
Concen: 51.651 ppbv
RT: 3.475 min Scan# 271
Delta R.T. -0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34



Tgt Ion: 43 Resp: 5572109
Ion Ratio Lower Upper
43 100
58 26.8 21.4 32.2





#17

tert-Butyl alcohol

Concen: 0.484 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.016 min

Lab File: VL041585.D

Acq: 22 Aug 2024 13:34

Instrument :

MSVOA_L

ClientSampleId :

CD132

Tgt Ion: 59 Resp: 47660

Ion Ratio Lower Upper

59 100

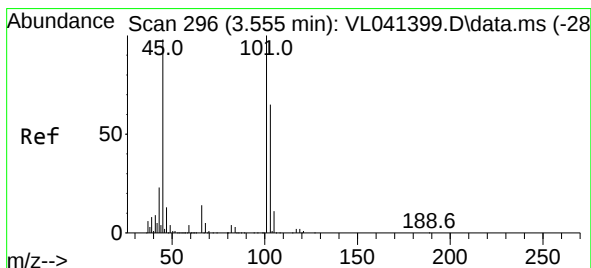
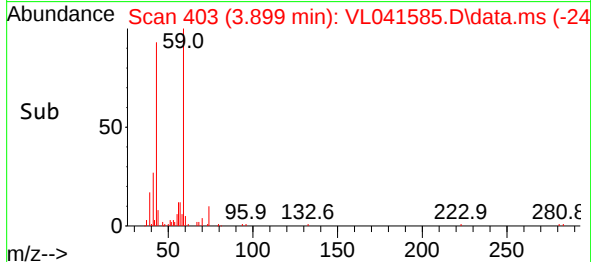
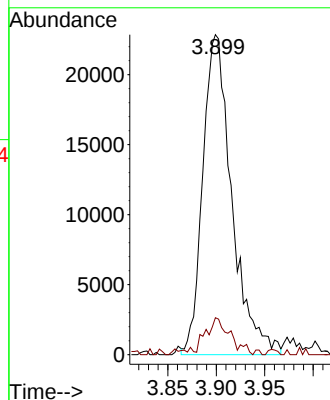
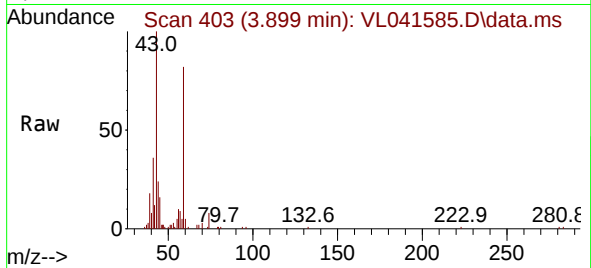
57 0.0 8.6 12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#19

Isopropyl Alcohol

Concen: 44.401 ppbv

RT: 3.590 min Scan# 307

Delta R.T. 0.006 min

Lab File: VL041585.D

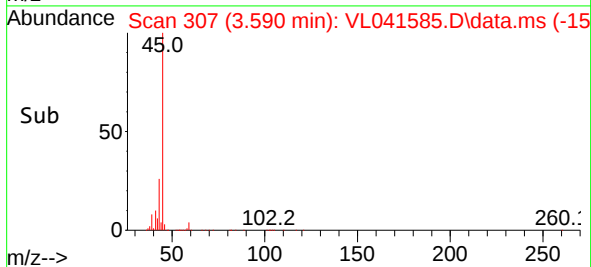
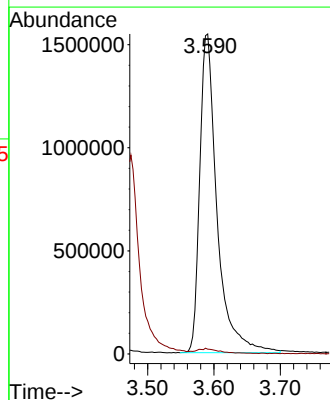
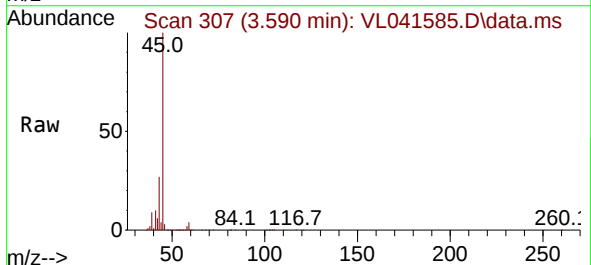
Acq: 22 Aug 2024 13:34

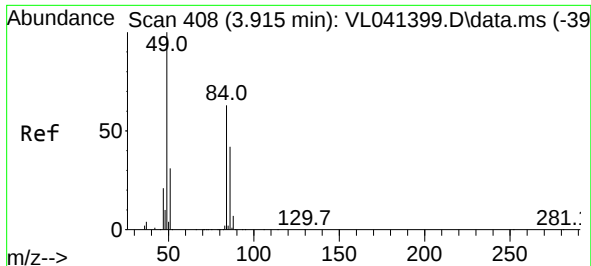
Tgt Ion: 45 Resp: 2800385

Ion Ratio Lower Upper

45 100

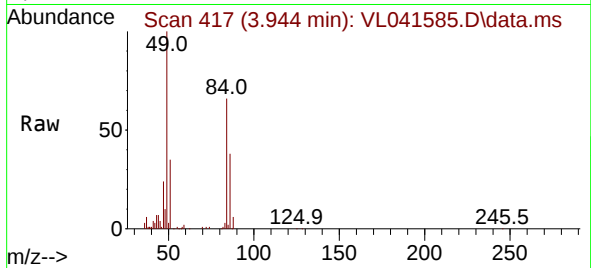
58 2.6 1.9 2.9





#20
Methylene Chloride
Concen: 2.203 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.006 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

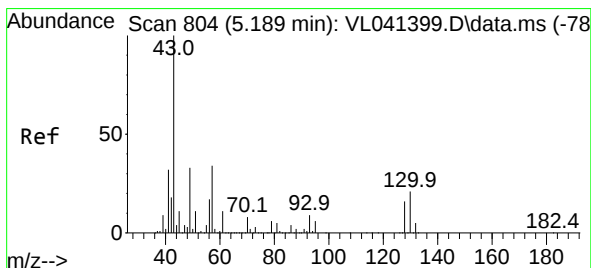
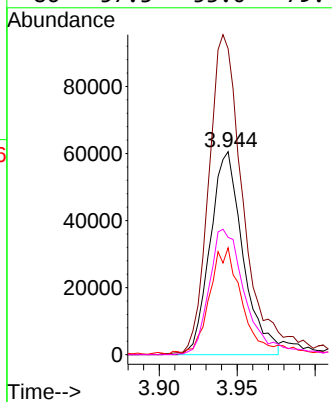
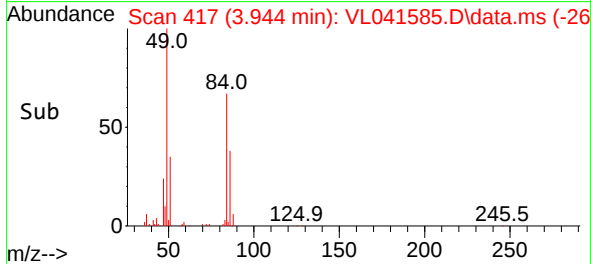
Instrument :
MSVOA_L
ClientSampleId :
CD132



Tgt Ion: 84 Resp: 88628
Ion Ratio Lower Upper
84 100
49 149.6 126.6 190.0
51 51.2 38.6 58.0
86 57.3 53.0 79.4

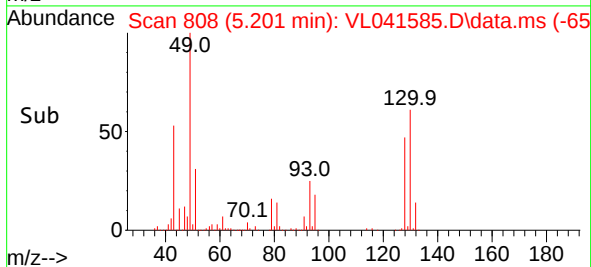
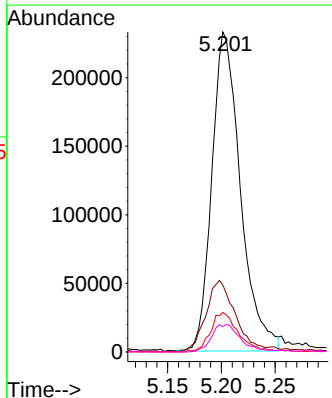
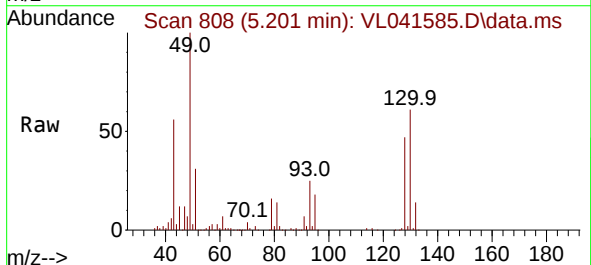
Manual Integrations
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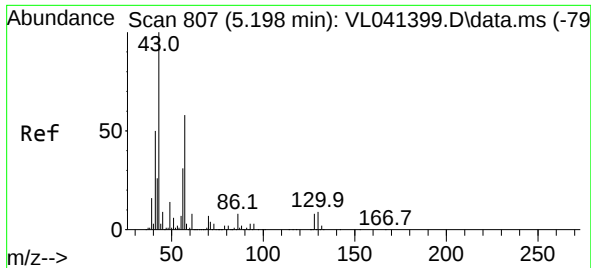
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#25
Ethyl Acetate
Concen: 2.009 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

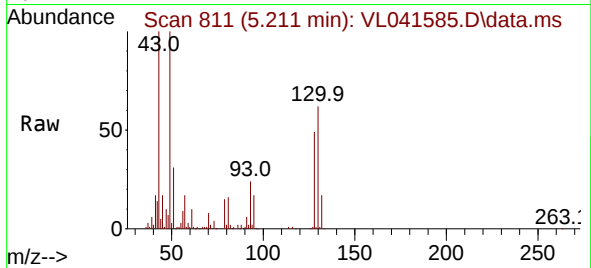
Tgt Ion: 43 Resp: 430640
Ion Ratio Lower Upper
43 100
45 24.6 8.5 12.7#
61 12.6 8.0 12.0#
70 9.2 5.9 8.9#





#26
Hexane
Concen: 0.567 ppbv m
RT: 5.211 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

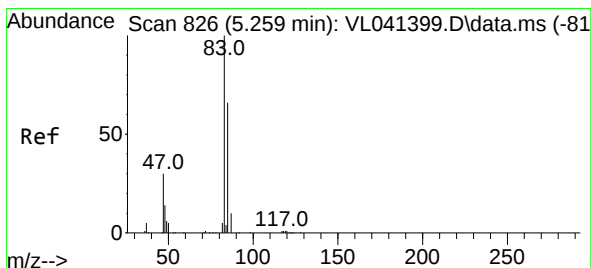
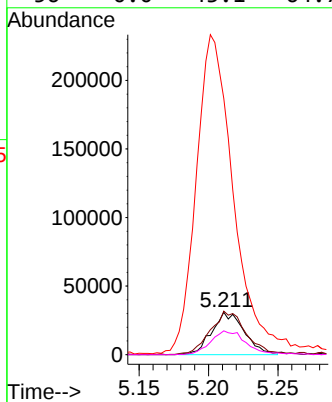
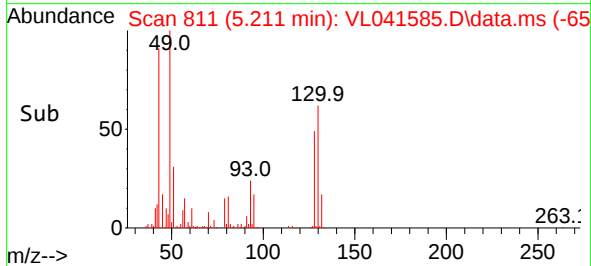
Instrument :
MSVOA_L
ClientSampleId :
CD132



Tgt Ion: 57 Resp: 50397
Ion Ratio Lower Upper
57 100
41 0.0 74.0 111.0
43 0.0 193.6 290.4
56 0.0 43.1 64.7#

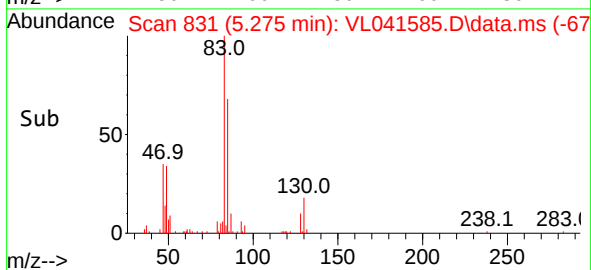
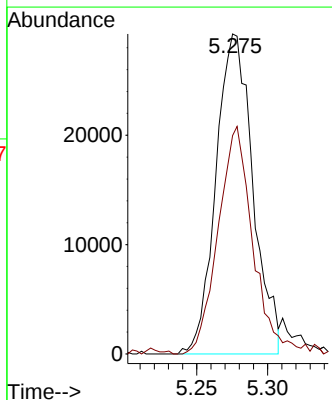
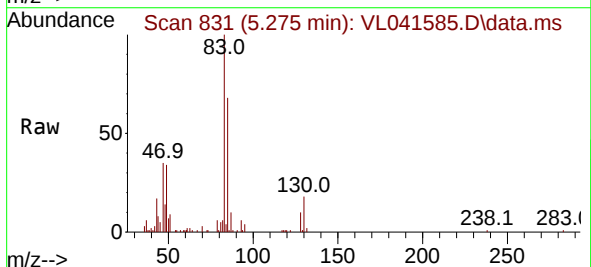
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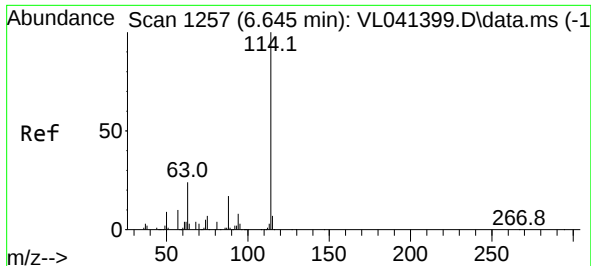
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#29
Chloroform
Concen: 0.366 ppbv
RT: 5.275 min Scan# 831
Delta R.T. 0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

Tgt Ion: 83 Resp: 53096
Ion Ratio Lower Upper
83 100
85 68.2 53.1 79.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL041585.D

Acq: 22 Aug 2024 13:34

Instrument :

MSVOA_L

ClientSampleId :

CD132

Tgt Ion:114 Resp: 2431174

Ion Ratio Lower Upper

114 100

63 25.3 20.3 30.5

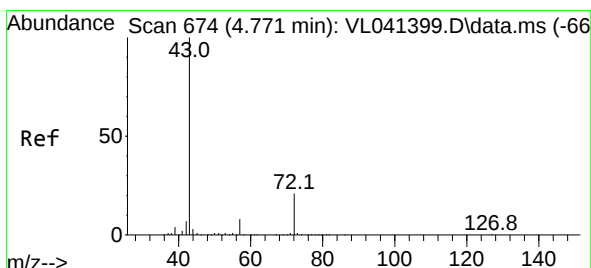
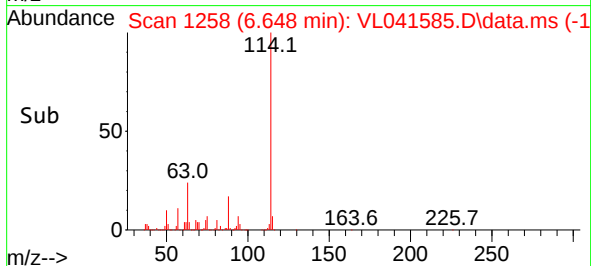
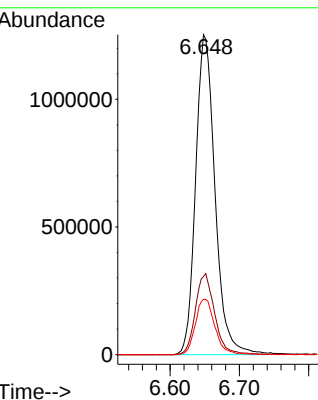
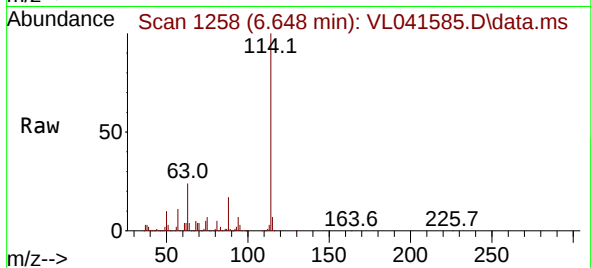
88 17.6 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#34

2-Butanone

Concen: 1.919 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.003 min

Lab File: VL041585.D

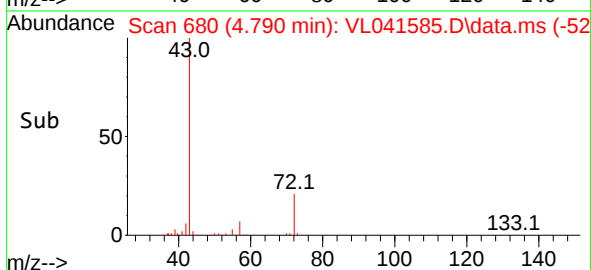
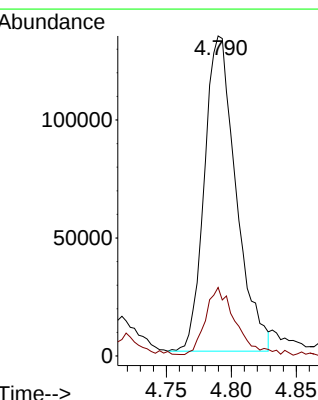
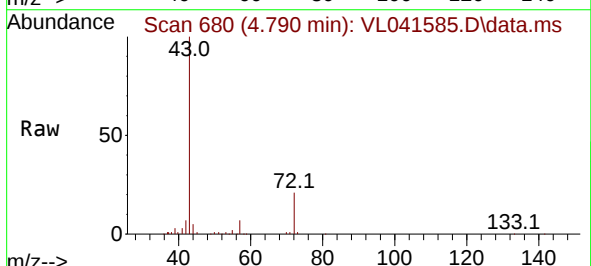
Acq: 22 Aug 2024 13:34

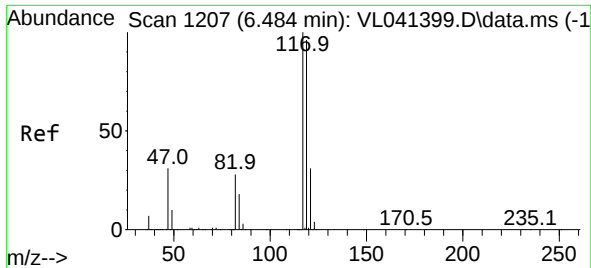
Tgt Ion: 43 Resp: 225638

Ion Ratio Lower Upper

43 100

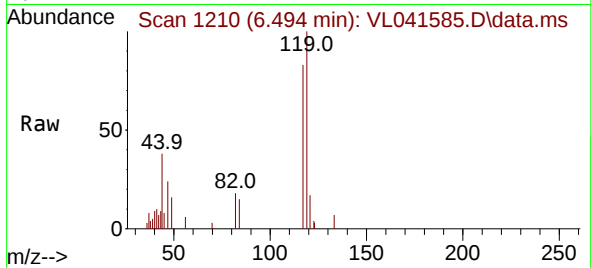
72 22.3 17.3 25.9





#35
Carbon Tetrachloride
Concen: 0.067 ppbv m
RT: 6.494 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

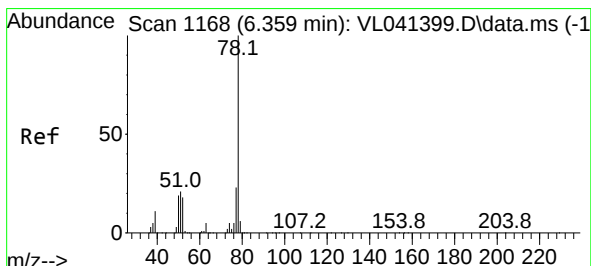
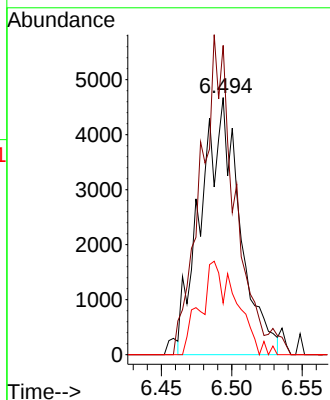
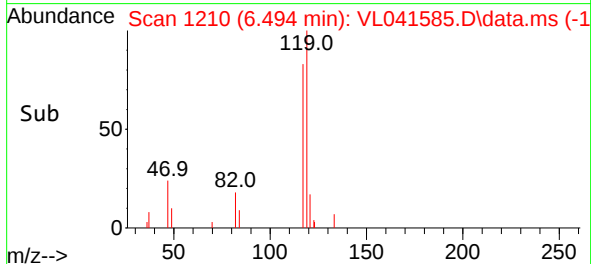
Instrument :
MSVOA_L
ClientSampleId :
CD132



Tgt Ion:117 Resp: 900
Ion Ratio Lower Upper
117 100
119 120.3 76.6 115.0
121 20.0 25.1 37.7

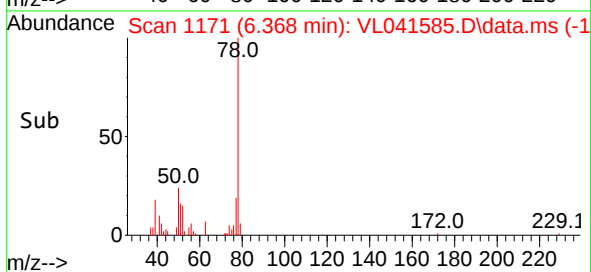
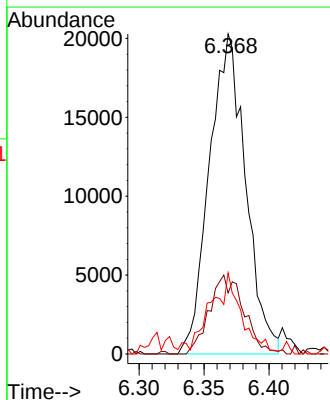
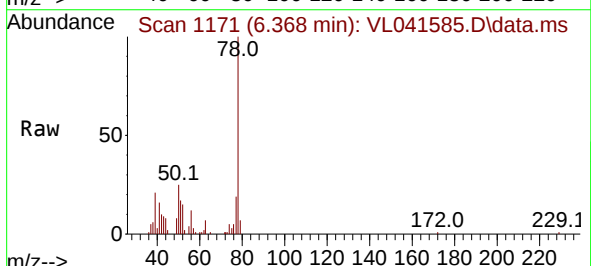
Manual Integrations
APPROVED

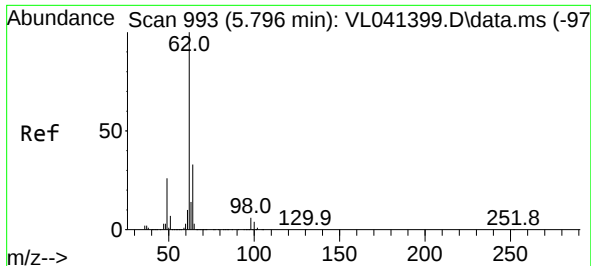
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#36
Benzene
Concen: 0.222 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

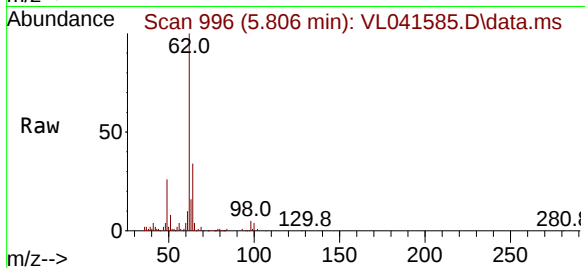
Tgt Ion: 78 Resp: 39398
Ion Ratio Lower Upper
78 100
77 19.1 18.1 27.1
50 24.5 15.5 23.3





#37
1,2-Dichloroethane
Concen: 1.823 ppbv
RT: 5.806 min Scan# 993
Delta R.T. -0.000 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

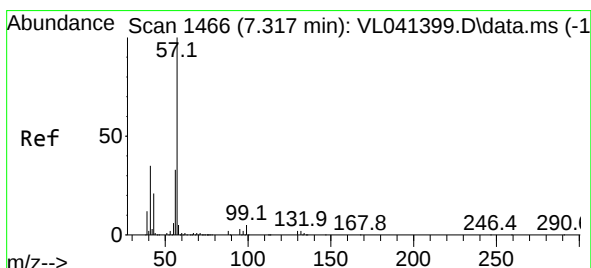
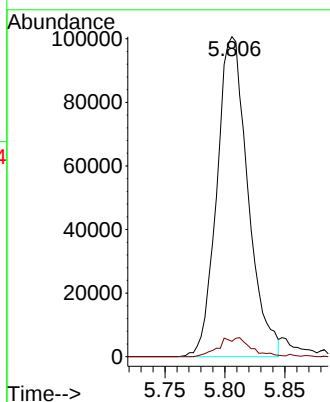
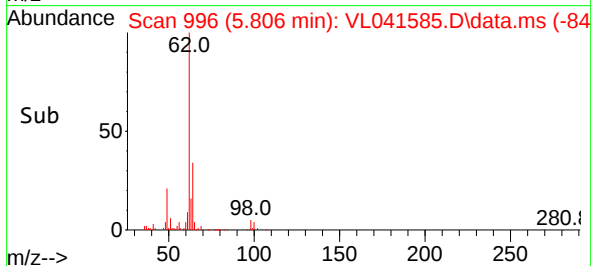
Instrument :
MSVOA_L
ClientSampleId :
CD132



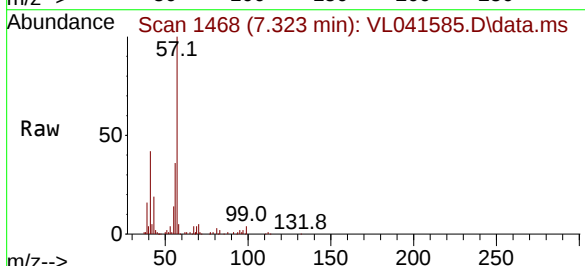
Tgt Ion: 62 Resp: 181268
Ion Ratio Lower Upper
62 100
98 6.4 5.0 7.4

Manual Integrations
APPROVED

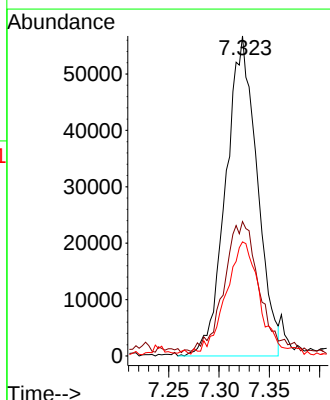
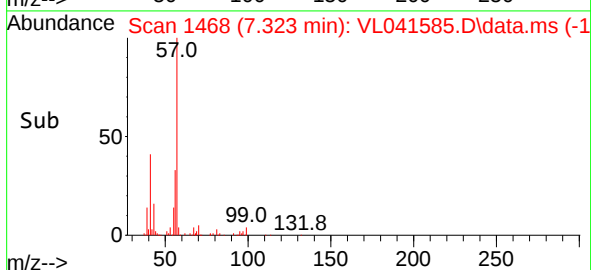
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

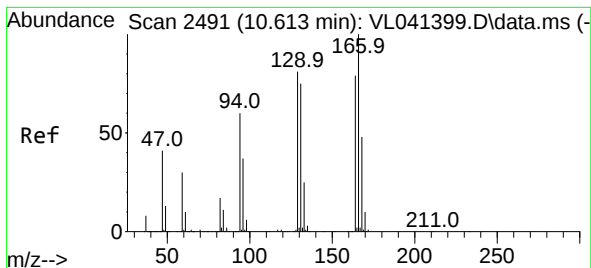


#44
2,2,4-Trimethylpentane
Concen: 0.414 ppbv
RT: 7.323 min Scan# 1468
Delta R.T. 0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34



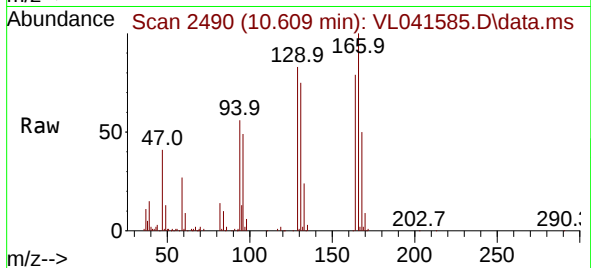
Tgt Ion: 57 Resp: 122767
Ion Ratio Lower Upper
57 100
41 47.6 27.0 40.6#
56 40.6 25.2 37.8#





#52
Tetrachloroethene
Concen: 2.091 ppbv
RT: 10.609 min Scan# 2491
Delta R.T. 0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

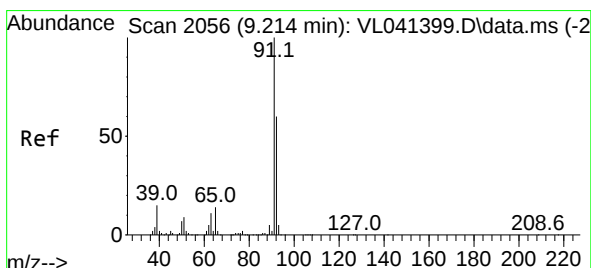
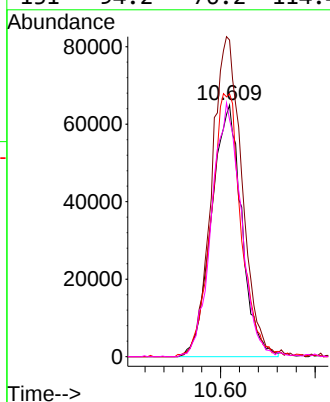
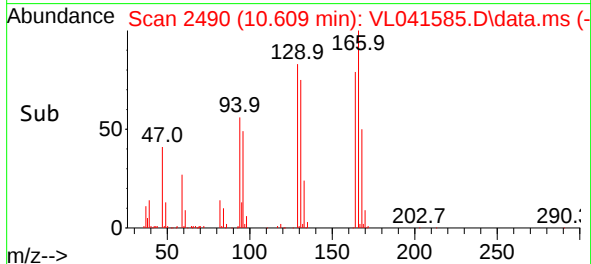
Instrument :
MSVOA_L
ClientSampleId :
CD132



Tgt Ion:164 Resp: 143500
Ion Ratio Lower Upper
164 100
166 125.9 101.1 151.7
129 103.6 81.7 122.5
131 94.2 76.2 114.4

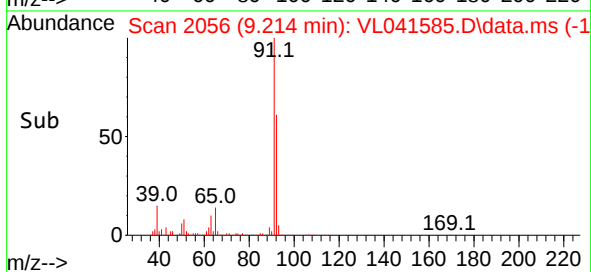
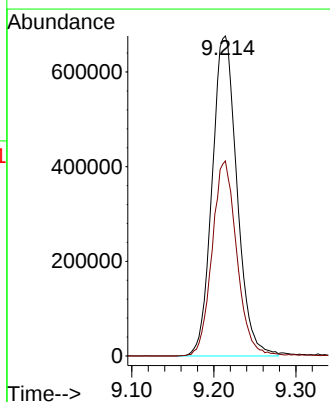
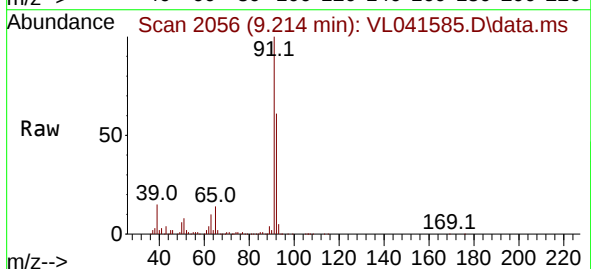
Manual Integrations
APPROVED

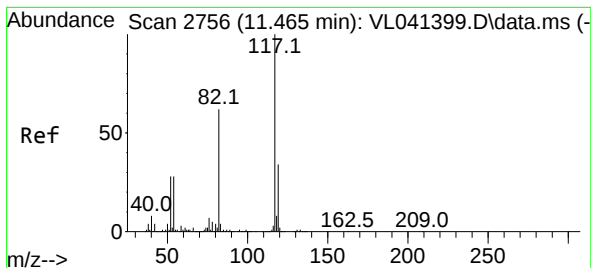
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#53
Toluene
Concen: 7.217 ppbv
RT: 9.214 min Scan# 2056
Delta R.T. 0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

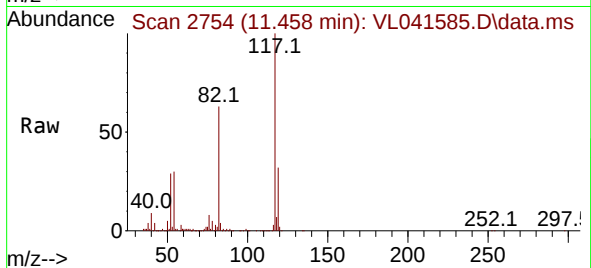
Tgt Ion: 91 Resp: 1428041
Ion Ratio Lower Upper
91 100
92 61.0 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

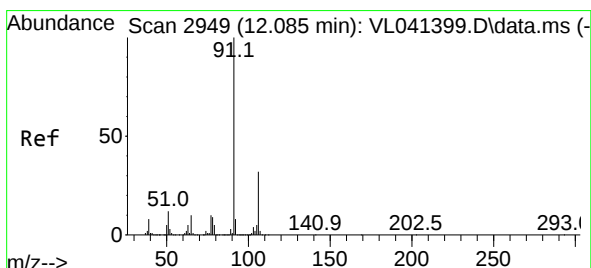
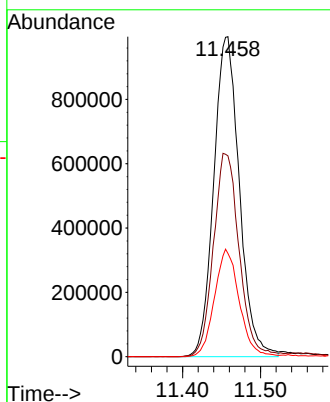
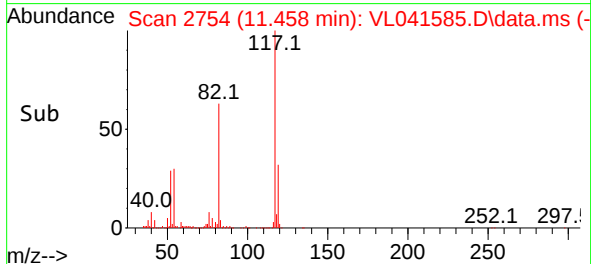
Instrument :
MSVOA_L
ClientSampleId :
CD132



Tgt Ion:117 Resp: 2277689
Ion Ratio Lower Upper
117 100
82 63.8 51.0 76.6
119 32.8 45.2 67.8

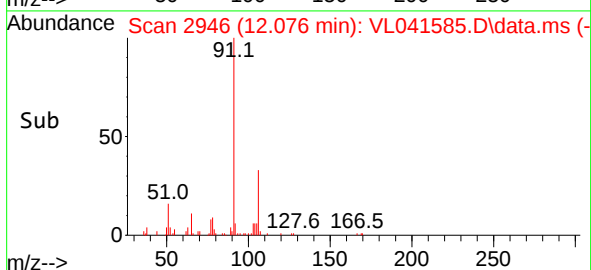
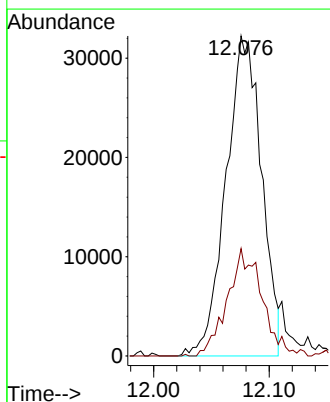
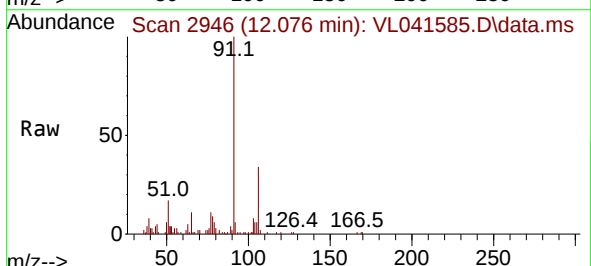
Manual Integrations
APPROVED

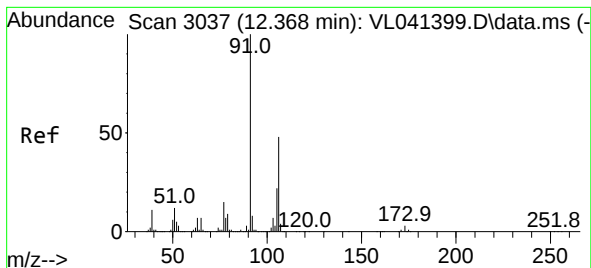
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#58
Ethyl Benzene
Concen: 0.263 ppbv
RT: 12.076 min Scan# 2946
Delta R.T. -0.000 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

Tgt Ion: 91 Resp: 69080
Ion Ratio Lower Upper
91 100
106 33.5 25.8 38.8





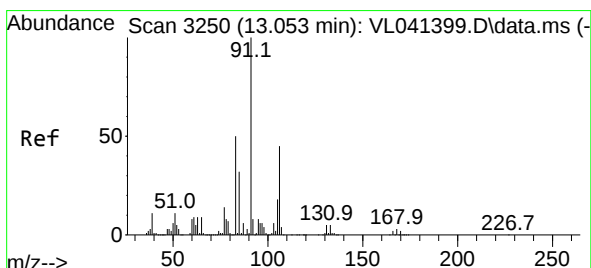
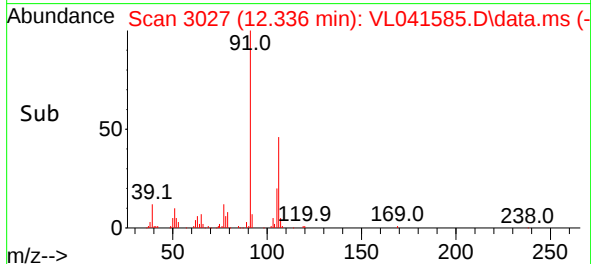
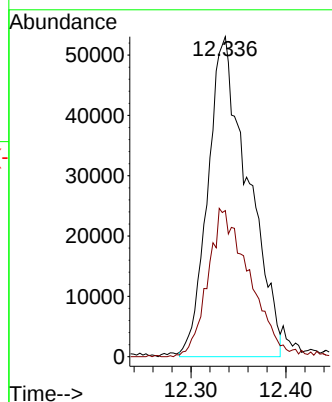
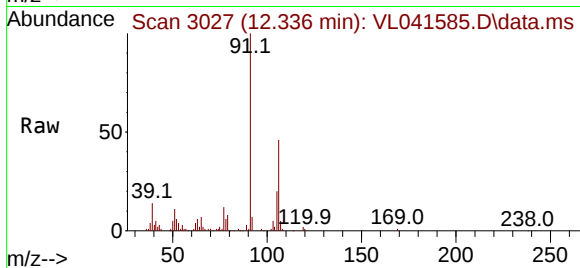
#59
m/p-Xylene
Concen: 0.689 ppbv m
RT: 12.336 min Scan# 3037
Delta R.T. -0.023 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

Instrument :
MSVOA_L
ClientSampleId :
CD132

Tgt Ion: 91 Resp: 156110
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5

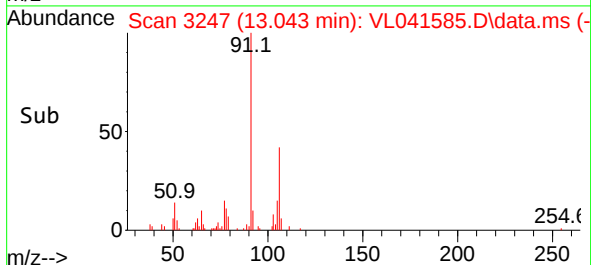
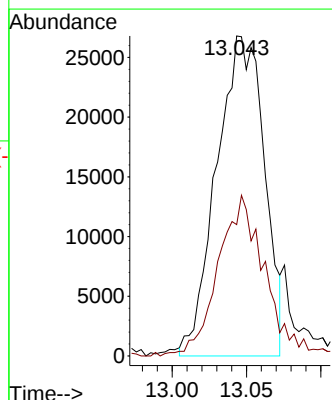
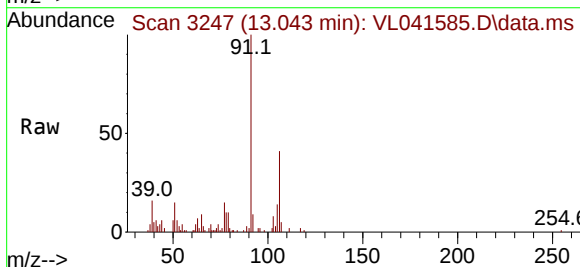
Manual Integrations
APPROVED

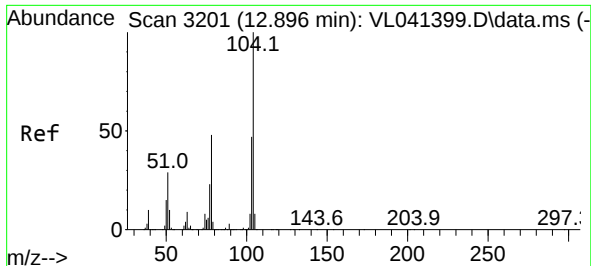
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#60
o-Xylene
Concen: 0.280 ppbv m
RT: 13.043 min Scan# 3247
Delta R.T. -0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

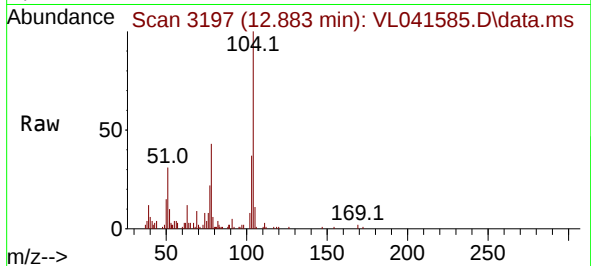
Tgt Ion: 91 Resp: 59936
Ion Ratio Lower Upper
91 100
106 0.0 23.1 69.3





#61
Styrene
Concen: 0.561 ppbv m
RT: 12.883 min Scan# 3197
Delta R.T. -0.000 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

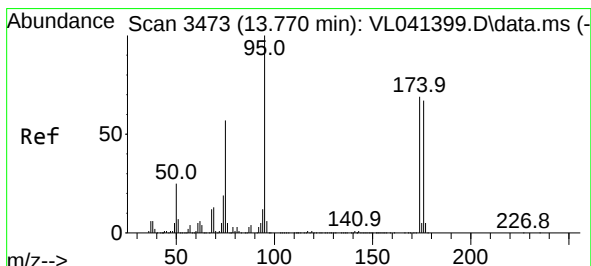
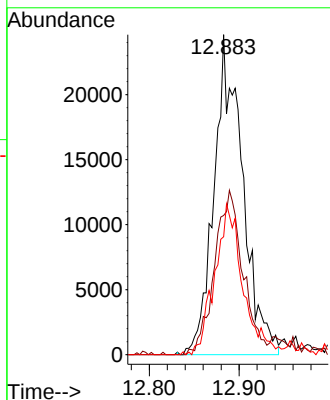
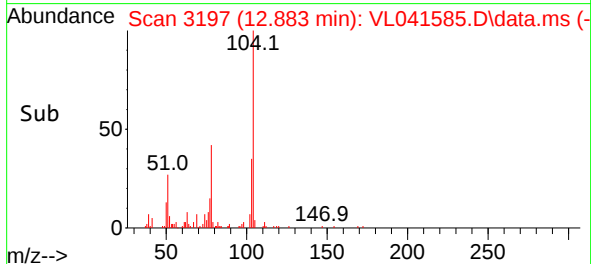
Instrument :
MSVOA_L
ClientSampleId :
CD132



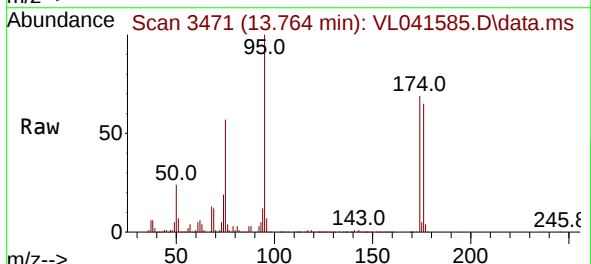
Tgt Ion:104 Resp: 5425
Ion Ratio Lower Upper
104 100
78 56.9 40.8 61.2
103 46.2 38.2 57.4

Manual Integrations
APPROVED

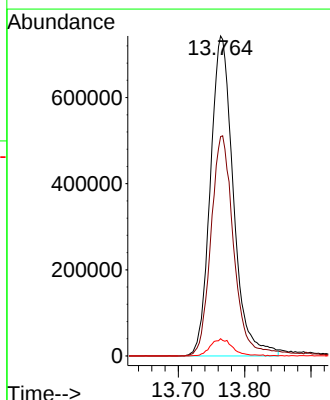
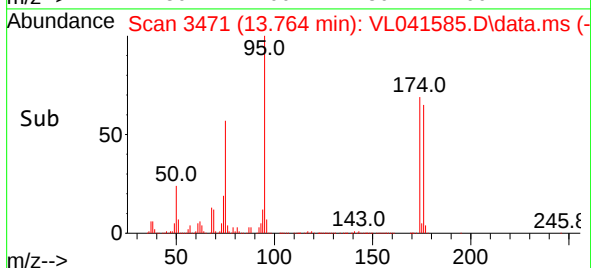
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

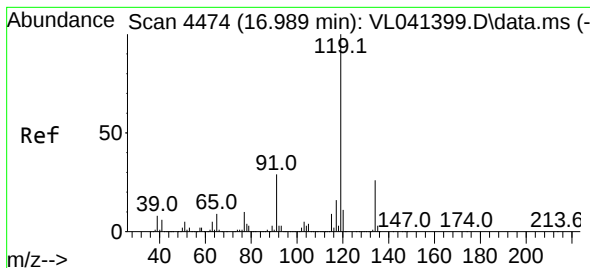


#68
1-Bromo-4-Fluorobenzene
Concen: 10.202 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. -0.000 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34



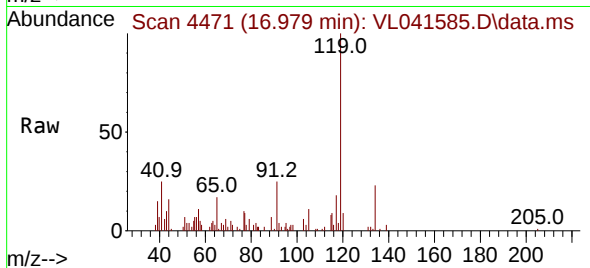
Tgt Ion: 95 Resp: 1788253
Ion Ratio Lower Upper
95 100
174 70.0 56.3 84.5
175 5.2 4.0 6.0





#69
p-Isopropyltoluene
Concen: 0.101 ppbv m
RT: 16.979 min Scan# 4474
Delta R.T. -0.003 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

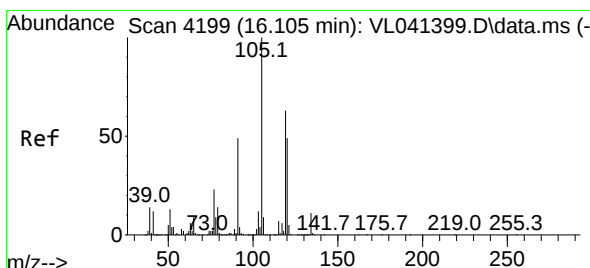
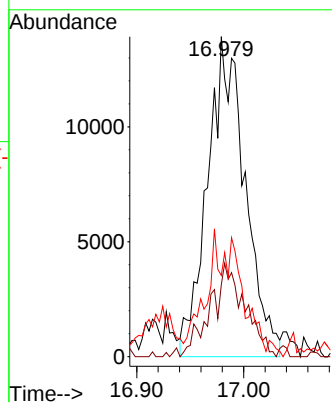
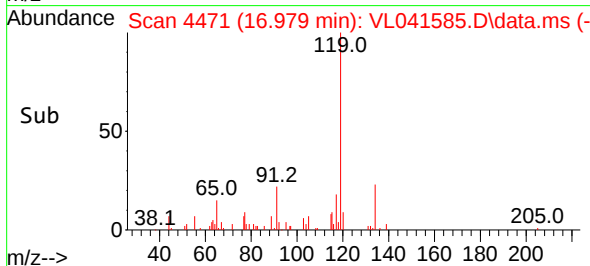
Instrument :
MSVOA_L
ClientSampleId :
CD132



Tgt Ion:119 Resp: 33952
Ion Ratio Lower Upper
119 100
134 0.0 20.5 30.7
91 0.0 23.2 34.8

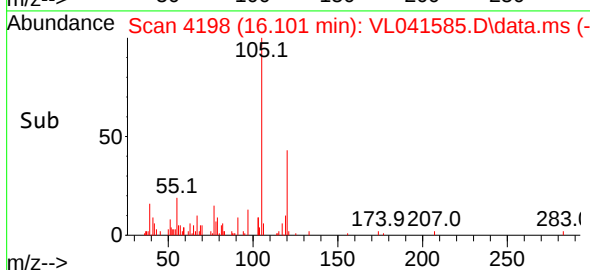
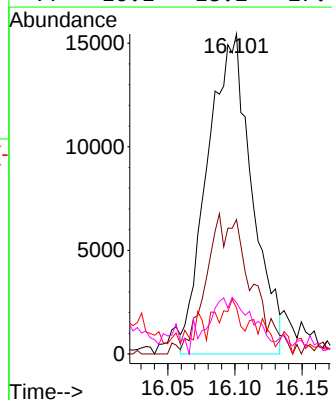
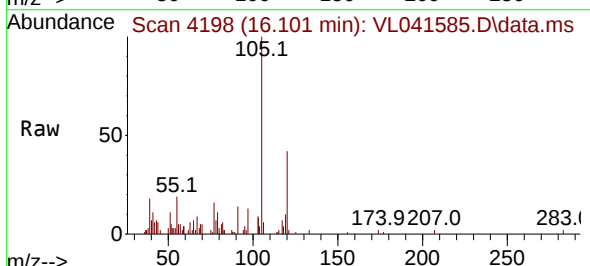
Manual Integrations
APPROVED

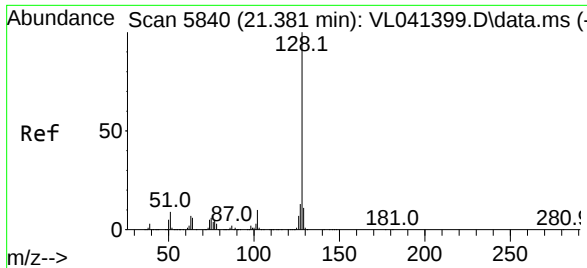
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.141 ppbv m
RT: 16.101 min Scan# 4198
Delta R.T. 0.006 min
Lab File: VL041585.D
Acq: 22 Aug 2024 13:34

Tgt Ion:105 Resp: 35536
Ion Ratio Lower Upper
105 100
120 42.0 39.5 59.3
91 14.4 39.8 59.8#
77 16.1 18.2 27.4#





#79

Naphthalene

Concen: 0.113 ppbv m

RT: 21.368 min Scan# 5836

Delta R.T. -0.000 min

Lab File: VL041585.D

Acq: 22 Aug 2024 13:34

Instrument :

MSVOA_L

ClientSampleId :

CD132

Tgt Ion:	128	Resp:	2515
Ion Ratio	Lower	Upper	
128	100		
127	9.3	10.3	15.5
129	10.2	9.0	13.4

Manual Integrations

APPROVED

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

