

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
 Data File : VL041628.D
 Acq On : 25 Sep 2024 17:57
 Operator : SY/MD
 Sample : P4199-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024
 Supervised By :Mahesh Dadoda 09/26/2024

Quant Time: Sep 26 01:22:58 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

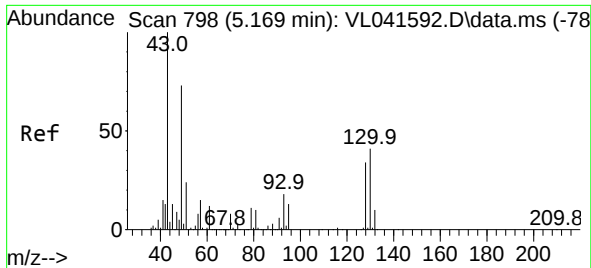
QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

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

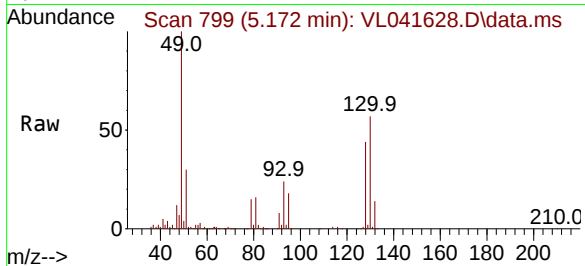
Internal Standards						
1) Bromochloromethane	5.172	49	1042778	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2753078	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2544295	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.760	95	1880097	10.038	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.700	85	42183	0.280	ppbv	90
4) Chloromethane	2.783	50	15289	0.220	ppbv	97
5) Vinyl Chloride	2.893	62	3307m	0.055	ppbv	
9) Propene	2.668	41	361588	6.778	ppbv	97
10) Heptane	7.565	43	238875	1.912	ppbv	99
11) Trichlorofluoromethane	3.536	101	80383	0.502	ppbv	96
13) Ethanol	3.217	45	127562	31.804	ppbv	98
15) Acetone	3.439	43	3473232	26.531	ppbv #	86
17) tert-Butyl alcohol	3.867	59	61003	0.530	ppbv	96
20) Methylene Chloride	3.909	84	21097	0.429	ppbv #	80
26) Hexane	5.192	57	174378	1.779	ppbv #	38
27) Carbon Disulfide	4.102	76	91194	0.875	ppbv #	89
29) Chloroform	5.253	83	28575m	0.178	ppbv	
30) Cyclohexane	6.584	84	25340m	0.335	ppbv	
31) cis-1,2-Dichloroethene	5.066	61	3770m	0.041	ppbv	
32) 1,1,1-Trichloroethane	5.989	97	8548m	0.060	ppbv	
34) 2-Butanone	4.761	43	3491583	26.597	ppbv	98
35) Carbon Tetrachloride	6.468	117	8071m	0.060	ppbv	
36) Benzene	6.352	78	124888	0.653	ppbv	94
38) Trichloroethene	7.285	130	7066m	0.072	ppbv	
50) 4-Methyl-2-Pentanone	8.175	43	82469m	0.407	ppbv	
51) 2-Hexanone	9.542	43	338027	2.204	ppbv #	95
52) Tetrachloroethene	10.603	164	612628	8.849	ppbv	96
53) Toluene	9.204	91	792738	3.906	ppbv	98
58) Ethyl Benzene	12.076	91	144884	0.532	ppbv	97
59) m/p-Xylene	12.333	91	546655	2.255	ppbv	97
60) o-Xylene	13.047	91	150135m	0.646	ppbv	
72) 4-Ethyltoluene	15.178	105	55206	0.203	ppbv #	92
73) 1,3,5-Trimethylbenzene	15.336	105	34591m	0.144	ppbv	
74) 1,2,4-Trimethylbenzene	16.095	105	141805	0.505	ppbv #	67

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.172 min Scan# 798
Delta R.T. 0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

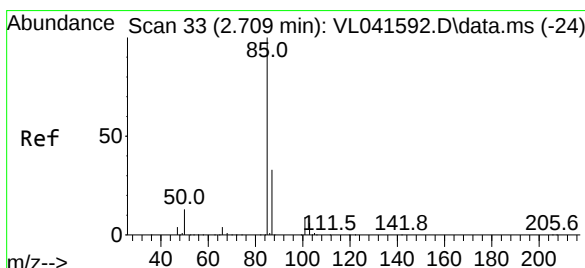
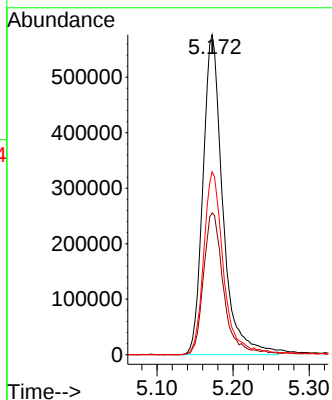
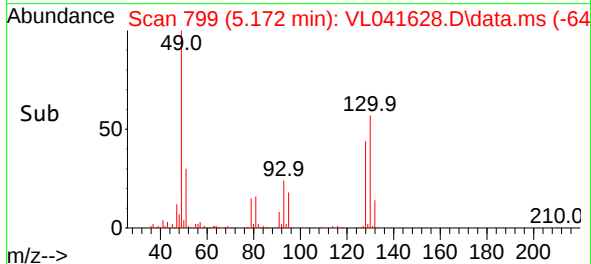
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 1042778
Ion Ratio Lower Upper
49 100
128 45.7 23.8 71.5
130 58.3 30.4 91.3

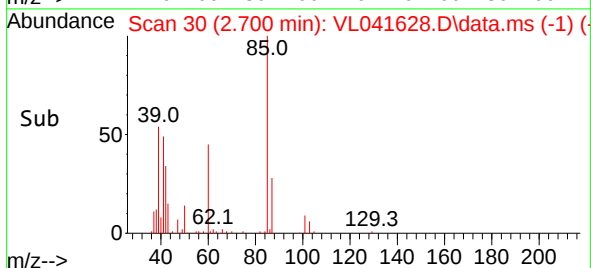
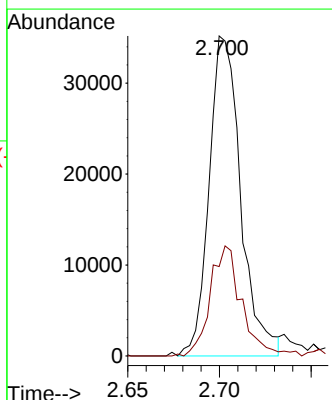
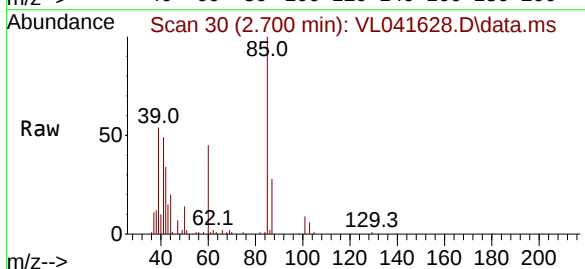
Manual Integrations
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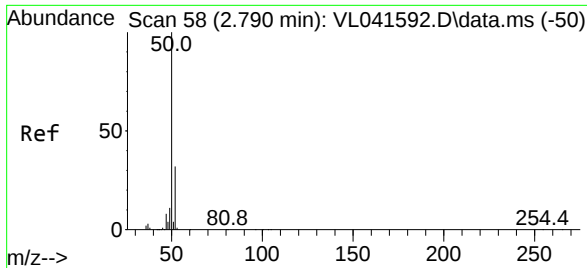
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#2
Dichlorodifluoromethane
Concen: 0.280 ppbv
RT: 2.700 min Scan# 30
Delta R.T. -0.010 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

Tgt Ion: 85 Resp: 42183
Ion Ratio Lower Upper
85 100
87 27.4 26.3 39.5





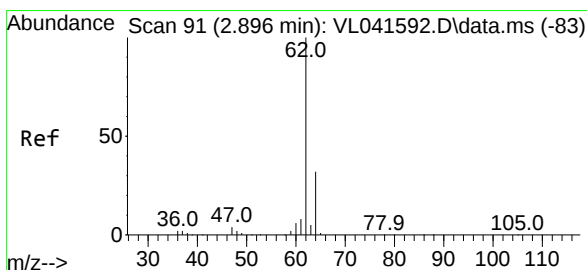
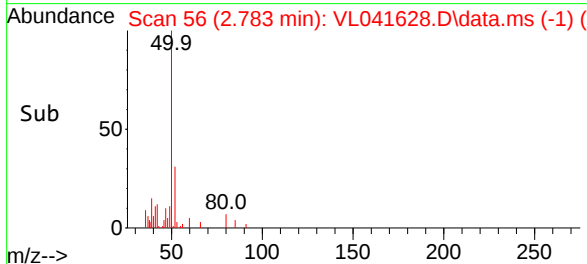
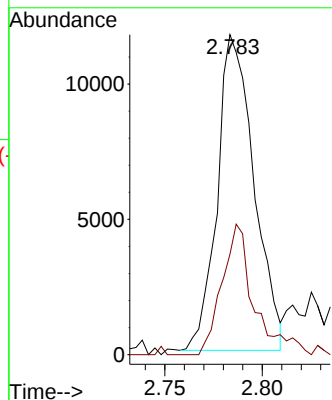
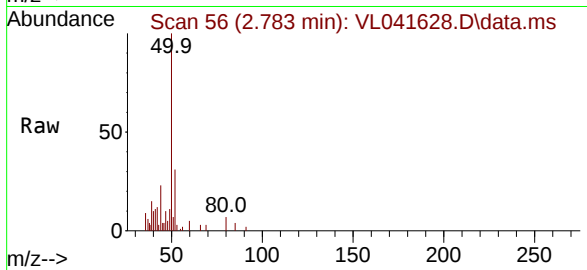
#4
Chloromethane
Concen: 0.220 ppbv
RT: 2.783 min Scan# 50
Delta R.T. -0.006 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 50 Resp: 15289
Ion Ratio Lower Upper
50 100
52 33.4 25.4 38.2

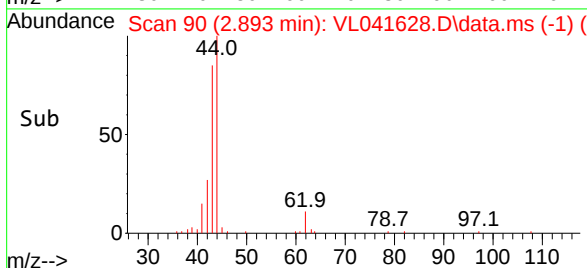
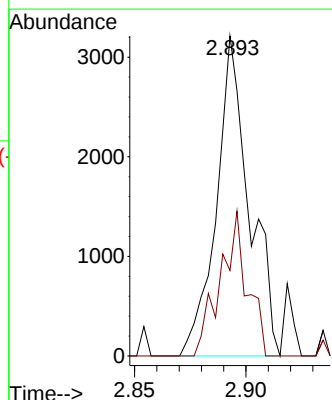
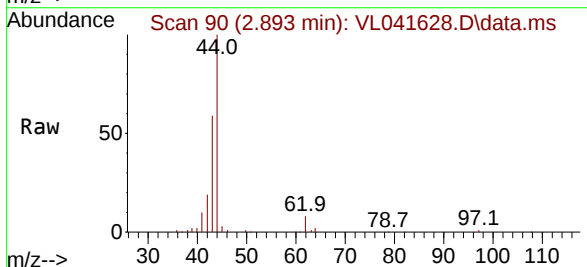
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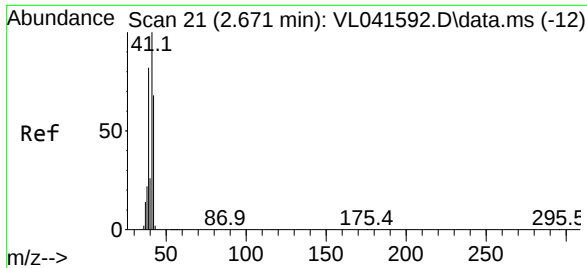
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#5
Vinyl Chloride
Concen: 0.055 ppbv m
RT: 2.893 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

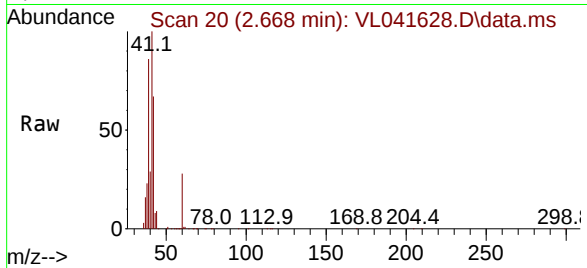
Tgt Ion: 62 Resp: 3307
Ion Ratio Lower Upper
62 100
64 26.7 26.0 39.0





#9
Propene
Concen: 6.778 ppbv
RT: 2.668 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

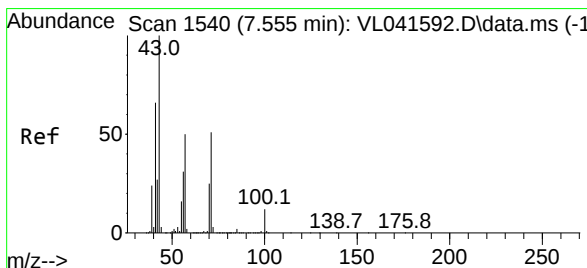
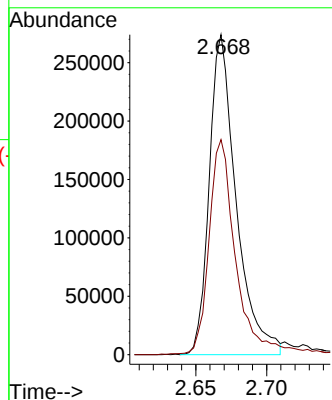
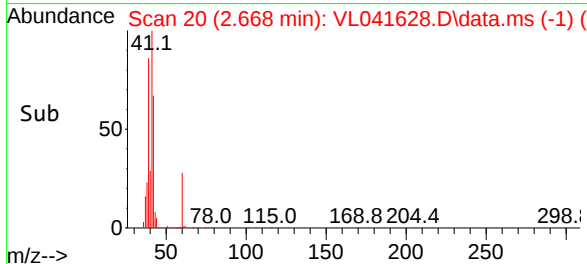
Instrument :
MSVOA_L
ClientSampleId :
SV1



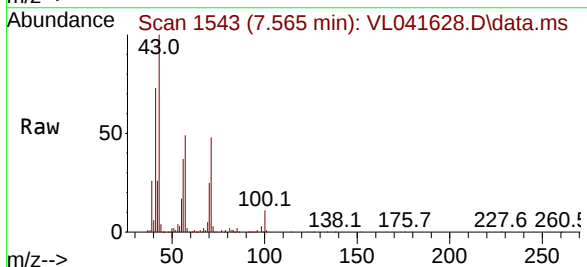
Tgt Ion: 41 Resp: 361588
Ion Ratio Lower Upper
41 100
42 66.5 55.2 82.8

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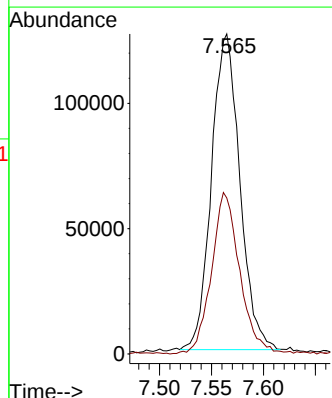
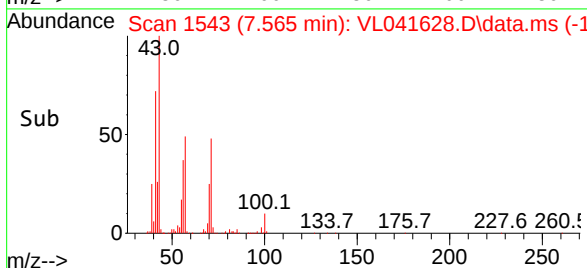
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

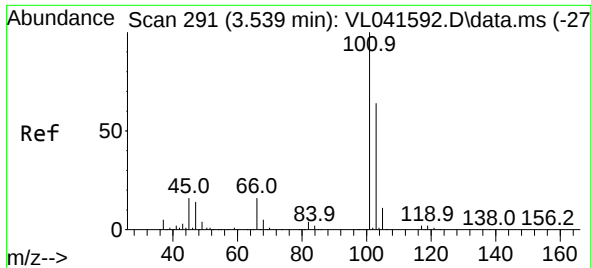


#10
Heptane
Concen: 1.912 ppbv
RT: 7.565 min Scan# 1543
Delta R.T. 0.010 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57



Tgt Ion: 43 Resp: 238875
Ion Ratio Lower Upper
43 100
57 50.7 39.8 59.8





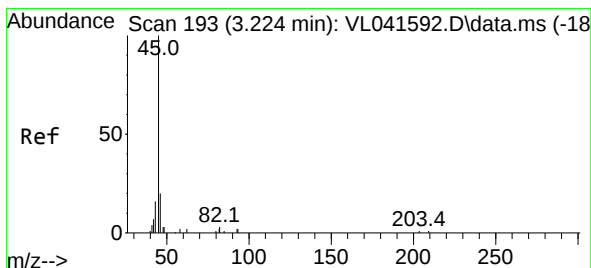
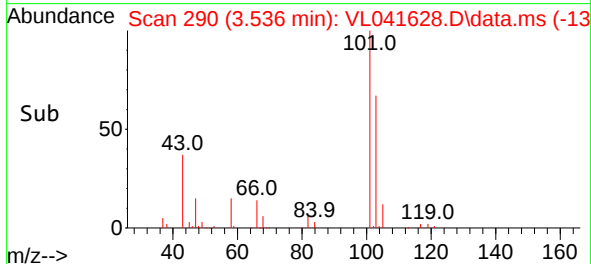
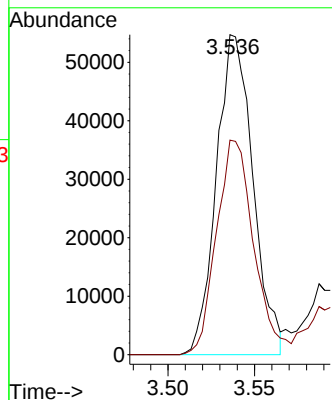
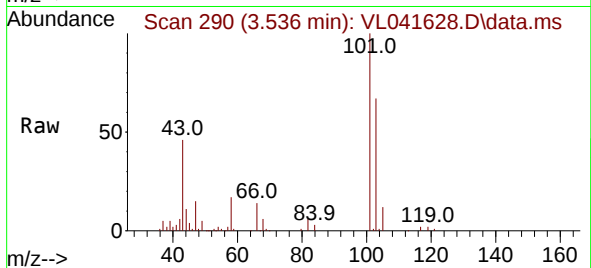
#11
Trichlorofluoromethane
Concen: 0.502 ppbv
RT: 3.536 min Scan# 291
Delta R.T. -0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:101 Resp: 8038
Ion Ratio Lower Upper
101 100
103 67.1 51.2 76.8

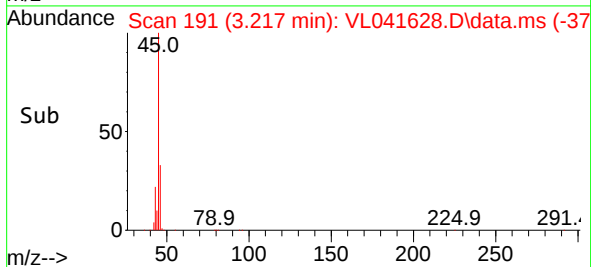
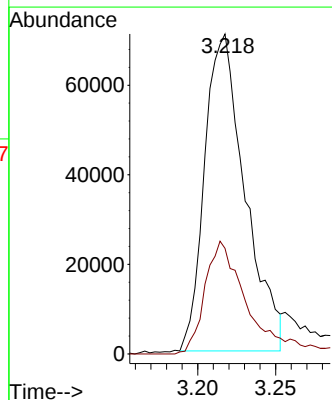
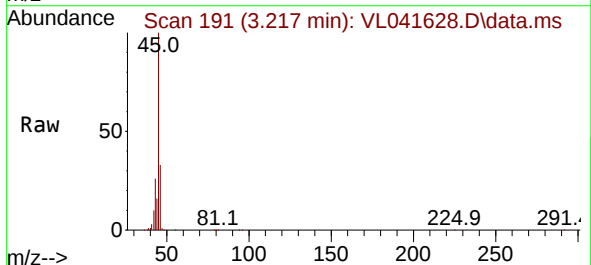
Manual Integrations
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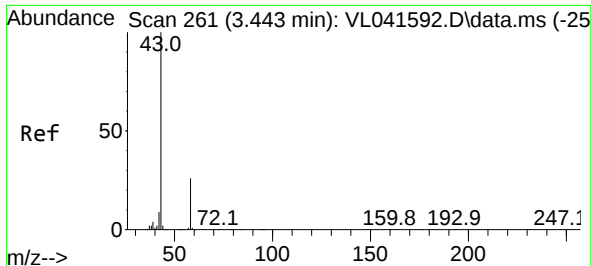
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#13
Ethanol
Concen: 31.804 ppbv
RT: 3.217 min Scan# 191
Delta R.T. -0.006 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

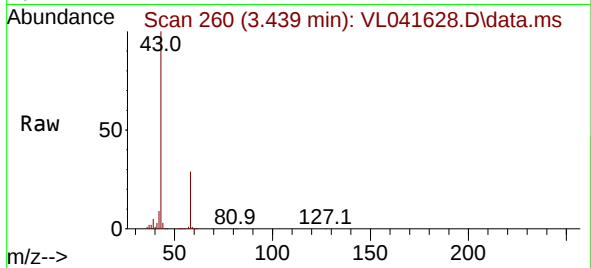
Tgt Ion: 45 Resp: 127562
Ion Ratio Lower Upper
45 100
46 39.2 15.2 60.8





#15
Acetone
Concen: 26.531 ppbv
RT: 3.439 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

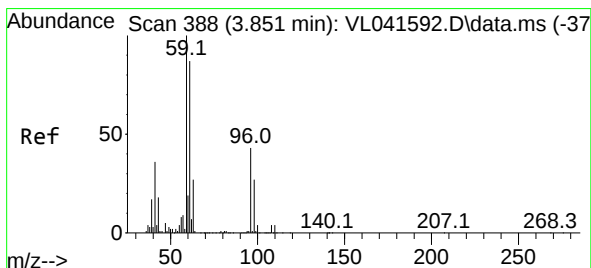
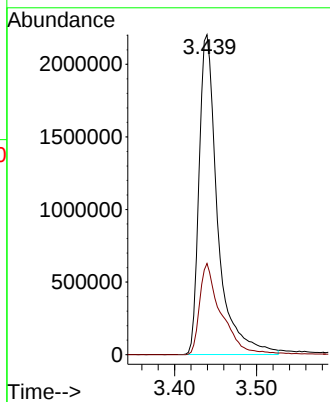
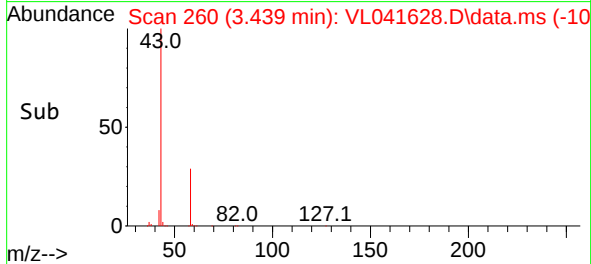
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 347323
Ion Ratio Lower Upper
43 100
58 33.9 21.5 32.3

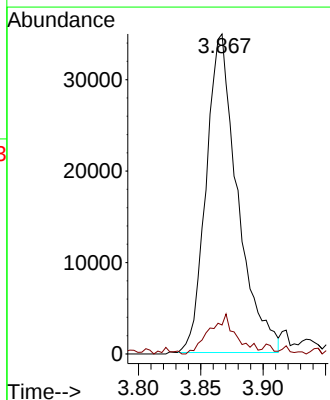
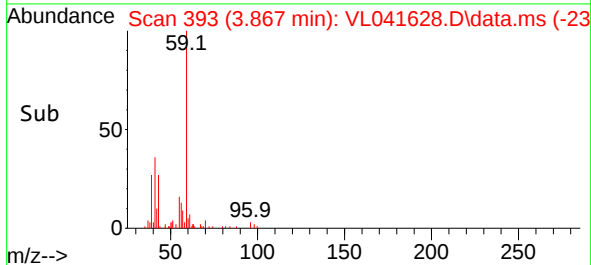
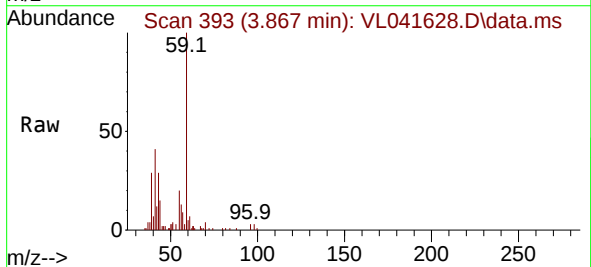
Manual Integrations
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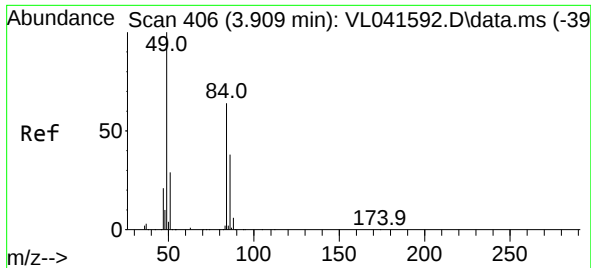
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#17
tert-Butyl alcohol
Concen: 0.530 ppbv
RT: 3.867 min Scan# 393
Delta R.T. 0.016 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

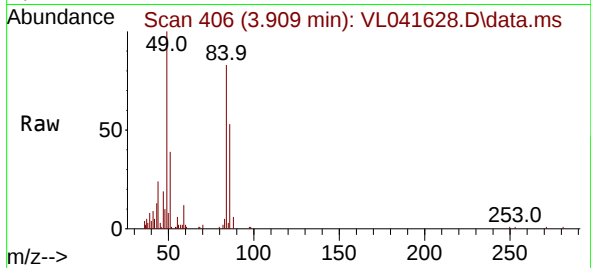
Tgt Ion: 59 Resp: 61003
Ion Ratio Lower Upper
59 100
57 12.3 8.7 13.1





#20
Methylene Chloride
Concen: 0.429 ppbv
RT: 3.909 min Scan# 406
Delta R.T. 0.000 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

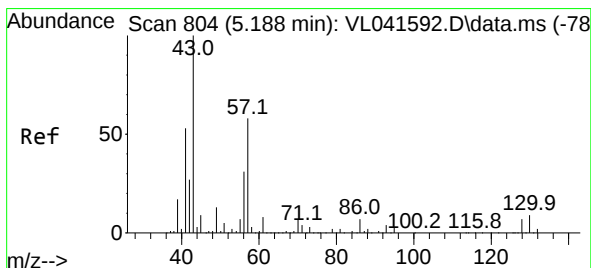
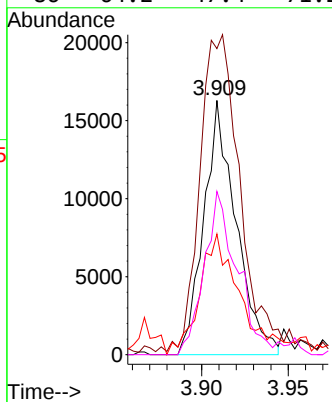
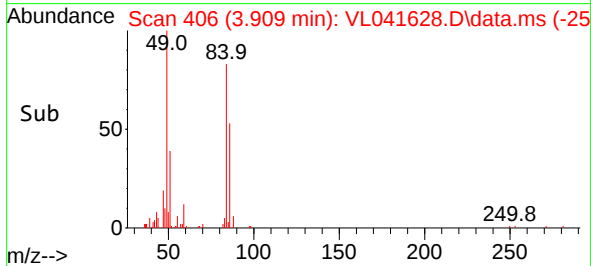
Instrument :
MSVOA_L
ClientSampleId :
SV1



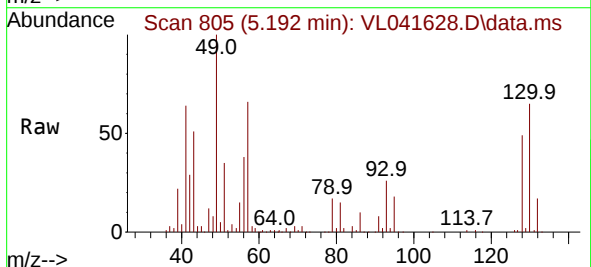
Tgt Ion:	84	Resp:	2109
Ion	Ratio	Lower	Upper
84	100		
49	116.2	124.3	186.5
51	45.6	36.3	54.5
86	64.2	47.4	71.2

Manual Integrations
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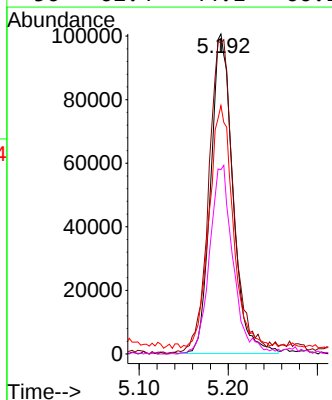
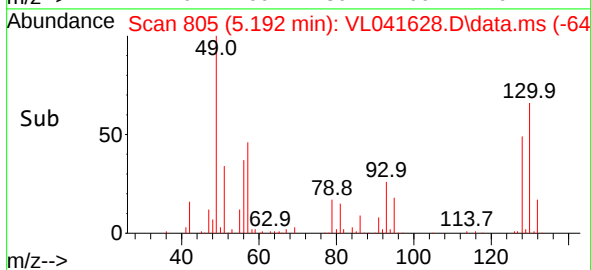
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

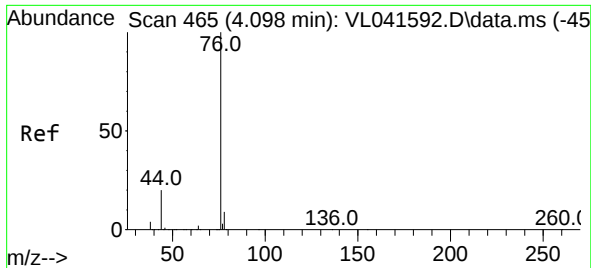


#26
Hexane
Concen: 1.779 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57



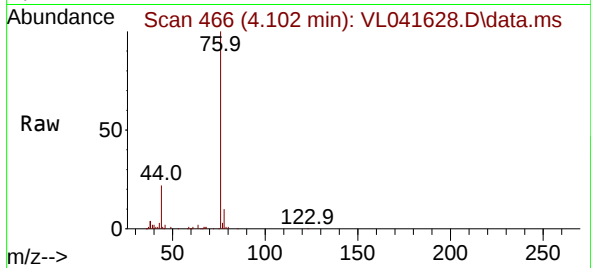
Tgt Ion:	57	Resp:	174378
Ion	Ratio	Lower	Upper
57	100		
41	109.3	75.7	113.5
43	90.2	198.5	297.7
56	62.4	44.1	66.1





#27
Carbon Disulfide
Concen: 0.875 ppbv
RT: 4.102 min Scan# 410
Delta R.T. 0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

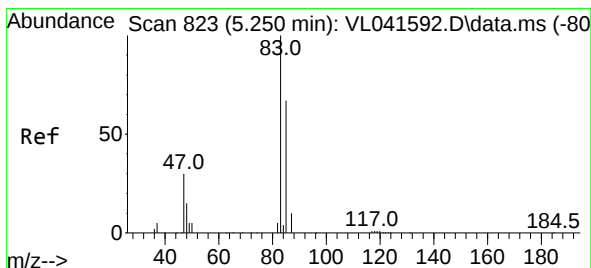
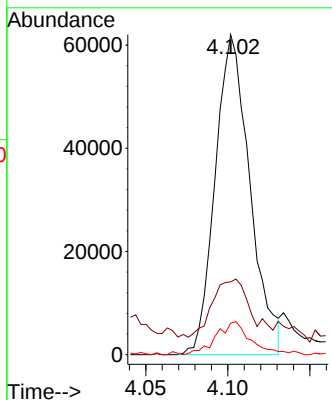
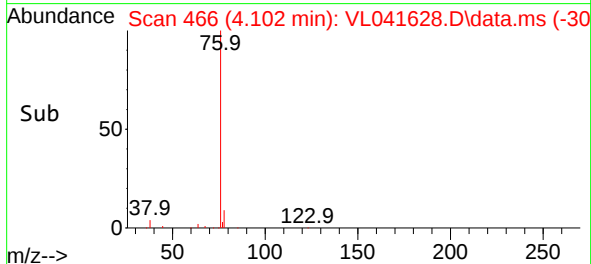
Instrument :
MSVOA_L
ClientSampleId :
SV1



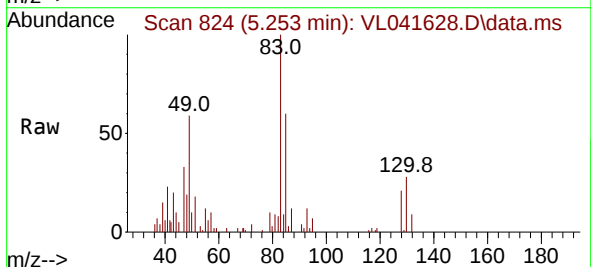
Tgt Ion: 76 Resp: 91194
Ion Ratio Lower Upper
76 100
44 26.3 15.8 23.8
78 11.1 7.5 11.3

Manual Integrations
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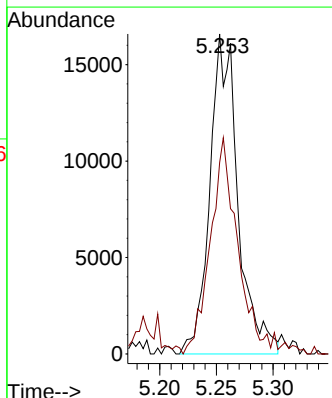
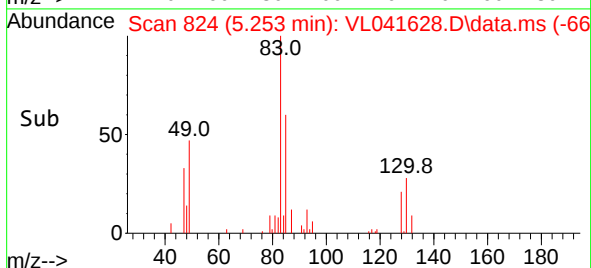
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

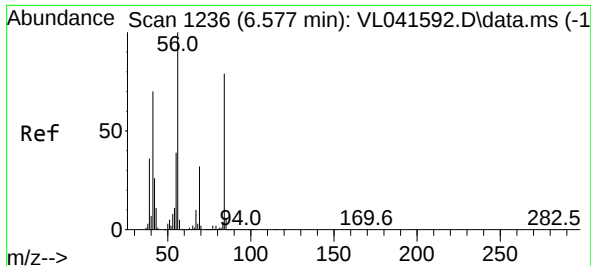


#29
Chloroform
Concen: 0.178 ppbv m
RT: 5.253 min Scan# 824
Delta R.T. 0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57



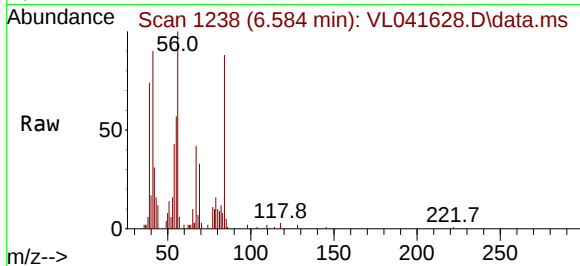
Tgt Ion: 83 Resp: 28575
Ion Ratio Lower Upper
83 100
85 59.8 53.8 80.6





#30
Cyclohexane
Concen: 0.335 ppbv m
RT: 6.584 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

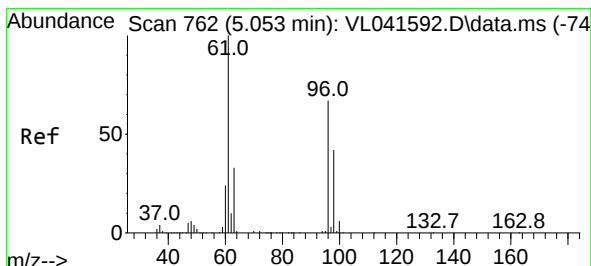
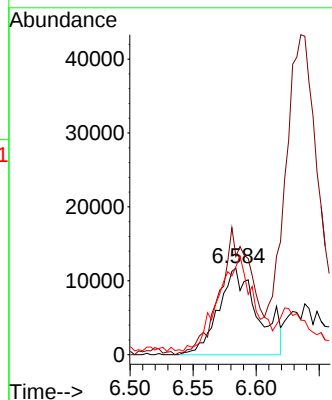
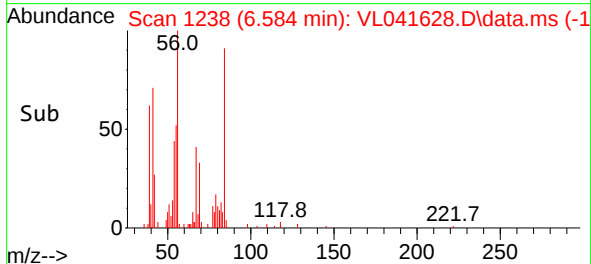
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 25340
Ion Ratio Lower Upper
84 100
56 115.1 111.5 167.3
41 101.7 70.9 106.3

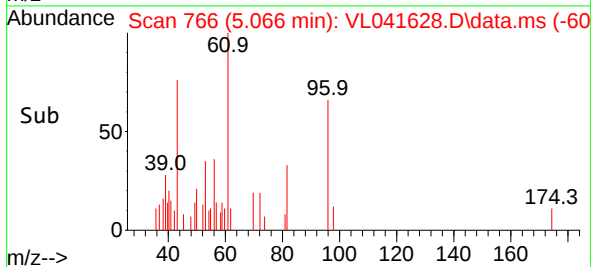
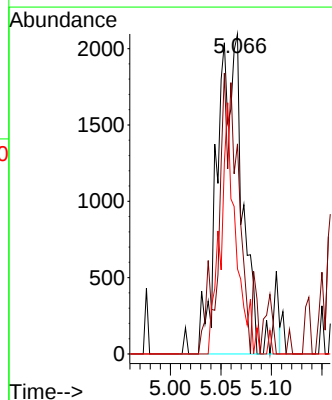
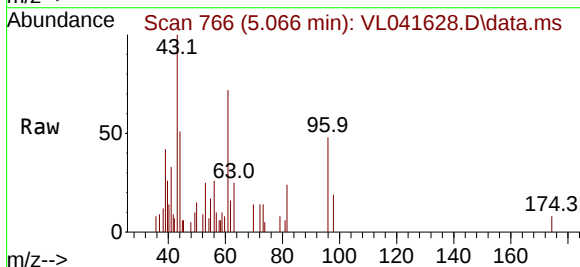
Manual Integrations
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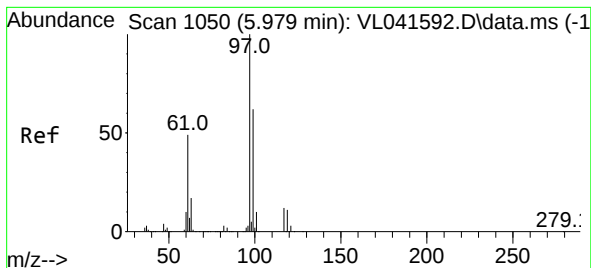
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#31
cis-1,2-Dichloroethene
Concen: 0.041 ppbv m
RT: 5.066 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

Tgt Ion: 61 Resp: 3770
Ion Ratio Lower Upper
61 100
96 65.6 53.5 80.3
98 26.6 33.7 50.5#





#32

1,1,1-Trichloroethane

Concen: 0.060 ppbv m

RT: 5.989 min Scan# 1053

Delta R.T. 0.010 min

Lab File: VL041628.D

Acq: 25 Sep 2024 17:57

Instrument :

MSVOA_L

ClientSampleId :

SV1

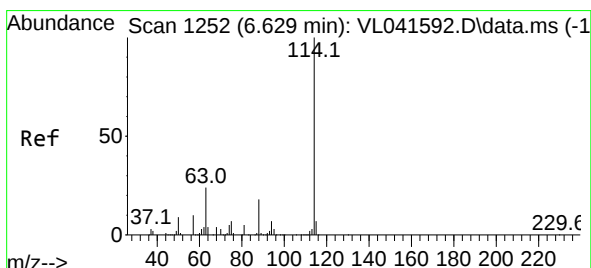
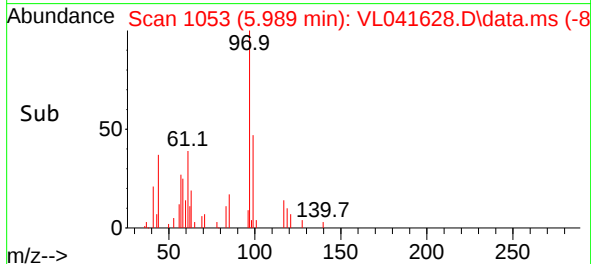
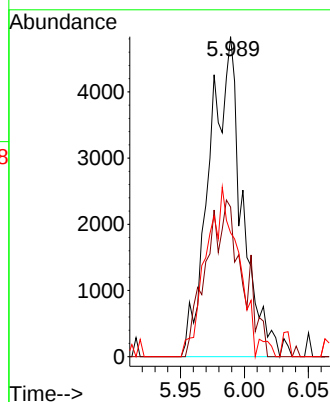
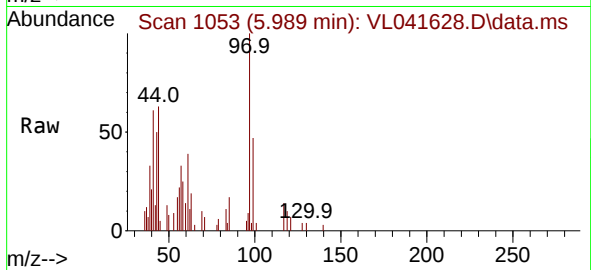
Tgt Ion: 97	Resp: 854
Ion Ratio	Lower Upper
97 100	
99 54.6	51.0 76.4
61 53.5	41.0 61.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024

Supervised By :Mahesh Dadoda 09/26/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

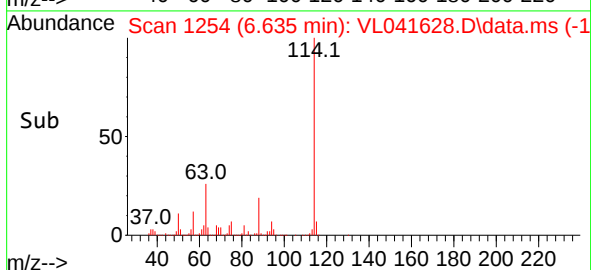
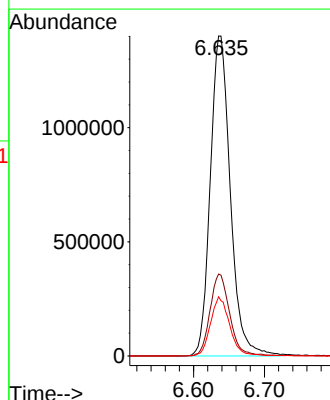
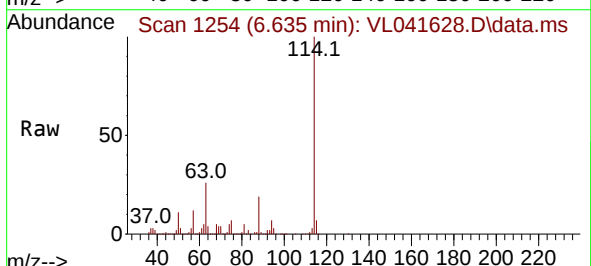
RT: 6.635 min Scan# 1254

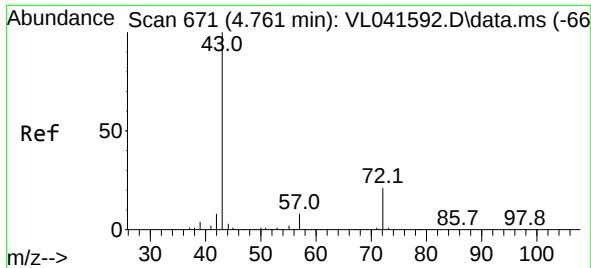
Delta R.T. 0.006 min

Lab File: VL041628.D

Acq: 25 Sep 2024 17:57

Tgt Ion: 114	Resp: 2753078
Ion Ratio	Lower Upper
114 100	
63 25.4	20.2 30.2
88 17.7	14.2 21.4





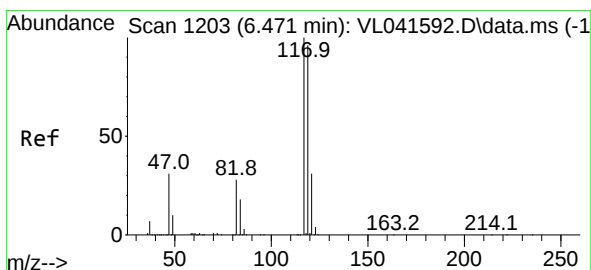
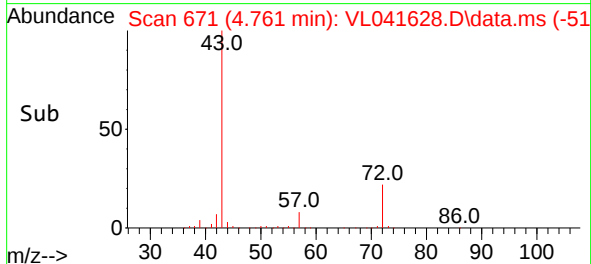
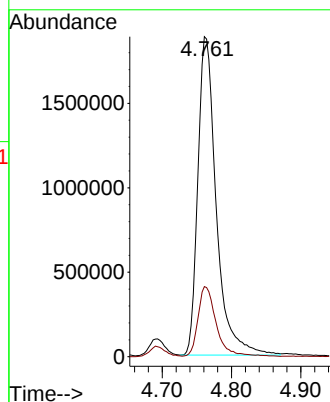
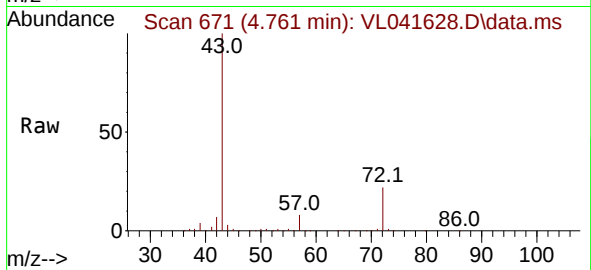
#34
2-Butanone
Concen: 26.597 ppbv
RT: 4.761 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 349158
Ion Ratio Lower Upper
43 100
72 22.1 16.8 25.2

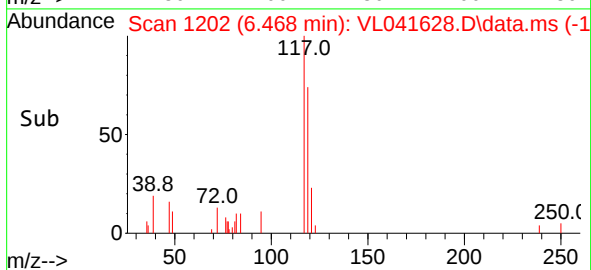
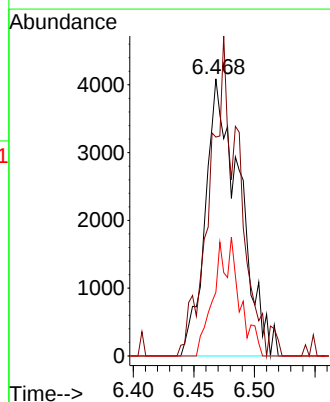
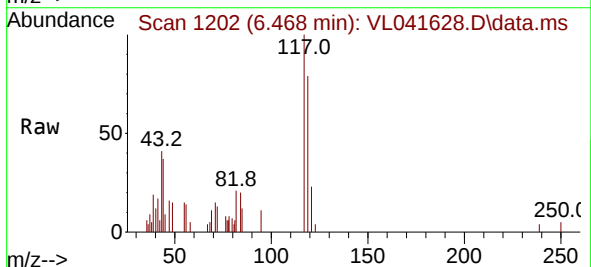
Manual Integrations
APPROVED

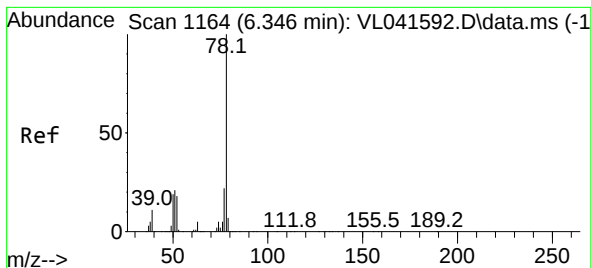
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 6.468 min Scan# 1202
Delta R.T. -0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

Tgt Ion:117 Resp: 8071
Ion Ratio Lower Upper
117 100
119 79.0 76.8 115.2
121 23.0 25.0 37.6#





#36

Benzene

Concen: 0.653 ppbv

RT: 6.352 min Scan# 1166

Delta R.T. 0.006 min

Lab File: VL041628.D

Acq: 25 Sep 2024 17:57

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 78 Resp: 12488

Ion Ratio Lower Upper

78 100

77 18.1 17.8 26.6

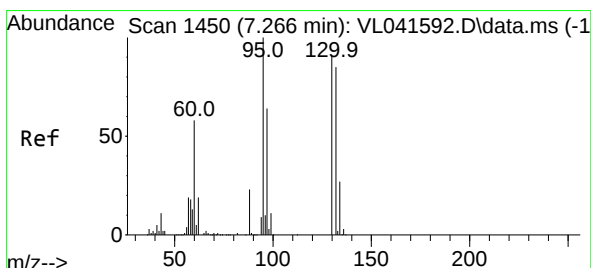
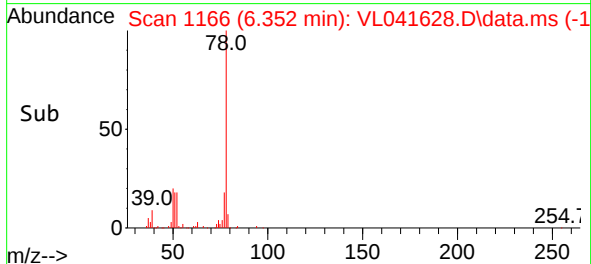
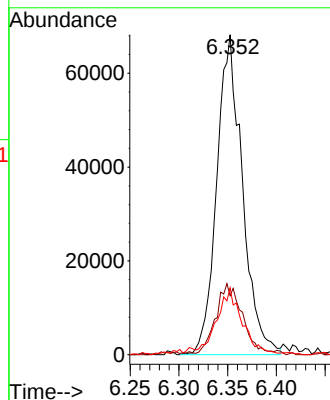
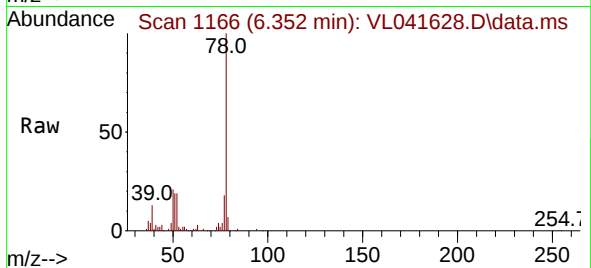
50 20.4 15.4 23.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024

Supervised By :Mahesh Dadoda 09/26/2024



#38

Trichloroethene

Concen: 0.072 ppbv m

RT: 7.285 min Scan# 1456

Delta R.T. 0.019 min

Lab File: VL041628.D

Acq: 25 Sep 2024 17:57

Tgt Ion:130 Resp: 7066

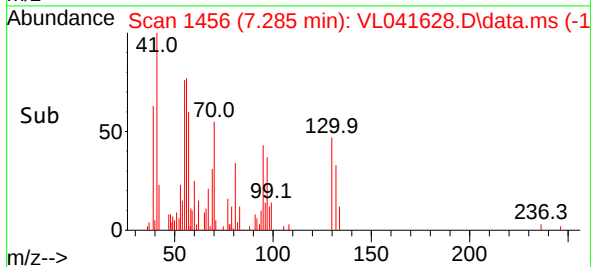
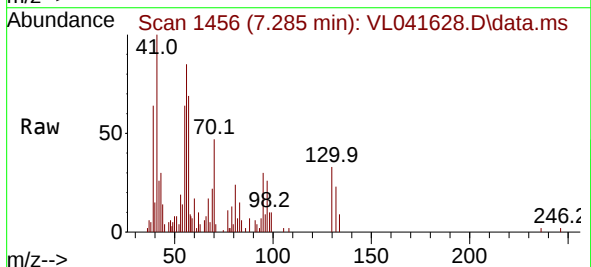
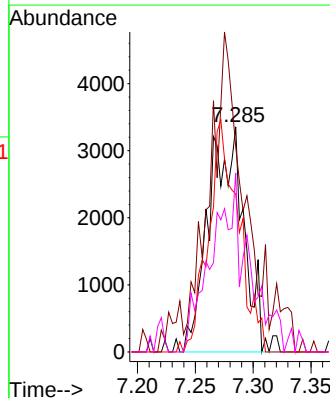
Ion Ratio Lower Upper

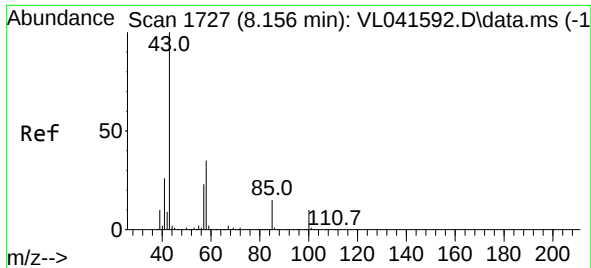
130 100

95 91.2 87.7 131.5

132 70.2 74.5 111.7#

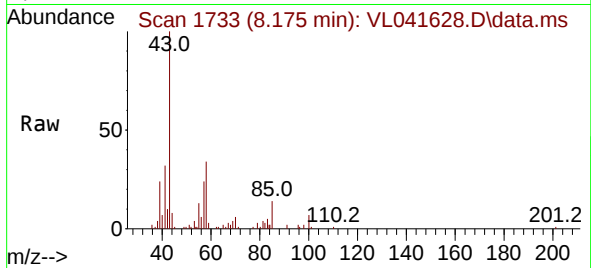
97 79.6 56.3 84.5





#50
4-Methyl-2-Pentanone
Concen: 0.407 ppbv m
RT: 8.175 min Scan# 1733
Delta R.T. 0.019 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

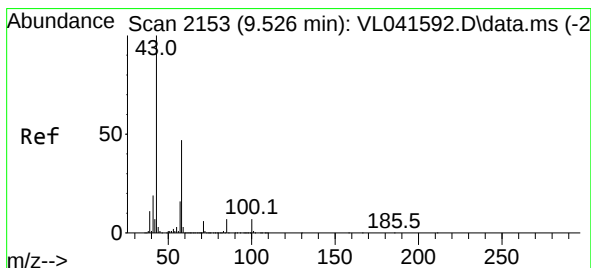
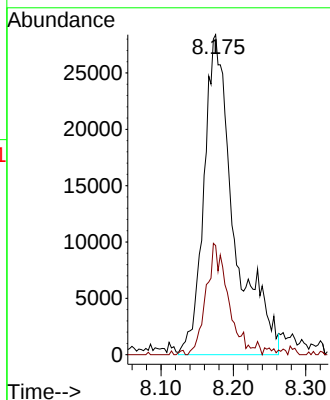
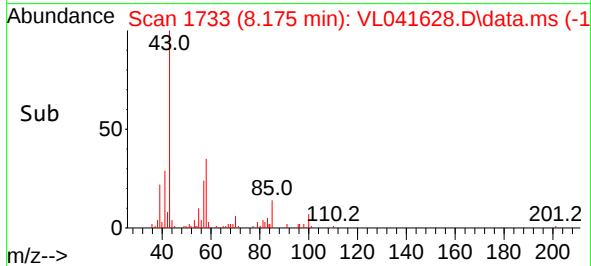
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 82469
Ion Ratio Lower Upper
43 100
58 27.5 27.8 41.8

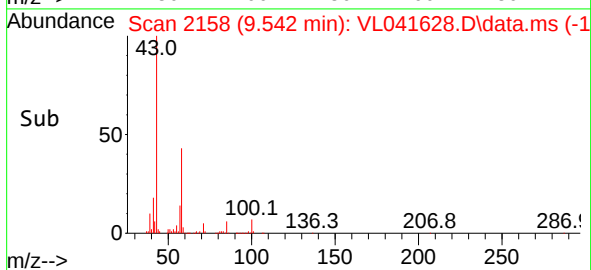
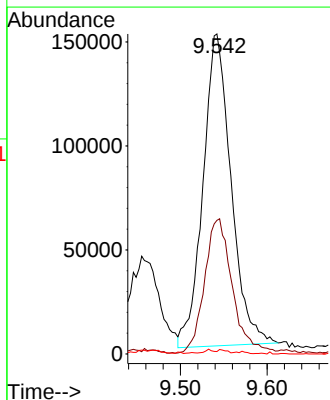
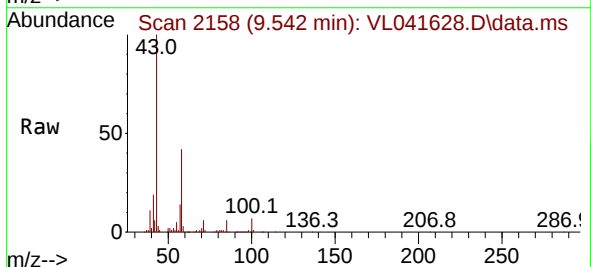
Manual Integrations
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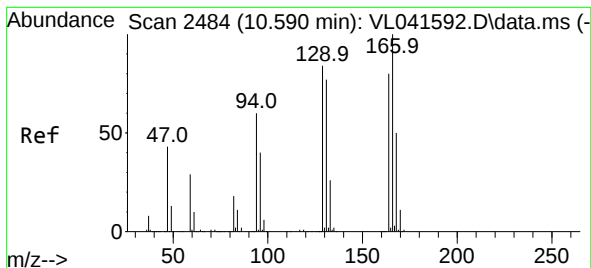
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#51
2-Hexanone
Concen: 2.204 ppbv
RT: 9.542 min Scan# 2158
Delta R.T. 0.016 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

Tgt Ion: 43 Resp: 338027
Ion Ratio Lower Upper
43 100
58 43.1 37.2 55.8
98 1.4 0.5 0.7





#52

Tetrachloroethene

Concen: 8.849 ppbv

RT: 10.603 min Scan# 2488

Delta R.T. 0.013 min

Lab File: VL041628.D

Acq: 25 Sep 2024 17:57

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:164 Resp: 612628

Ion Ratio Lower Upper

164 100

166 127.5 99.4 149.2

129 106.4 83.5 125.3

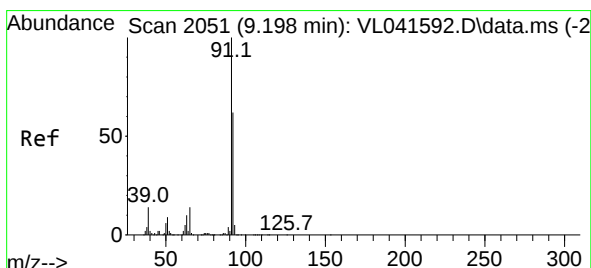
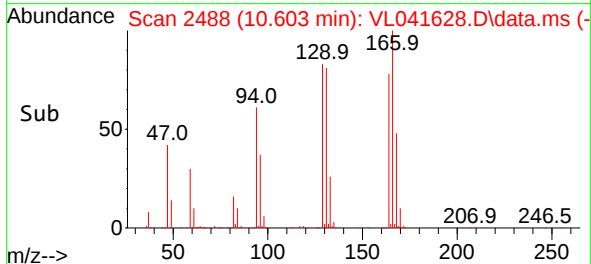
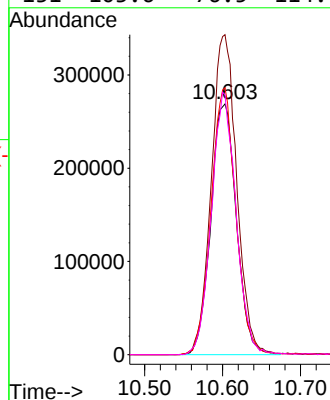
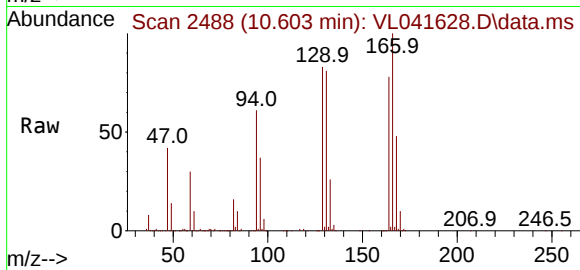
131 103.6 76.5 114.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024

Supervised By :Mahesh Dadoda 09/26/2024



#53

Toluene

Concen: 3.906 ppbv

RT: 9.204 min Scan# 2053

Delta R.T. 0.006 min

Lab File: VL041628.D

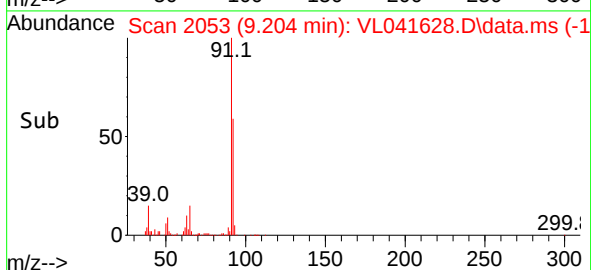
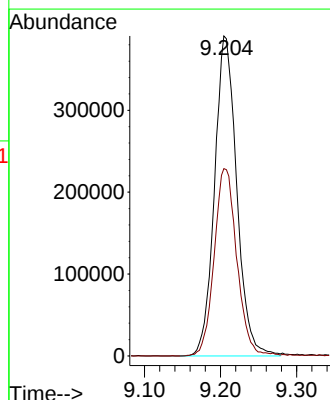
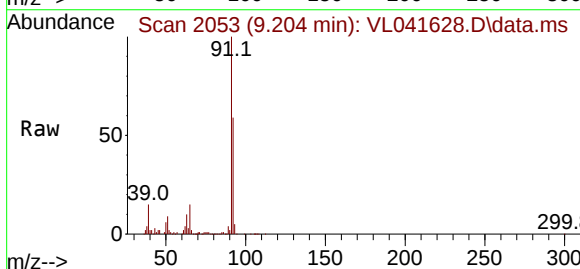
Acq: 25 Sep 2024 17:57

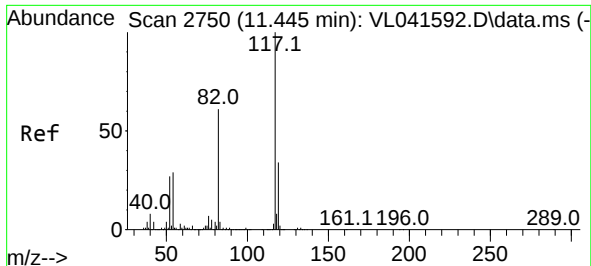
Tgt Ion: 91 Resp: 792738

Ion Ratio Lower Upper

91 100

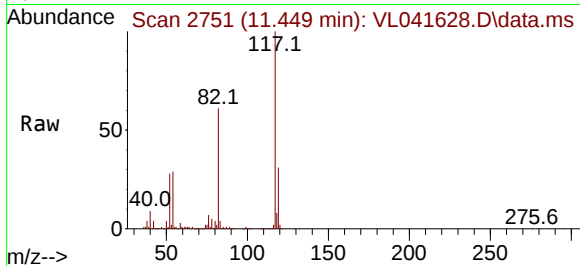
92 59.9 48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

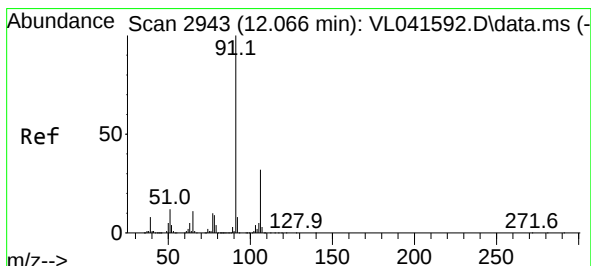
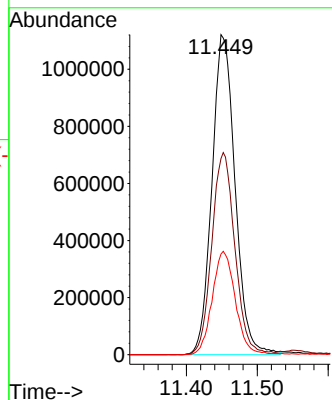
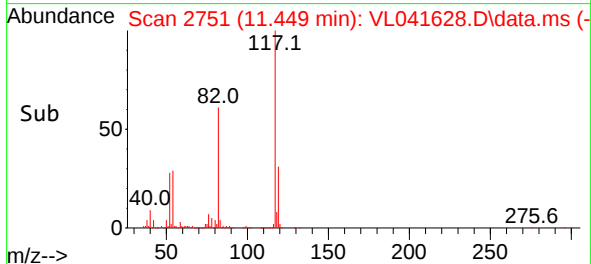
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:117 Resp: 254429
Ion Ratio Lower Upper
117 100
82 63.1 49.4 74.2
119 32.8 24.4 36.6

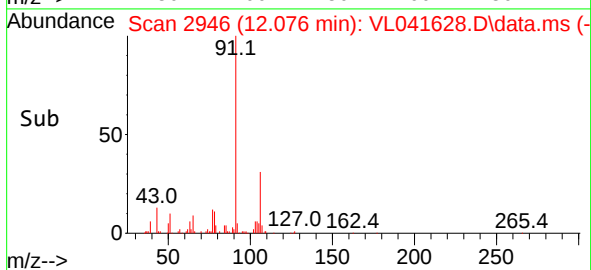
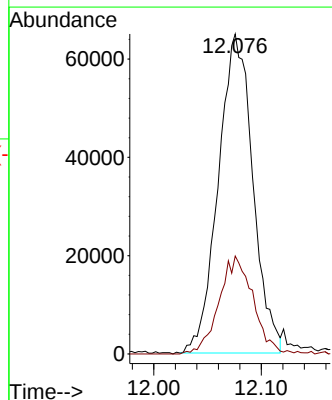
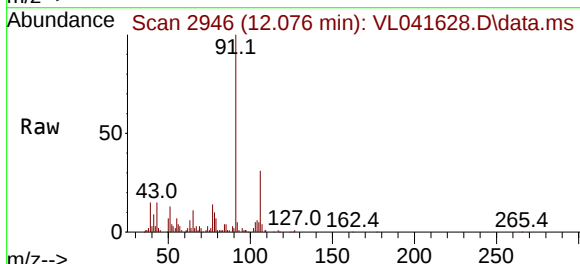
Manual Integrations
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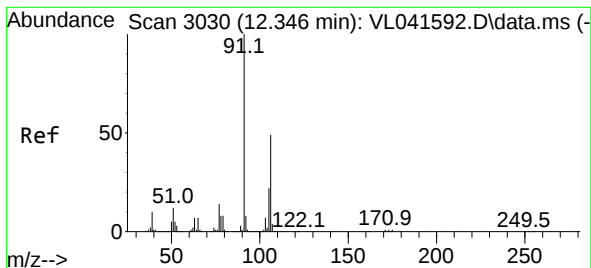
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#58
Ethyl Benzene
Concen: 0.532 ppbv
RT: 12.076 min Scan# 2946
Delta R.T. 0.010 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

Tgt Ion: 91 Resp: 144884
Ion Ratio Lower Upper
91 100
106 30.7 25.8 38.6





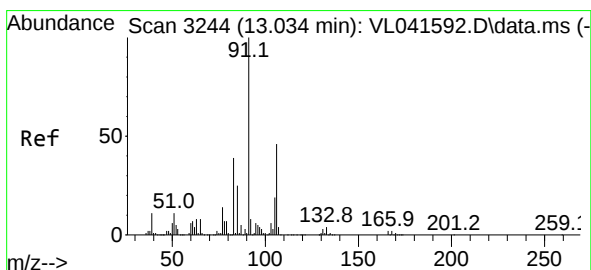
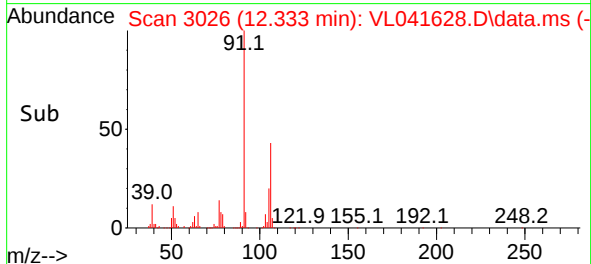
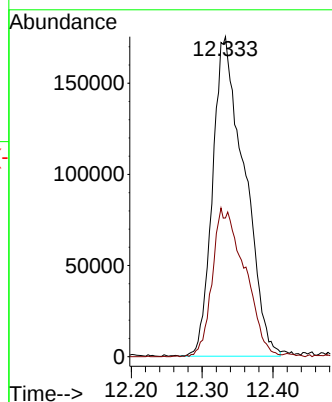
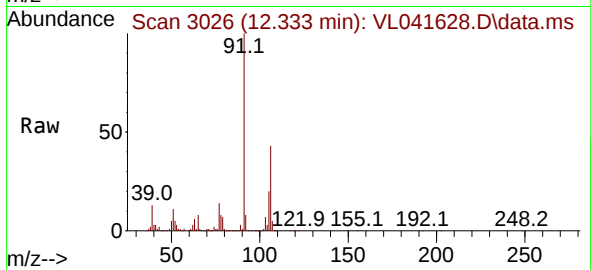
#59
m/p-Xylene
Concen: 2.255 ppbv
RT: 12.333 min Scan# 3030
Delta R.T. -0.013 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 546658
Ion Ratio Lower Upper
91 100
106 47.9 36.8 55.2

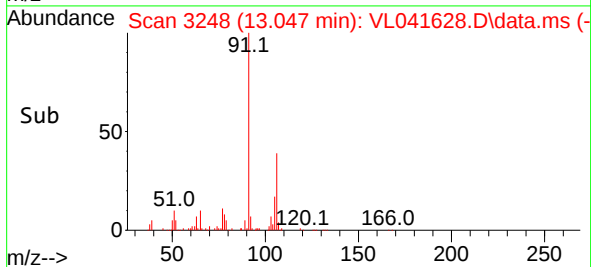
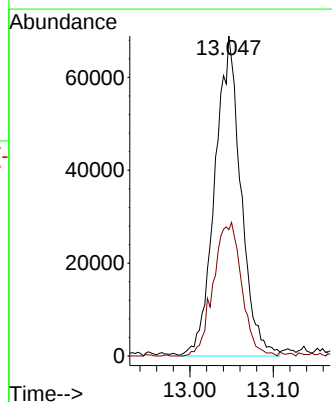
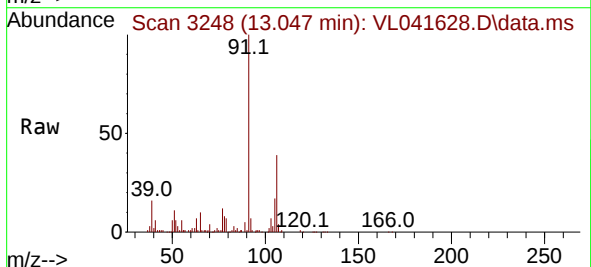
Manual Integrations
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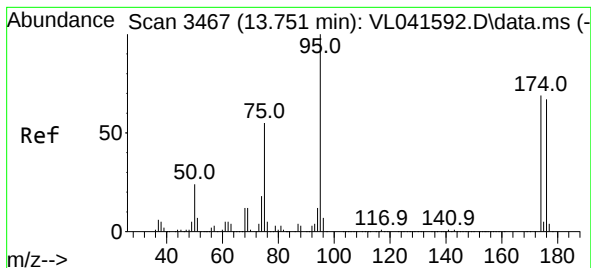
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#60
o-Xylene
Concen: 0.646 ppbv m
RT: 13.047 min Scan# 3248
Delta R.T. 0.013 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

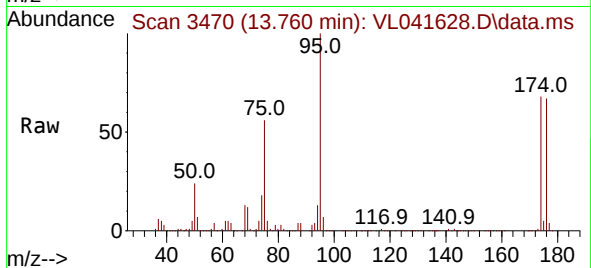
Tgt Ion: 91 Resp: 150135
Ion Ratio Lower Upper
91 100
106 0.0 23.1 69.3#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.038 ppbv
RT: 13.760 min Scan# 3467
Delta R.T. 0.010 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

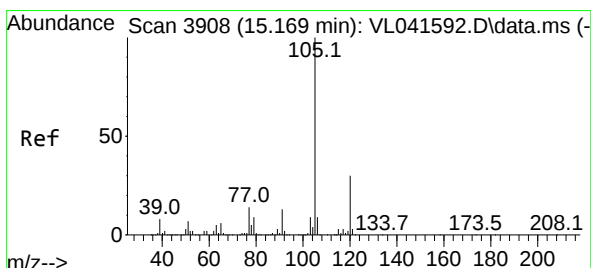
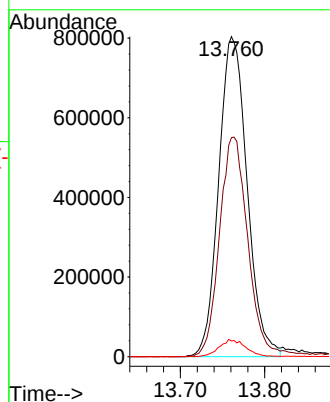
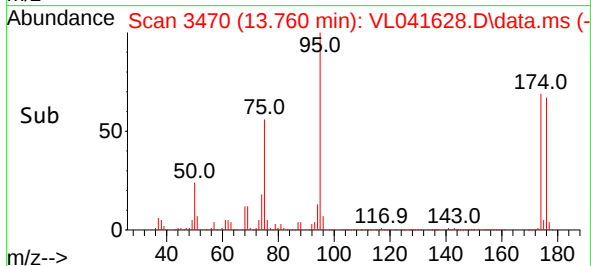
Instrument :
MSVOA_L
ClientSampleId :
SV1



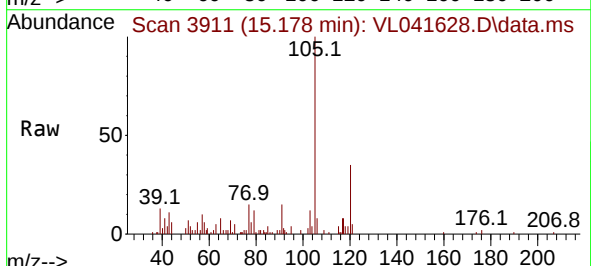
Tgt Ion: 95 Resp: 188009
Ion Ratio Lower Upper
95 100
174 70.7 55.8 83.8
175 5.1 4.1 6.1

Manual Integrations
APPROVED

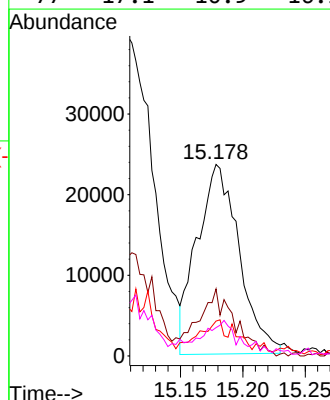
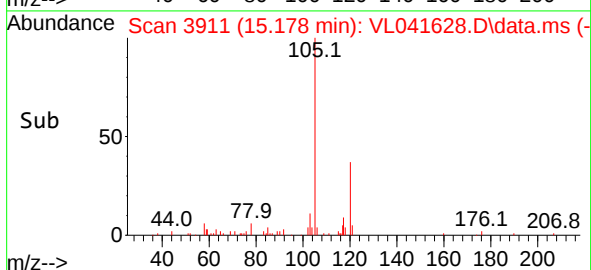
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

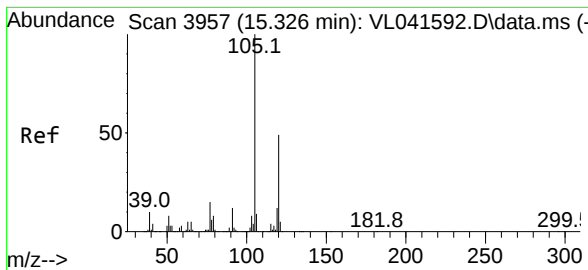


#72
4-Ethyltoluene
Concen: 0.203 ppbv
RT: 15.178 min Scan# 3911
Delta R.T. 0.010 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57



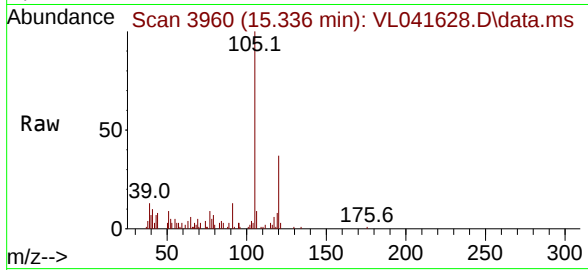
Tgt Ion:105 Resp: 55206
Ion Ratio Lower Upper
105 100
120 32.1 24.1 36.1
91 20.4 10.2 15.2#
77 17.1 10.9 16.3#





#73
1,3,5-Trimethylbenzene
Concen: 0.144 ppbv
RT: 15.336 min Scan# 3957
Delta R.T. 0.010 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57

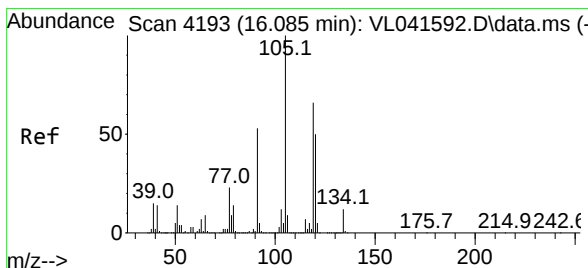
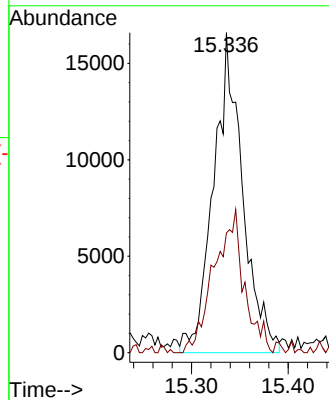
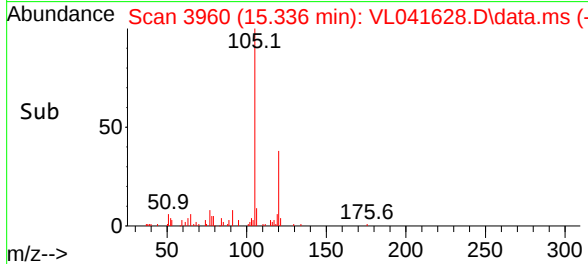
Instrument :
MSVOA_L
ClientSampleId :
SV1



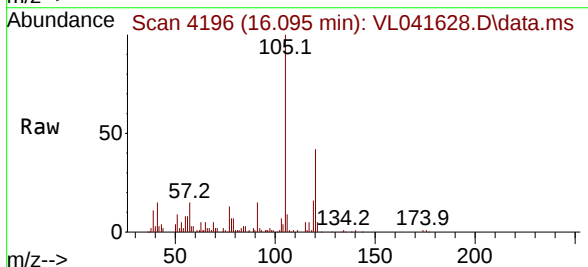
Tgt Ion:105 Resp: 3459
Ion Ratio Lower Upper
105 100
120 37.4 39.4 59.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.505 ppbv
RT: 16.095 min Scan# 4196
Delta R.T. 0.010 min
Lab File: VL041628.D
Acq: 25 Sep 2024 17:57



Tgt Ion:105 Resp: 141805
Ion Ratio Lower Upper
105 100
120 42.2 39.9 59.9
91 12.9 42.6 63.8#
77 10.8 18.2 27.2#

