

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
 Data File : VL038244.D
 Acq On : 29 Dec 2021 22:34
 Operator : SY/AP
 Sample : M5252-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/30/2021
 Supervised By :Semsettin Yesilyurt 01/02/2022

Quant Time: Dec 30 06:20:11 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Dec 2

QLast Update : Tue Dec 21 17:47:08 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.671	49	640643	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.176	114	1626705	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.085	117	1398818	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.413	95	1116385	10.357	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.057	85	30891	0.256	ppbv	95
3) Chlorodifluoromethane	2.999	51	37344m	0.277	ppbv	
4) Chloromethane	3.147	50	18968	0.406	ppbv	97
9) Propene	3.028	41	49484m	1.059	ppbv	
11) Trichlorofluoromethane	3.957	101	309268	2.790	ppbv	100
13) Ethanol	3.607	45	1849185	233.342	ppbv #	100
15) Acetone	3.851	43	4577987	71.202	ppbv	99
19) Isopropyl Alcohol	3.973	45	1106092	27.581	ppbv #	1
20) Methylene Chloride	4.353	84	105164	2.897	ppbv	93
25) Ethyl Acetate	5.684	43	114590	0.658	ppbv #	96
26) Hexane	5.693	57	64215	0.735	ppbv	88
32) 1,1,1-Trichloroethane	6.517	97	5490m	0.043	ppbv	
34) 2-Butanone	5.256	43	21702m	0.444	ppbv	
35) Carbon Tetrachloride	7.028	117	8326m	0.083	ppbv	
36) Benzene	6.893	78	35667	0.235	ppbv	99
38) Trichloroethene	7.835	130	33625	0.582	ppbv	98
52) Tetrachloroethene	11.221	164	111430	1.990	ppbv	98
53) Toluene	9.809	91	55028m	0.314	ppbv	
58) Ethyl Benzene	12.700	91	25497m	0.117	ppbv	
59) m/p-Xylene	12.966	91	76752m	0.414	ppbv	
60) o-Xylene	13.687	91	27392m	0.159	ppbv	

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

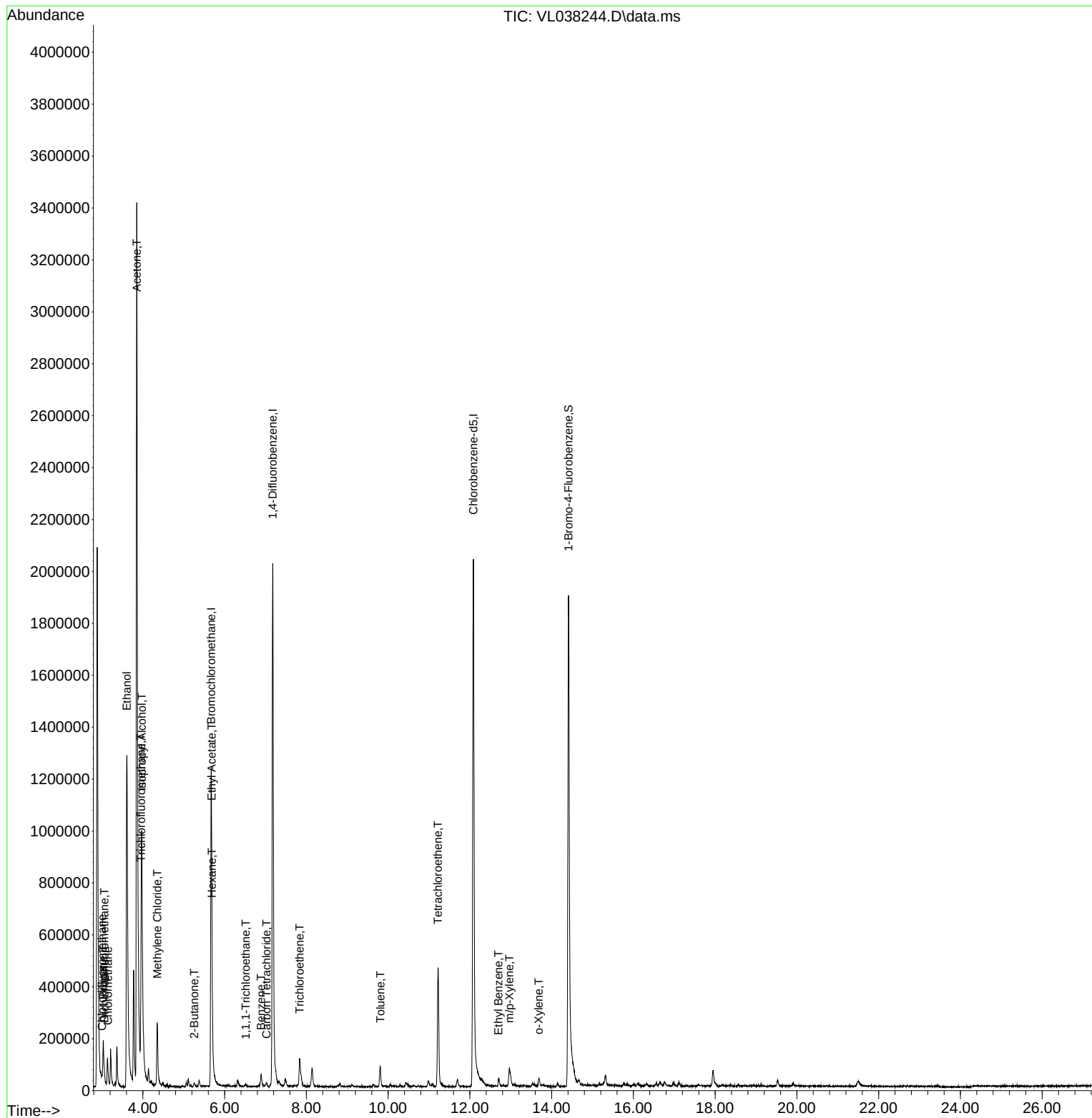
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
Data File : VL038244.D
Acq On : 29 Dec 2021 22:34
Operator : SY/AP
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

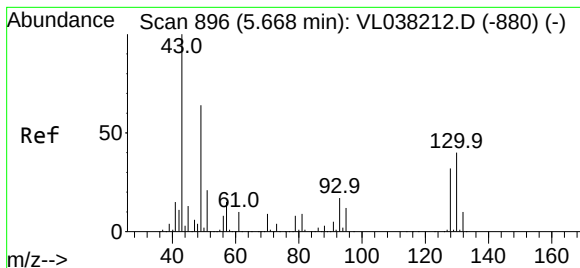
Instrument :
MSVOA_L
ClientSampleId :
IA-1

Quant Time: Dec 30 06:20:11 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec
QLast Update : Tue Dec 21 17:47:08 2021
Response via : Initial Calibration

Manual Integrations
APPROVED

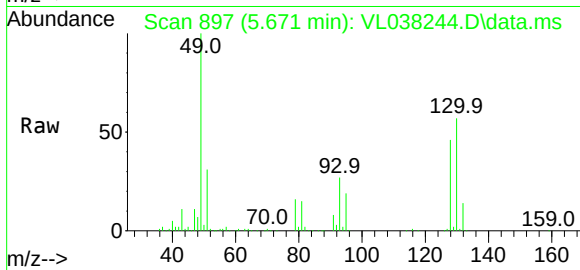
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.671 min Scan# 896
Delta R.T. 0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

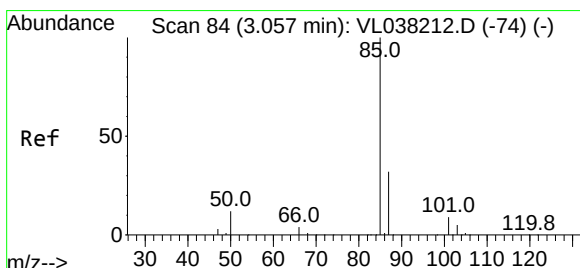
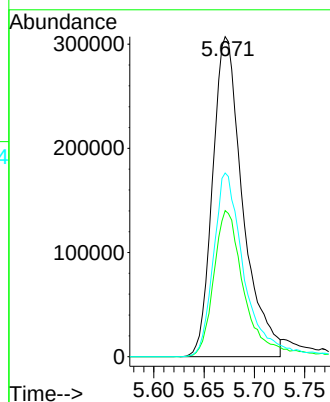
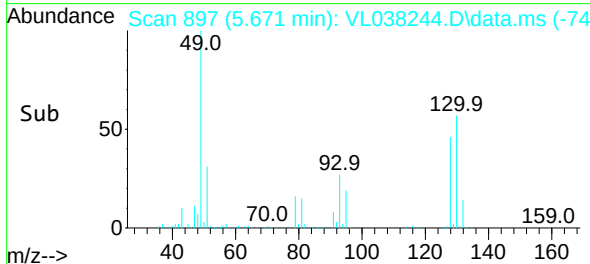
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 49 Resp: 64064
Ion Ratio Lower Upper
49 100
128 47.5 26.9 80.6
130 60.2 32.3 96.9

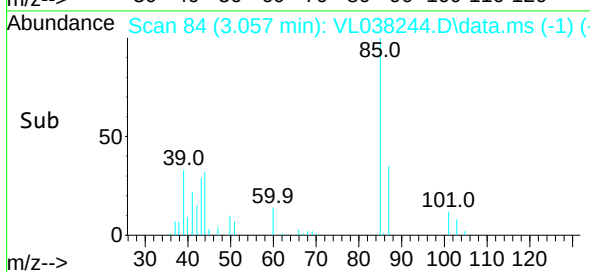
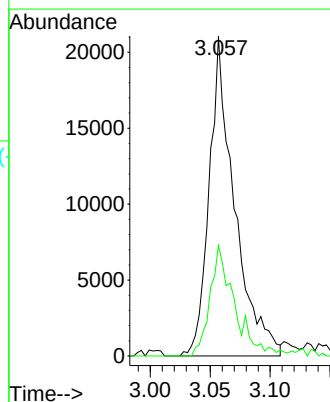
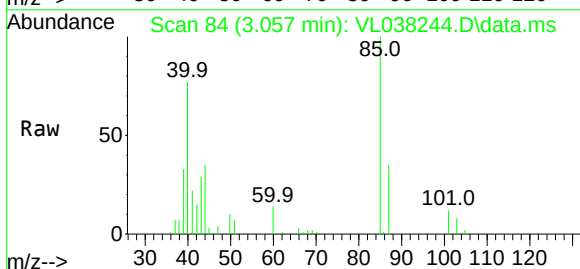
Manual Integrations
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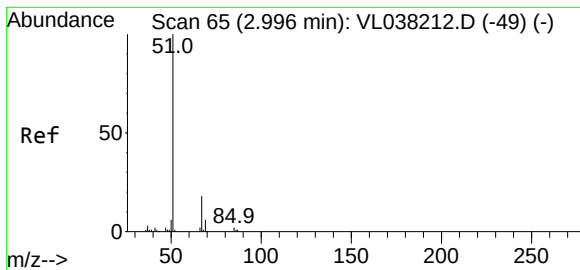
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#2
Dichlorodifluoromethane
Concen: 0.256 ppbv
RT: 3.057 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

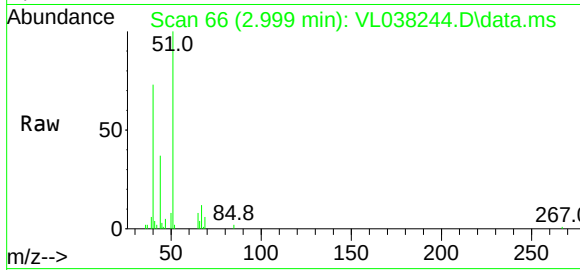
Tgt Ion: 85 Resp: 30891
Ion Ratio Lower Upper
85 100
87 34.5 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.277 ppbv
RT: 2.999 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

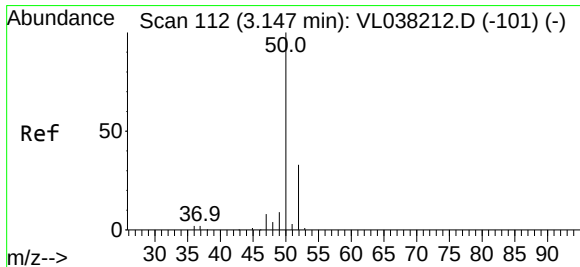
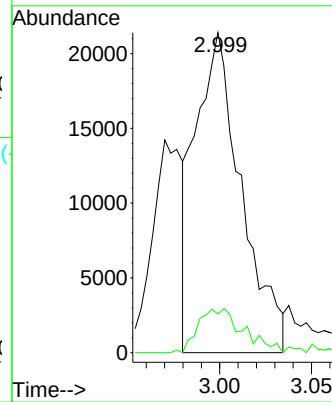
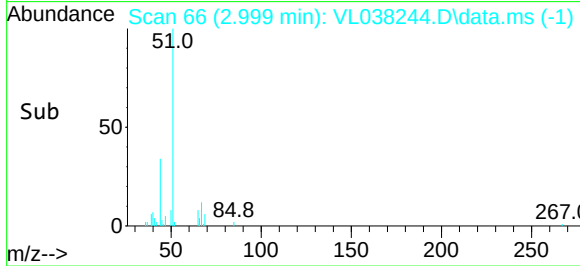
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 51 Resp: 37344
Ion Ratio Lower Upper
51 100
67 14.8 14.0 21.0

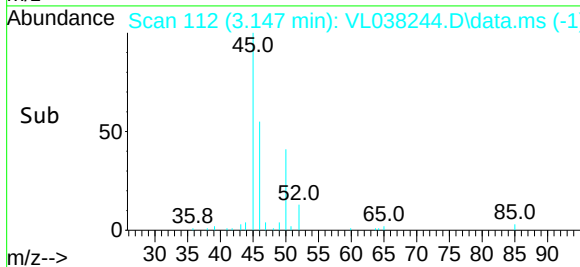
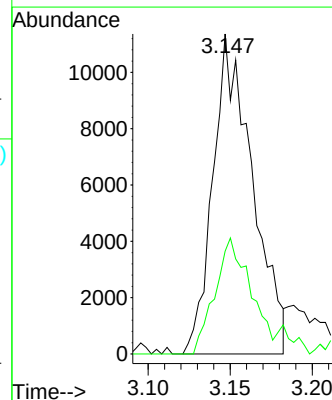
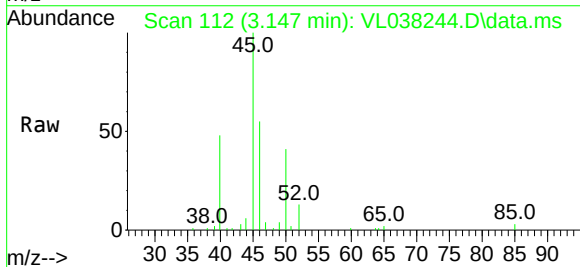
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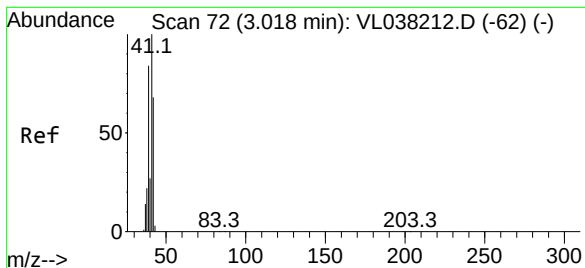
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#4
Chloromethane
Concen: 0.406 ppbv
RT: 3.147 min Scan# 112
Delta R.T. -0.000 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

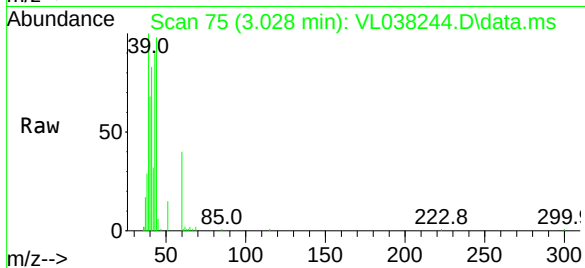
Tgt Ion: 50 Resp: 18968
Ion Ratio Lower Upper
50 100
52 30.9 26.2 39.2





#9
Propene
Concen: 1.059 ppbv m
RT: 3.028 min Scan# 72
Delta R.T. 0.010 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

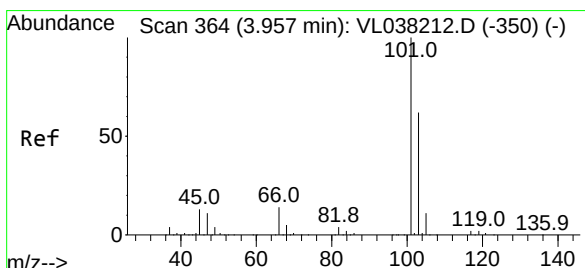
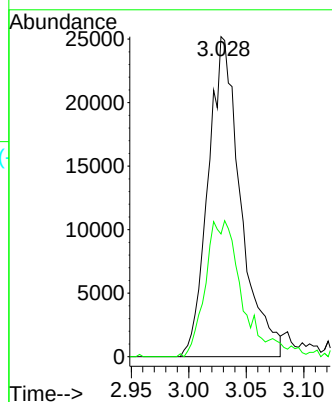
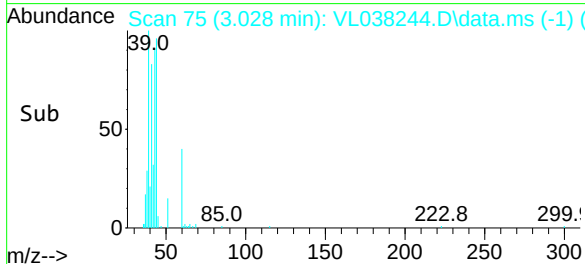
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 41 Resp: 49484
Ion Ratio Lower Upper
41 100
42 59.0 55.5 83.3

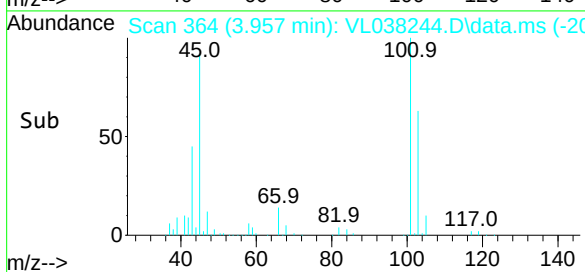
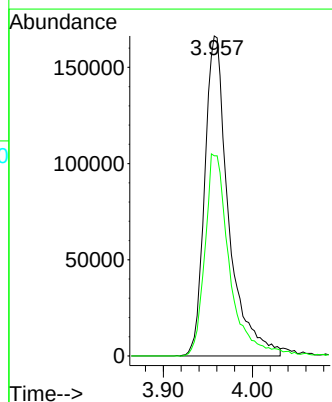
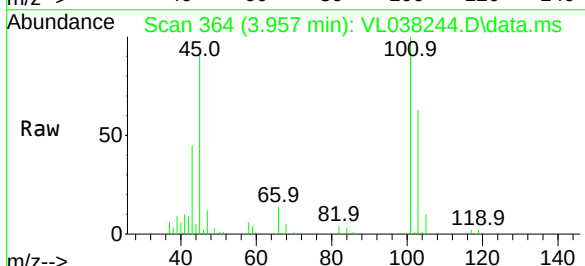
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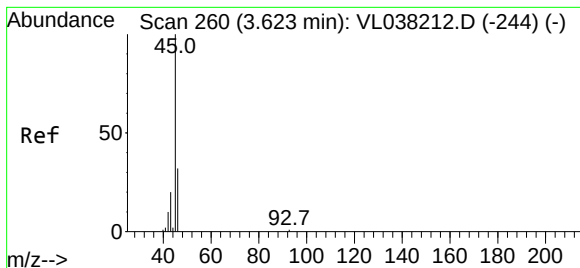
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#11
Trichlorofluoromethane
Concen: 2.790 ppbv
RT: 3.957 min Scan# 364
Delta R.T. -0.000 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

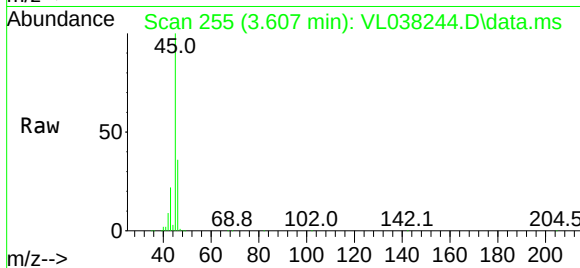
Tgt Ion:101 Resp: 309268
Ion Ratio Lower Upper
101 100
103 62.6 49.9 74.9





#13
Ethanol
Concen: 233.342 ppbv
RT: 3.607 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

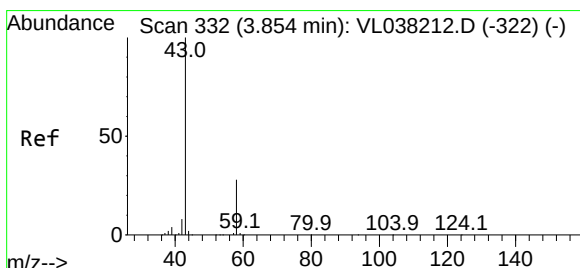
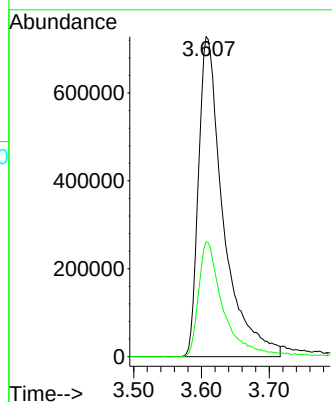
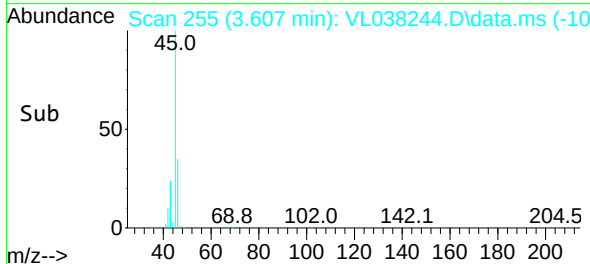
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 45 Resp: 184918
Ion Ratio Lower Upper
45 100
46 36.7 0.0 0.0

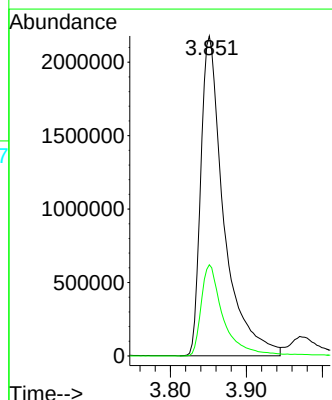
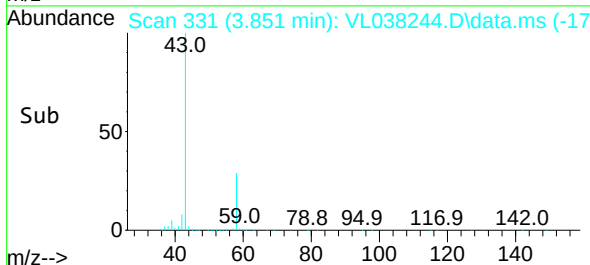
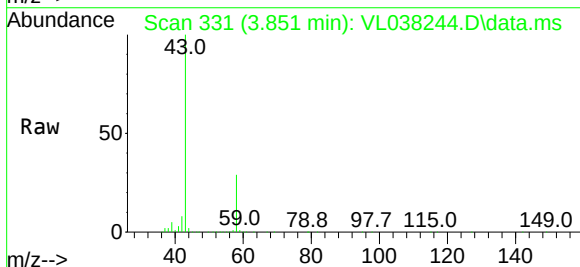
Manual Integrations
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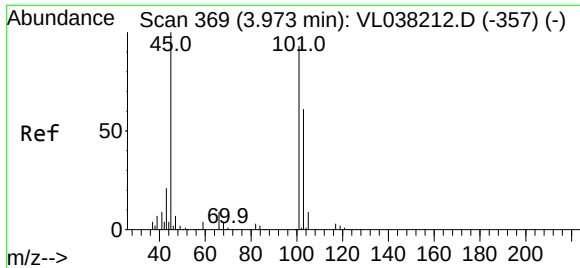
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#15
Acetone
Concen: 71.202 ppbv
RT: 3.851 min Scan# 331
Delta R.T. -0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

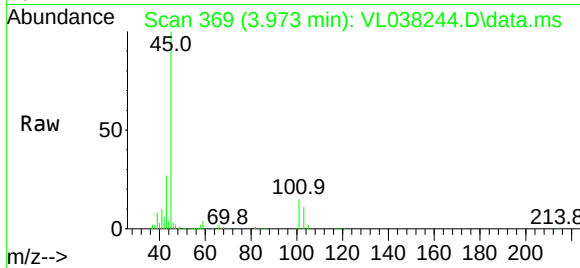
Tgt Ion: 43 Resp: 4577987
Ion Ratio Lower Upper
43 100
58 28.5 23.3 34.9





#19
Isopropyl Alcohol
Concen: 27.581 ppbv
RT: 3.973 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

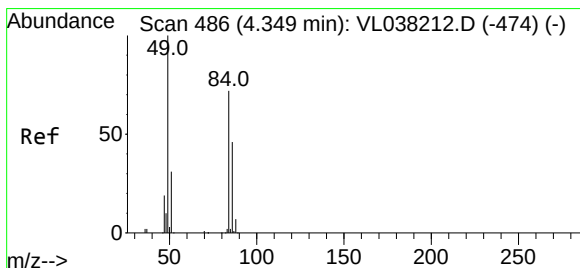
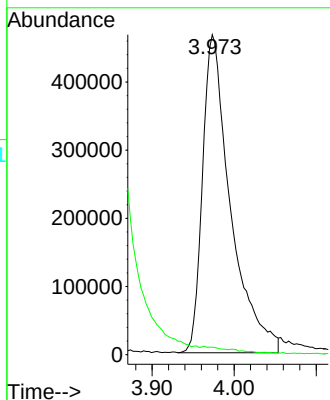
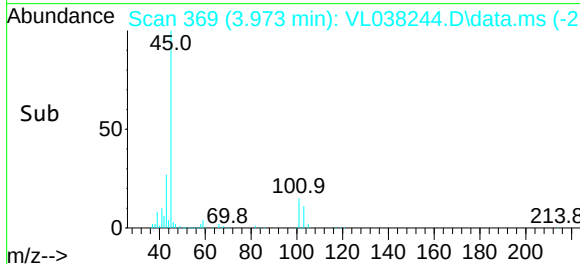
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 45 Resp: 1106092
Ion Ratio Lower Upper
45 100
58 118.1 32.4 48.6

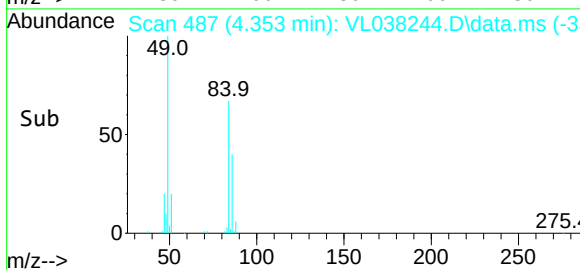
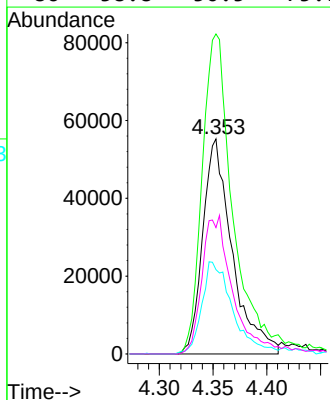
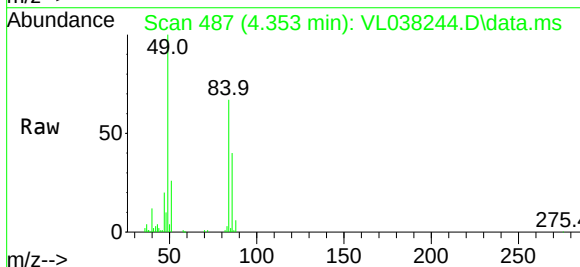
Manual Integrations
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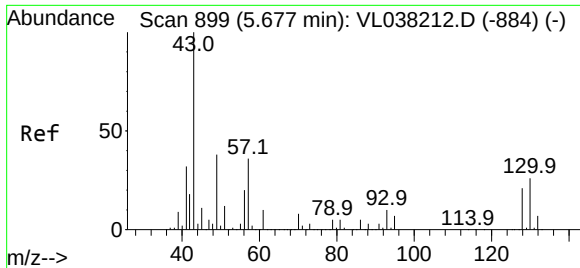
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#20
Methylene Chloride
Concen: 2.897 ppbv
RT: 4.353 min Scan# 487
Delta R.T. 0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

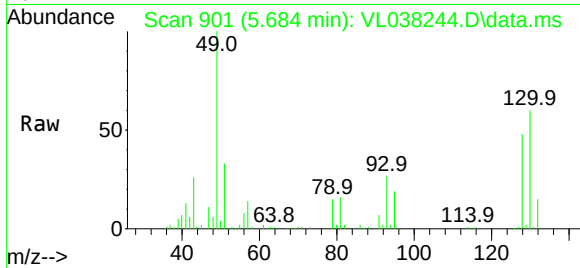
Tgt Ion: 84 Resp: 105164
Ion Ratio Lower Upper
84 100
49 148.5 110.6 166.0
51 38.7 34.2 51.2
86 58.8 50.5 75.7





#25
Ethyl Acetate
Concen: 0.658 ppbv
RT: 5.684 min Scan# 901
Delta R.T. 0.006 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

Instrument :
MSVOA_L
ClientSampleId :
IA-1

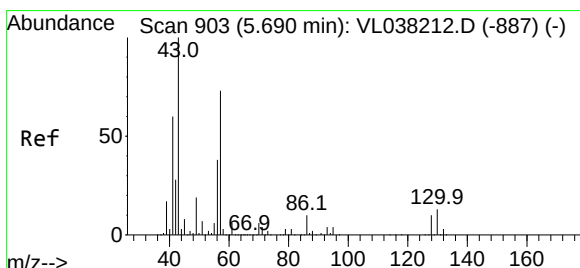
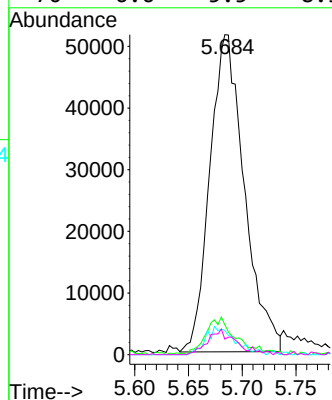
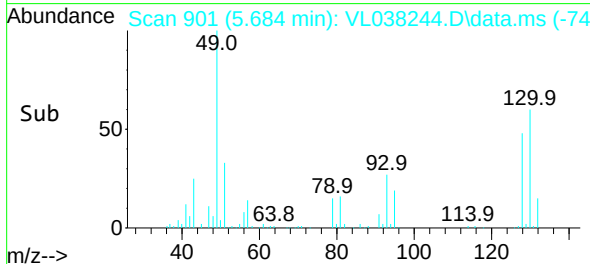


Tgt Ion: 43 Resp: 114590

Ion	Ratio	Lower	Upper
43	100		
45	10.9	7.9	11.9
61	7.8	8.1	12.1
70	6.6	5.5	8.3

Manual Integrations
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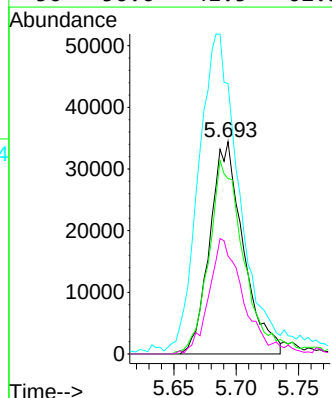
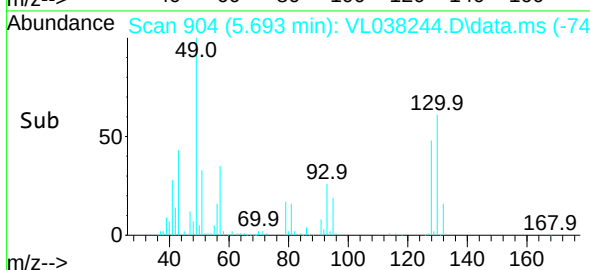
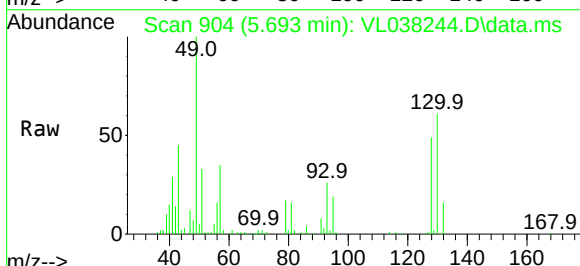
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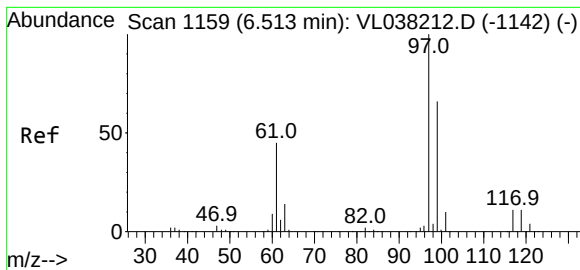


#26
Hexane
Concen: 0.735 ppbv
RT: 5.693 min Scan# 904
Delta R.T. 0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

Tgt Ion: 57 Resp: 64215

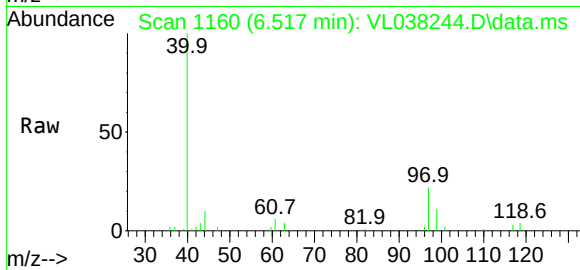
Ion	Ratio	Lower	Upper
57	100		
41	99.4	69.0	103.6
43	194.4	171.2	256.8
56	56.6	41.5	62.3





#32
1,1,1-Trichloroethane
Concen: 0.043 ppbv m
RT: 6.517 min Scan# 1159
Delta R.T. 0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

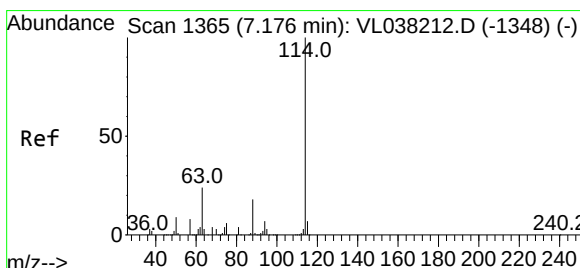
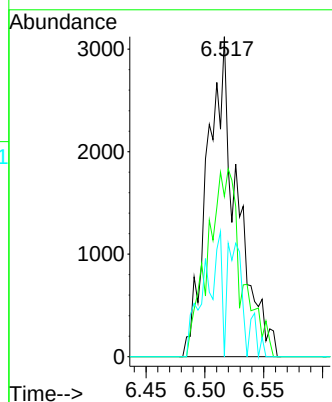
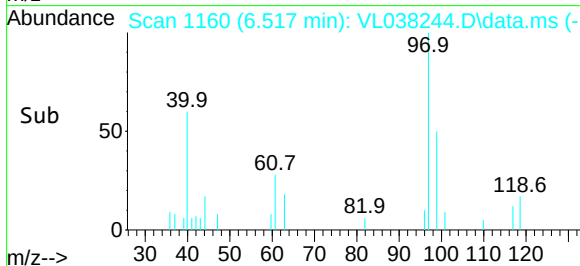
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 97 Resp: 5490
Ion Ratio Lower Upper
97 100
99 67.1 52.4 78.6
61 41.9 37.2 55.8

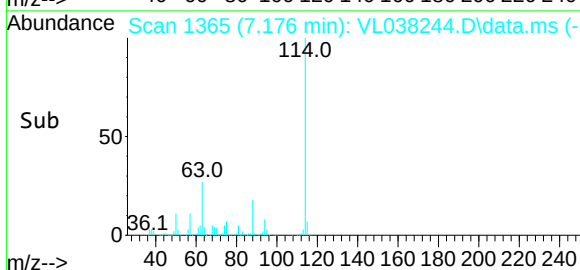
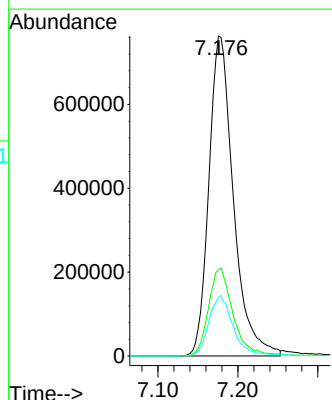
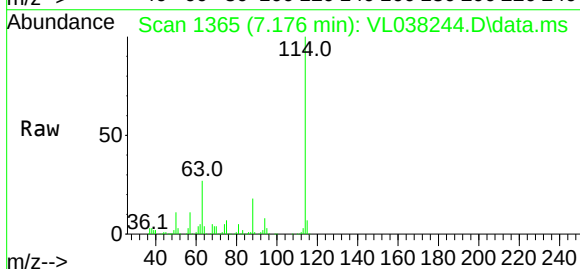
Manual Integrations
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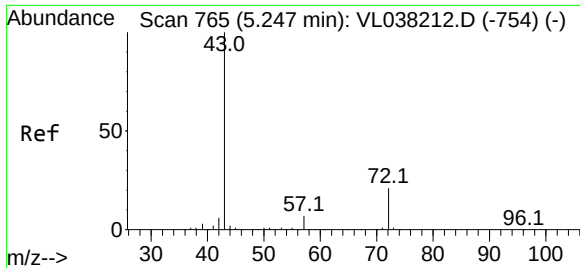
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.176 min Scan# 1365
Delta R.T. -0.000 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

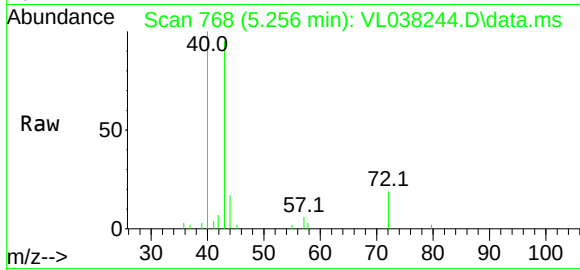
Tgt Ion:114 Resp: 1626705
Ion Ratio Lower Upper
114 100
63 27.7 19.7 29.5
88 19.0 14.3 21.5





#34
2-Butanone
Concen: 0.444 ppbv m
RT: 5.256 min Scan# 71
Delta R.T. 0.010 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

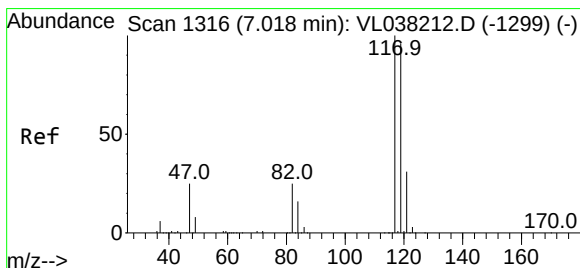
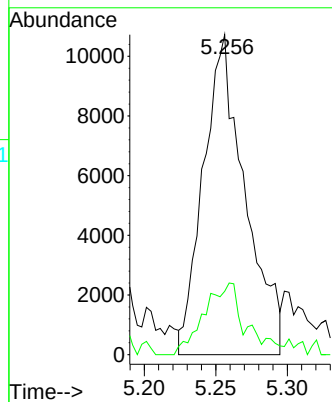
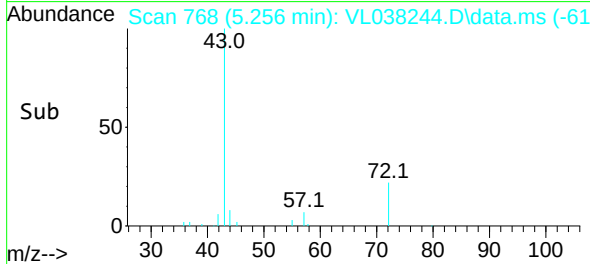
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 43 Resp: 2170
Ion Ratio Lower Upper
43 100
72 24.5 18.3 27.5

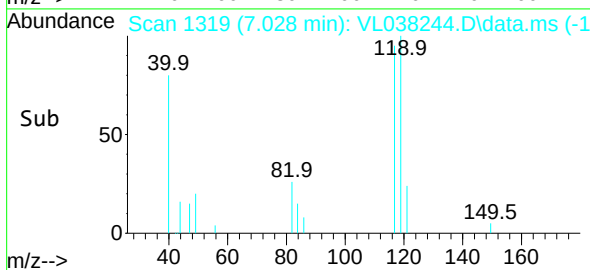
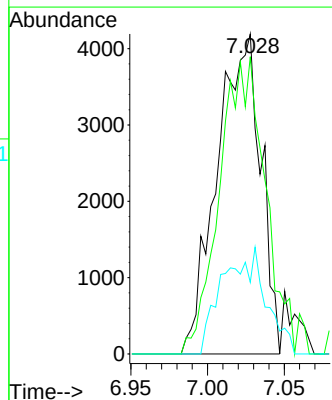
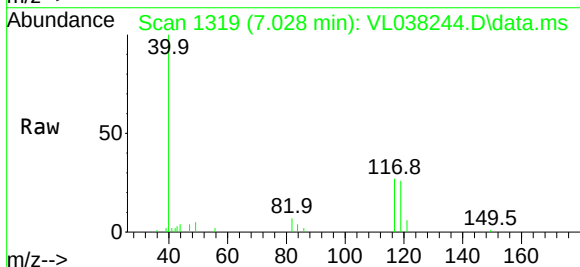
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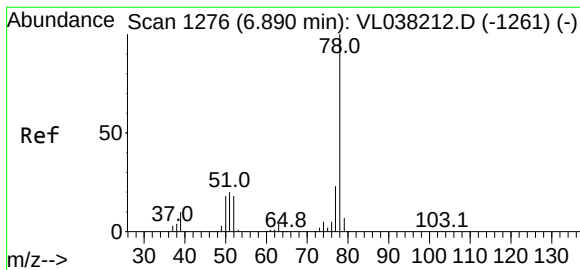
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#35
Carbon Tetrachloride
Concen: 0.083 ppbv m
RT: 7.028 min Scan# 1319
Delta R.T. 0.010 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

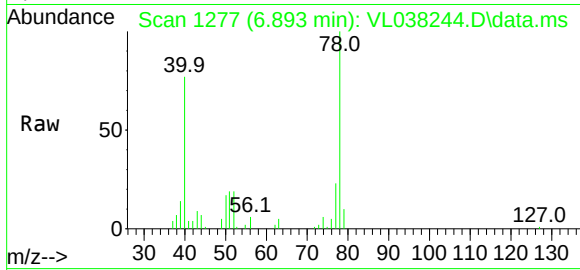
Tgt Ion:117 Resp: 8326
Ion Ratio Lower Upper
117 100
119 92.9 76.7 115.1
121 22.4 25.0 37.4#





#36
Benzene
Concen: 0.235 ppbv
RT: 6.893 min Scan# 1276
Delta R.T. 0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

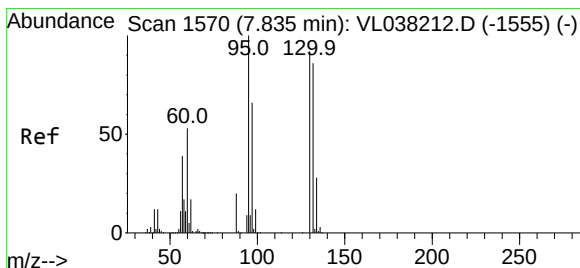
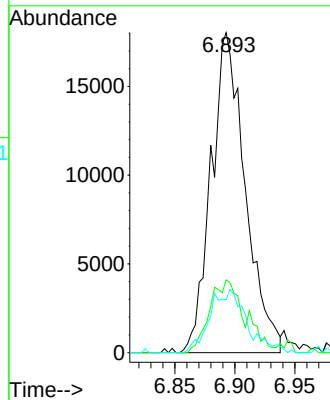
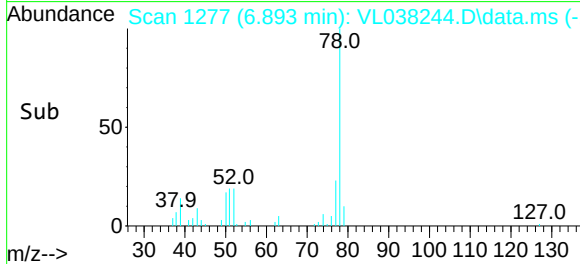
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 78 Resp: 3566
Ion Ratio Lower Upper
78 100
77 22.7 18.2 27.4
50 16.5 14.3 21.5

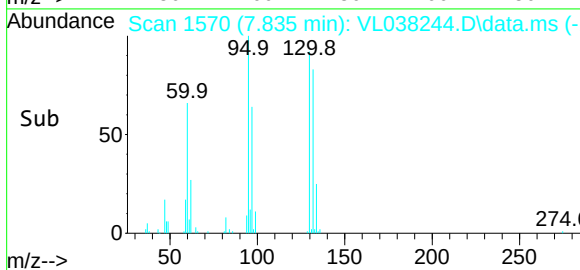
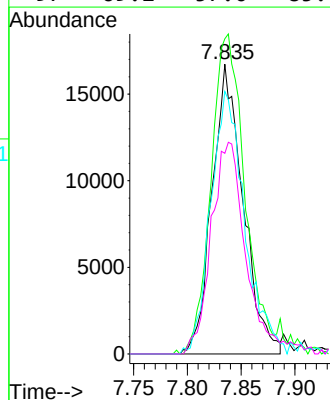
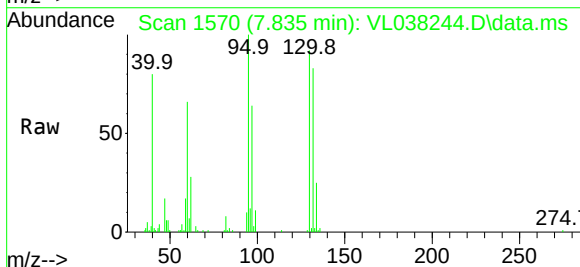
Manual Integrations
APPROVED

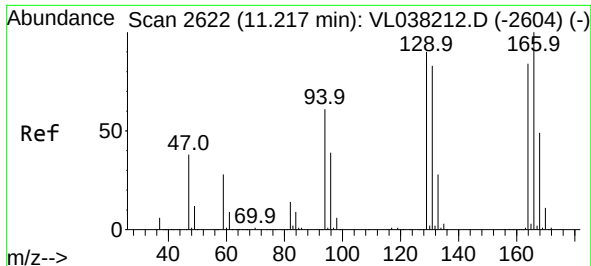
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#38
Trichloroethene
Concen: 0.582 ppbv
RT: 7.835 min Scan# 1570
Delta R.T. -0.000 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

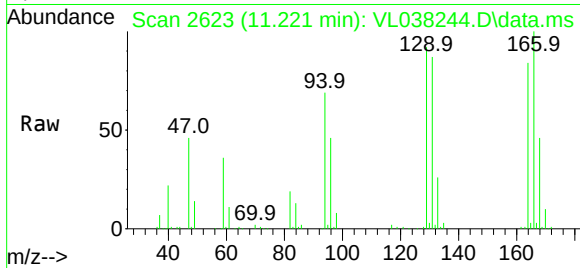
Tgt Ion:130 Resp: 33625
Ion Ratio Lower Upper
130 100
95 108.8 87.0 130.4
132 90.6 75.1 112.7
97 69.2 57.0 85.4





#52
Tetrachloroethene
Concen: 1.990 ppbv
RT: 11.221 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

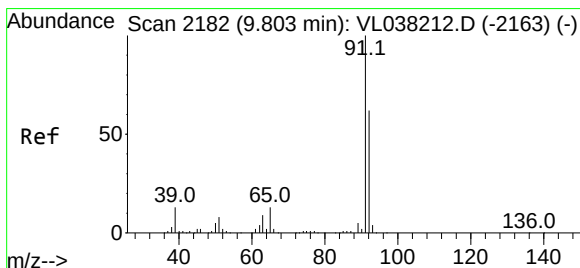
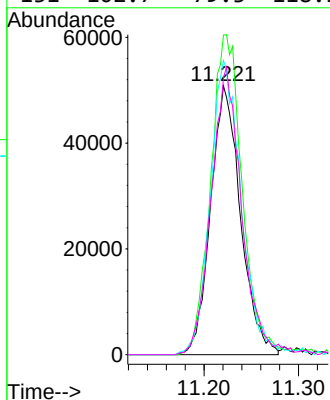
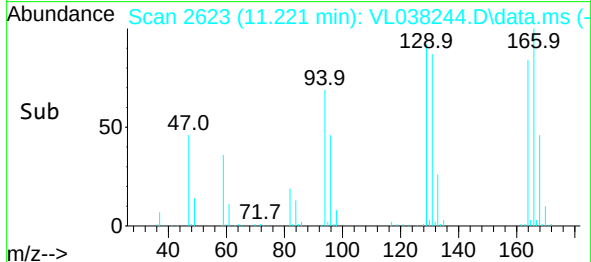
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion:164 Resp: 111430
Ion Ratio Lower Upper
164 100
166 119.0 95.6 143.4
129 108.8 85.8 128.8
131 102.7 79.3 118.9

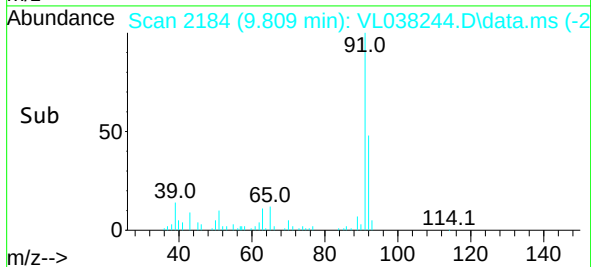
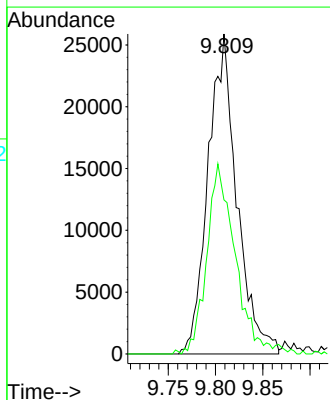
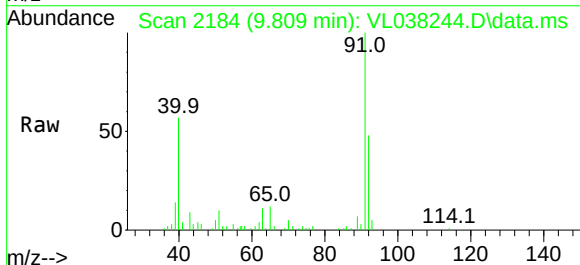
Manual Integrations
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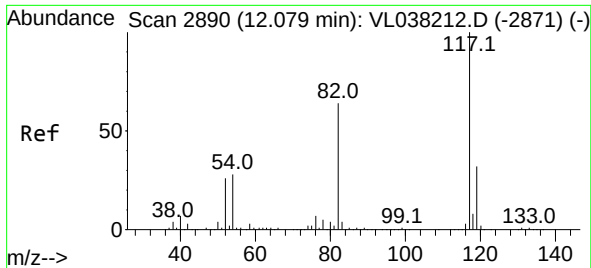
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#53
Toluene
Concen: 0.314 ppbv m
RT: 9.809 min Scan# 2184
Delta R.T. 0.006 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

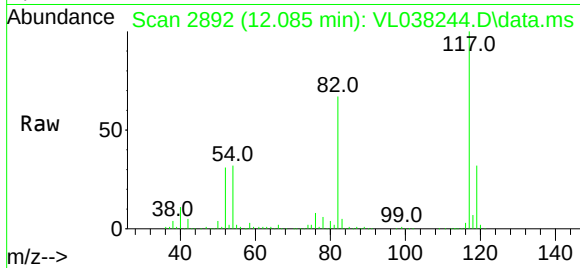
Tgt Ion: 91 Resp: 55028
Ion Ratio Lower Upper
91 100
92 59.1 48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.085 min Scan# 2892
Delta R.T. 0.006 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

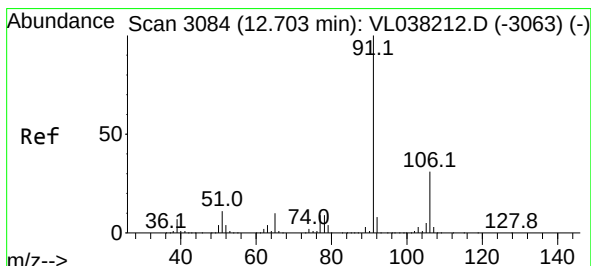
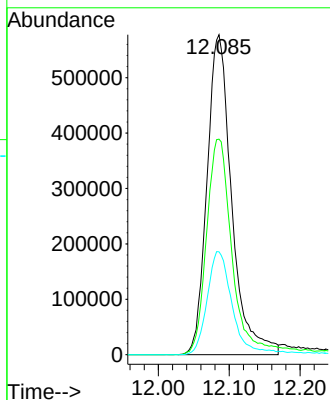
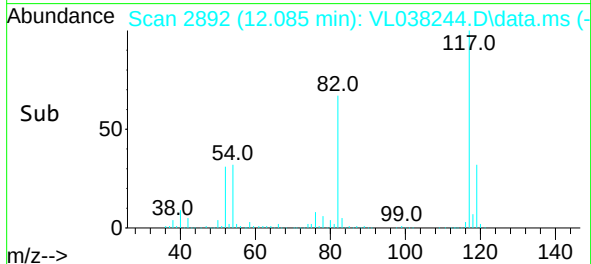
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 117 Resp: 1398818
Ion Ratio Lower Upper
117 100
82 71.9 53.3 79.9
119 33.2 25.5 38.3

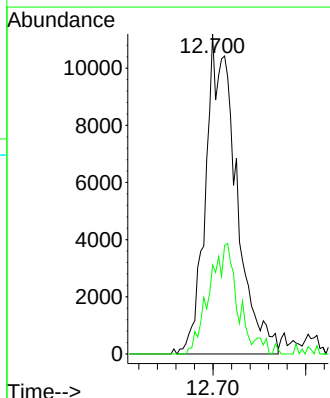
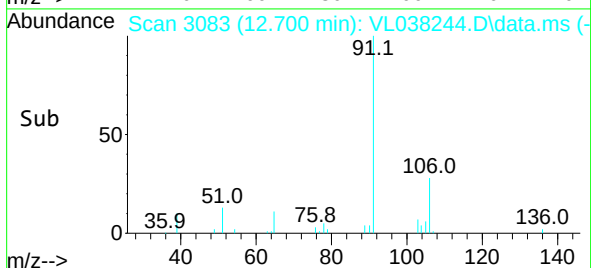
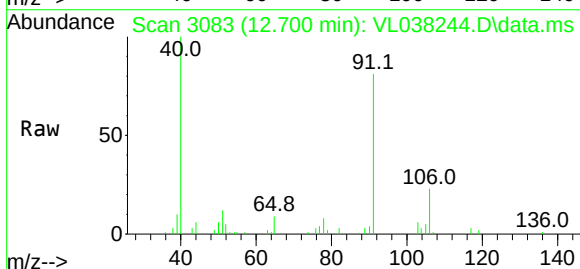
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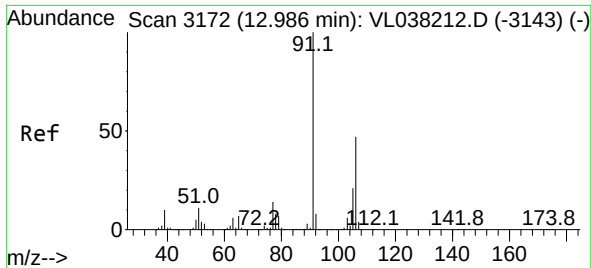
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#58
Ethyl Benzene
Concen: 0.117 ppbv m
RT: 12.700 min Scan# 3083
Delta R.T. -0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

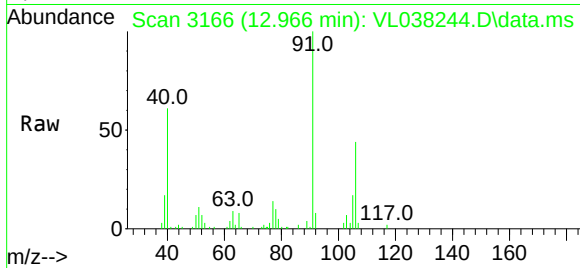
Tgt Ion: 91 Resp: 25497
Ion Ratio Lower Upper
91 100
106 27.8 25.0 37.4





#59
m/p-Xylene
Concen: 0.414 ppbv m
RT: 12.966 min Scan# 3172
Delta R.T. -0.019 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

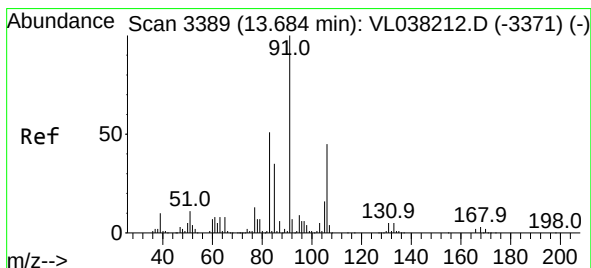
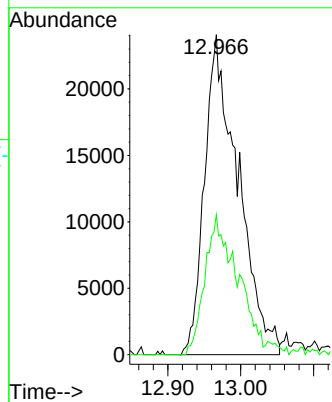
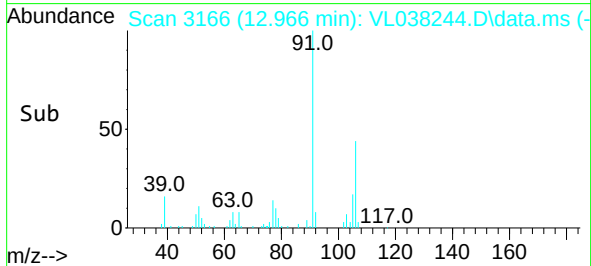
Instrument :
MSVOA_L
ClientSampleId :
IA-1



Tgt Ion: 91 Resp: 76752
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3

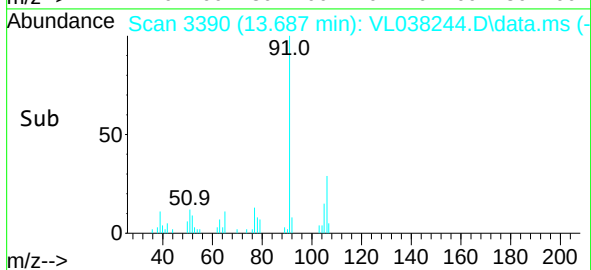
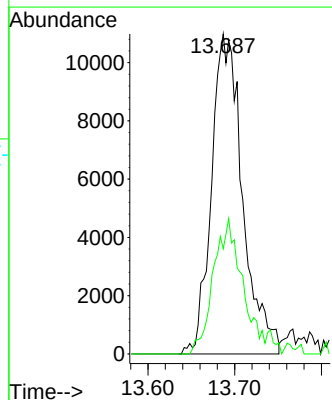
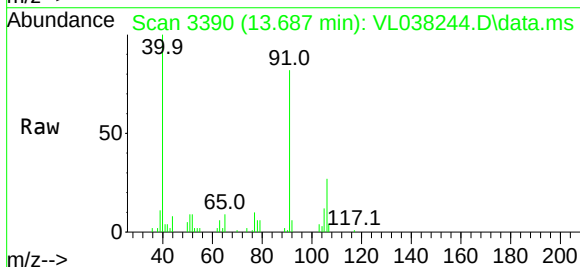
Manual Integrations
APPROVED

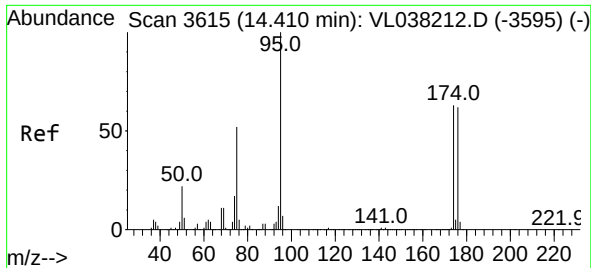
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#60
o-Xylene
Concen: 0.159 ppbv m
RT: 13.687 min Scan# 3390
Delta R.T. 0.003 min
Lab File: VL038244.D
Acq: 29 Dec 2021 22:34

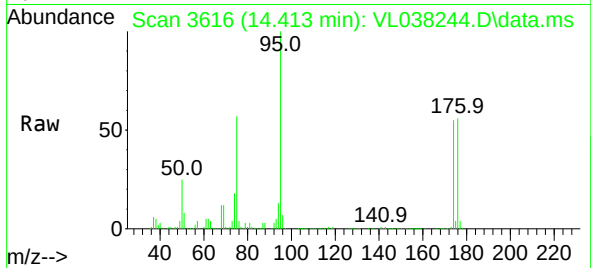
Tgt Ion: 91 Resp: 27392
Ion Ratio Lower Upper
91 100
106 42.2 23.5 70.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.357 ppbv
 RT: 14.413 min Scan# 30
 Delta R.T. 0.003 min
 Lab File: VL038244.D
 Acq: 29 Dec 2021 22:34

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1



Tgt Ion: 95 Resp: 111638
 Ion Ratio Lower Upper
 95 100
 174 61.7 54.6 81.8
 175 4.3 4.1 6.1

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/30/2021
 Supervised By :Semsettin Yesilyurt 01/02/2022

