

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037776.D
 Acq On : 5 Oct 2021 16:36
 Operator : SY/AP
 Sample : M4012-05DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P24DL

Quant Time: Oct 06 04:47:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1348425	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3874422	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3382286	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2370708	10.02	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

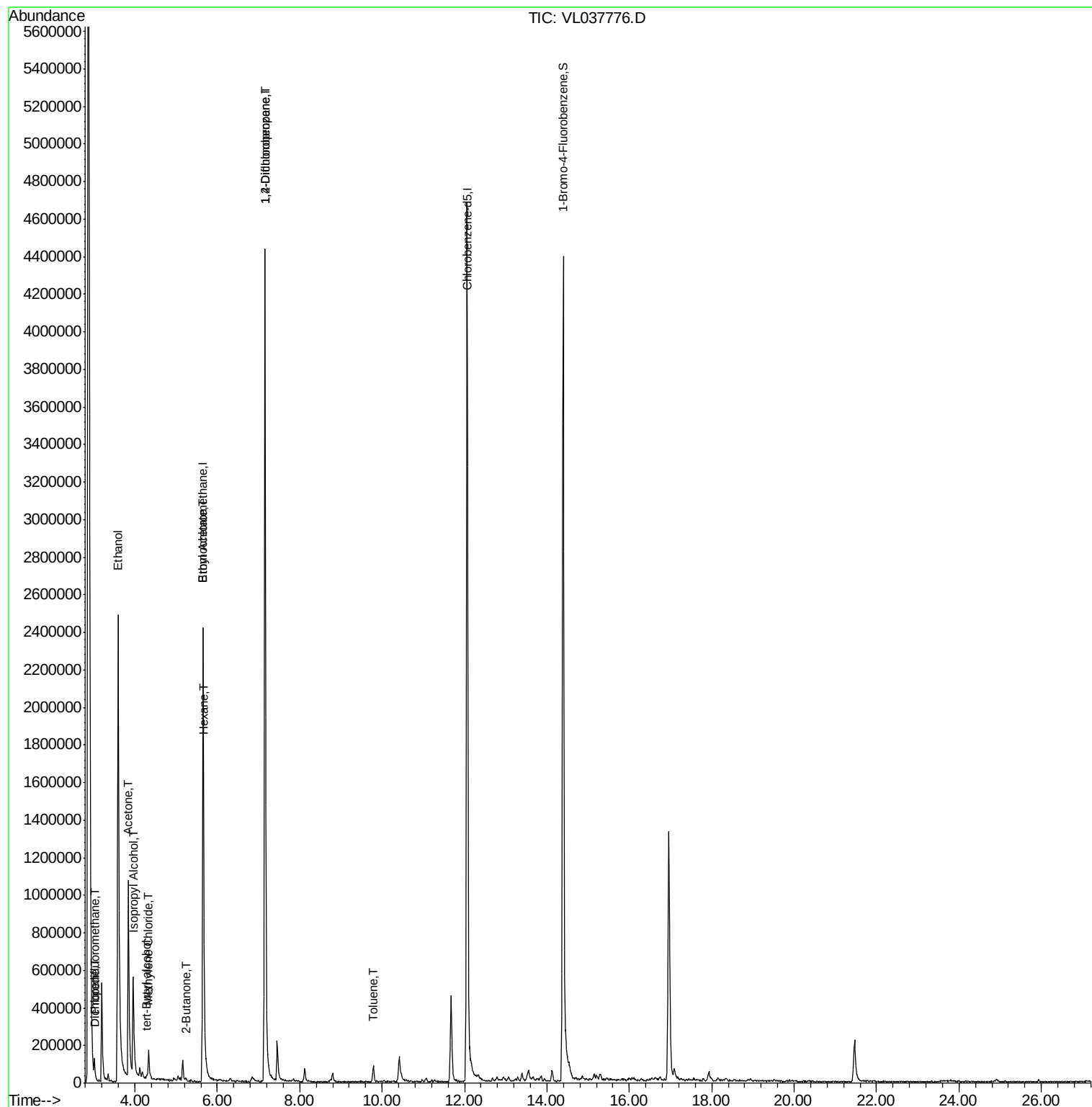
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	5005	0.023	ppbv	95
9) Propene	3.01	41	15027	0.158	ppbv #	53
13) Ethanol	3.59	45	3452156	442.796	ppbv	84
15) Acetone	3.84	43	1304704	10.778	ppbv	99
17) tert-Butyl alcohol	4.28	59	3951	0.032	ppbv #	71
19) Isopropyl Alcohol	3.95	45	649892	8.630	ppbv #	96
20) Methylene Chloride	4.34	84	51767	0.846	ppbv	92
25) Ethyl Acetate	5.66	43	13690	0.040	ppbv #	75
26) Hexane	5.67	57	18046	0.108	ppbv #	71
34) 2-Butanone	5.23	43	11628	0.074	ppbv #	26
39) 1,2-Dichloropropane	7.16	63	925351	7.434	ppbv #	29
53) Toluene	9.79	91	39575	0.108	ppbv #	41

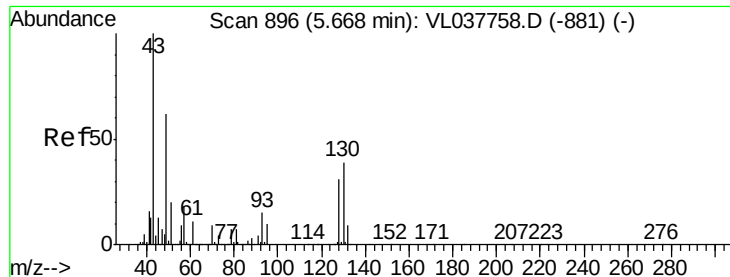
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037776.D

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MSVOA_L

ClientSampleId :

C0P24DL

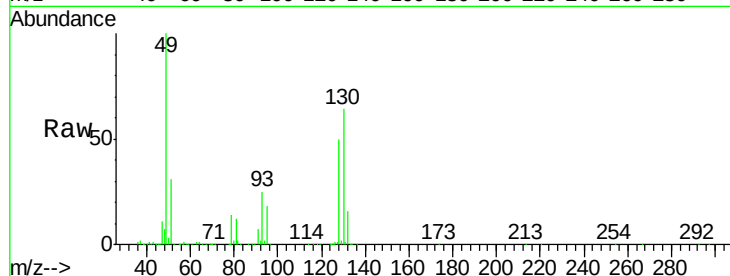
Tgt Ion: 49 Resp: 1348425

Ion Ratio Lower Upper

49 100

128 52.7 27.1 81.3

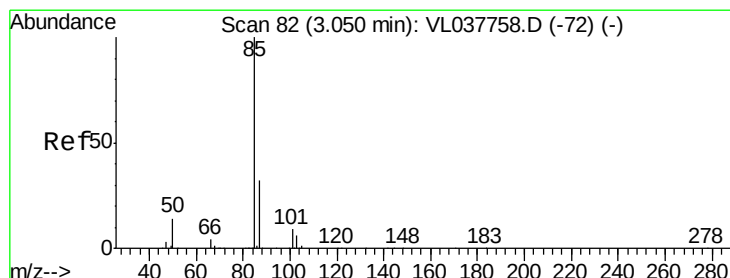
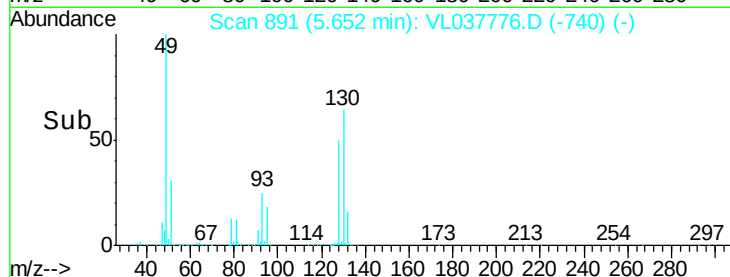
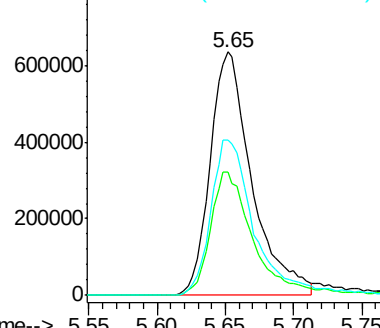
130 67.2 33.2 99.6



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



#2

Dichlorodifluoromethane

Concen: 0.023 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037776.D

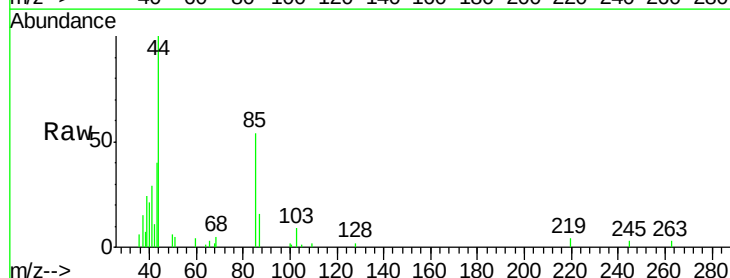
Acq: 5 Oct 2021 16:36

Tgt Ion: 85 Resp: 5005

Ion Ratio Lower Upper

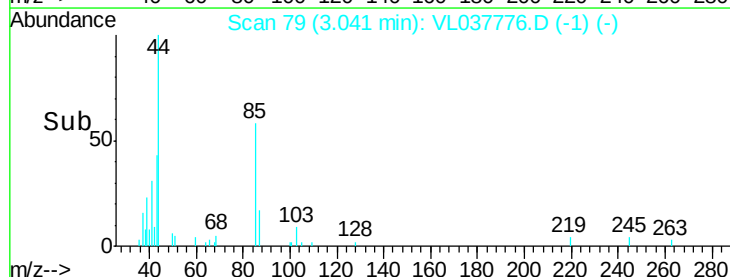
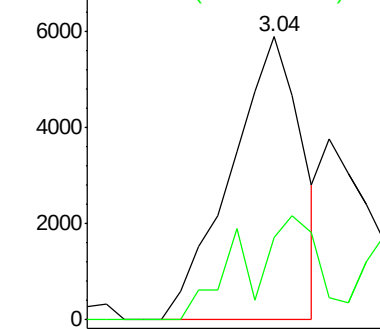
85 100

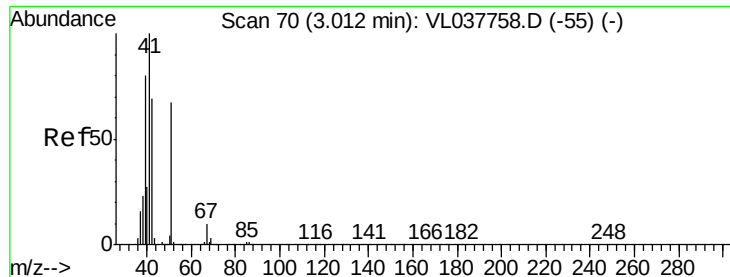
87 29.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.158 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037776.D

Acq: 5 Oct 2021 16:36

Instrument :

MSVOA_L

ClientSampleId :

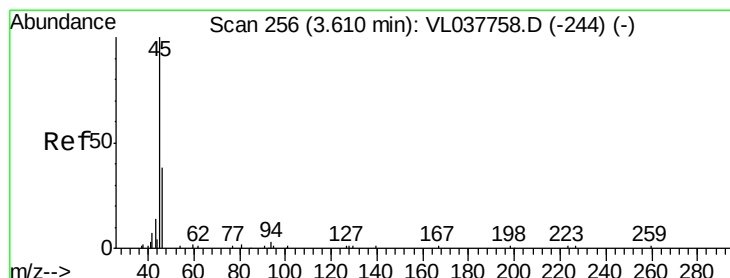
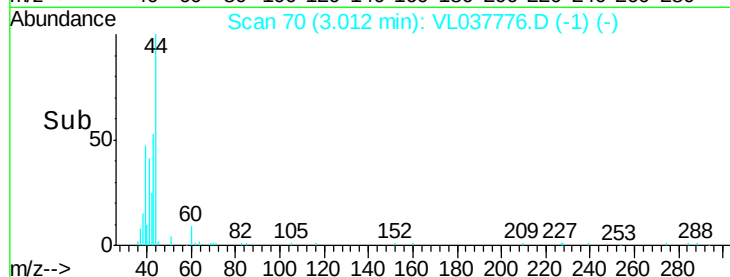
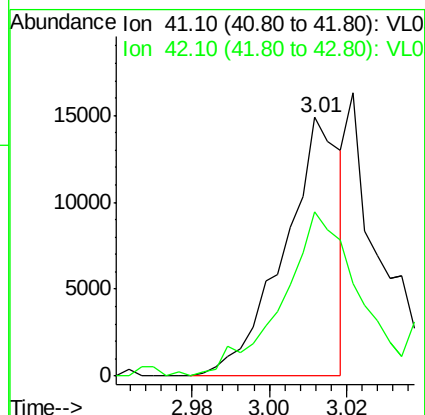
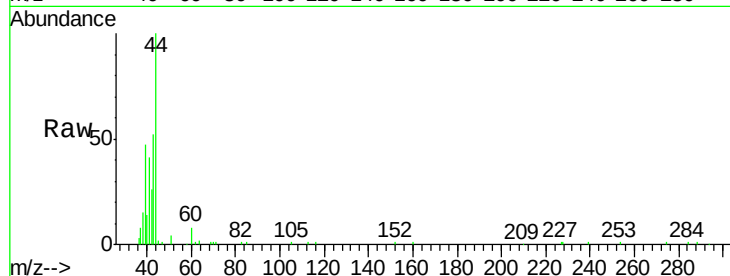
C0P24DL

Tgt Ion: 41 Resp: 15027

Ion Ratio Lower Upper

41 100

42 105.8 54.2 81.2#



#13

Ethanol

Concen: 442.796 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL037776.D

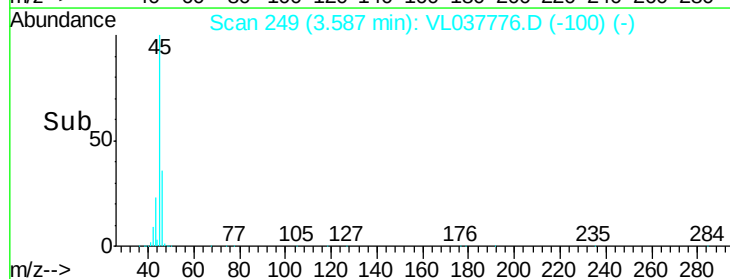
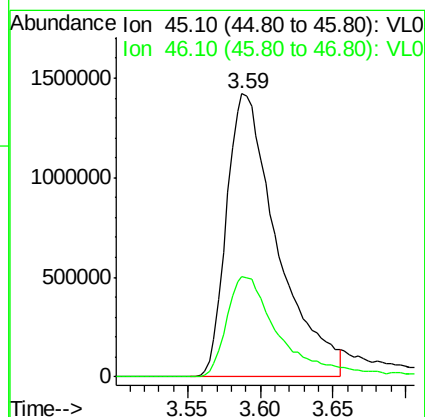
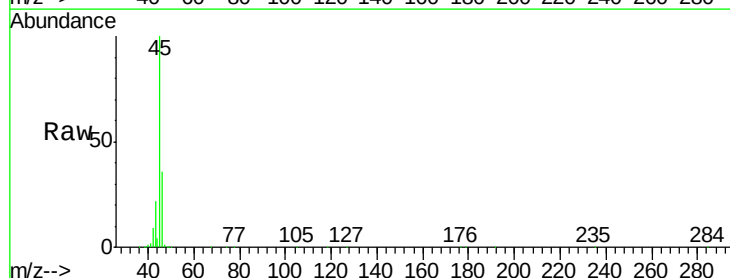
Acq: 5 Oct 2021 16:36

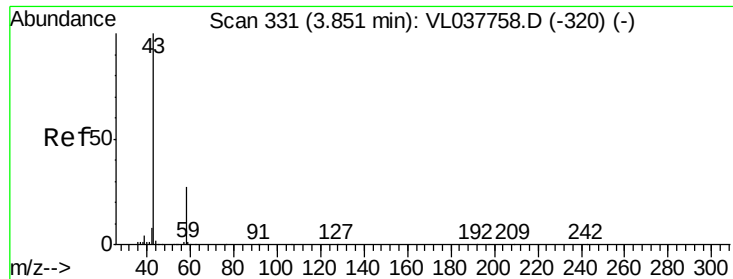
Tgt Ion: 45 Resp: 3452156

Ion Ratio Lower Upper

45 100

46 39.4 20.2 81.0





#15

Acetone

Concen: 10.778 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL037776.D

Acq: 5 Oct 2021 16:36

Instrument :

MSVOA_L

ClientSampleId :

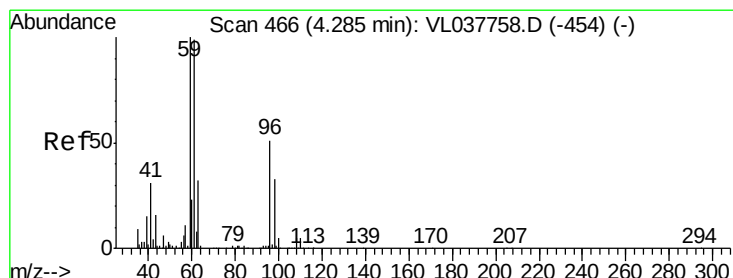
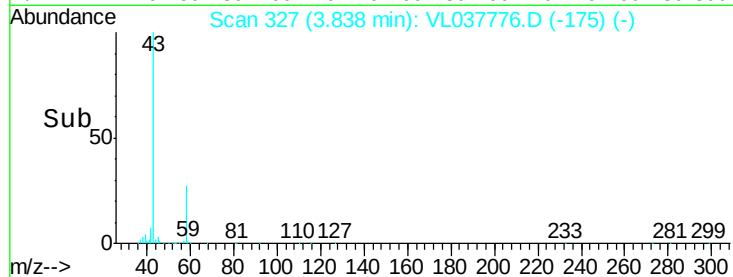
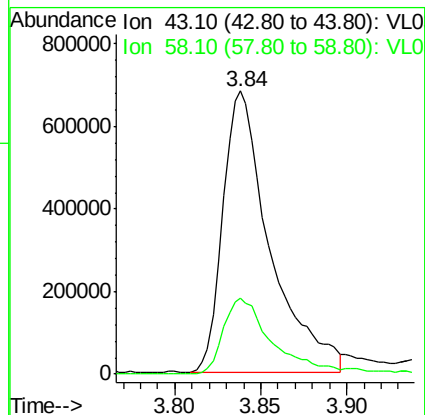
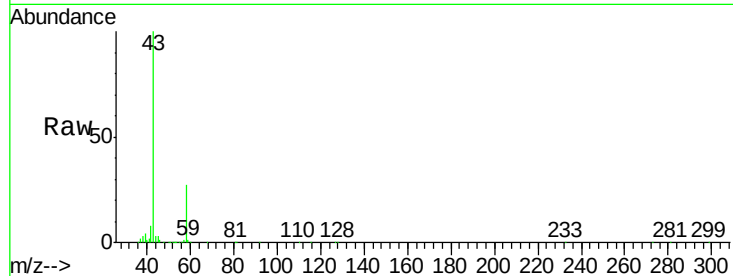
C0P24DL

Tgt Ion: 43 Resp: 1304704

Ion Ratio Lower Upper

43 100

58 29.1 23.0 34.6



#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.01 min

Lab File: VL037776.D

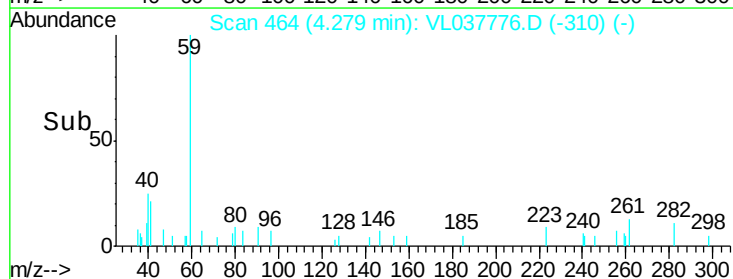
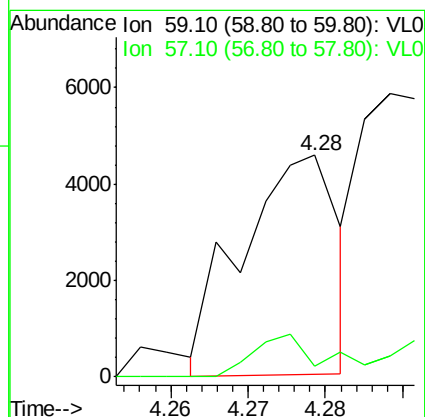
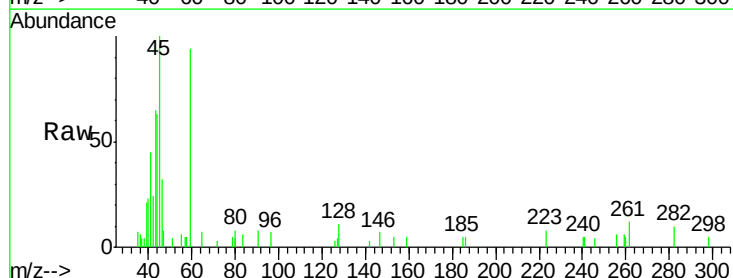
Acq: 5 Oct 2021 16:36

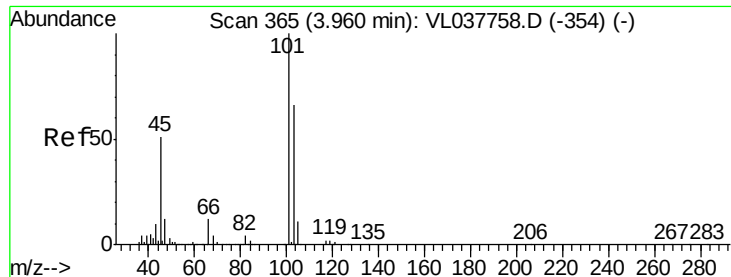
Tgt Ion: 59 Resp: 3951

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 8.630 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL037776.D

Acq: 5 Oct 2021 16:36

Instrument :

MSVOA_L

ClientSampleId :

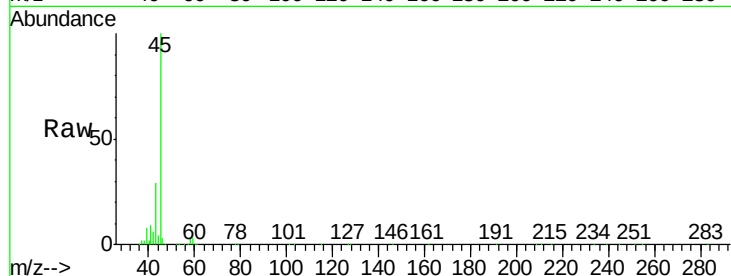
C0P24DL

Tgt Ion: 45 Resp: 649892

Ion Ratio Lower Upper

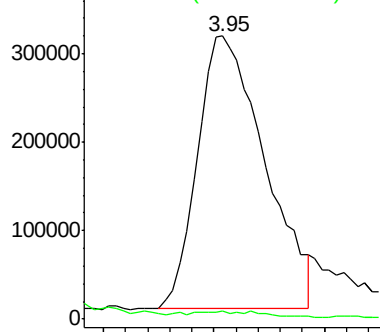
45 100

58 3.0 1.1 1.7#

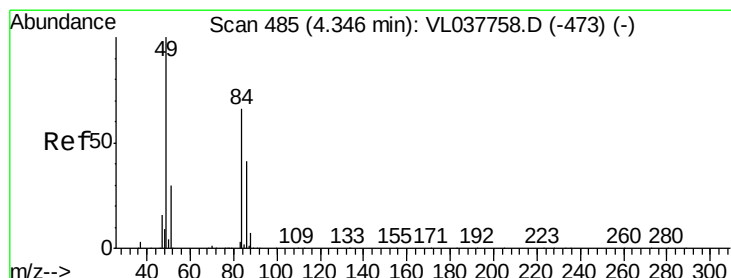
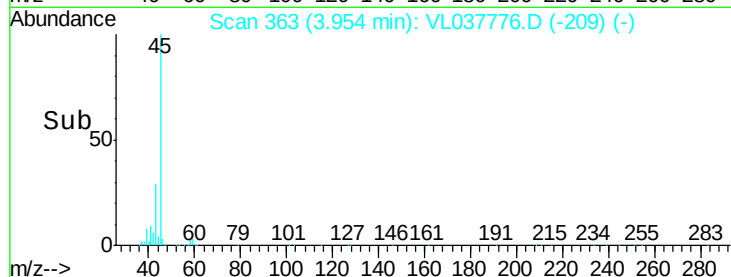


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time--> 3.90 3.95 4.00



#20

Methylene Chloride

Concen: 0.846 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL037776.D

Acq: 5 Oct 2021 16:36

Tgt Ion: 84 Resp: 51767

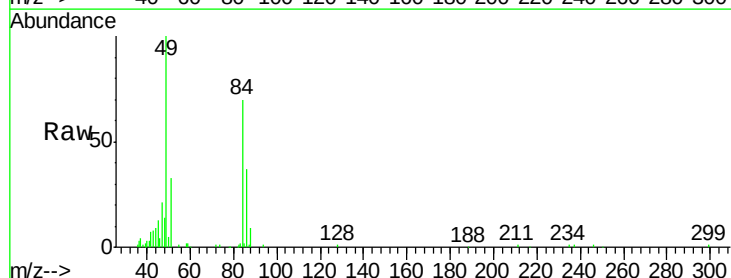
Ion Ratio Lower Upper

84 100

49 139.7 120.7 181.1

51 46.4 36.2 54.4

86 53.2 49.6 74.4

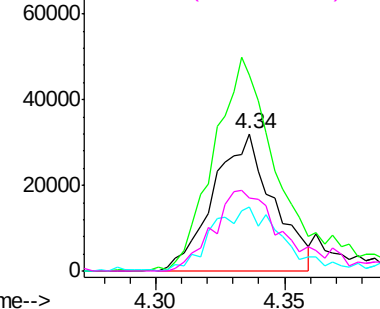


Abundance Ion 84.00 (83.70 to 84.70): VL0

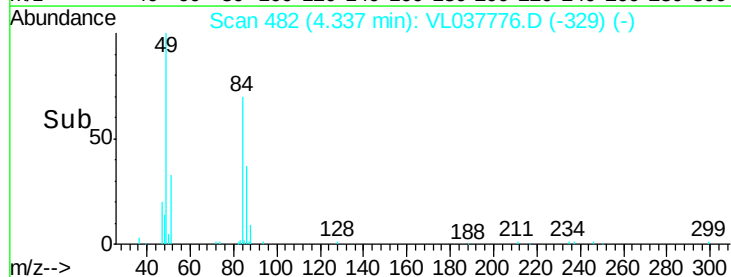
Ion 49.10 (48.80 to 49.80): VL0

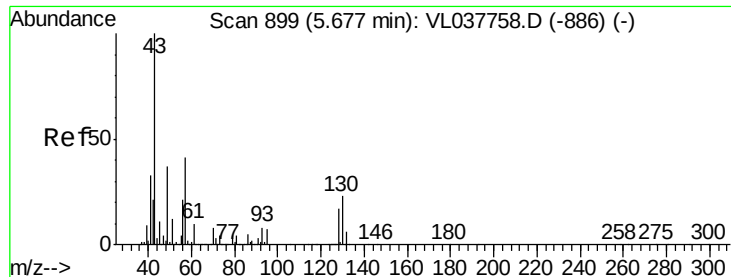
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



Time--> 4.30 4.35





#25

Ethyl Acetate

Concen: 0.040 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL037776.D

Acq: 5 Oct 2021 16:36

Instrument :

MSVOA_L

ClientSampleId :

C0P24DL

Tgt Ion: 43 Resp: 13690

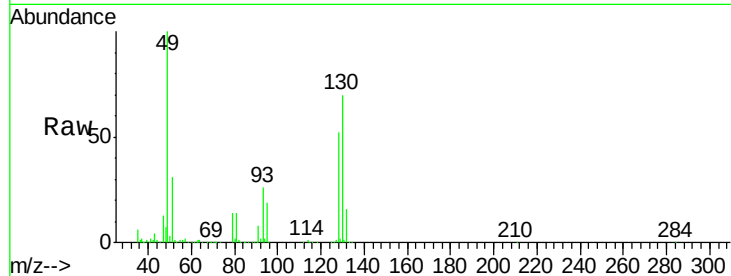
Ion Ratio Lower Upper

43 100

45 0.0 8.1 12.1#

61 0.0 7.5 11.3#

70 0.0 5.9 8.9#

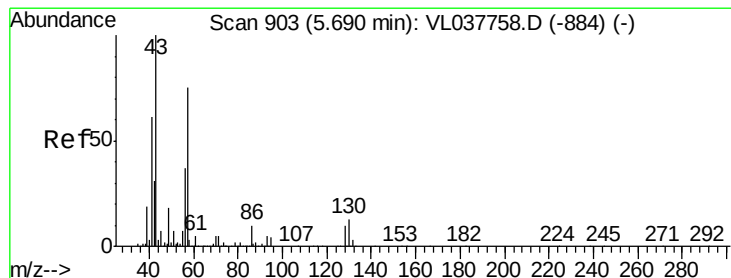
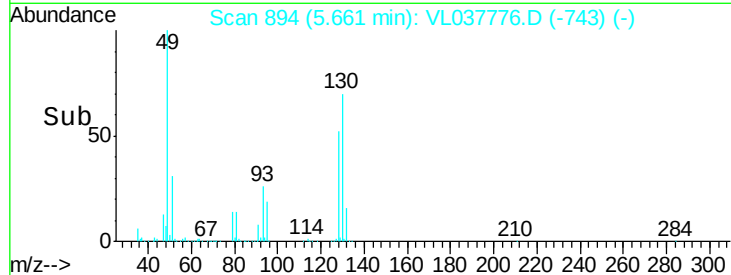
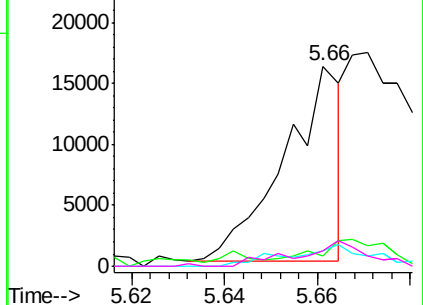


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.108 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.02 min

Lab File: VL037776.D

Acq: 5 Oct 2021 16:36

Tgt Ion: 57 Resp: 18046

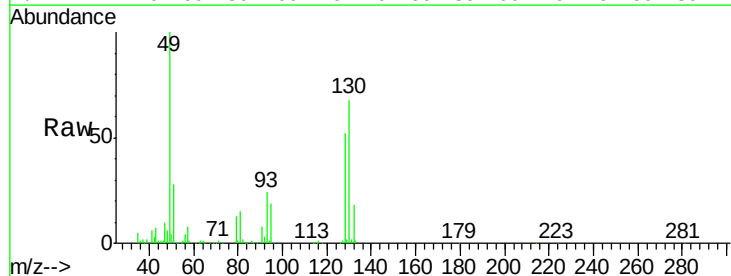
Ion Ratio Lower Upper

57 100

41 160.7 69.6 104.4#

43 212.4 171.4 257.0

56 95.5 42.0 63.0#

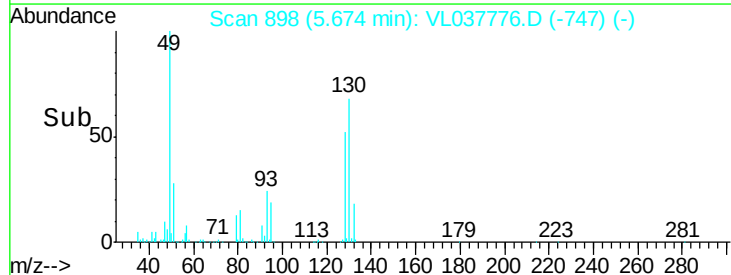
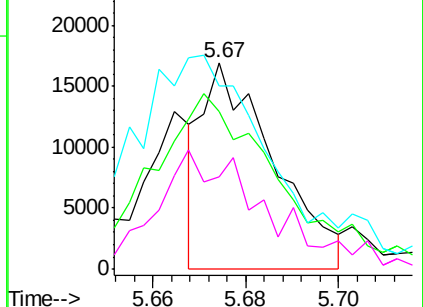


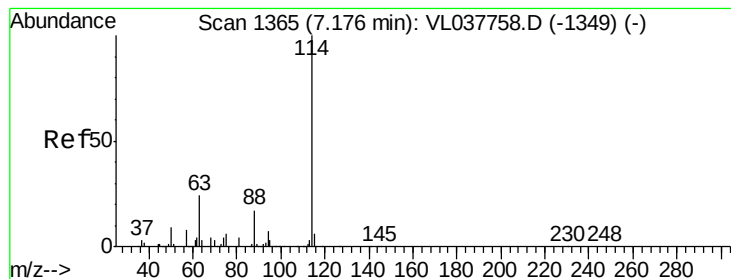
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.02 min

Lab File: VL037776.D

Acq: 5 Oct 2021 16:36

Instrument :

MSVOA_L

ClientSampleId :

C0P24DL

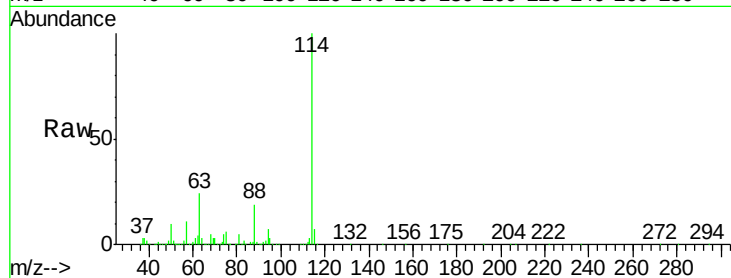
Tgt Ion:114 Resp: 3874422

Ion Ratio Lower Upper

114 100

63 24.4 19.4 29.2

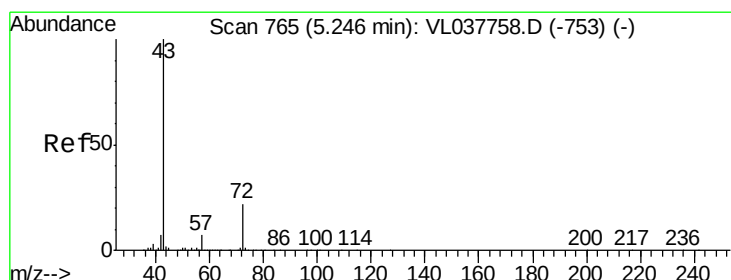
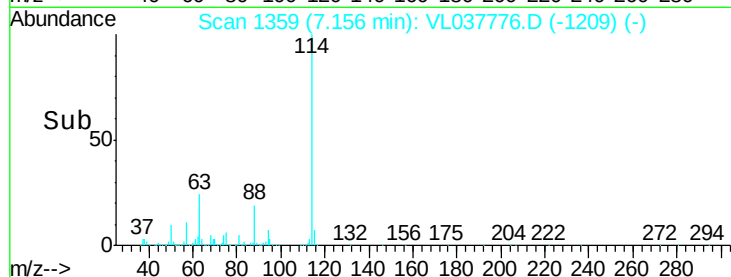
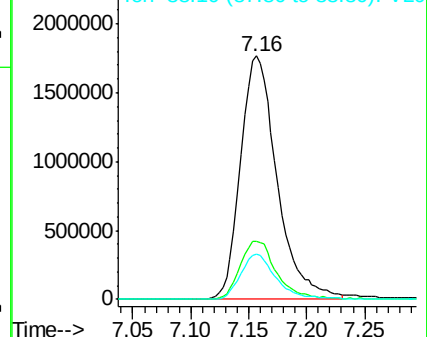
88 18.2 14.4 21.6



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: 0.074 ppbv

RT: 5.23 min Scan# 761

Delta R.T. -0.01 min

Lab File: VL037776.D

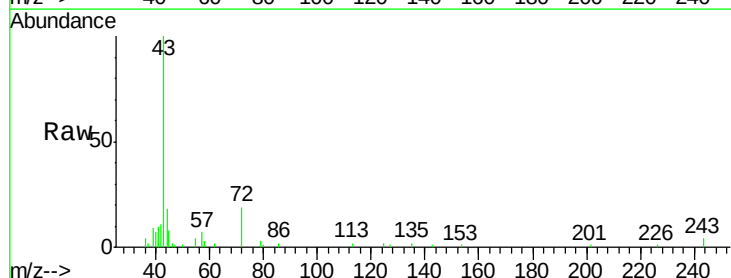
Acq: 5 Oct 2021 16:36

Tgt Ion: 43 Resp: 11628

Ion Ratio Lower Upper

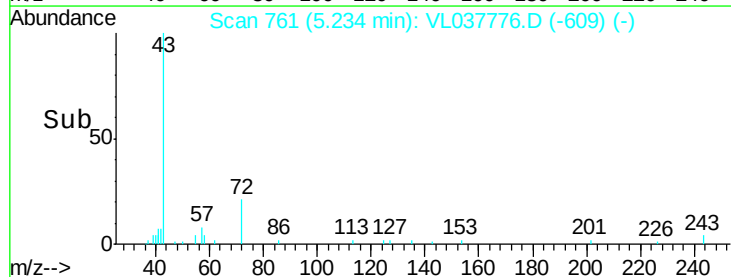
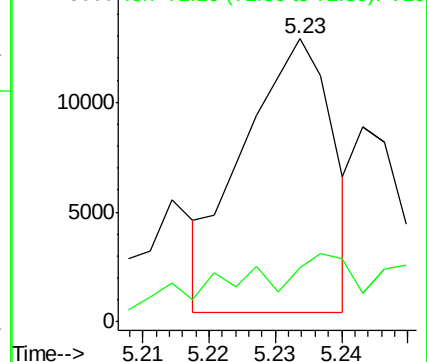
43 100

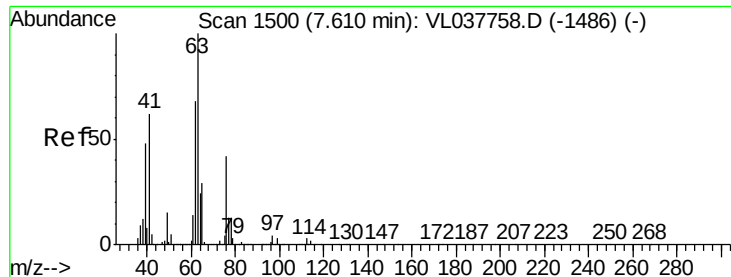
72 58.2 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.434 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.45 min

Lab File: VL037776.D

Acq: 5 Oct 2021 16:36

Instrument :

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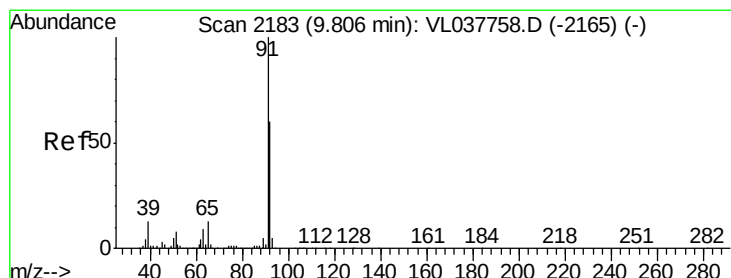
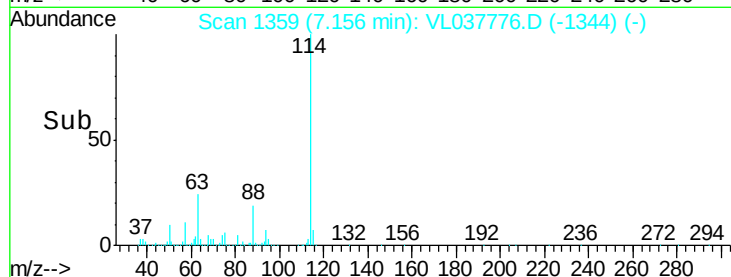
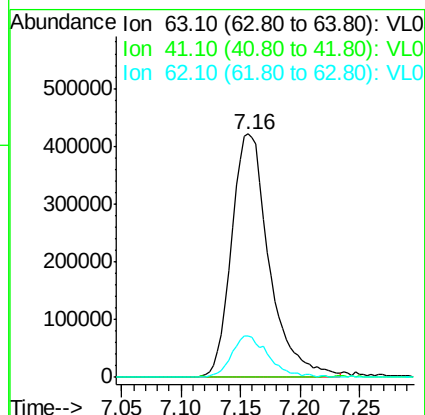
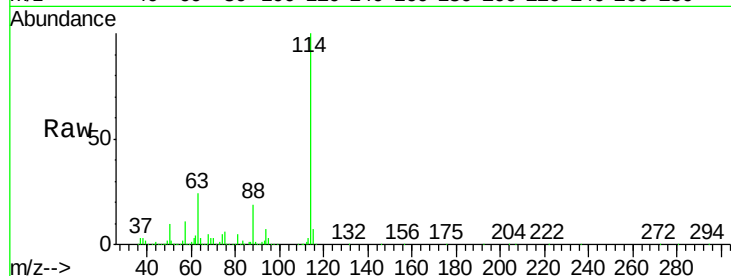
Tgt Ion: 63 Resp: 925351

Ion Ratio Lower Upper

63 100

41 0.0 49.8 74.6#

62 17.2 54.6 82.0#



#53

Toluene

Concen: 0.108 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.02 min

Lab File: VL037776.D

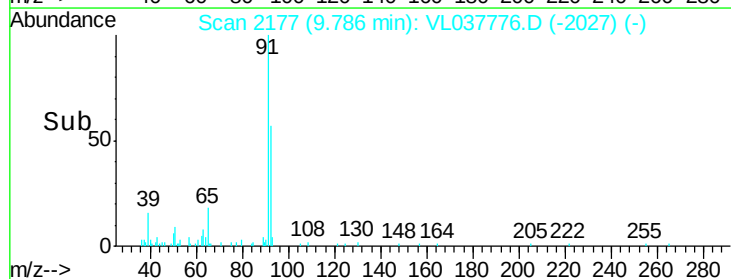
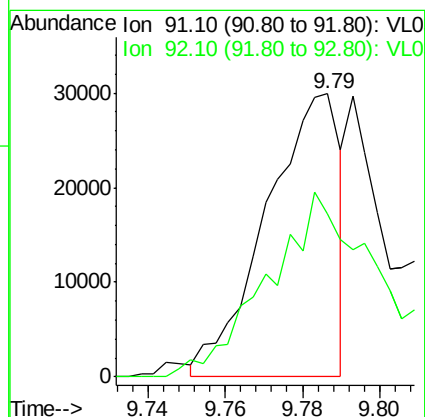
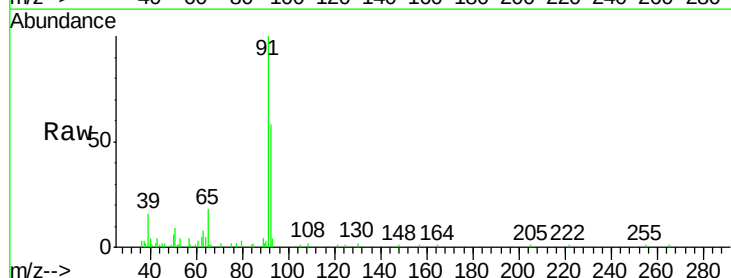
Acq: 5 Oct 2021 16:36

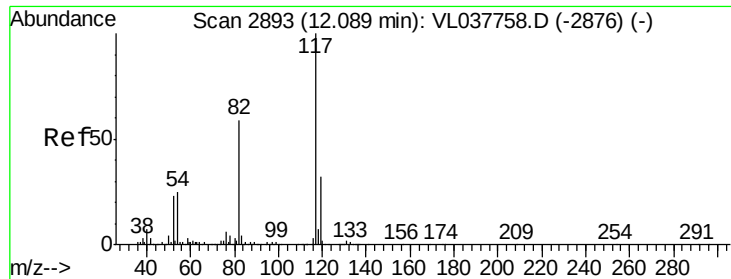
Tgt Ion: 91 Resp: 39575

Ion Ratio Lower Upper

91 100

92 105.5 48.4 72.6#

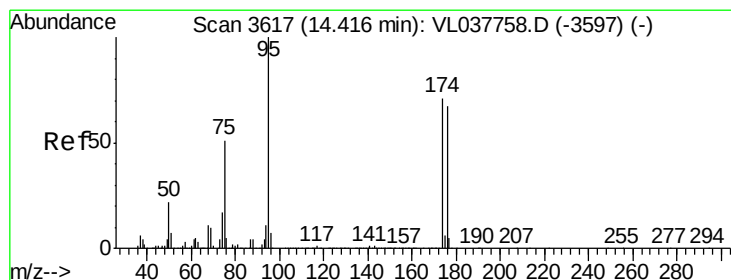
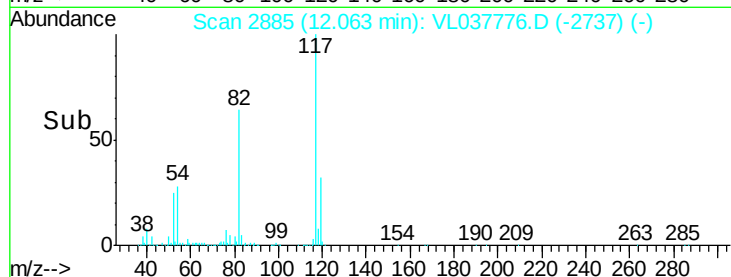
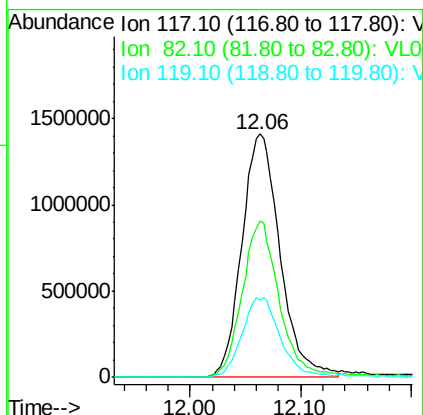
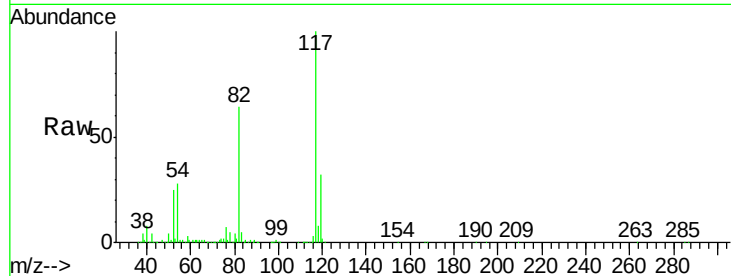




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.03 min
Lab File: VL037776.D
Acq: 5 Oct 2021 16:36

Instrument :
MSVOA_L
ClientSampleId :
C0P24DL

Tgt Ion: 117 Resp: 3382286
Ion Ratio Lower Upper
117 100
82 64.2 52.2 78.2
119 33.7 26.0 39.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.023 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL037776.D
Acq: 5 Oct 2021 16:36

Tgt Ion: 95 Resp: 2370708
Ion Ratio Lower Upper
95 100
174 73.9 57.8 86.6
175 5.5 4.7 7.1

