

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030922\
 Data File : VL038585.D
 Acq On : 9 Mar 2022 20:55
 Operator : SY/AP
 Sample : N1702-03DL2 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL2

Quant Time: Mar 10 00:35:26 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Mar 08 21:18:44 2022
 QLast Update : Tue Mar 08 21:18:44 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	847435	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2056892	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1846371	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1344807	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

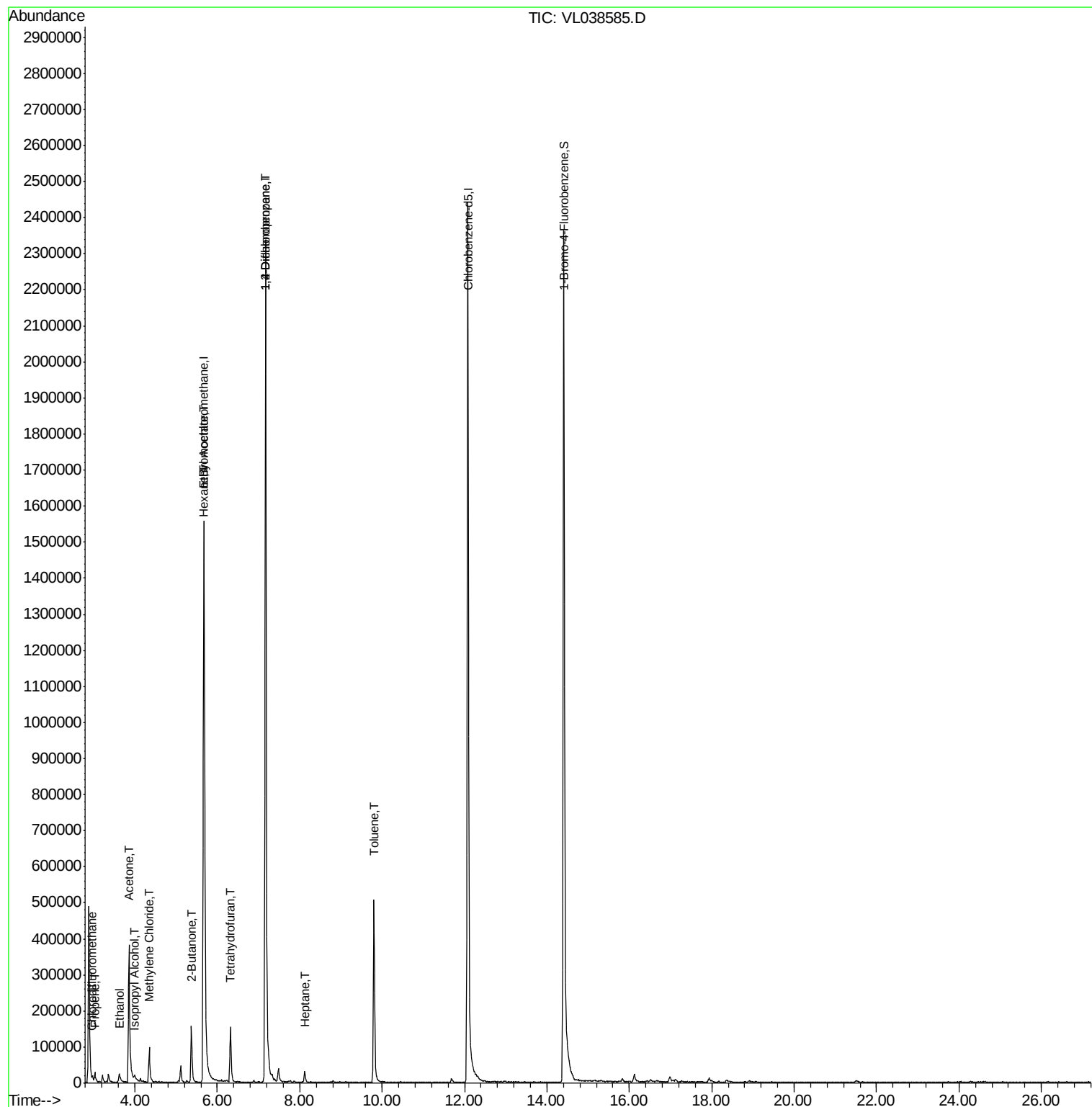
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.96	51	14060	0.09	ppbv #	62
9) Propene	3.02	41	7015	0.13	ppbv	96
10) Heptane	8.12	43	9792	0.08	ppbv #	79
13) Ethanol	3.61	45	11094	1.83	ppbv #	34
15) Acetone	3.85	43	555538	9.29	ppbv	98
19) Isopropyl Alcohol	4.00	45	12634	0.32	ppbv #	92
20) Methylene Chloride	4.35	84	40922	1.14	ppbv	95
25) Ethyl Acetate	5.68	43	209581	1.04	ppbv #	77
26) Hexane	5.69	57	294231	3.11	ppbv #	43
34) 2-Butanone	5.37	43	17767	0.33	ppbv #	60
39) 1,2-Dichloropropane	7.17	63	487375	6.83	ppbv #	27
41) Tetrahydrofuran	6.32	42	15186	0.35	ppbv #	37
53) Toluene	9.80	91	431069	2.18	ppbv	100

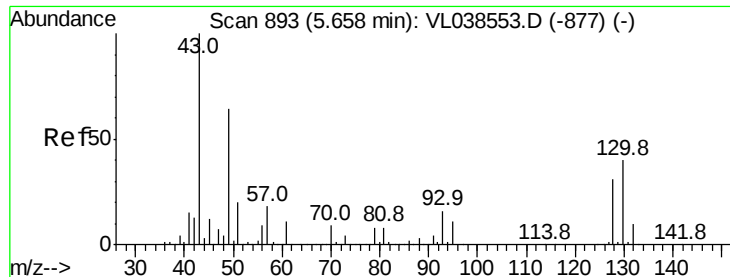
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 10 00:35:26 2022
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 08 21:18:44 2022
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 9 Mar 2022 20:55

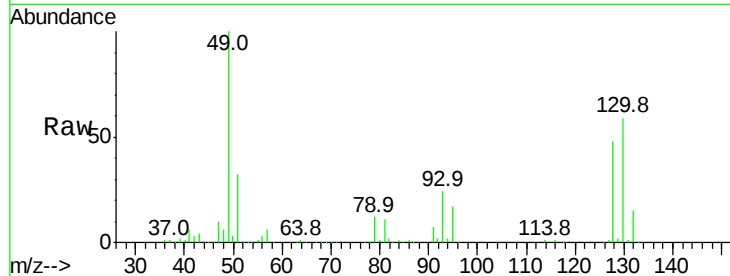
Tgt Ion: 49 Resp: 847435

Ion Ratio Lower Upper

49 100

128 50.7 26.4 79.2

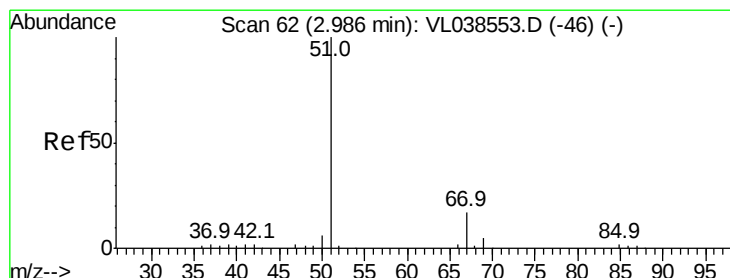
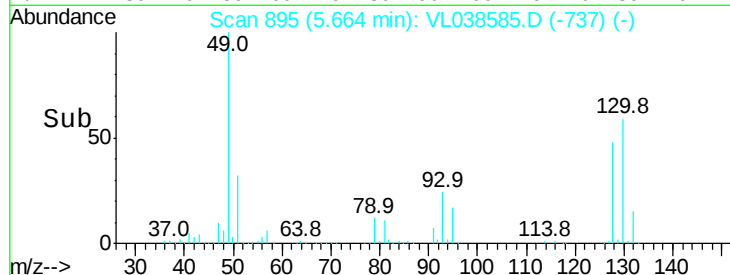
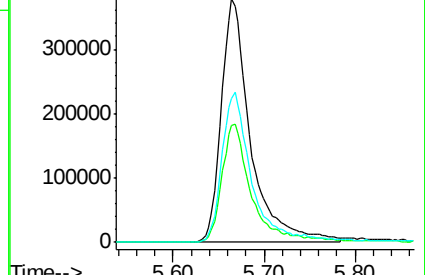
130 64.7 33.0 98.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.09 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL038585.D

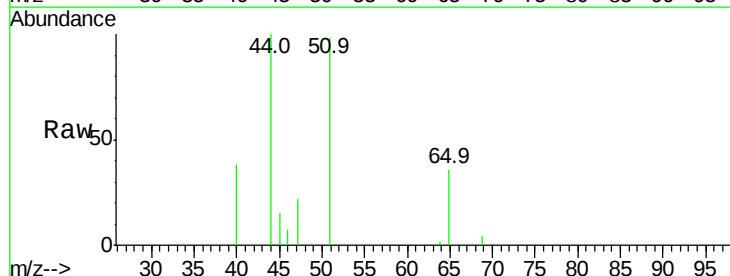
Acq: 9 Mar 2022 20:55

Tgt Ion: 51 Resp: 14060

Ion Ratio Lower Upper

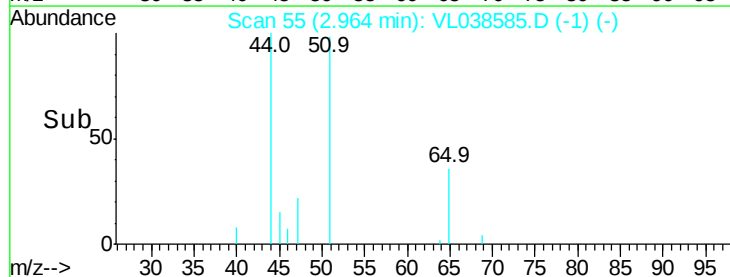
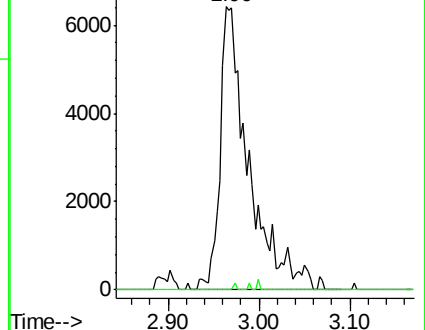
51 100

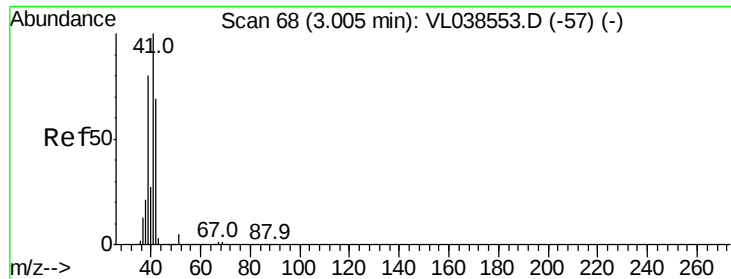
67 0.4 13.6 20.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.13 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

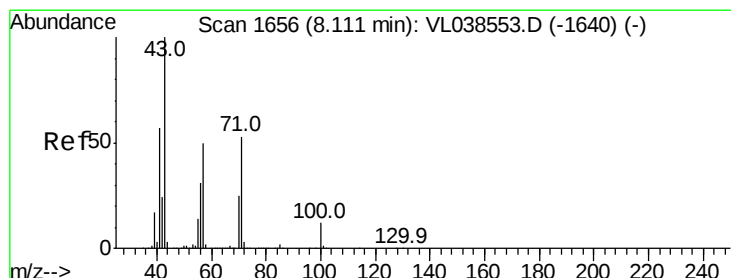
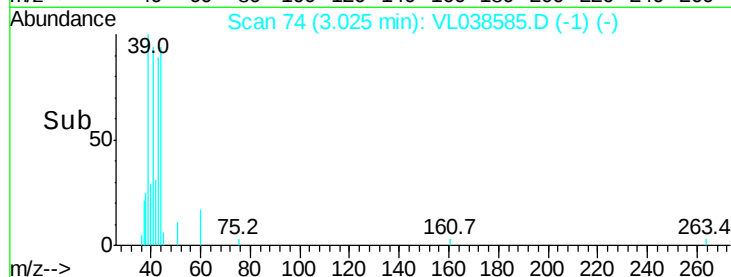
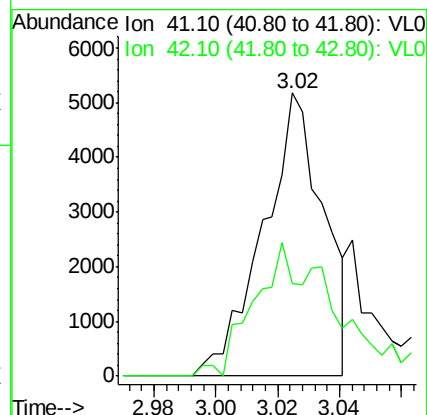
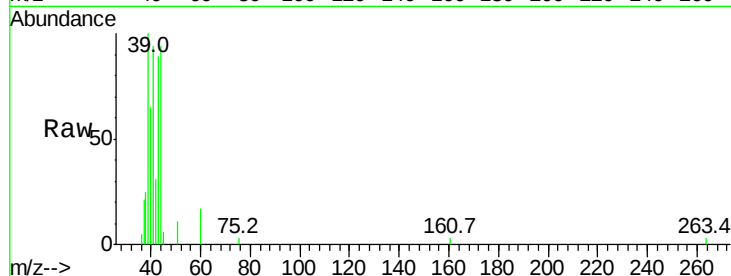
Acq: 9 Mar 2022 20:55

Tgt Ion: 41 Resp: 7015

Ion Ratio Lower Upper

41 100

42 66.1 55.7 83.5



#10

Heptane

Concen: 0.08 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. 0.01 min

Lab File: VL038585.D

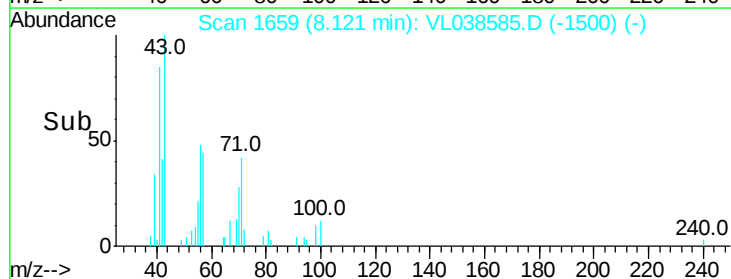
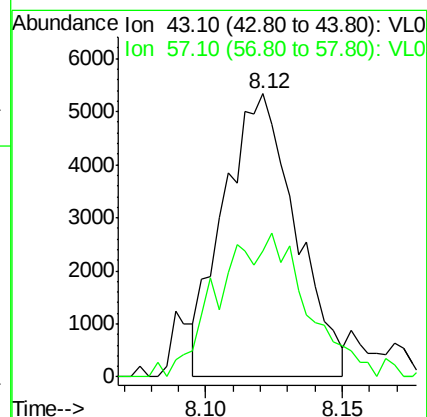
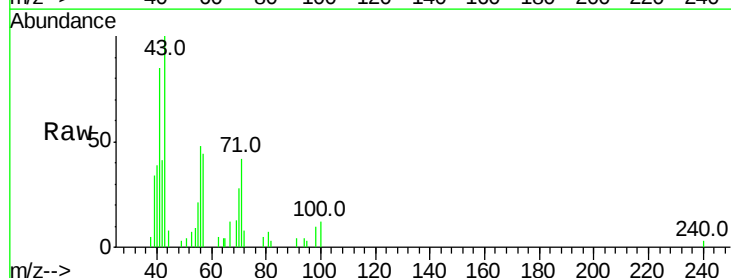
Acq: 9 Mar 2022 20:55

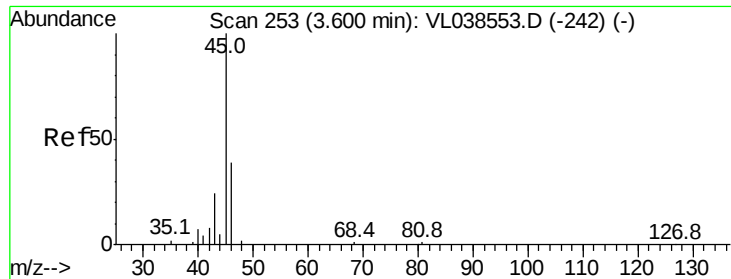
Tgt Ion: 43 Resp: 9792

Ion Ratio Lower Upper

43 100

57 63.7 39.6 59.4#





#13

Ethanol

Concen: 1.83 ppbv

RT: 3.61 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: LA-1DL2

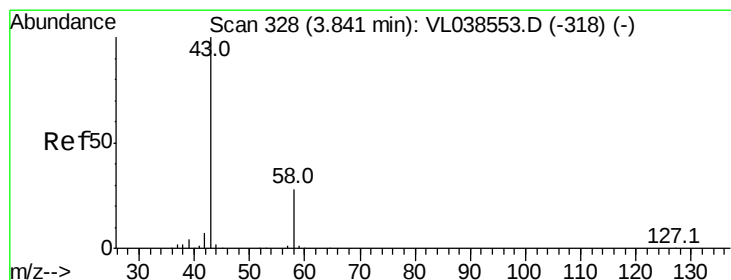
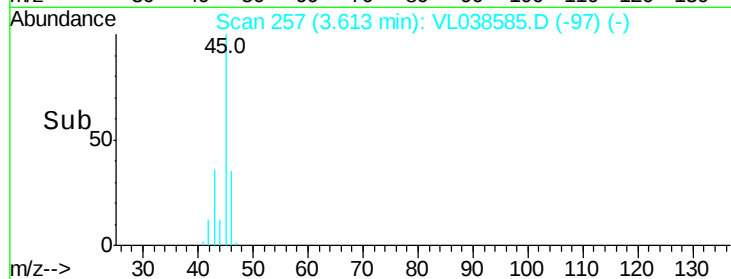
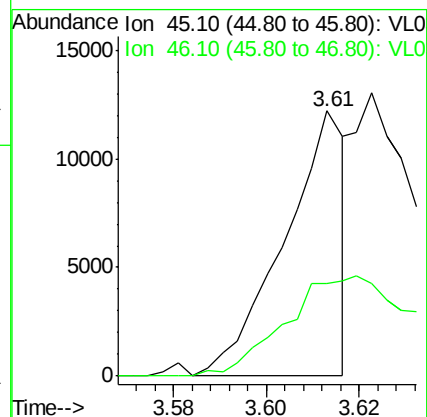
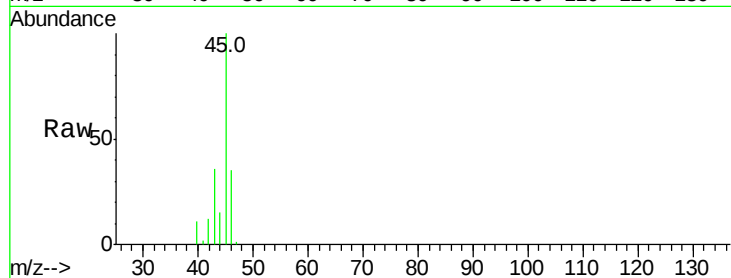
Acq: 9 Mar 2022 20:55

Tgt Ion: 45 Resp: 11094

Ion Ratio Lower Upper

45 100

46 0.0 16.8 67.0#



#15

Acetone

Concen: 9.29 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL038585.D

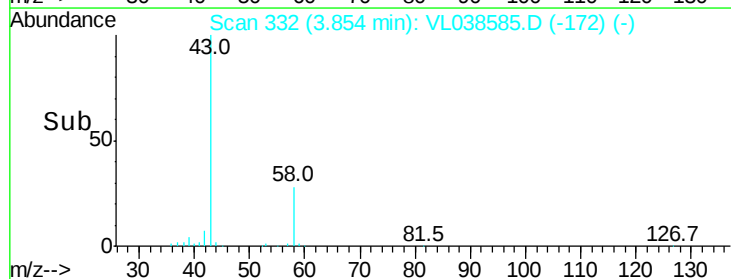
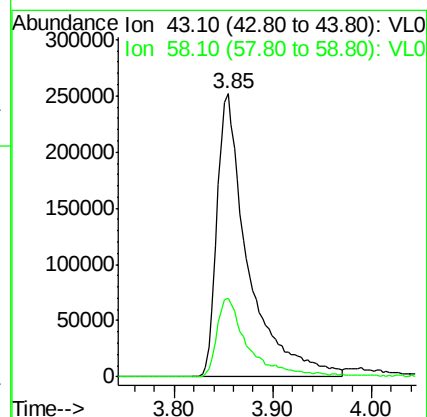
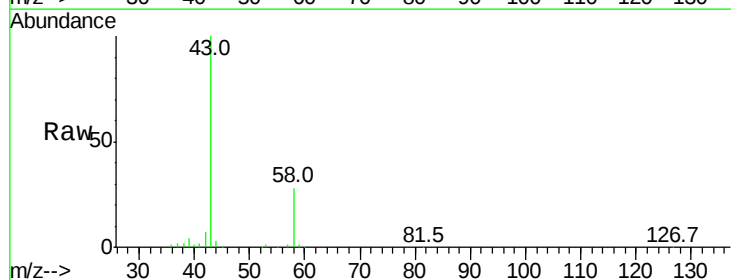
Acq: 9 Mar 2022 20:55

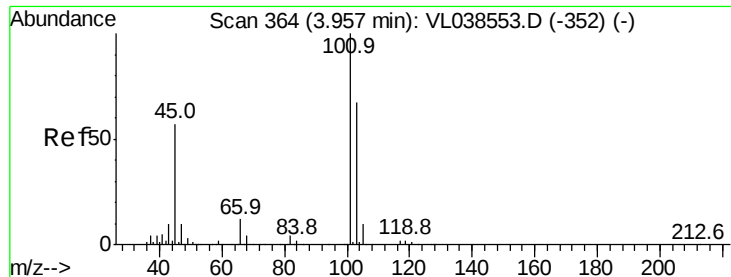
Tgt Ion: 43 Resp: 555538

Ion Ratio Lower Upper

43 100

58 29.4 22.7 34.1





#19

Isopropyl Alcohol

Concen: 0.32 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

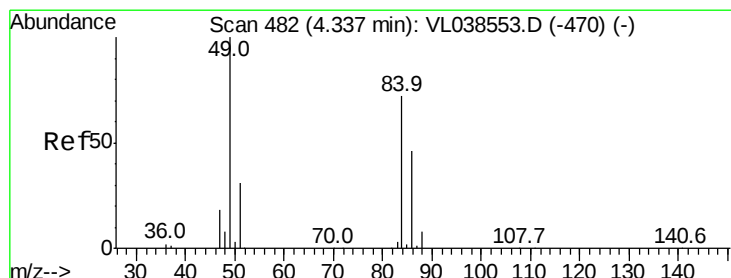
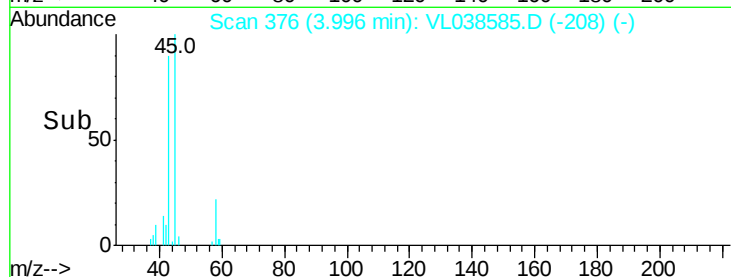
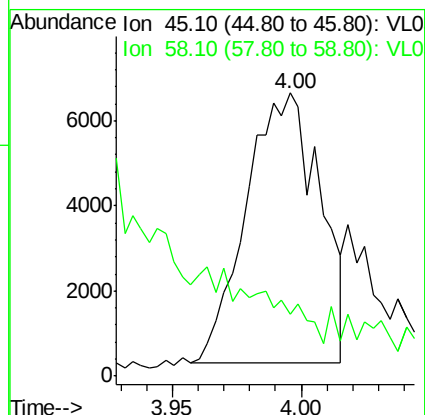
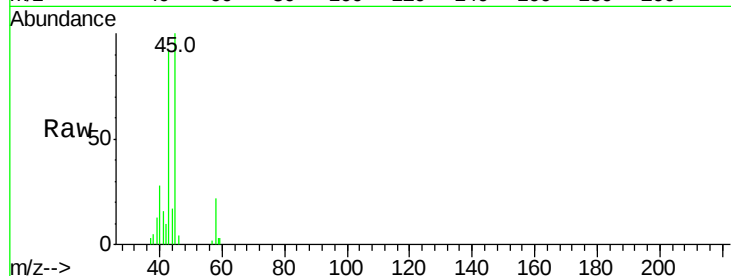
Acq: 9 Mar 2022 20:55

Tgt Ion: 45 Resp: 12634

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.2#



#20

Methylene Chloride

Concen: 1.14 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL038585.D

Acq: 9 Mar 2022 20:55

Tgt Ion: 84 Resp: 40922

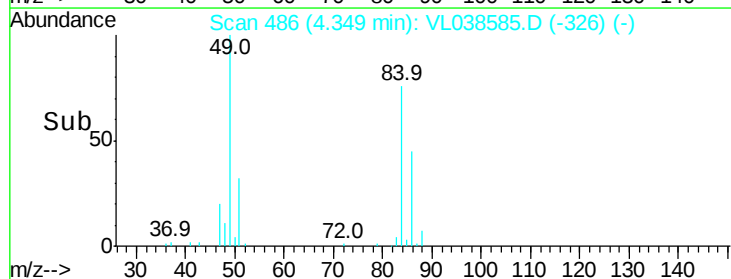
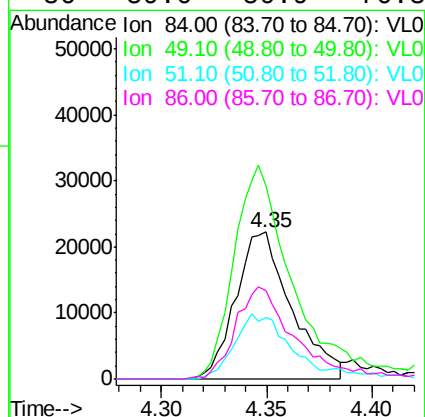
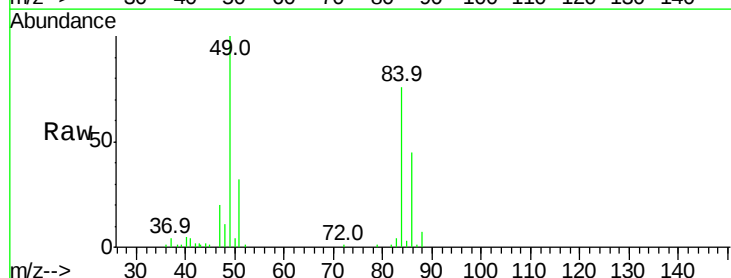
Ion Ratio Lower Upper

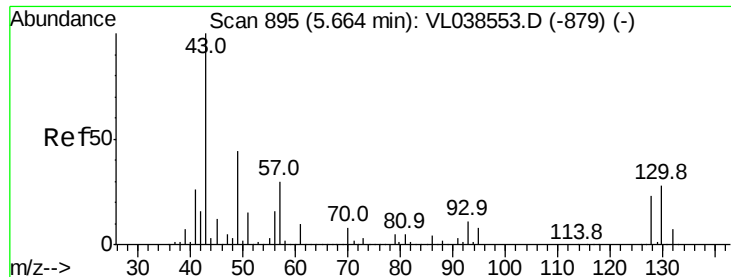
84 100

49 131.7 111.1 166.7

51 42.1 34.0 51.0

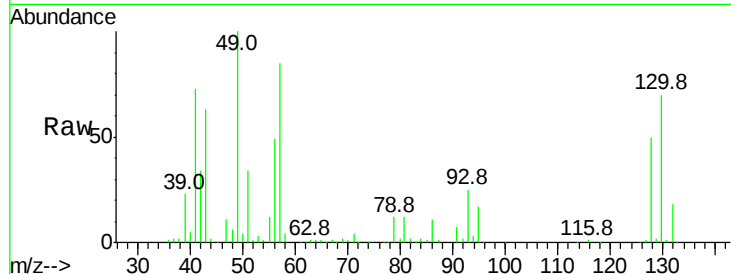
86 59.0 50.9 76.3





#25
Ethyl Acetate
Concen: 1.04 ppbv
RT: 5.68 min
Delta R.T.: 0.01 min
Lab File: VL038553.D
Acq: 9 Mar 2022 20:55

Tgt Ion:	43	Resp:	209581
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.0	12.0#
61	0.3	8.2	12.4#
70	1.5	5.4	8.2#



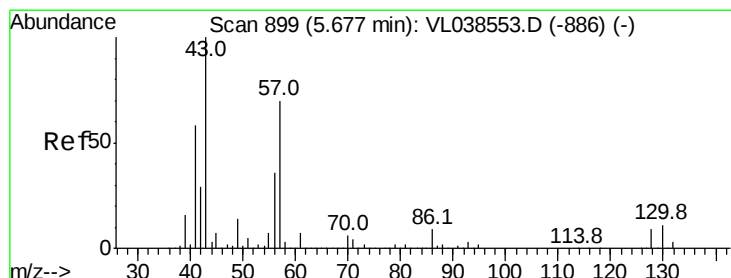
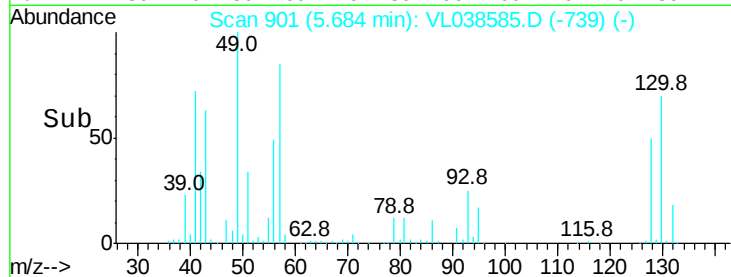
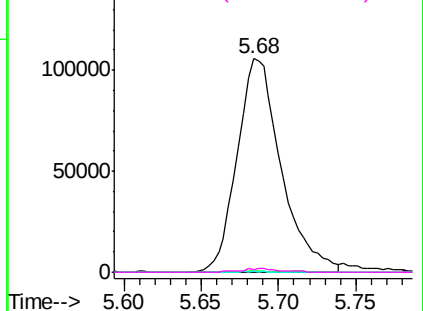
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

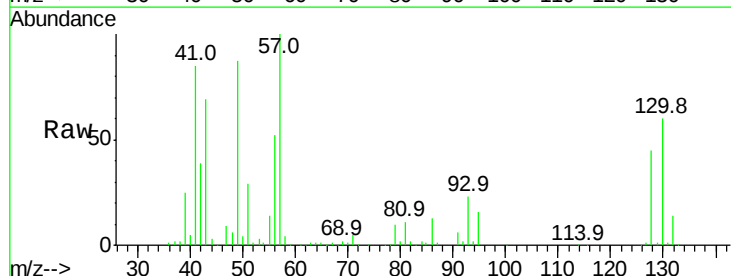
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 3.11 ppbv
RT: 5.69 min Scan# 902
Delta R.T.: 0.01 min
Lab File: VL038585.D
Acq: 9 Mar 2022 20:55

Tgt Ion:	57	Resp:	294231
Ion	Ratio	Lower	Upper
57	100		
41	88.8	67.8	101.6
43	73.8	173.6	260.4#
56	55.3	42.2	63.2



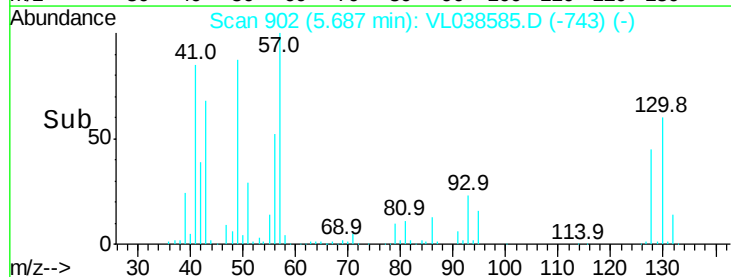
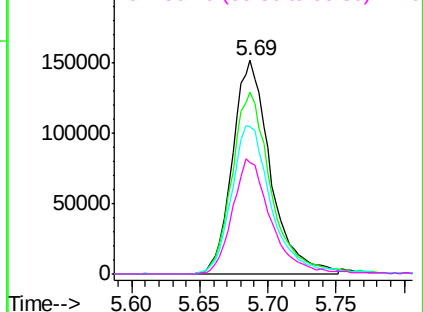
Abundance

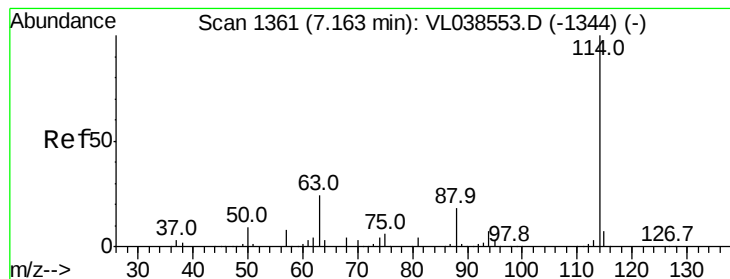
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 9 Mar 2022 20:55

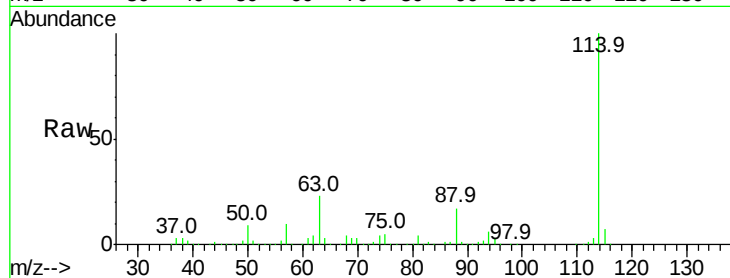
Tgt Ion: 114 Resp: 2056892

Ion Ratio Lower Upper

114 100

63 24.2 19.6 29.4

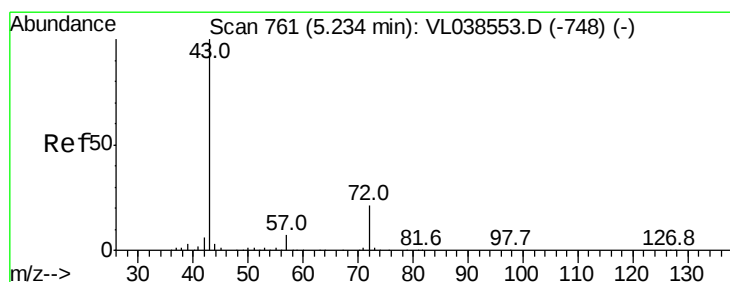
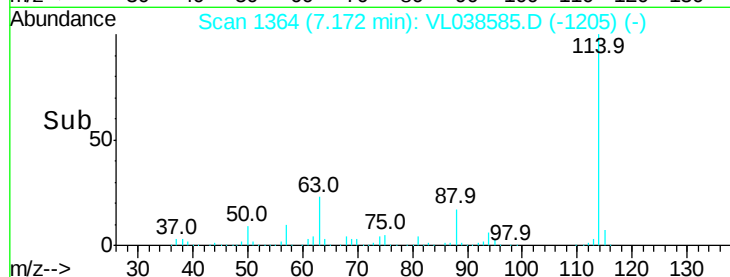
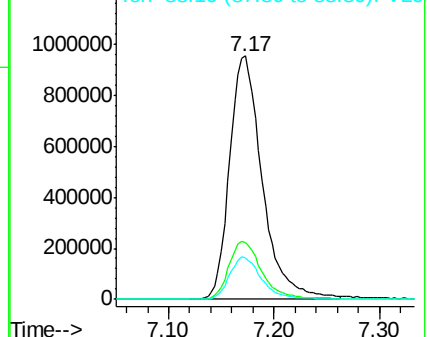
88 17.5 13.9 20.9



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.33 ppbv

RT: 5.37 min Scan# 804

Delta R.T. 0.14 min

Lab File: VL038585.D

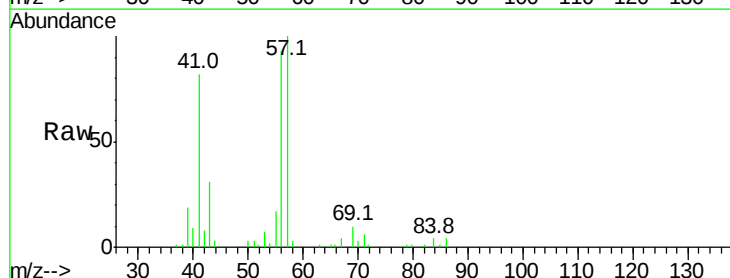
Acq: 9 Mar 2022 20:55

Tgt Ion: 43 Resp: 17767

Ion Ratio Lower Upper

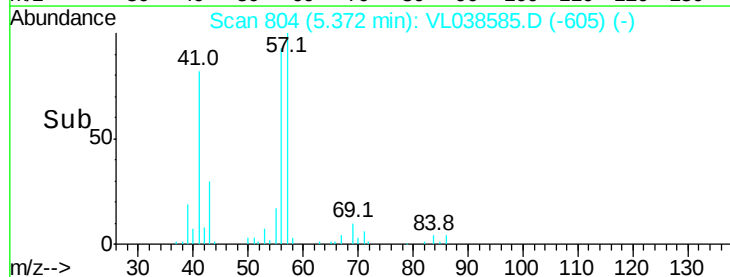
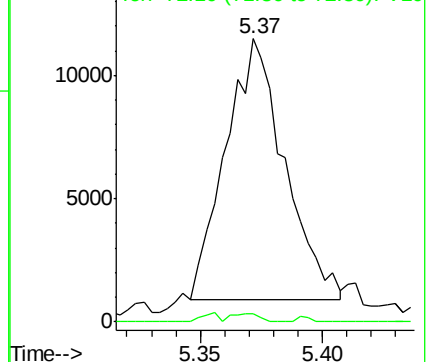
43 100

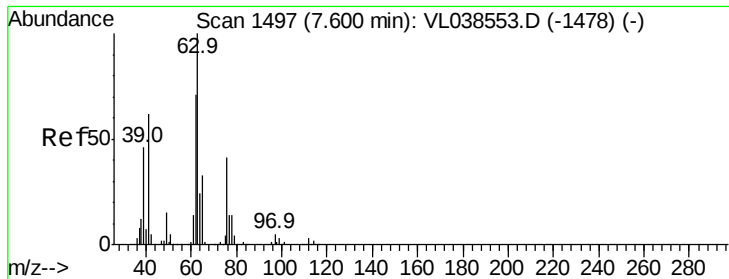
72 2.9 17.8 26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

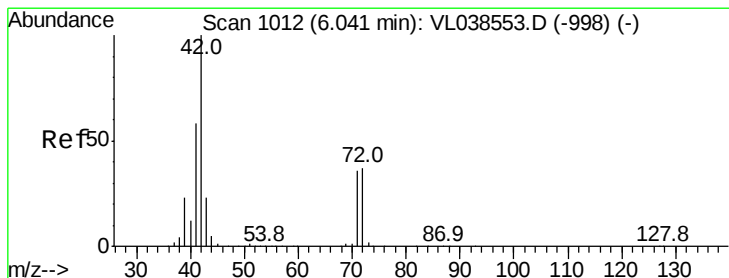
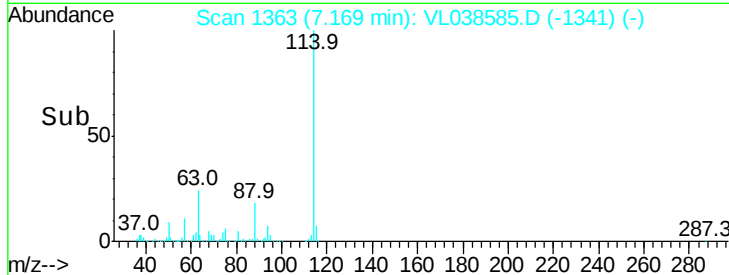
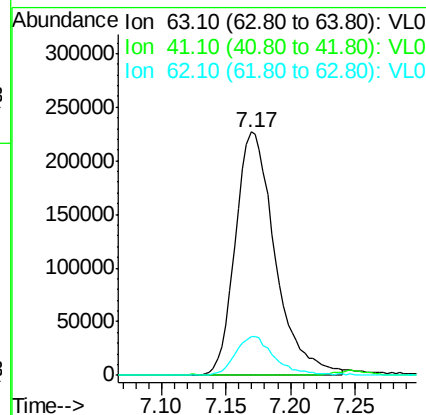
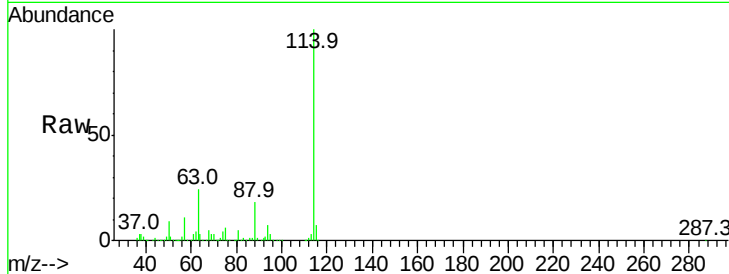
Ion 72.10 (71.80 to 72.80): VL0





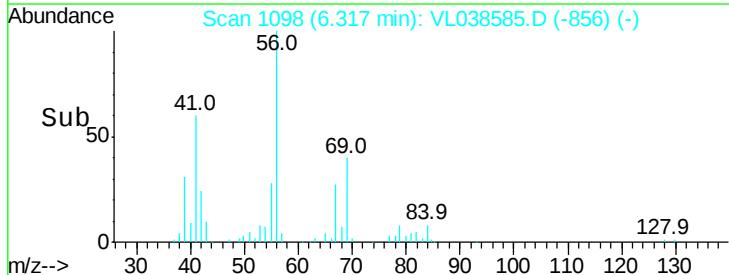
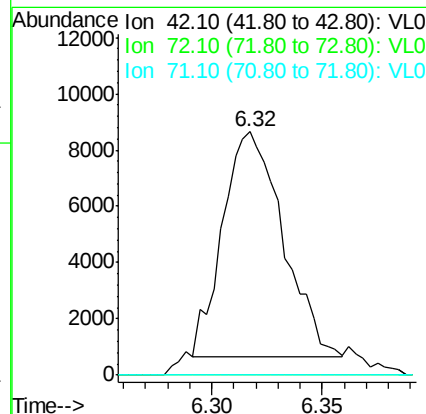
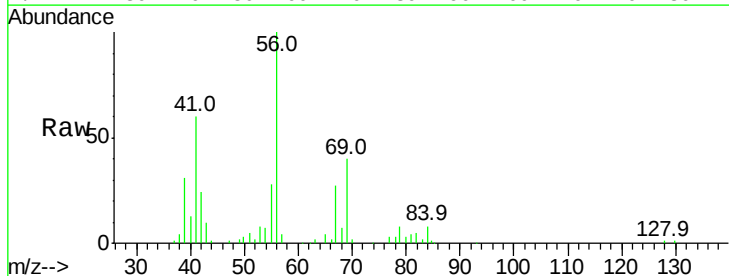
#39
 1,2-Dichloropropane
 Concen: 6.83 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 9 Mar 2022 20:55

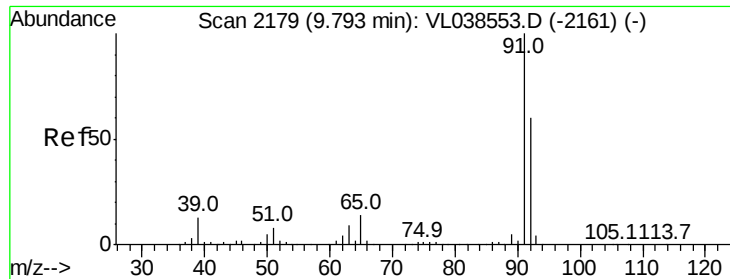
Tgt Ion: 63 Resp: 487375
 Ion Ratio Lower Upper
 63 100
 41 0.0 49.8 74.6#
 62 16.1 56.7 85.1#



#41
 Tetrahydrofuran
 Concen: 0.35 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. 0.28 min
 Lab File: VL038585.D
 Acq: 9 Mar 2022 20:55

Tgt Ion: 42 Resp: 15186
 Ion Ratio Lower Upper
 42 100
 72 0.0 30.9 46.3#
 71 0.0 29.1 43.7#





#53

Toluene

Concen: 2.18 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

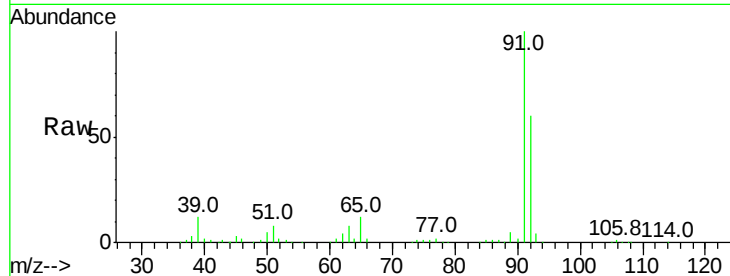
Acq: 9 Mar 2022 20:55

Tgt Ion: 91 Resp: 431069

Ion Ratio Lower Upper

91 100

92 60.0 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.80

200000

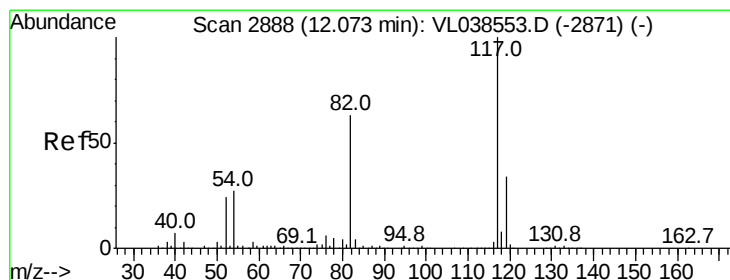
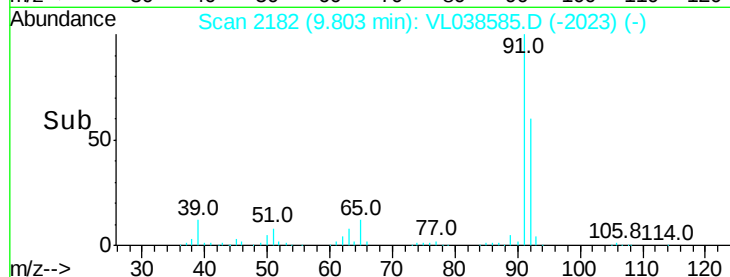
150000

100000

50000

0

Time--> 9.70 9.75 9.80 9.85



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. 0.01 min

Lab File: VL038585.D

Acq: 9 Mar 2022 20:55

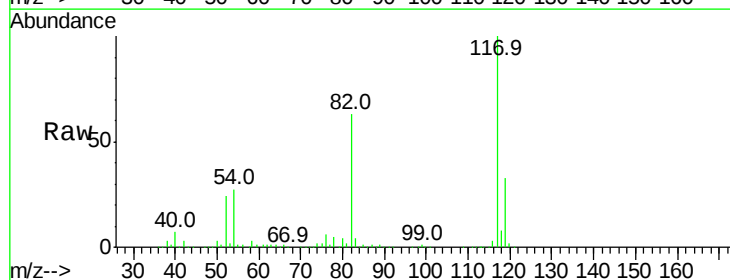
Tgt Ion: 117 Resp: 1846371

Ion Ratio Lower Upper

117 100

82 65.2 52.5 78.7

119 33.5 46.4 69.6#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1000000

800000

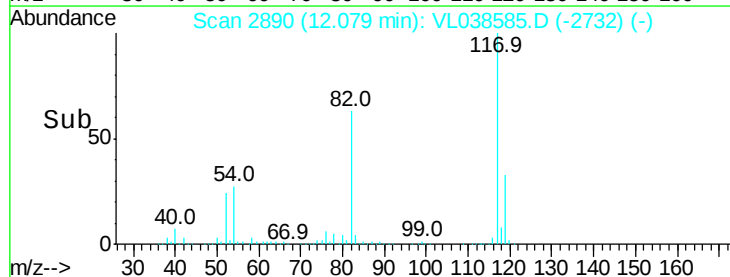
600000

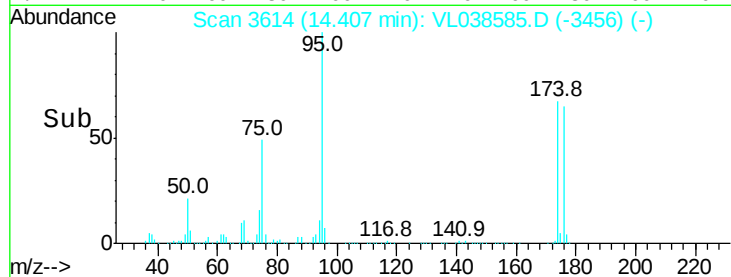
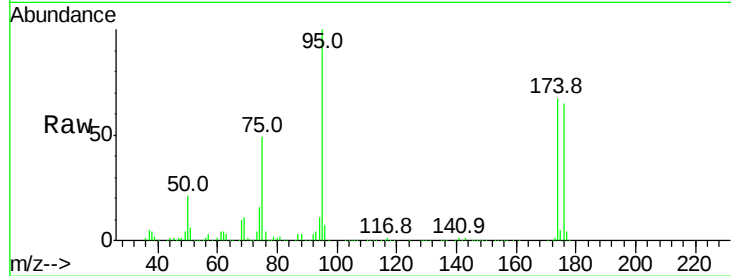
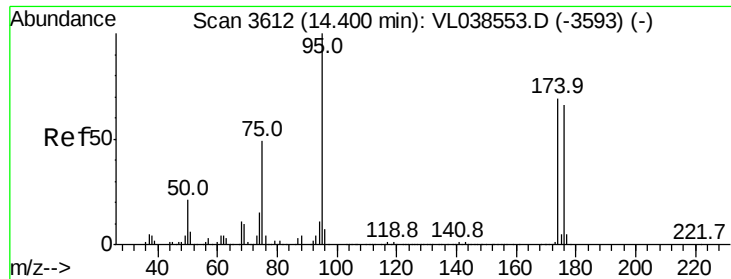
400000

200000

0

Time--> 12.00 12.10 12.20





#68

1-Bromo-4-Fluorobenzene

Concen: 9.58 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

IA-1DL2

Acq: 9 Mar 2022 20:35

Tgt Ion: 95 Resp: 1344807

Ion Ratio Lower Upper

95 100

174 72.6 56.2 84.4

175 5.2 4.2 6.2

