

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082522\
 Data File : VL039588.D
 Acq On : 25 Aug 2022 21:44
 Operator : SY/AP
 Sample : N4351-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/29/2022
 Supervised By :Semsettin Yesilyurt 08/29/2022

Quant Time: Aug 26 06:26:43 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:26:43 2022
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	989894	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2557681	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2266709	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1674597	9.793	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	1517665	11.522	ppbv	99
3) Chlorodifluoromethane	2.694	51	12284161	104.157	ppbv	94
4) Chloromethane	2.829	50	34429	0.485	ppbv #	76
11) Trichlorofluoromethane	3.584	101	35726	0.247	ppbv	86
13) Ethanol	3.259	45	271394	69.976	ppbv	69
15) Acetone	3.481	43	2335689	21.064	ppbv	98
19) Isopropyl Alcohol	3.600	45	141799	2.629	ppbv #	1
20) Methylene Chloride	3.951	84	1475604	32.756	ppbv	96
26) Hexane	5.224	57	1079435	11.147	ppbv #	39
29) Chloroform	5.288	83	62577m	0.413	ppbv	
34) 2-Butanone	4.803	43	119688	0.941	ppbv	98
35) Carbon Tetrachloride	6.497	117	10004m	0.072	ppbv	
36) Benzene	6.372	78	24543m	0.126	ppbv	
41) Tetrahydrofuran	5.581	42	22085	0.291	ppbv	96
51) 2-Hexanone	9.568	43	25359m	0.174	ppbv	
52) Tetrachloroethene	10.606	164	3000m	0.041	ppbv	
53) Toluene	9.227	91	140082m	0.642	ppbv	
59) m/p-Xylene	12.352	91	27724m	0.119	ppbv	

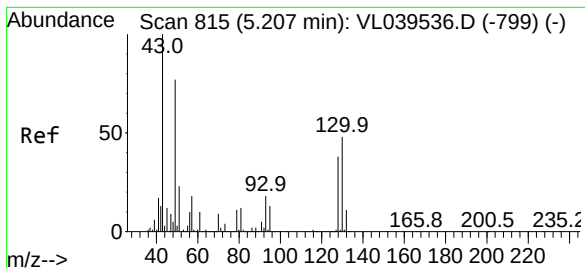
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations

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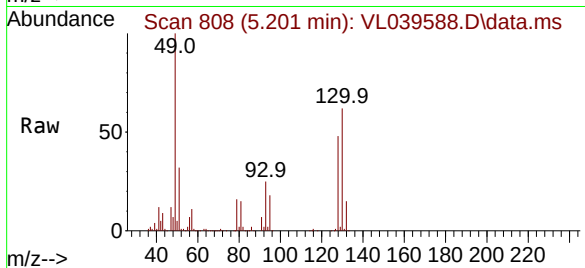
The chromatogram displays a series of peaks corresponding to different chemical compounds. The y-axis represents Abundance, ranging from 0 to 4,800,000. The x-axis represents Time in minutes, ranging from 0.00 to 26.00. The following table lists the labeled compounds and their approximate retention times:

Compound	Retention Time (min)
Chloromethane	~1.5
Ethanol	~2.5
Trichloroethylene	~3.5
Acetone, T	~4.0
2-Butanone, T	~5.5
Chloroform, T	~5.8
Tetrahydrofuran, T	~6.0
Carbon tetrachloride, T	~6.5
1,4-Difluorobenzene, I	~6.8
Toluene, T	~9.5
2-Hexanone, T	~10.0
Tetrachloroethene, T	~10.5
Chlorobenzene-d5, I	~11.5
m/p-Xylene, T	~12.5
1-Bromo-4-Fluorobenzene, S	~14.0



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. -0.006 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

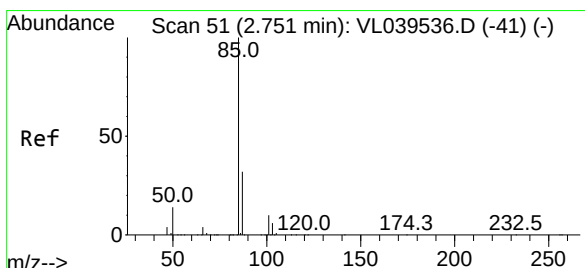
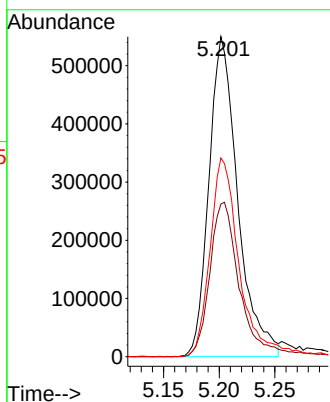
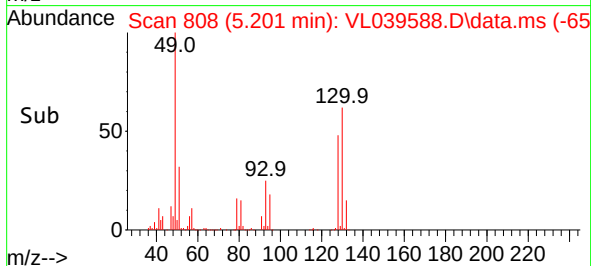
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 989894
Ion Ratio Lower Upper
49 100
128 51.0 26.7 80.0
130 64.8 34.3 102.8

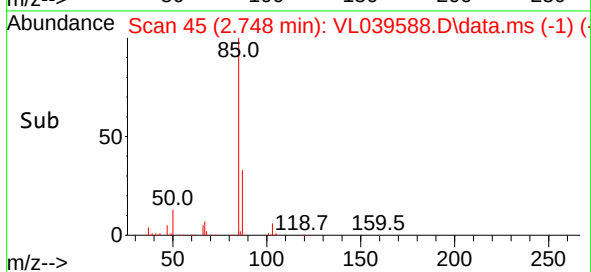
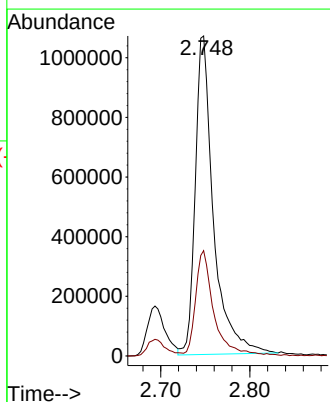
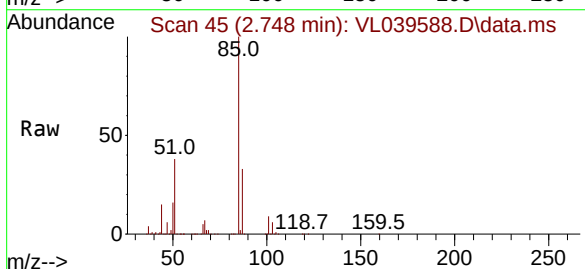
Manual Integrations
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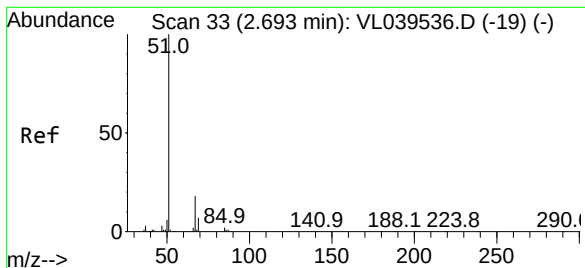
Reviewed By :Mahesh Dadoda 08/29/2022
Supervised By :Semsettin Yesilyurt 08/29/2022



#2
Dichlorodifluoromethane
Concen: 11.522 ppbv
RT: 2.748 min Scan# 45
Delta R.T. -0.003 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Tgt Ion: 85 Resp: 1517665
Ion Ratio Lower Upper
85 100
87 32.9 26.7 40.1





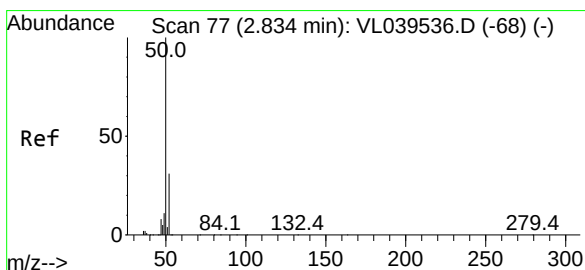
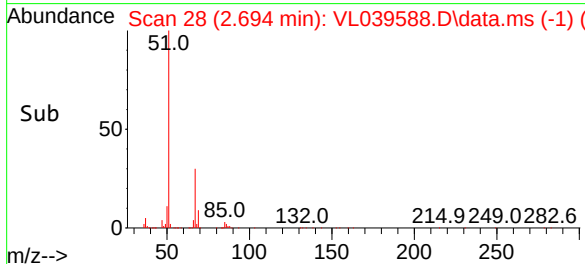
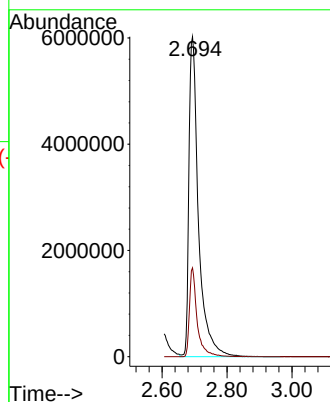
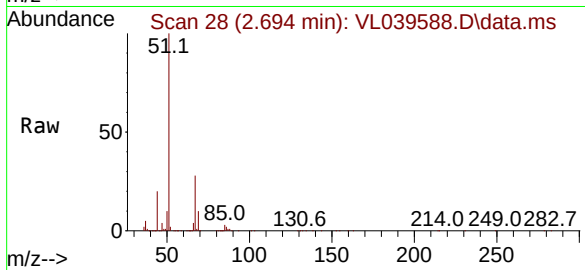
#3
Chlorodifluoromethane
Concen: 104.157 ppbv
RT: 2.694 min Scan# 21
Delta R.T. 0.001 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 51 Resp:1228416
Ion Ratio Lower Upper
51 100
67 22.3 15.7 23.5

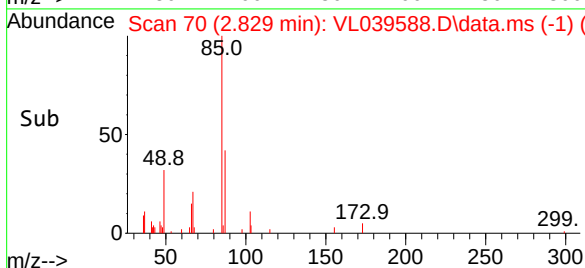
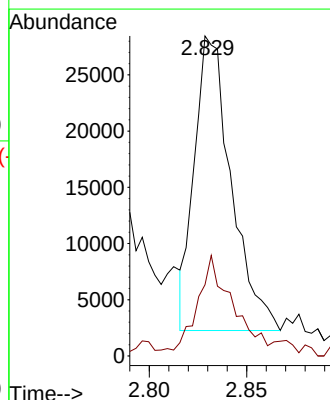
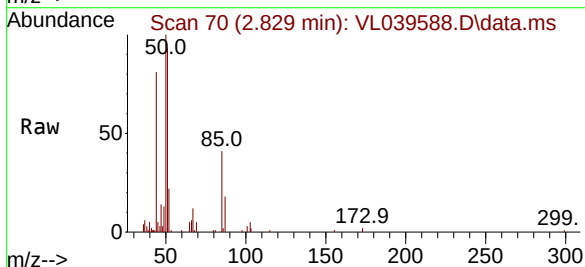
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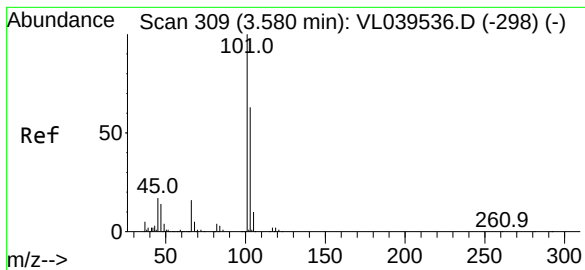
Reviewed By :Mahesh Dadoda 08/29/2022
Supervised By :Semsettin Yesilyurt 08/29/2022



#4
Chloromethane
Concen: 0.485 ppbv
RT: 2.829 min Scan# 70
Delta R.T. -0.006 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

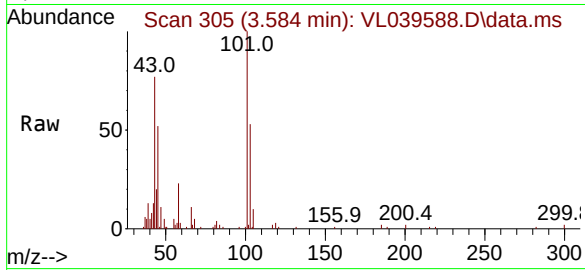
Tgt Ion: 50 Resp: 34429
Ion Ratio Lower Upper
50 100
52 19.6 26.5 39.7#





#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 3.584 min Scan# 309
Delta R.T. 0.004 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

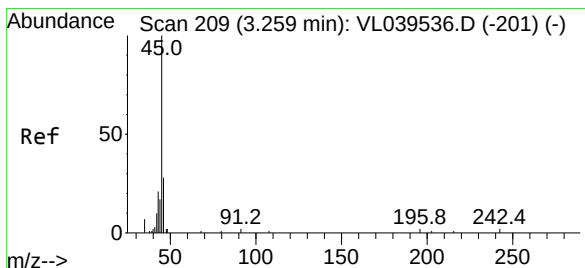
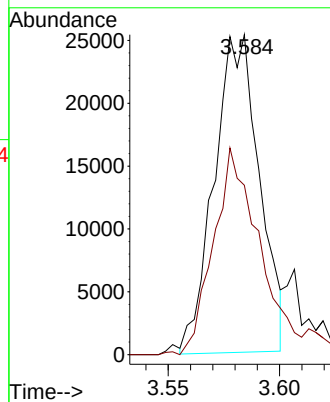
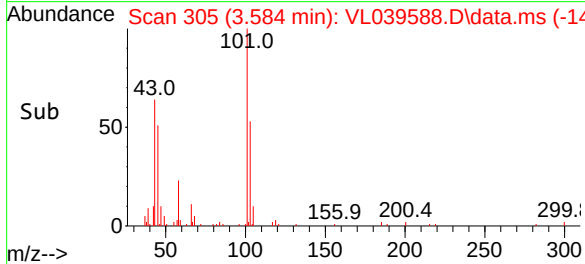
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:101 Resp: 35720
Ion Ratio Lower Upper
101 100
103 54.0 51.8 77.8

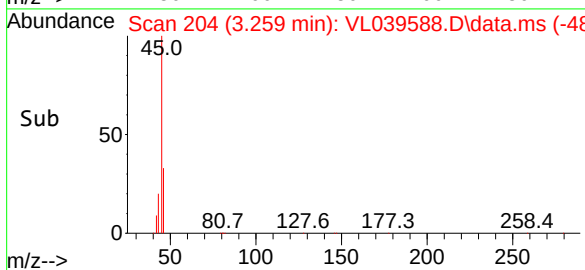
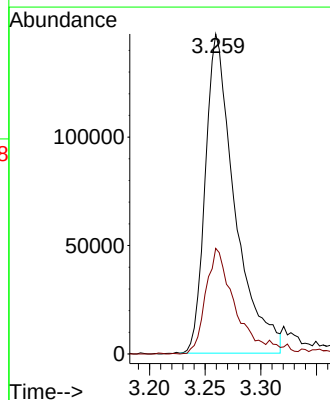
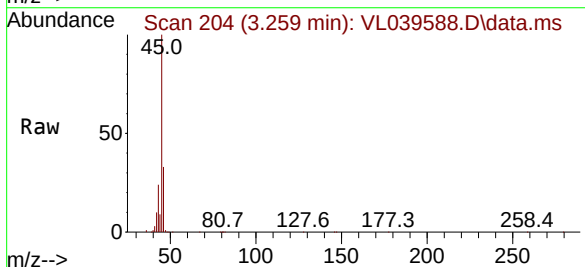
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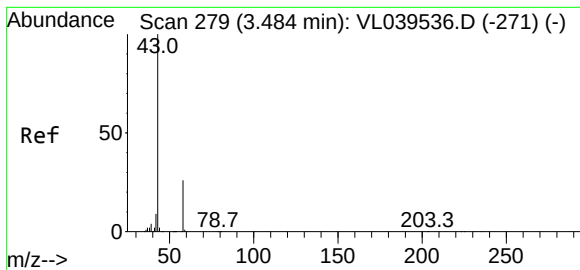
Reviewed By :Mahesh Dadoda 08/29/2022
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#13
Ethanol
Concen: 69.976 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.001 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Tgt Ion: 45 Resp: 271394
Ion Ratio Lower Upper
45 100
46 34.3 22.8 91.2





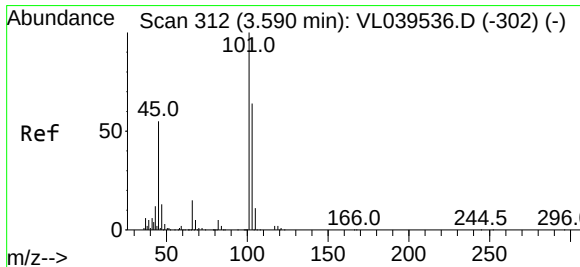
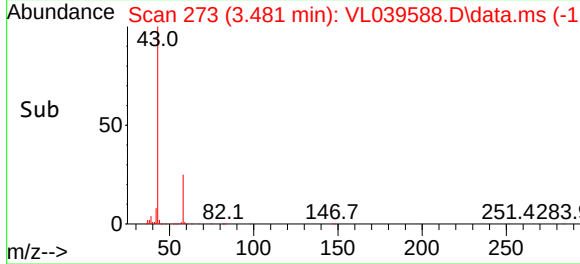
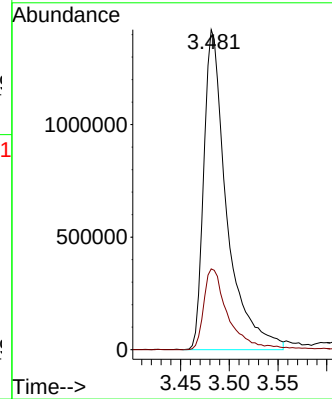
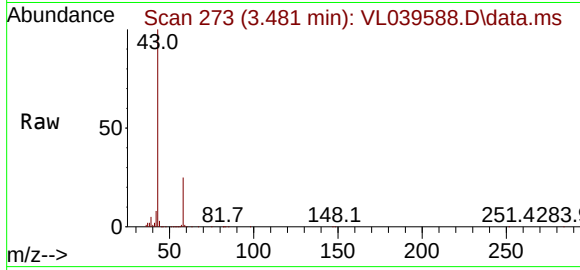
#15
Acetone
Concen: 21.064 ppbv
RT: 3.481 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 2335689
Ion Ratio Lower Upper
43 100
58 27.5 21.0 31.6

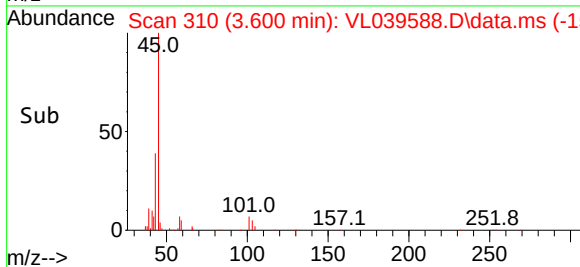
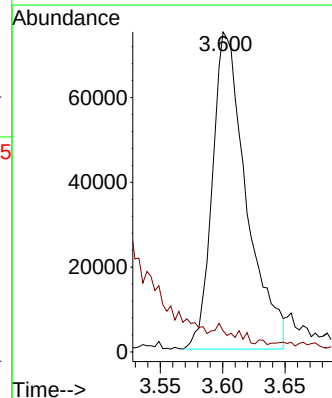
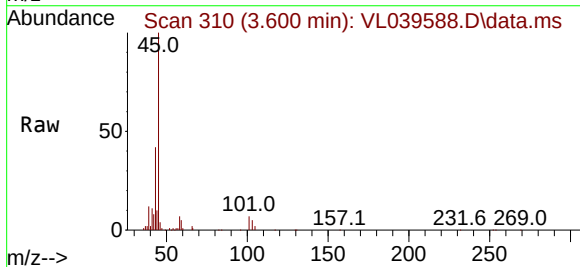
Manual Integrations
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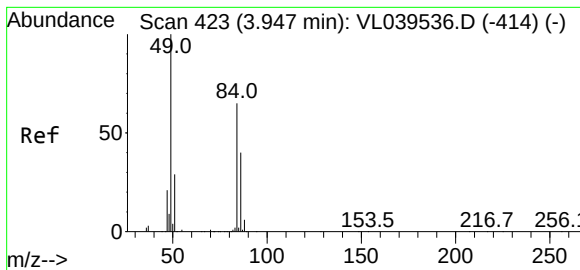
Reviewed By :Mahesh Dadoda 08/29/2022
Supervised By :Semsettin Yesilyurt 08/29/2022



#19
Isopropyl Alcohol
Concen: 2.629 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.010 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

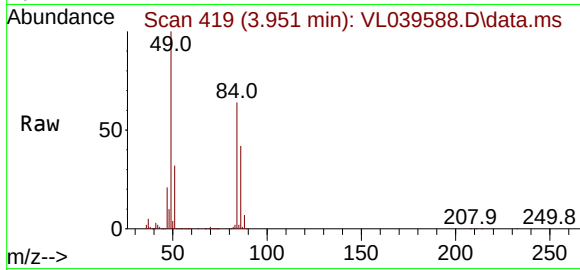
Tgt Ion: 45 Resp: 141799
Ion Ratio Lower Upper
45 100
58 453.3 3.2 4.8#





#20
Methylene Chloride
Concen: 32.756 ppbv
RT: 3.951 min Scan# 419
Delta R.T. 0.004 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

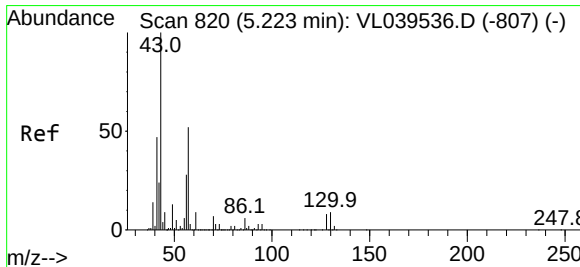
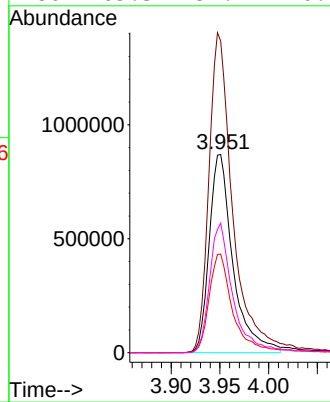
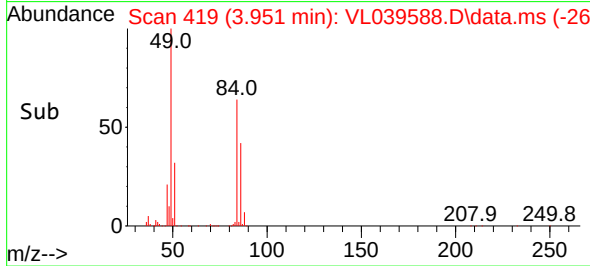


Tgt Ion: 84 Resp: 1475604

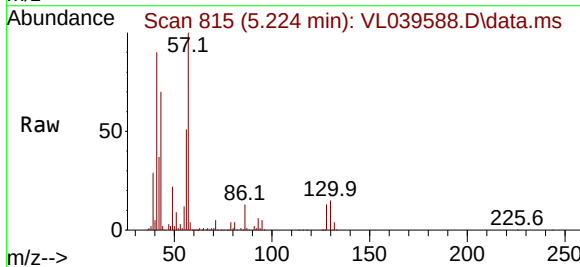
Ion	Ratio	Lower	Upper
84	100		
49	157.2	123.1	184.7
51	49.6	34.4	51.6
86	65.3	51.1	76.7

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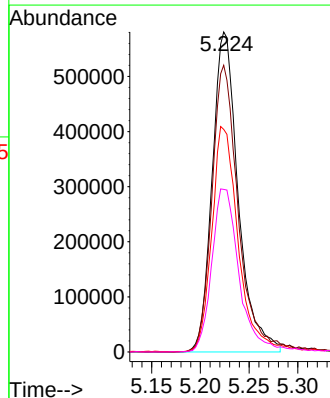
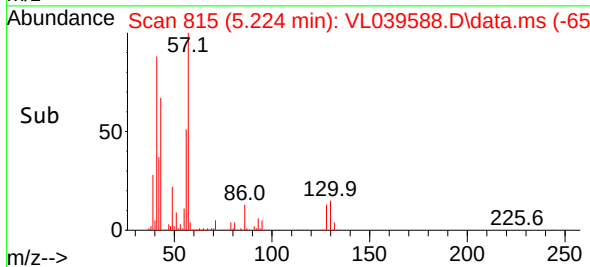


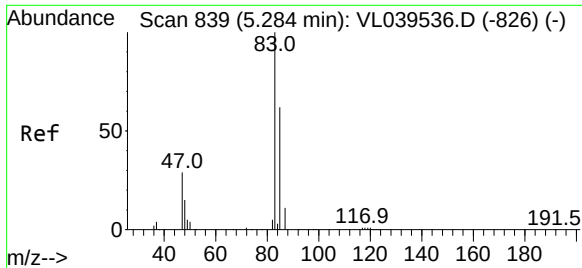
#26
Hexane
Concen: 11.147 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.001 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44



Tgt Ion: 57 Resp: 1079435

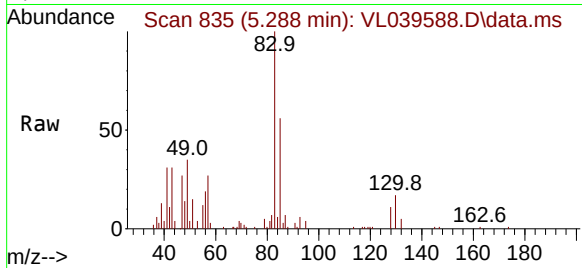
Ion	Ratio	Lower	Upper
57	100		
41	93.3	76.9	115.3
43	72.5	191.0	286.6#
56	54.6	43.2	64.8





#29
Chloroform
Concen: 0.413 ppbv m
RT: 5.288 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

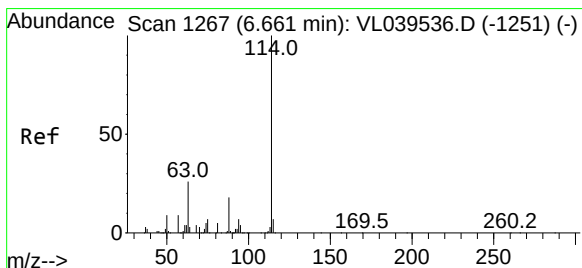
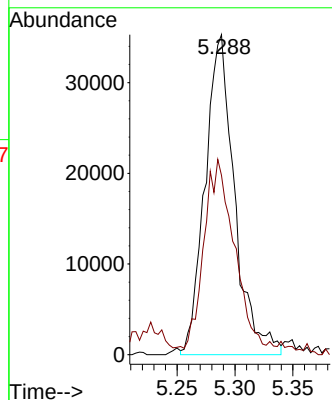
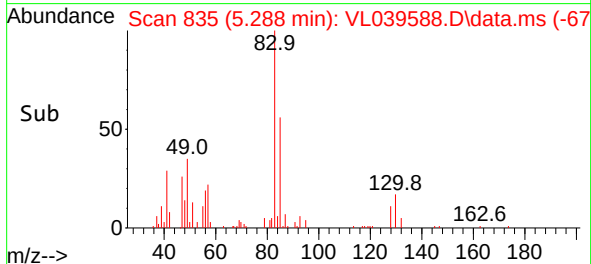
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 83 Resp: 6257
Ion Ratio Lower Upper
83 100
85 56.0 52.8 79.2

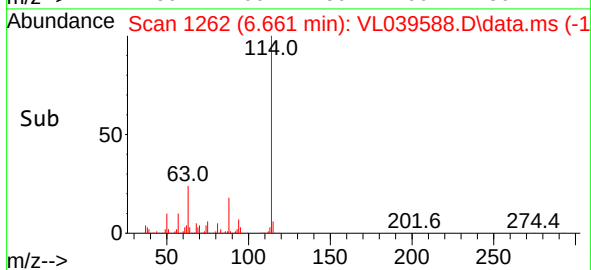
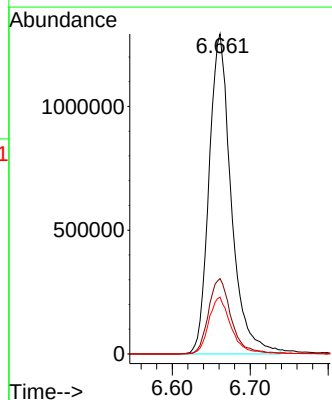
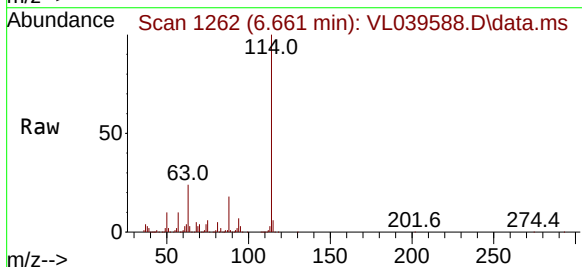
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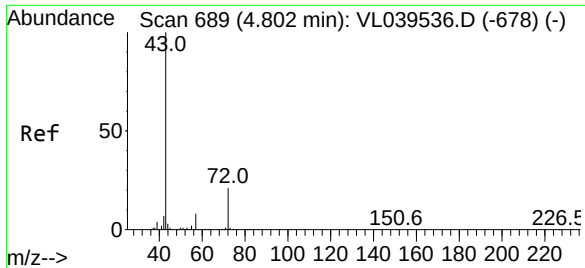
Reviewed By :Mahesh Dadoda 08/29/2022
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.001 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

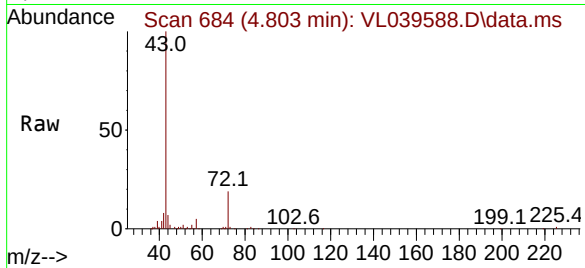
Tgt Ion:114 Resp: 2557681
Ion Ratio Lower Upper
114 100
63 24.5 20.2 30.4
88 18.1 14.5 21.7





#34
2-Butanone
Concen: 0.941 ppbv
RT: 4.803 min Scan# 61
Delta R.T. 0.001 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

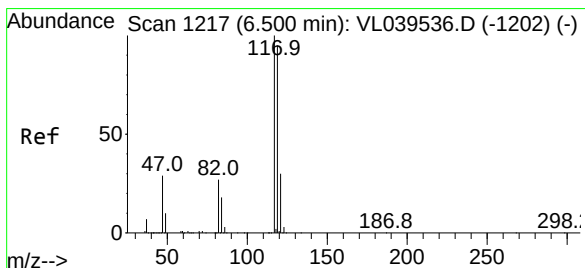
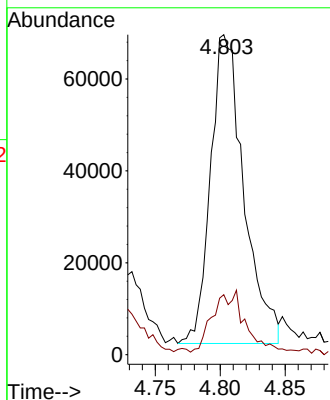
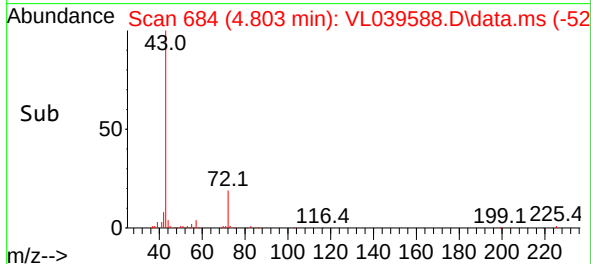
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



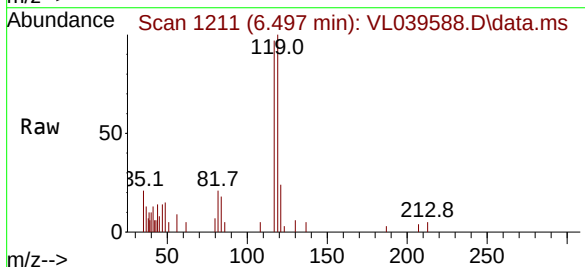
Tgt Ion: 43 Resp: 11968
Ion Ratio Lower Upper
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72 23.2 17.9 26.9

Manual Integrations
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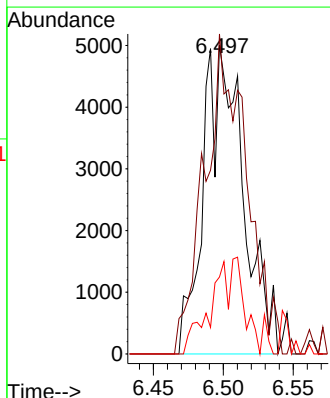
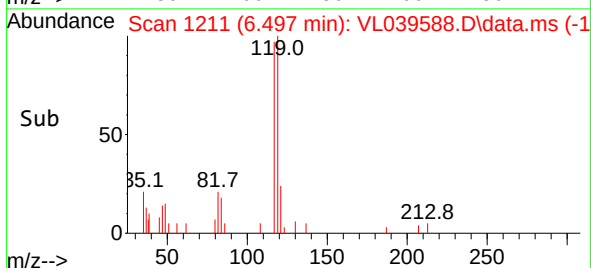
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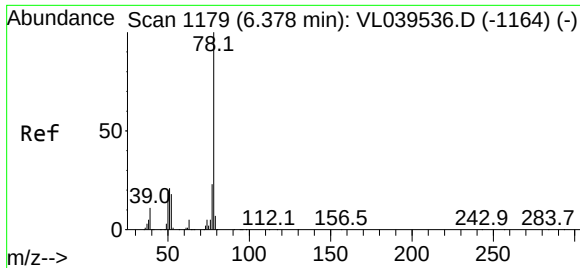


#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. -0.003 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44



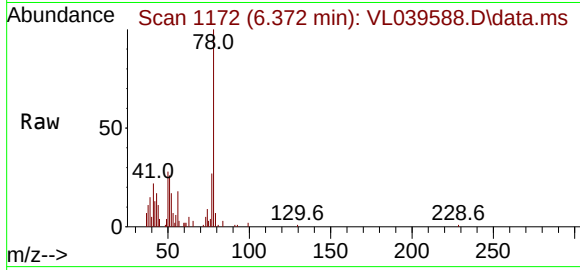
Tgt Ion:117 Resp: 10004
Ion Ratio Lower Upper
117 100
119 103.6 75.4 113.2
121 24.9 24.2 36.2





#36
Benzene
Concen: 0.126 ppbv m
RT: 6.372 min Scan# 1179
Delta R.T. -0.006 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Instrument : MSVOA_L
ClientSampleId : IA1DUP

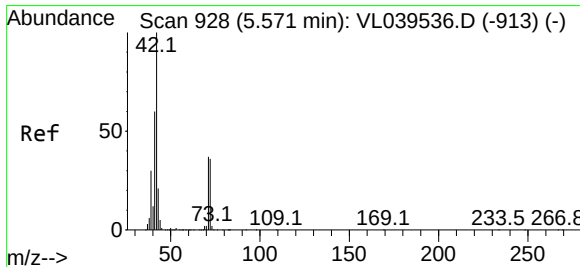
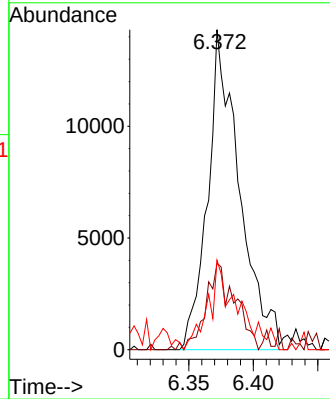
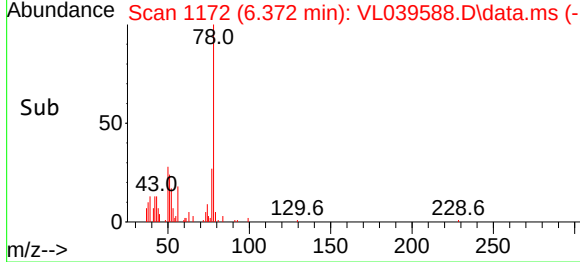


Tgt Ion: 78 Resp: 2454

Ion	Ratio	Lower	Upper
78	100		
77	27.0	20.3	30.5
50	28.0	15.5	23.3

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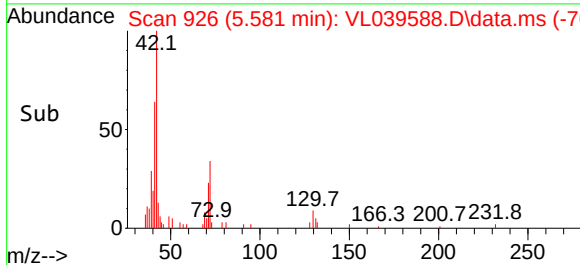
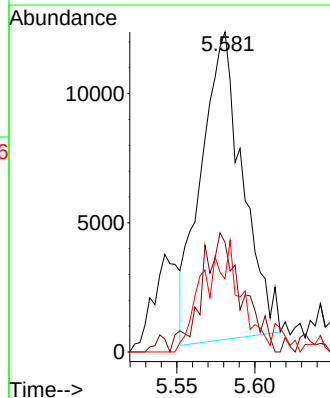
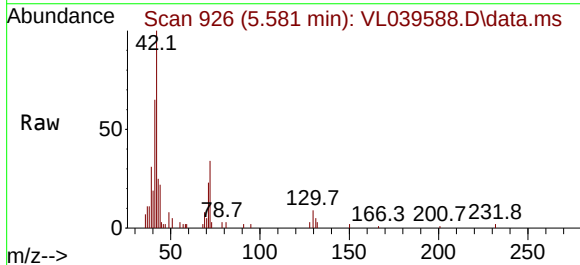
Reviewed By :Mahesh Dadoda 08/29/2022
Supervised By :Semsettin Yesilyurt 08/29/2022

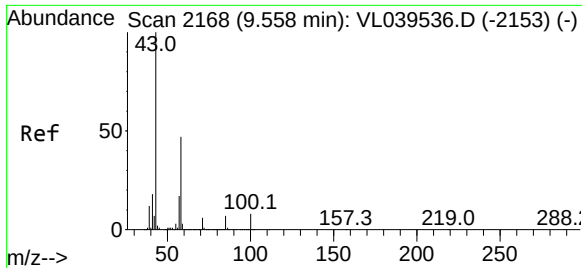


#41
Tetrahydrofuran
Concen: 0.291 ppbv
RT: 5.581 min Scan# 926
Delta R.T. 0.010 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Tgt Ion: 42 Resp: 22085

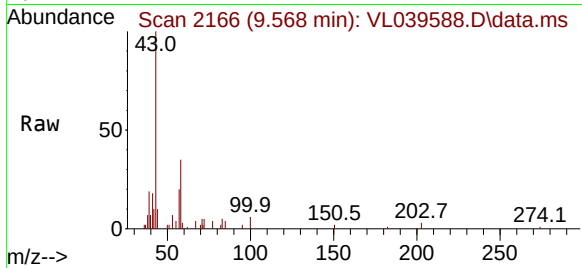
Ion	Ratio	Lower	Upper
42	100		
72	41.6	31.8	47.8
71	37.1	31.8	47.8





#51
2-Hexanone
Concen: 0.174 ppbv m
RT: 9.568 min Scan# 2168
Delta R.T. 0.010 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

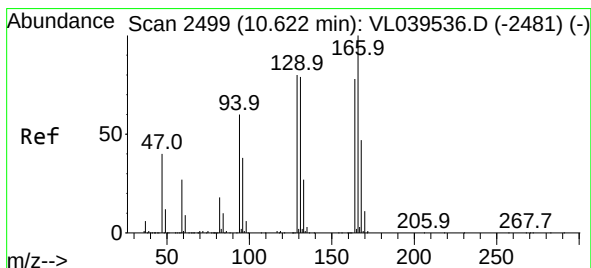
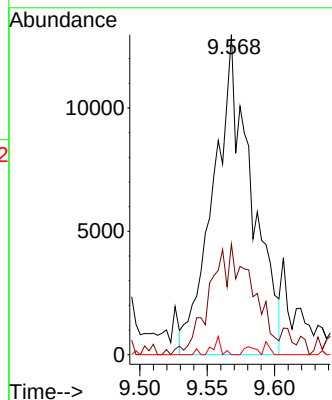
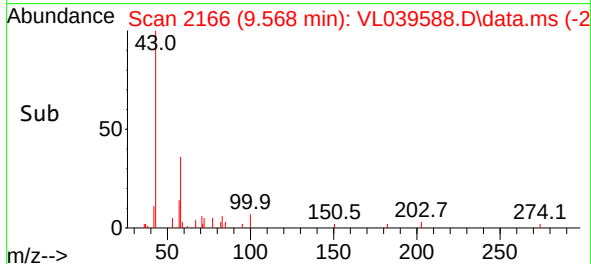
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 2535
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6
98 1.3 0.3 0.5

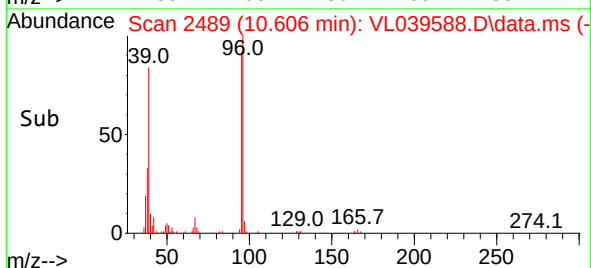
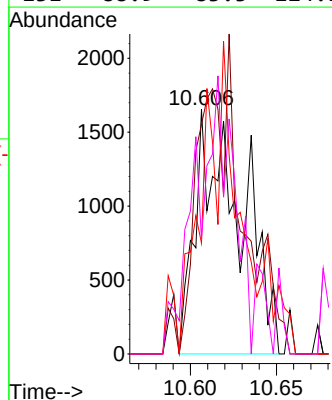
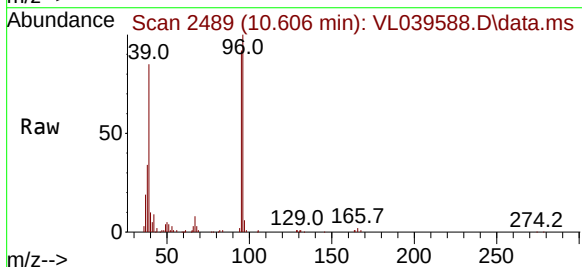
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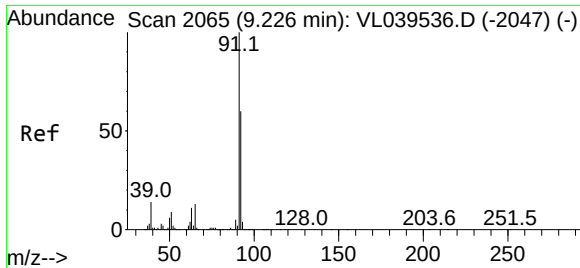
Reviewed By :Mahesh Dadoda 08/29/2022
Supervised By :Semsettin Yesilyurt 08/29/2022



#52
Tetrachloroethene
Concen: 0.041 ppbv m
RT: 10.606 min Scan# 2489
Delta R.T. -0.015 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

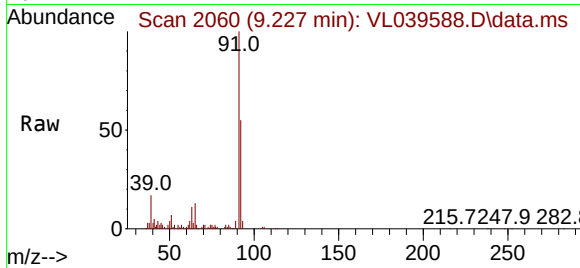
Tgt Ion:164 Resp: 3000
Ion Ratio Lower Upper
164 100
166 177.8 102.2 153.2#
129 85.9 85.8 128.8
131 88.9 83.3 124.9





#53
Toluene
Concen: 0.642 ppbv m
RT: 9.227 min Scan# 2065
Delta R.T. 0.001 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

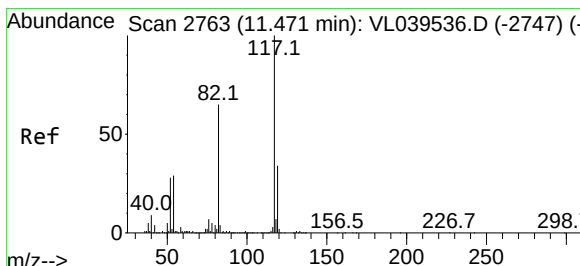
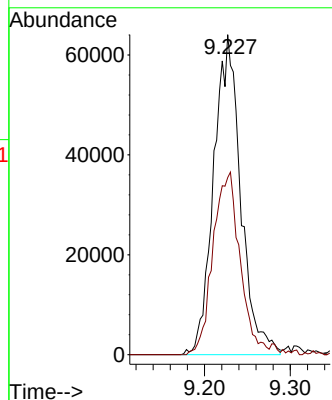
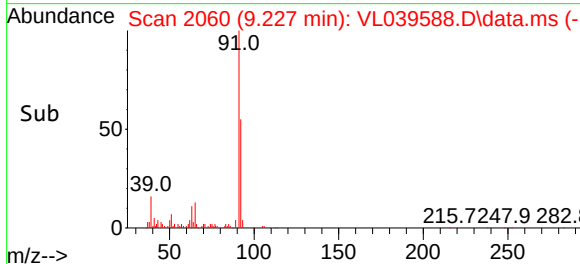
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 91 Resp: 140082
Ion Ratio Lower Upper
91 100
92 58.2 48.2 72.2

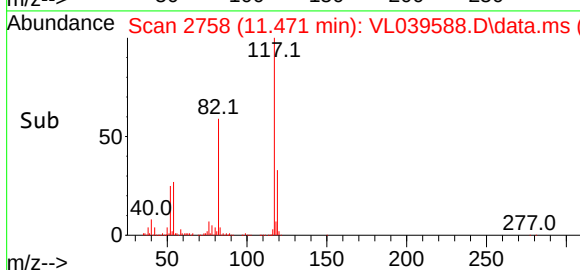
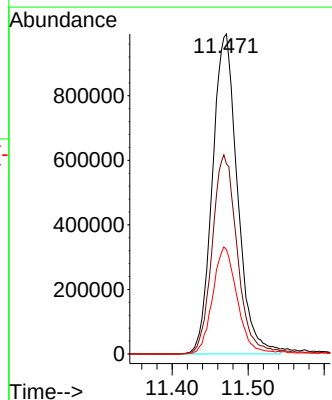
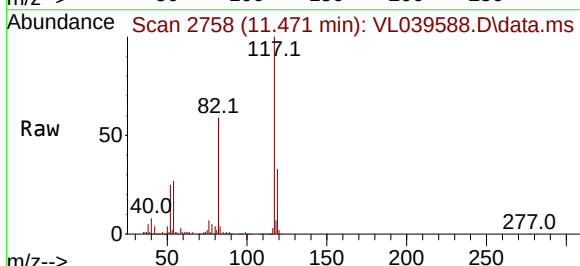
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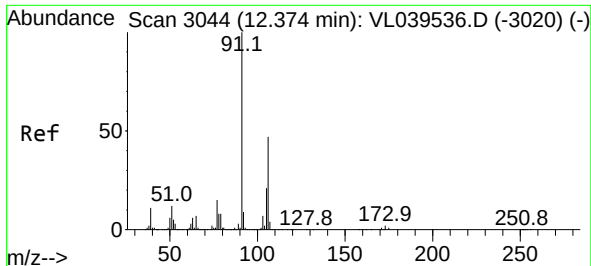
Reviewed By :Mahesh Dadoda 08/29/2022
Supervised By :Semsettin Yesilyurt 08/29/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. 0.001 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Tgt Ion:117 Resp: 2266709
Ion Ratio Lower Upper
117 100
82 63.2 50.8 76.2
119 33.3 24.1 36.1





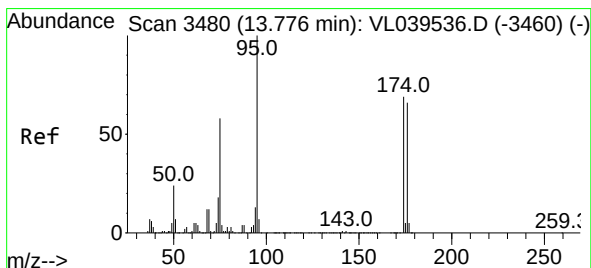
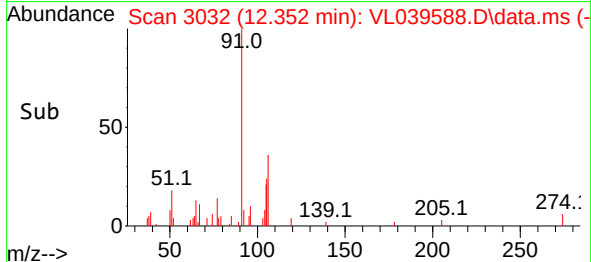
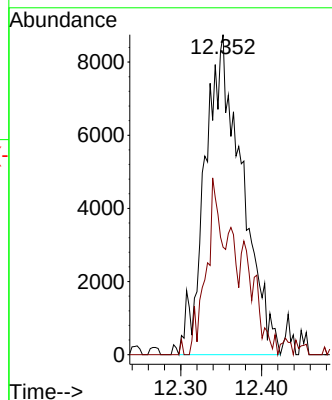
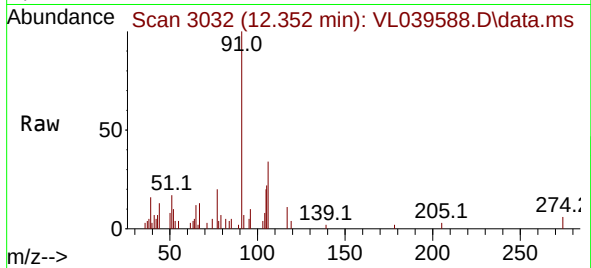
#59
m/p-Xylene
Concen: 0.119 ppbv m
RT: 12.352 min Scan# 3044
Delta R.T. -0.022 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 27724
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/29/2022
Supervised By :Semsettin Yesilyurt 08/29/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.793 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.001 min
Lab File: VL039588.D
Acq: 25 Aug 2022 21:44

Tgt Ion: 95 Resp: 1674597
Ion Ratio Lower Upper
95 100
174 72.1 55.9 83.9
175 5.4 4.2 6.4

