

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037789.D
 Acq On : 6 Oct 2021 1:08
 Operator : SY/AP
 Sample : M4012-14DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P25DL

Quant Time: Oct 06 04:49:39 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	1235426	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3636089	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3091614	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2130658	9.86	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

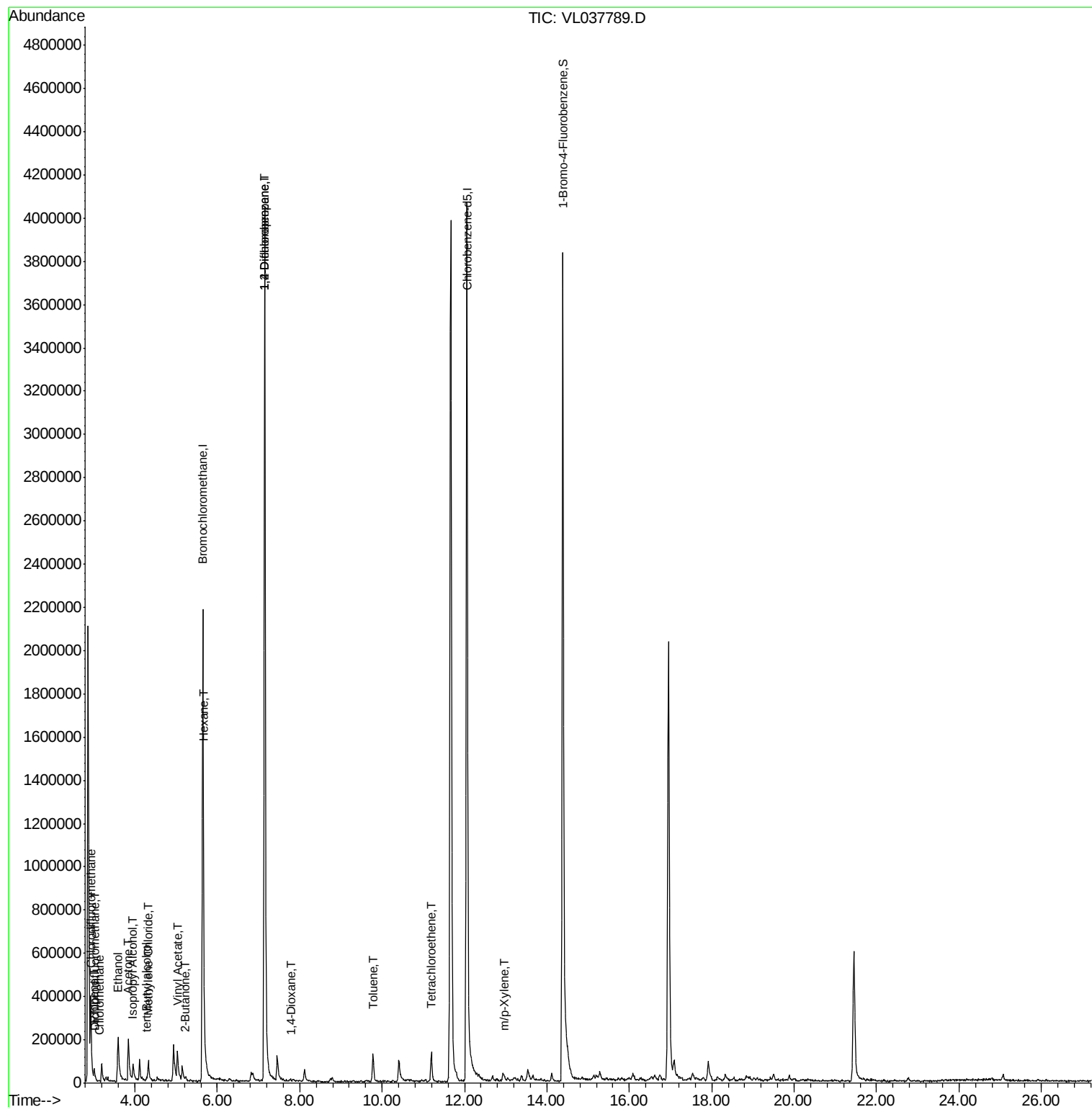
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	5446	0.028	ppbv	92
3) Chlorodifluoromethane	2.94	51	27107	0.114	ppbv #	63
4) Chloromethane	3.13	50	1854	0.021	ppbv #	44
9) Propene	3.01	41	11989	0.137	ppbv	90
13) Ethanol	3.59	45	299037	41.865	ppbv	85
15) Acetone	3.83	43	268423	2.420	ppbv	96
17) tert-Butyl alcohol	4.28	59	7654	0.067	ppbv #	71
19) Isopropyl Alcohol	3.95	45	73631	1.067	ppbv #	86
20) Methylene Chloride	4.32	84	32449	0.579	ppbv	88
23) Vinyl Acetate	5.04	43	16064	0.097	ppbv #	1
26) Hexane	5.67	57	5304	0.035	ppbv #	1
34) 2-Butanone	5.22	43	8075	0.055	ppbv #	53
39) 1,2-Dichloropropane	7.15	63	839828	7.189	ppbv #	27
40) 1,4-Dioxane	7.80	88	700	0.024	ppbv #	100
52) Tetrachloroethene	11.18	164	6795	0.056	ppbv #	38
53) Toluene	9.77	91	43632	0.127	ppbv #	20
59) m/p-Xylene	12.97	91	7705	0.022	ppbv #	30

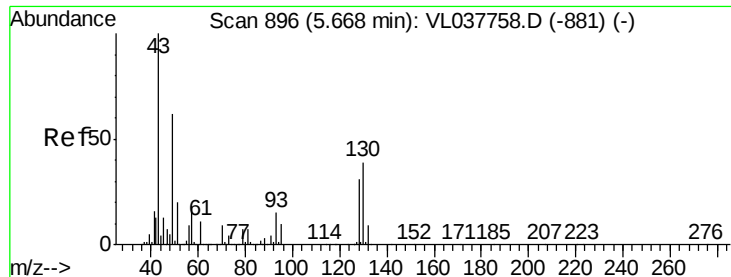
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037789.D
Acq On : 6 Oct 2021 1:08
Operator : SY/AP
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
C0P25DL

Quant Time: Oct 06 04:49:39 2021
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL037789.D

Acq: 6 Oct 2021 1:08

Instrument :

MSVOA_L

ClientSampleId :

C0P25DL

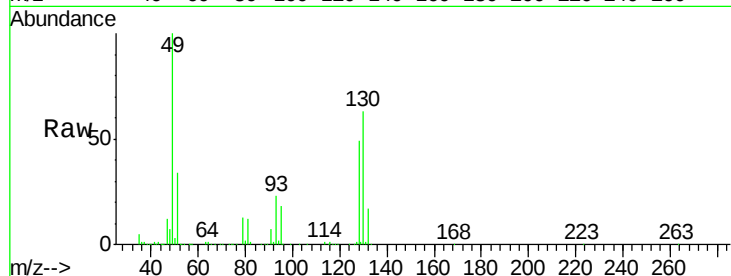
Tgt Ion: 49 Resp: 1235426

Ion Ratio Lower Upper

49 100

128 53.1 27.1 81.3

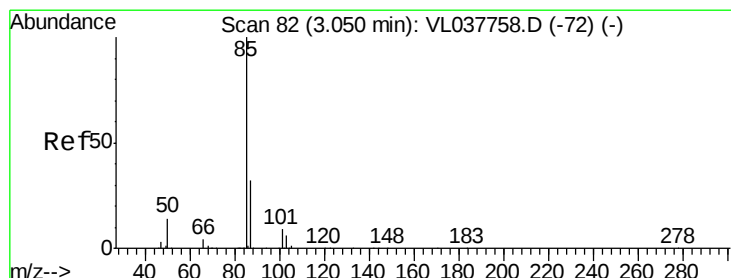
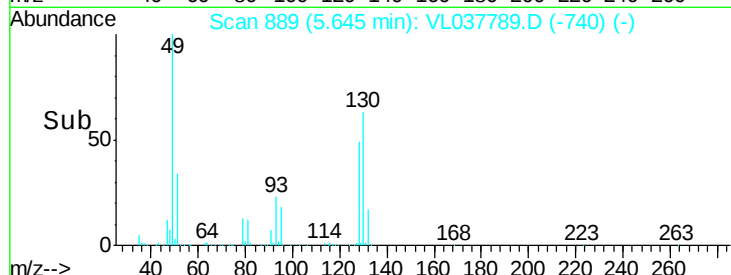
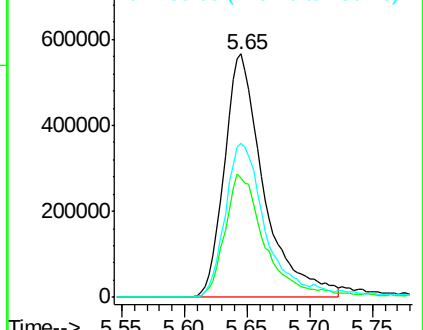
130 68.9 33.2 99.6



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: 0.028 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL037789.D

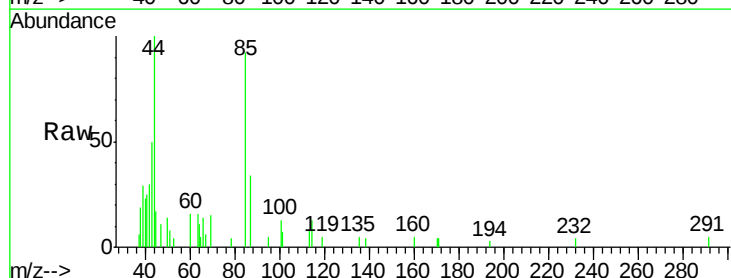
Acq: 6 Oct 2021 1:08

Tgt Ion: 85 Resp: 5446

Ion Ratio Lower Upper

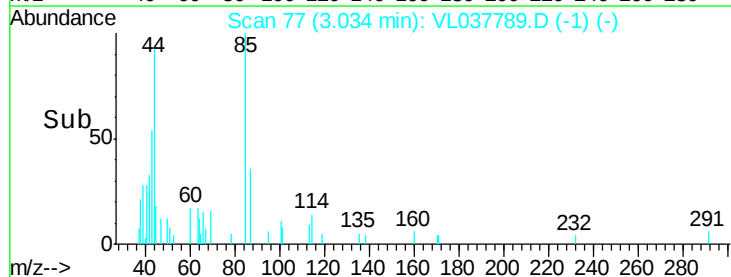
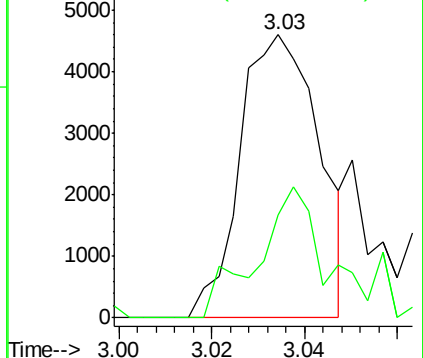
85 100

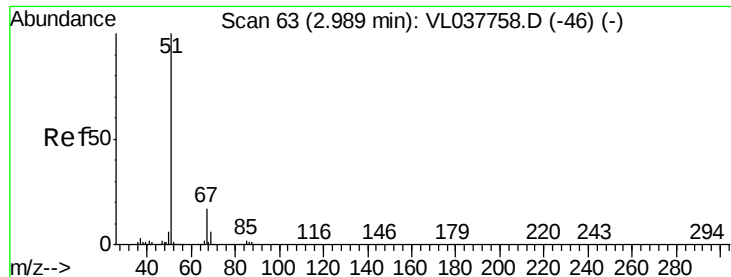
87 36.4 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.114 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.04 min

Lab File: VL037789.D

Acq: 6 Oct 2021 1:08

Instrument :

MSVOA_L

ClientSampleId :

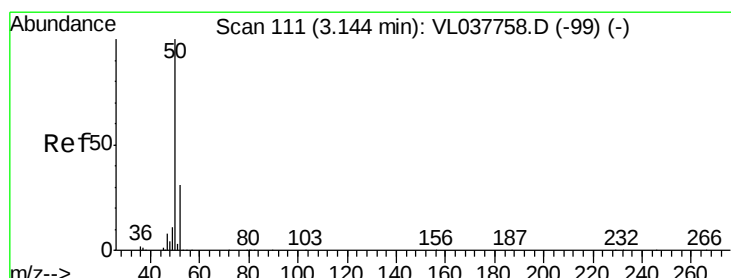
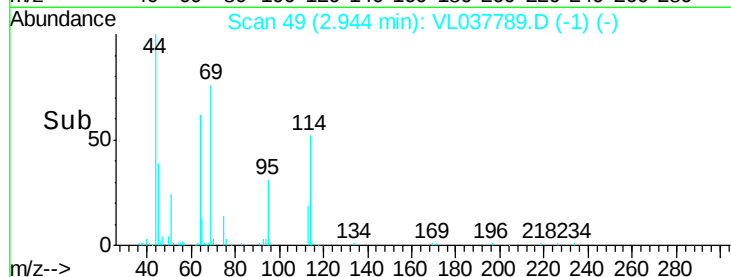
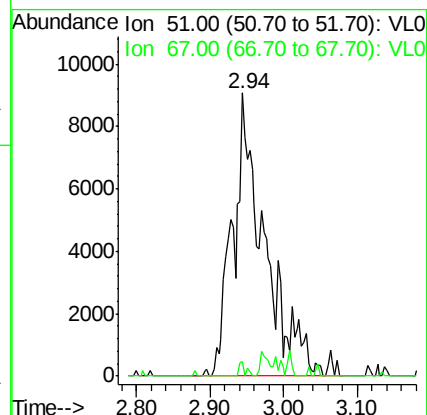
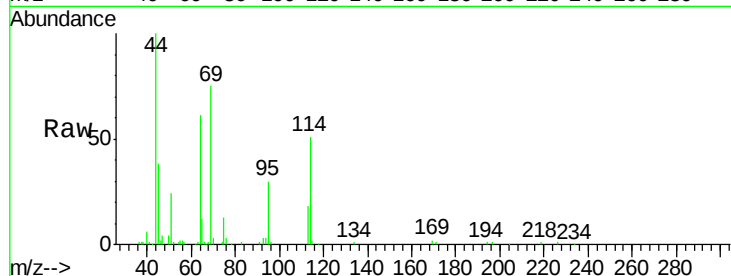
C0P25DL

Tgt Ion: 51 Resp: 27107

Ion Ratio Lower Upper

51 100

67 0.9 13.5 20.3#



#4

Chloromethane

Concen: 0.021 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037789.D

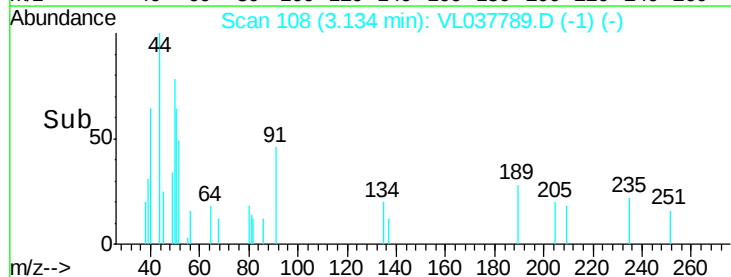
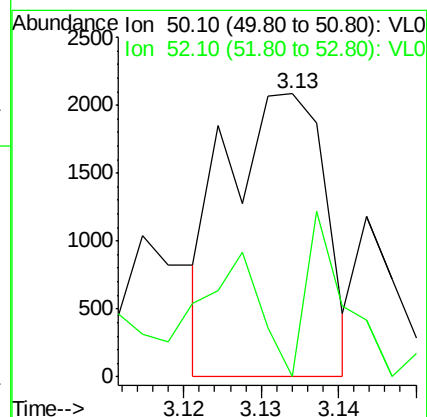
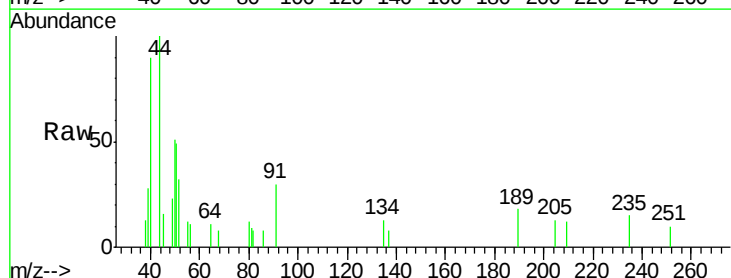
Acq: 6 Oct 2021 1:08

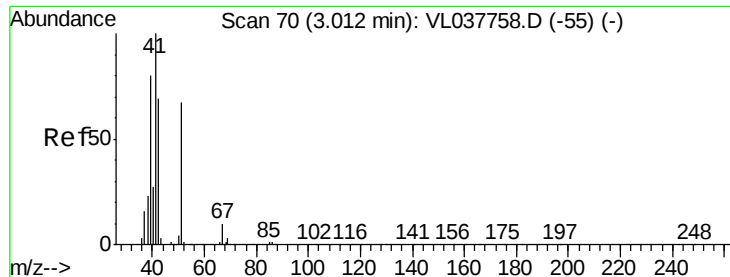
Tgt Ion: 50 Resp: 1854

Ion Ratio Lower Upper

50 100

52 0.0 24.4 36.6#





#9

Propene

Concen: 0.137 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037789.D

Acq: 6 Oct 2021 1:08

Instrument :

MSVOA_L

ClientSampleId :

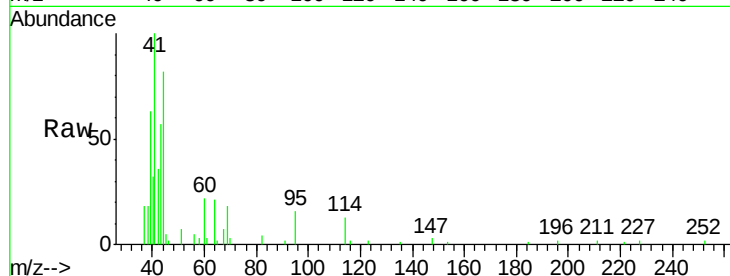
C0P25DL

Tgt Ion: 41 Resp: 11989

Ion Ratio Lower Upper

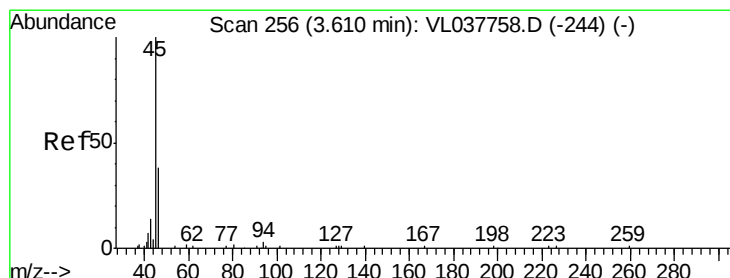
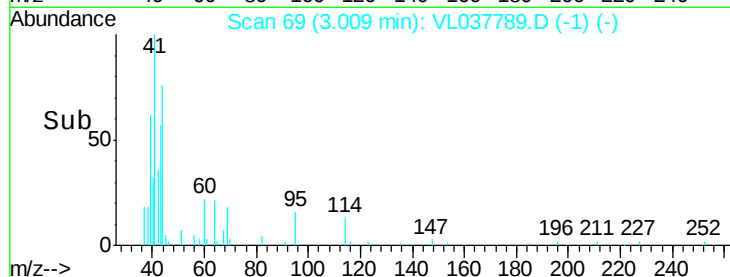
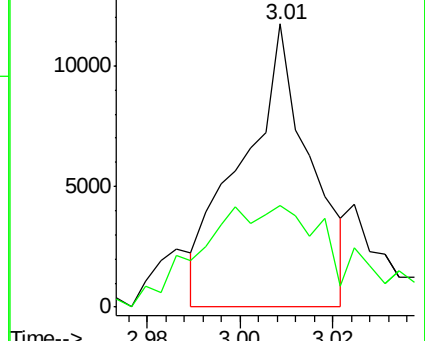
41 100

42 75.9 54.2 81.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 41.865 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL037789.D

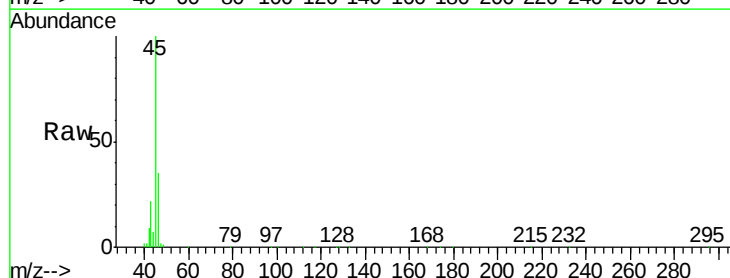
Acq: 6 Oct 2021 1:08

Tgt Ion: 45 Resp: 299037

Ion Ratio Lower Upper

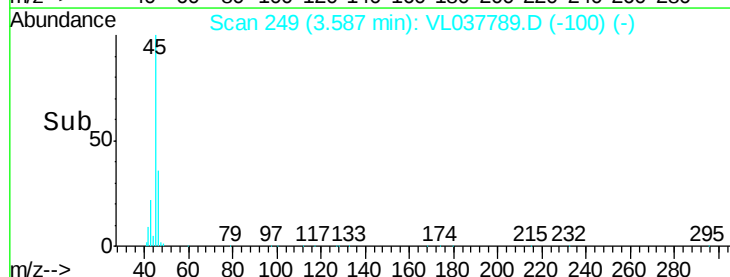
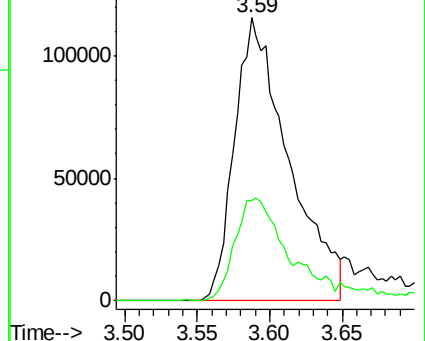
45 100

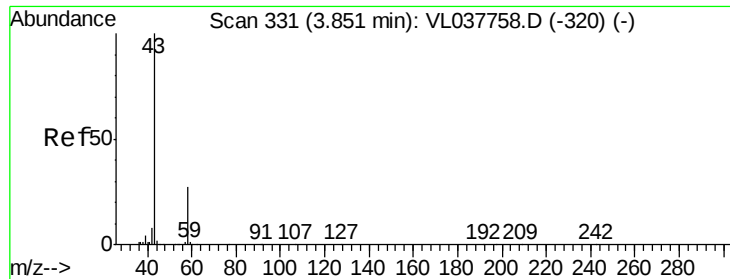
46 40.5 20.2 81.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 2.420 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL037789.D

Acq: 6 Oct 2021 1:08

Instrument :

MSVOA_L

ClientSampleId :

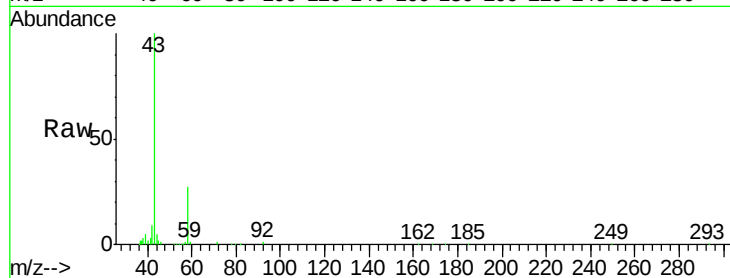
C0P25DL

Tgt Ion: 43 Resp: 268423

Ion Ratio Lower Upper

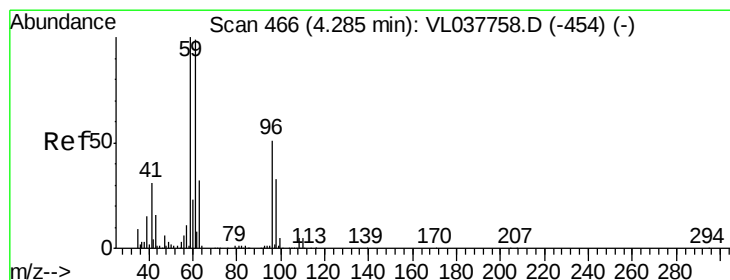
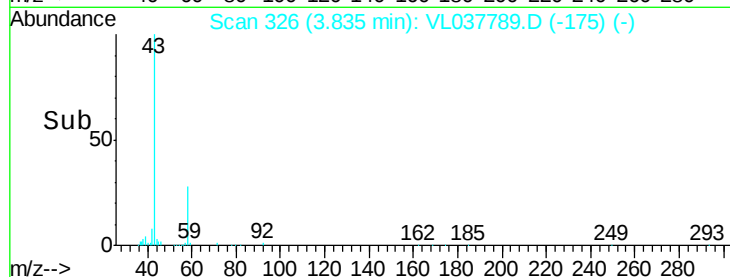
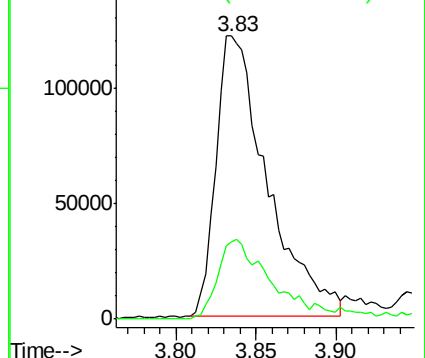
43 100

58 31.2 23.0 34.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.067 ppbv

RT: 4.28 min Scan# 465

Delta R.T. -0.00 min

Lab File: VL037789.D

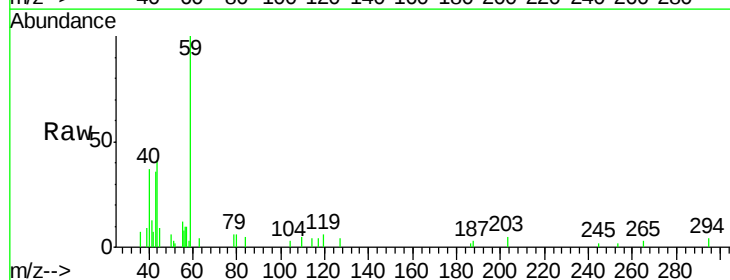
Acq: 6 Oct 2021 1:08

Tgt Ion: 59 Resp: 7654

Ion Ratio Lower Upper

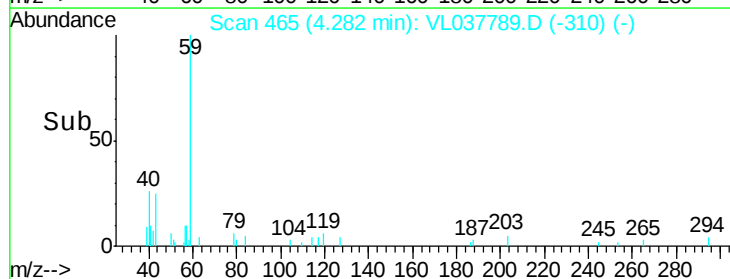
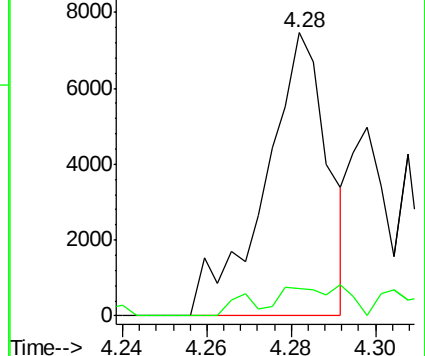
59 100

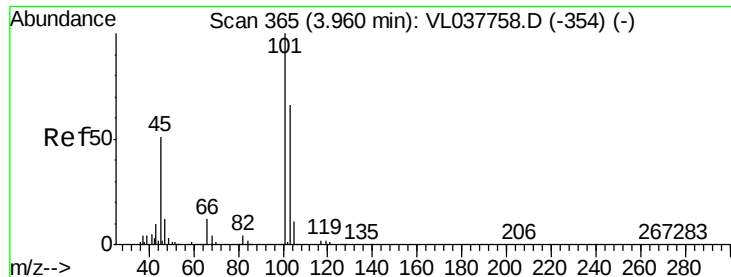
57 0.0 8.6 13.0#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 1.067 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL037789.D

Acq: 6 Oct 2021 1:08

Instrument :

MSVOA_L

ClientSampleId :

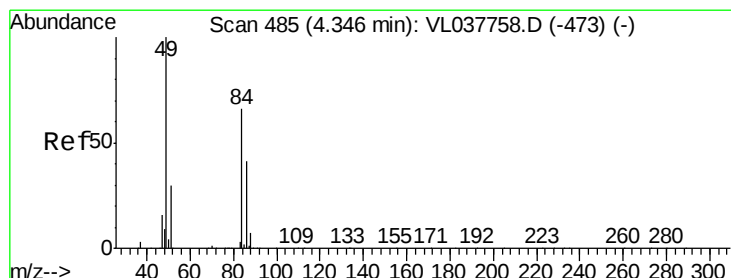
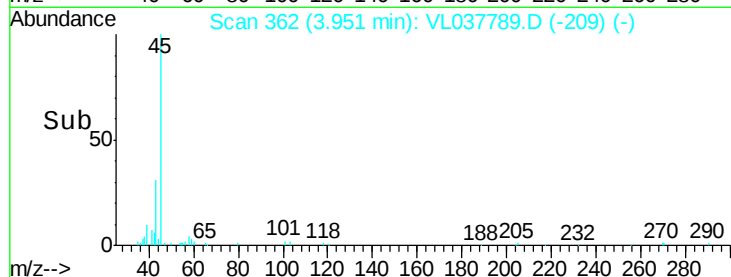
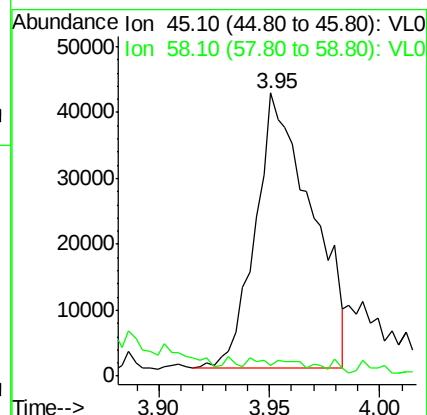
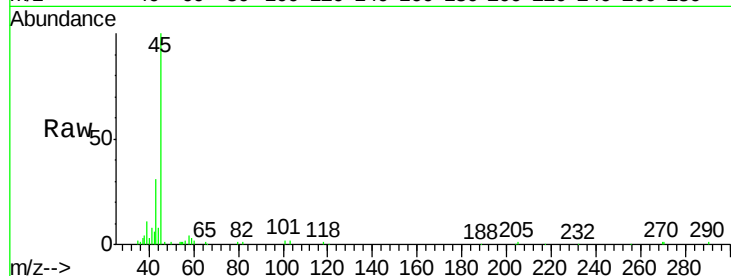
C0P25DL

Tgt Ion: 45 Resp: 73631

Ion Ratio Lower Upper

45 100

58 6.9 1.1 1.7#



#20

Methylene Chloride

Concen: 0.579 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.02 min

Lab File: VL037789.D

Acq: 6 Oct 2021 1:08

Tgt Ion: 84 Resp: 32449

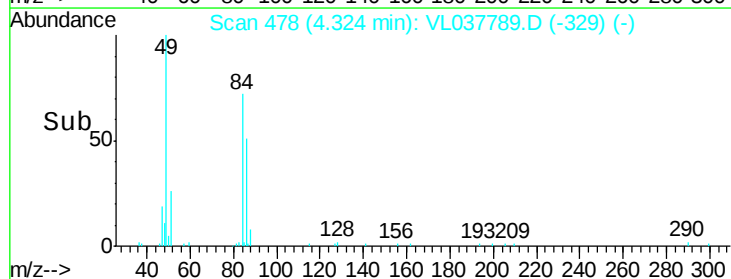
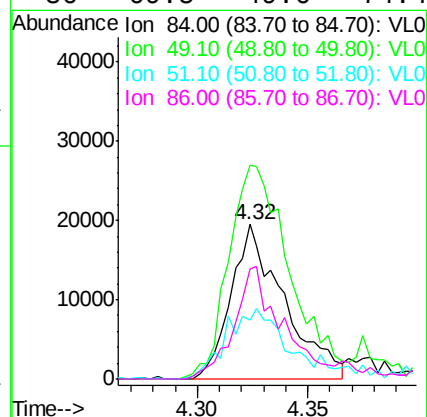
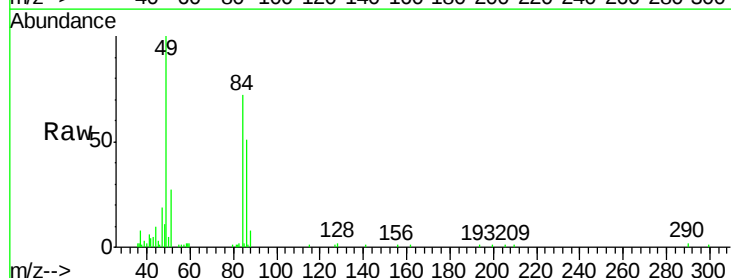
Ion Ratio Lower Upper

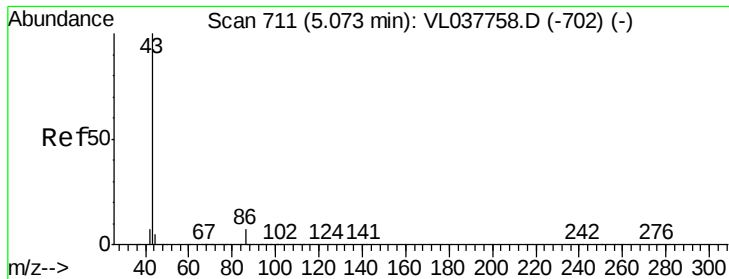
84 100

49 135.1 120.7 181.1

51 36.4 36.2 54.4

86 69.5 49.6 74.4

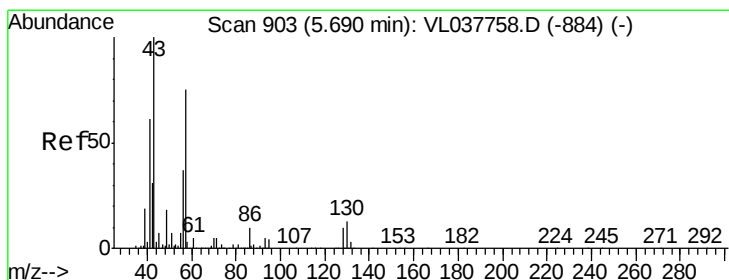
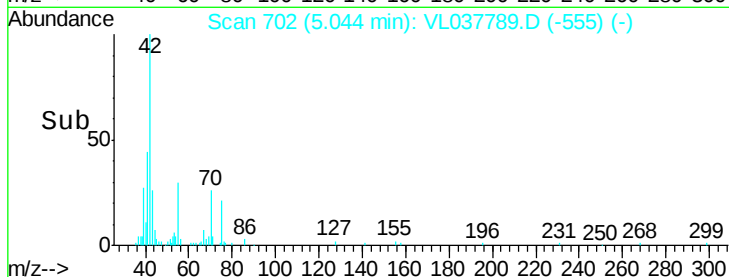
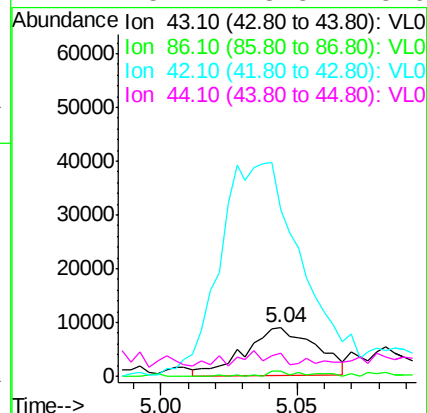
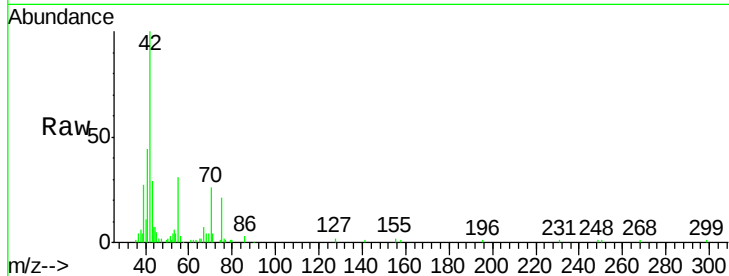




#23
 Vinyl Acetate
 Concen: 0.097 ppbv
 RT: 5.04 min Scan# 702
 Delta R.T. -0.03 min
 Lab File: VL037789.D
 Acq: 6 Oct 2021 1:08

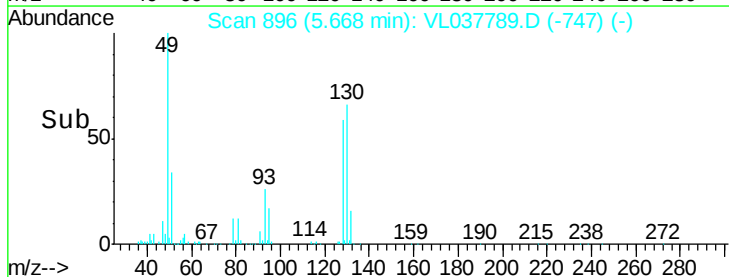
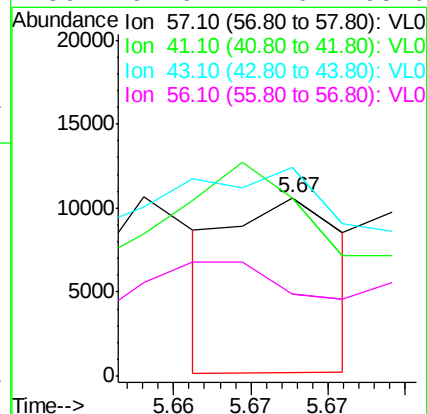
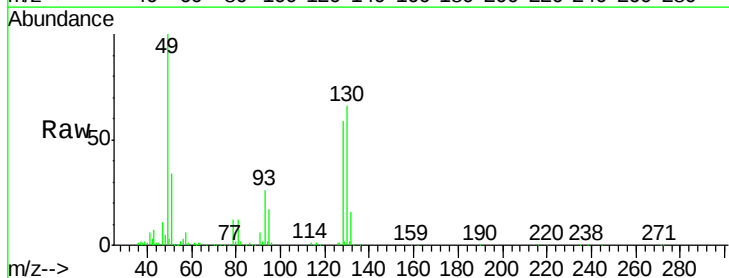
Instrument :
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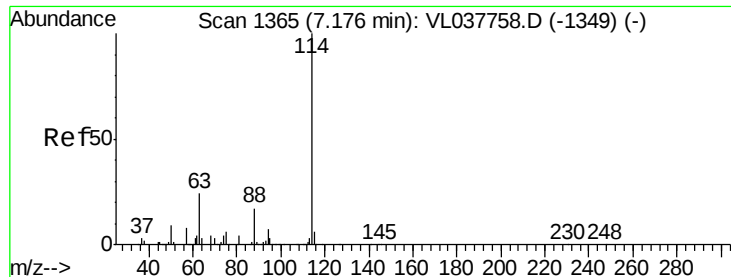
Tgt Ion:	43	Resp:	16064
Ion	Ratio	Lower	Upper
43	100		
86	9.0	5.0	7.4#
42	275.2	7.4	11.0#
44	23.7	3.8	5.6#



#26
 Hexane
 Concen: 0.035 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. -0.02 min
 Lab File: VL037789.D
 Acq: 6 Oct 2021 1:08

Tgt Ion:	57	Resp:	5304
Ion	Ratio	Lower	Upper
57	100		
41	420.1	69.6	104.4#
43	490.1	171.4	257.0#
56	262.6	42.0	63.0#

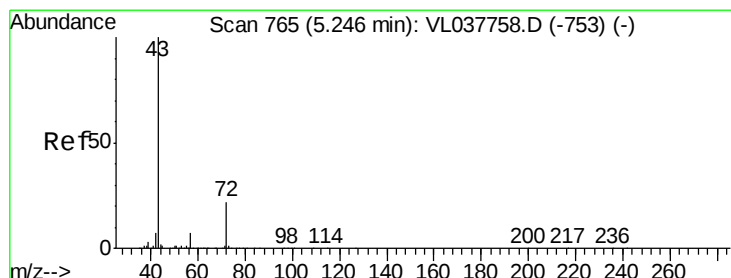
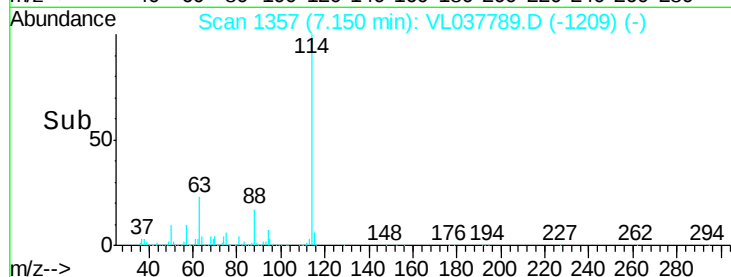
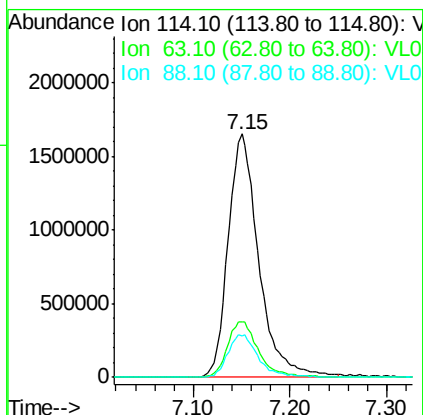
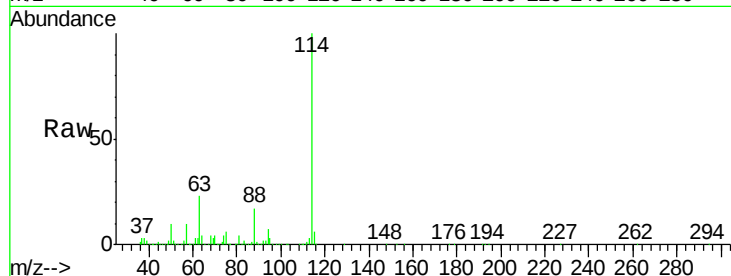




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL037789.D
 Acq: 6 Oct 2021 1:08

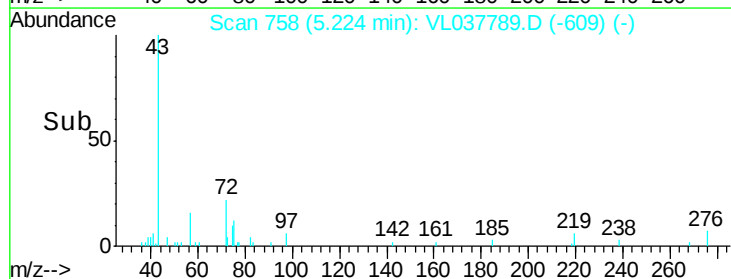
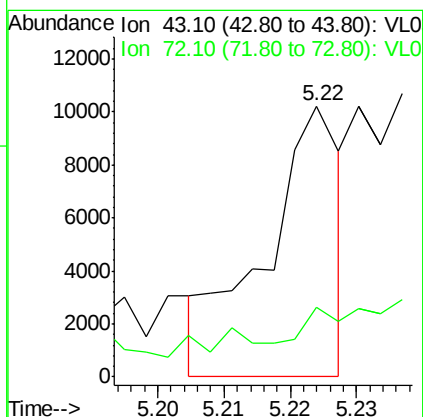
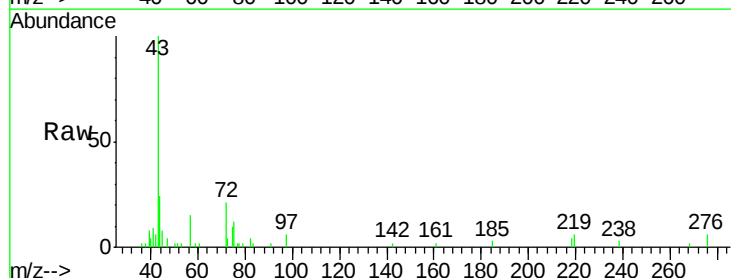
Instrument :
 MSVOA_L
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 C0P25DL

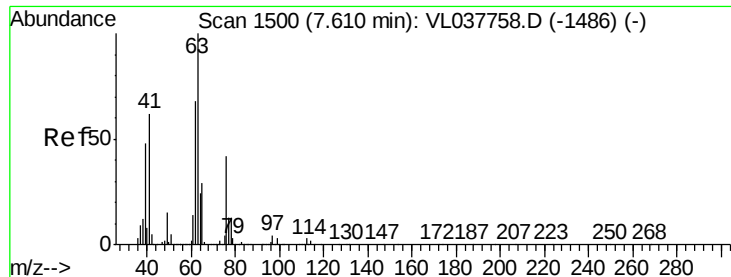
Tgt Ion:114 Resp: 3636089
 Ion Ratio Lower Upper
 114 100
 63 23.7 19.4 29.2
 88 17.8 14.4 21.6



#34
 2-Butanone
 Concen: 0.055 ppbv
 RT: 5.22 min Scan# 758
 Delta R.T. -0.02 min
 Lab File: VL037789.D
 Acq: 6 Oct 2021 1:08

Tgt Ion: 43 Resp: 8075
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#





#39

1,2-Dichloropropane

Concen: 7.189 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.46 min

Lab File: VL037789.D

Acq: 6 Oct 2021 1:08

Instrument :

MSVOA_L

ClientSampleId :

C0P25DL

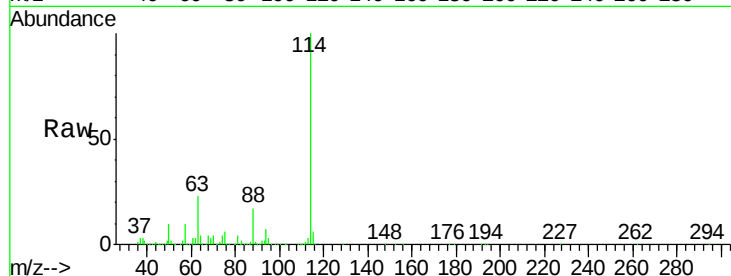
Tgt Ion: 63 Resp: 839828

Ion Ratio Lower Upper

63 100

41 0.0 49.8 74.6#

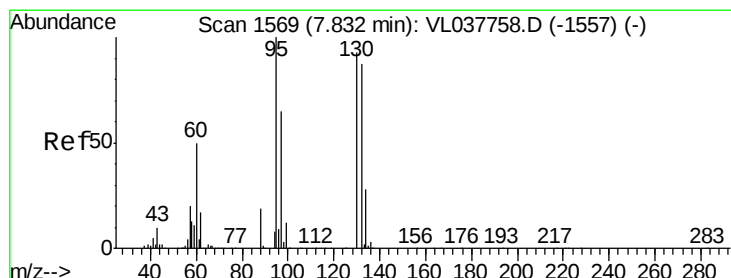
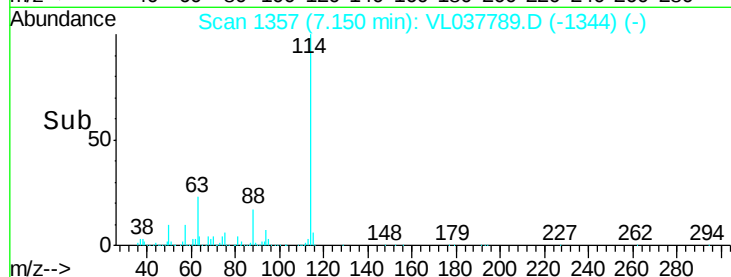
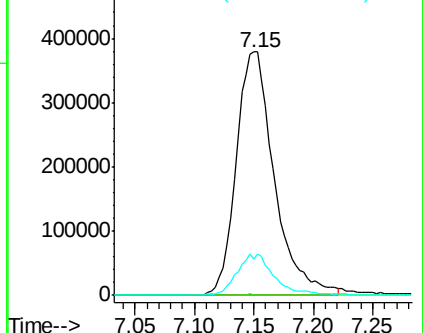
62 15.0 54.6 82.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.024 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. -0.04 min

Lab File: VL037789.D

Acq: 6 Oct 2021 1:08

Tgt Ion: 88 Resp: 700

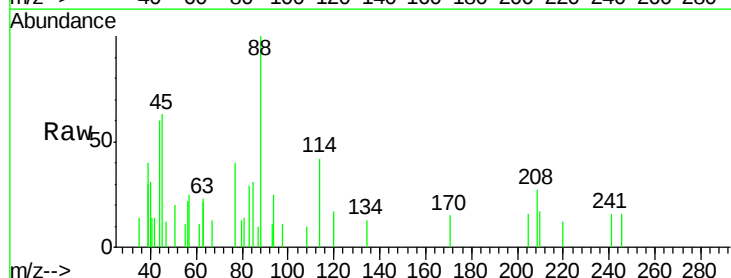
Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

43 0.0 0.0 0.0

57 0.0 0.0 0.0

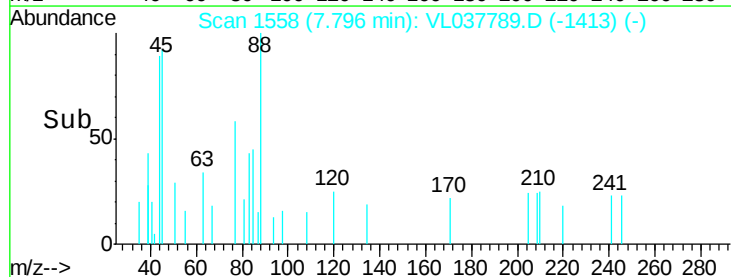
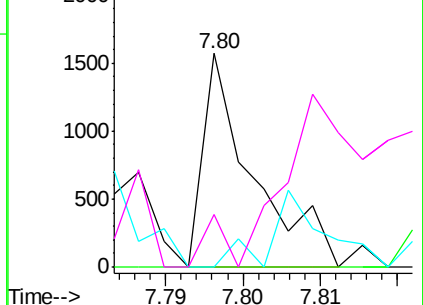


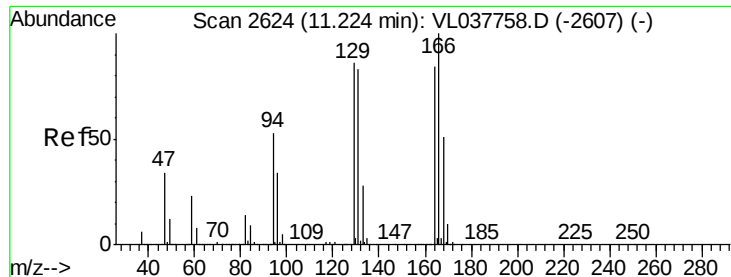
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#52

Tetrachloroethene

Concen: 0.056 ppbv

RT: 11.18 min Scan# 2611

Delta R.T. -0.04 min

Lab File: VL037789.D

Acq: 6 Oct 2021 1:08

Instrument :

MSVOA_L

ClientSampleId :

C0P25DL

Tgt Ion:164 Resp: 6795

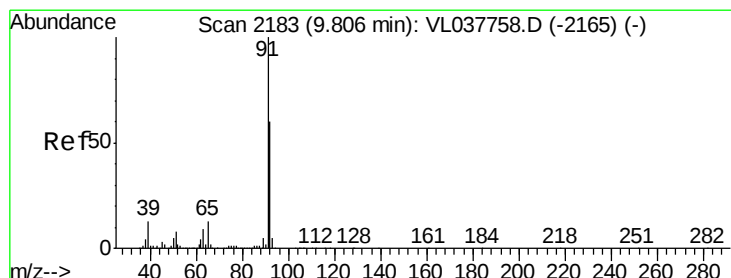
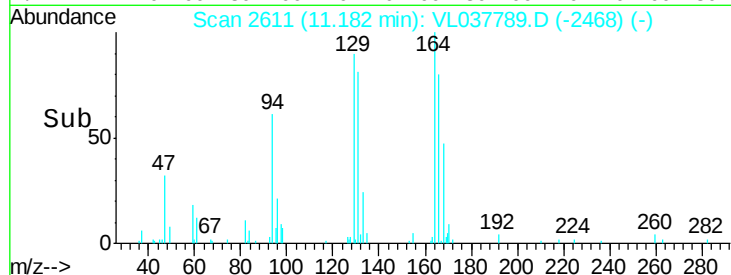
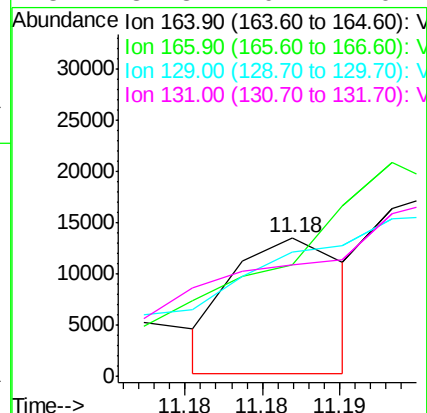
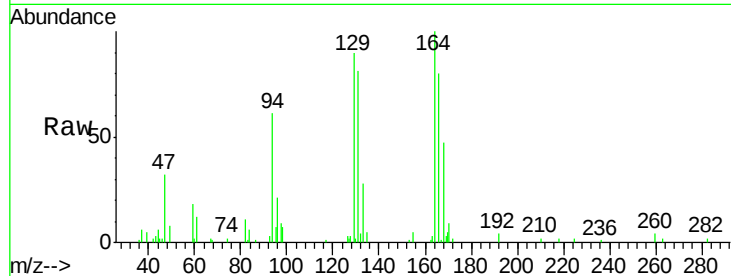
Ion Ratio Lower Upper

164 100

166 39.6 95.4 143.2#

129 57.6 82.2 123.4#

131 31.3 79.4 119.2#



#53

Toluene

Concen: 0.127 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.03 min

Lab File: VL037789.D

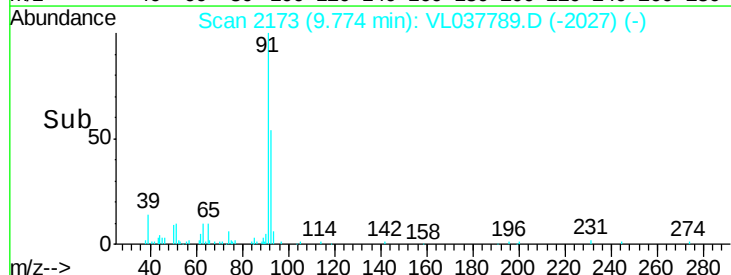
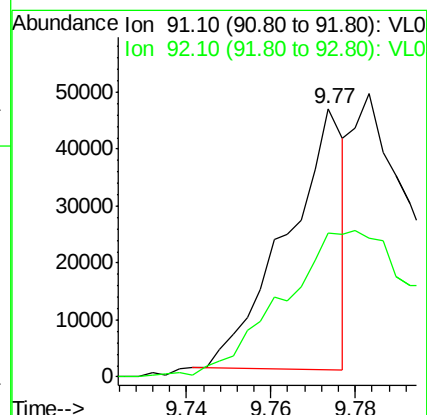
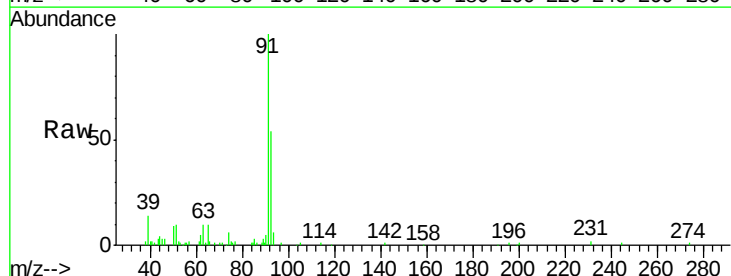
Acq: 6 Oct 2021 1:08

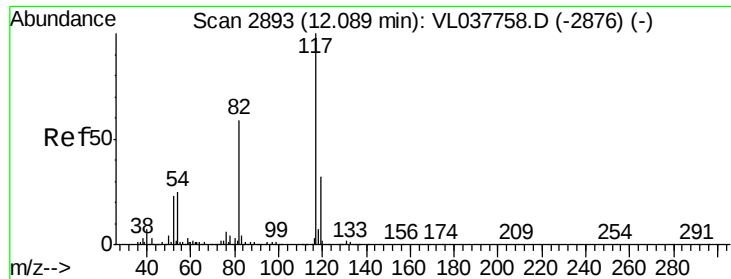
Tgt Ion: 91 Resp: 43632

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#

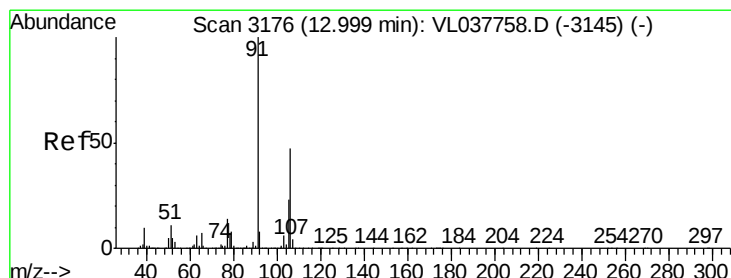
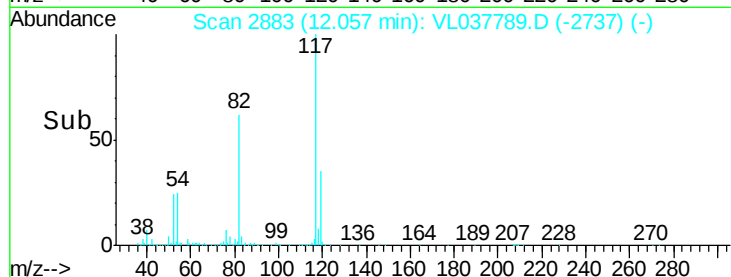
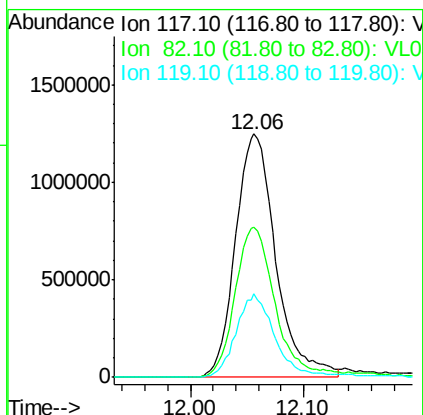
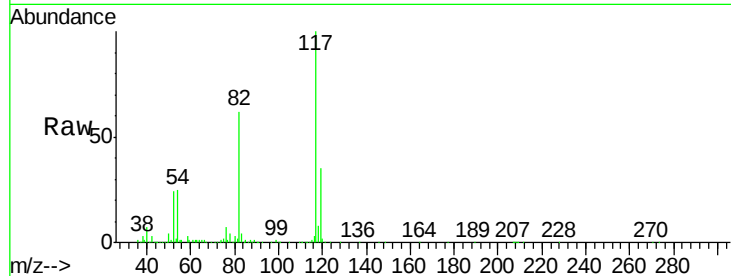




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2883
Delta R.T. -0.03 min
Lab File: VL037789.D
Acq: 6 Oct 2021 1:08

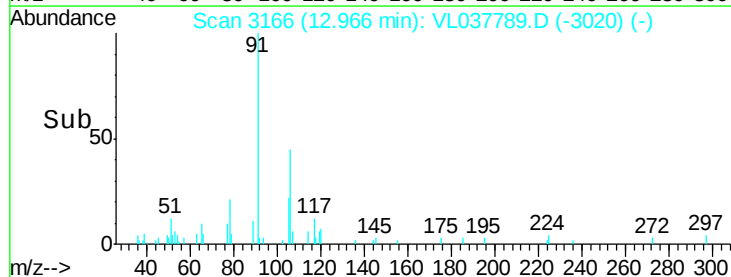
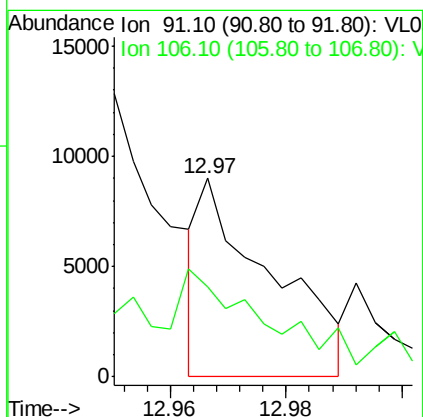
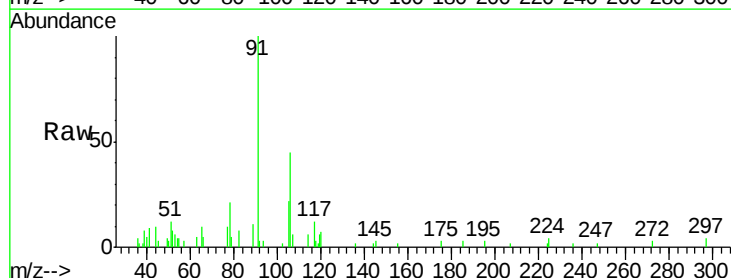
Instrument :
MSVOA_L
ClientSampleId :
C0P25DL

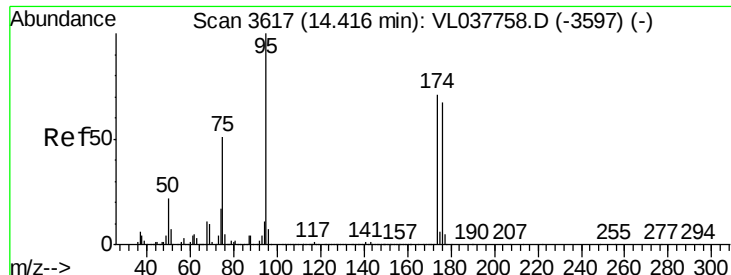
Tgt Ion:117 Resp: 3091614
Ion Ratio Lower Upper
117 100
82 64.5 52.2 78.2
119 34.0 26.0 39.0



#59
m/p-Xylene
Concen: 0.022 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.03 min
Lab File: VL037789.D
Acq: 6 Oct 2021 1:08

Tgt Ion: 91 Resp: 7705
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.855 ppbv
 RT: 14.38 min Scan# 3607
 Delta R.T. -0.03 min
 Lab File: VL037789.D
 Acq: 6 Oct 2021 1:08

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P25DL

Tgt Ion: 95 Resp: 2130658
 Ion Ratio Lower Upper
 95 100
 174 75.8 57.8 86.6
 175 5.5 4.7 7.1

