

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037811.D
 Acq On : 8 Oct 2021 00:59
 Operator : SY/AP
 Sample : M4079-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P45DL

Quant Time: Oct 08 10:08:21 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	1437095	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4155620	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3540346	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2505506	10.12	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

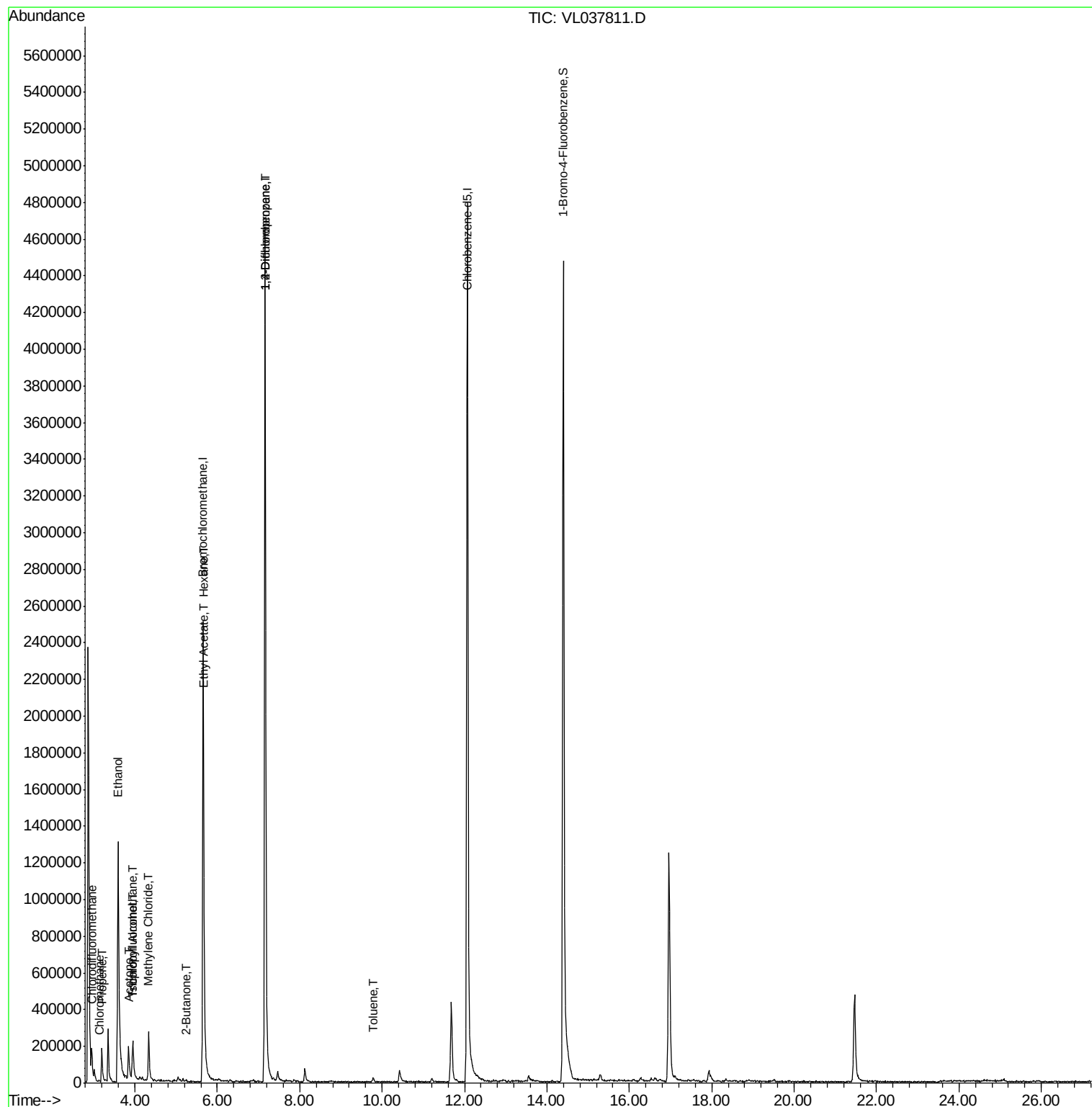
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.95	51	136669	0.495	ppbv #	61
4) Chloromethane	3.13	50	2869	0.028	ppbv #	39
9) Propene	3.20	41	58437	0.575	ppbv	86
11) Trichlorofluoromethane	3.94	101	109215	0.533	ppbv	90
13) Ethanol	3.59	45	1950631	234.763	ppbv	80
15) Acetone	3.84	43	215523	1.671	ppbv	95
19) Isopropyl Alcohol	3.95	45	128122	1.596	ppbv #	92
20) Methylene Chloride	4.33	84	99229	1.522	ppbv #	92
25) Ethyl Acetate	5.67	43	46739	0.129	ppbv #	85
26) Hexane	5.67	57	54710	0.307	ppbv #	48
34) 2-Butanone	5.24	43	4668	0.028	ppbv #	53
39) 1,2-Dichloropropane	7.16	63	974690	7.300	ppbv #	27
53) Toluene	9.78	91	10592	0.027	ppbv #	20

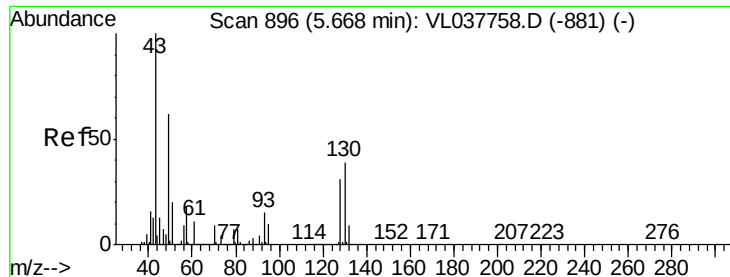
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037811.D

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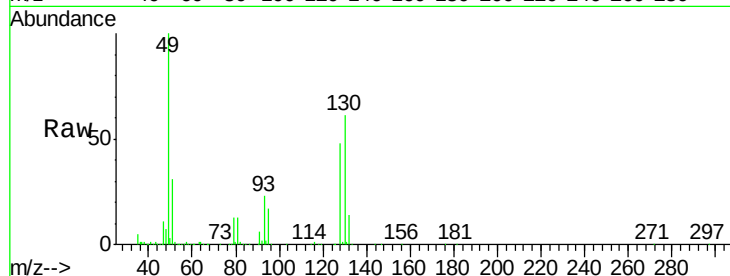
Tgt Ion: 49 Resp: 1437095

Ion Ratio Lower Upper

49 100

128 53.0 27.1 81.3

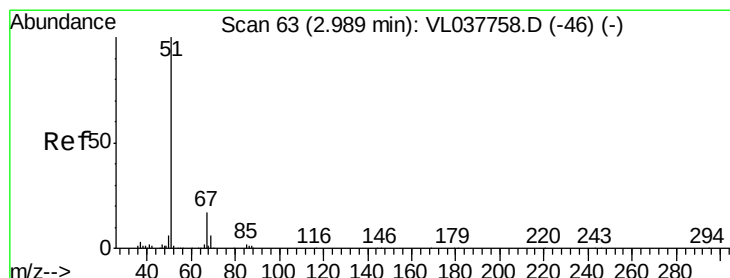
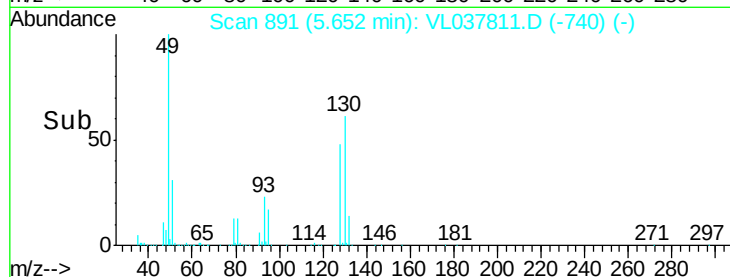
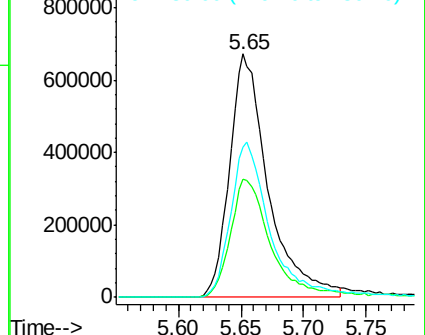
130 67.1 33.2 99.6



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



#3

Chlorodifluoromethane

Concen: 0.495 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.04 min

Lab File: VL037811.D

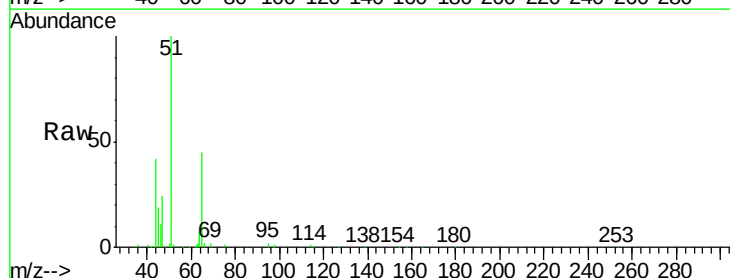
Acq: 8 Oct 2021 00:59

Tgt Ion: 51 Resp: 136669

Ion Ratio Lower Upper

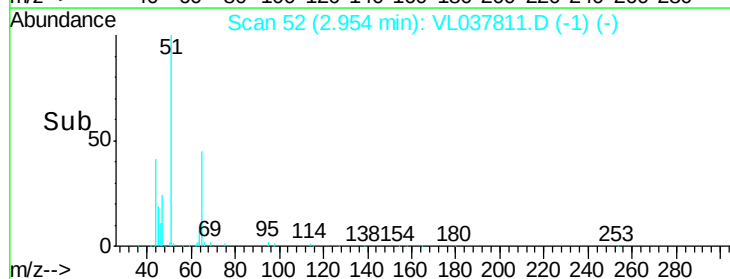
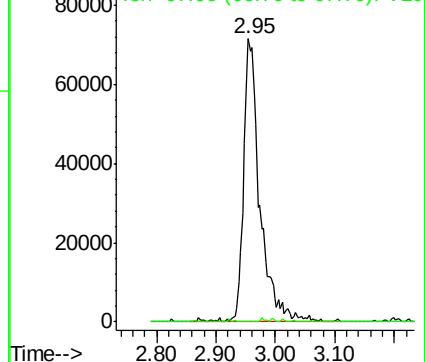
51 100

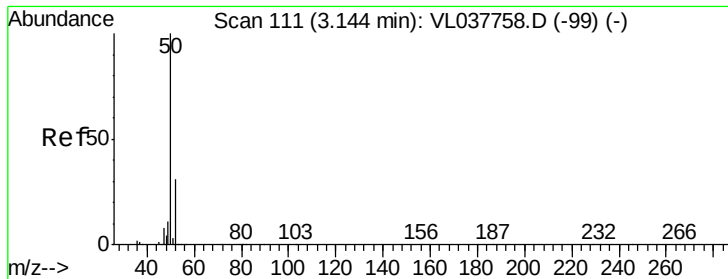
67 0.1 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.028 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037811.D

Acq: 8 Oct 2021 00:59

Instrument :

MSVOA_L

ClientSampleId :

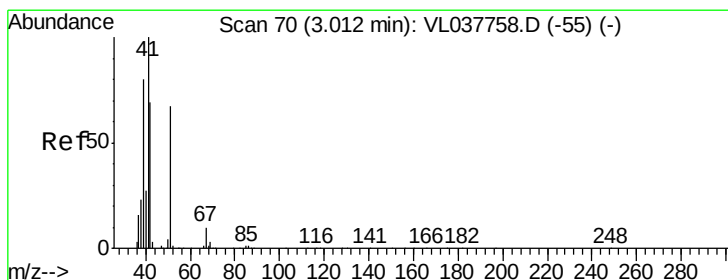
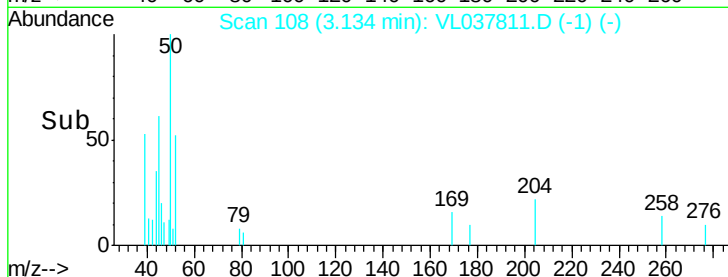
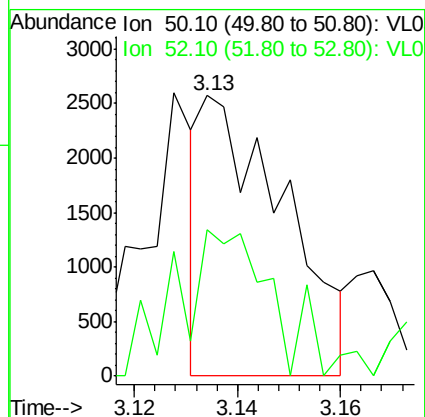
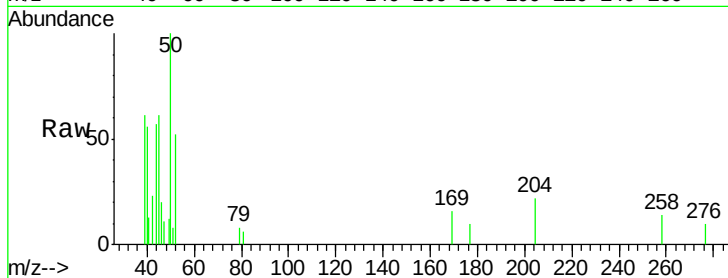
C0P45DL

Tgt Ion: 50 Resp: 2869

Ion Ratio Lower Upper

50 100

52 63.8 24.4 36.6#



#9

Propene

Concen: 0.575 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.18 min

Lab File: VL037811.D

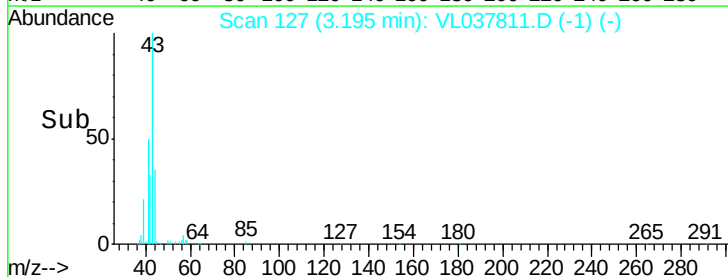
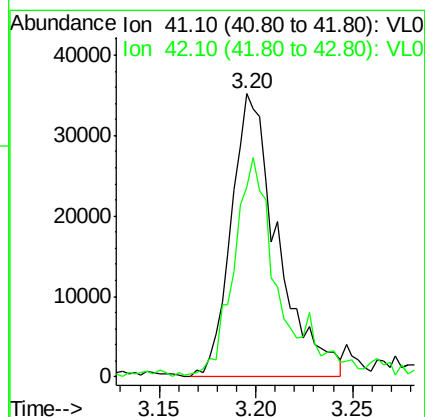
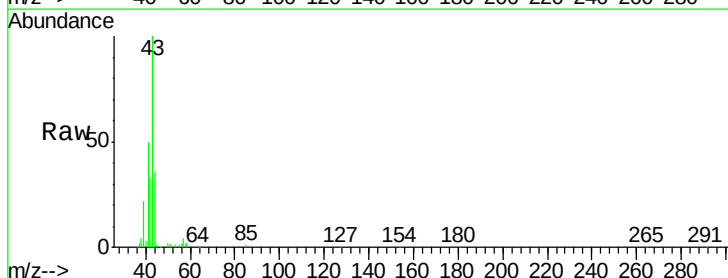
Acq: 8 Oct 2021 00:59

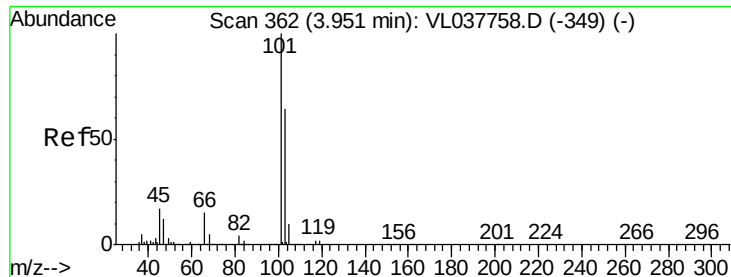
Tgt Ion: 41 Resp: 58437

Ion Ratio Lower Upper

41 100

42 78.8 54.2 81.2

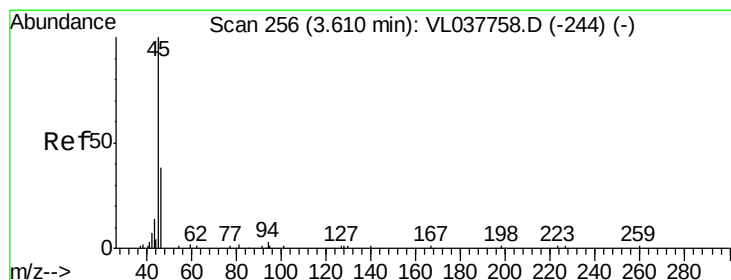
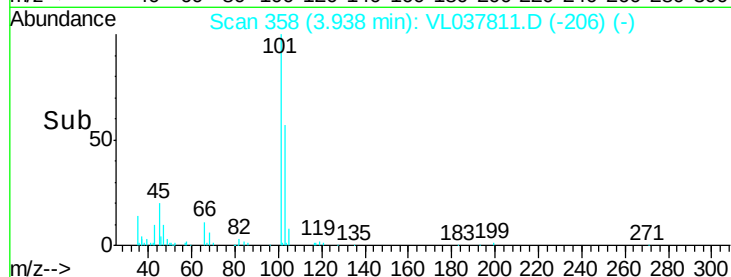
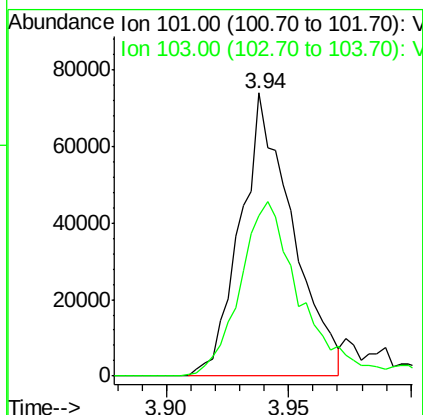
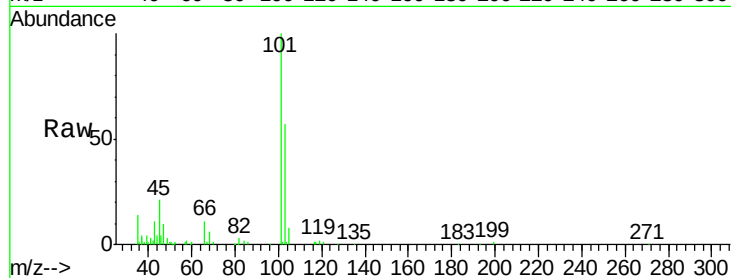




#11
 Trichlorofluoromethane
 Concen: 0.533 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.01 min
 Lab File: VL037811.D
 Acq: 8 Oct 2021 00:59

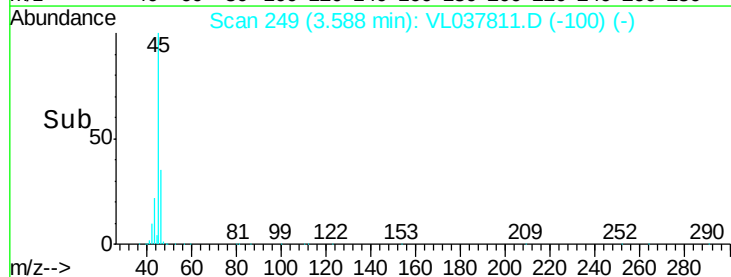
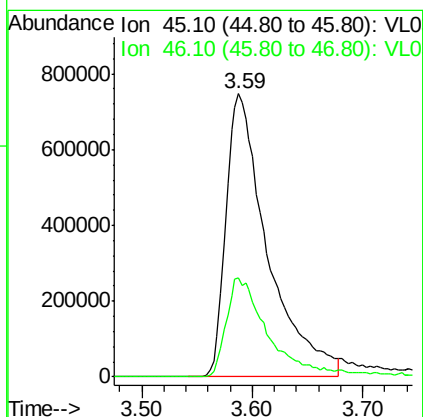
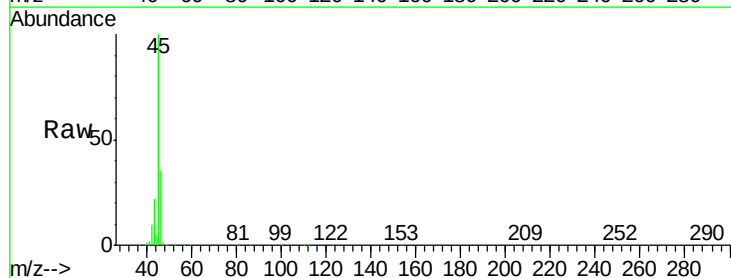
Instrument :
 MSVOA_L
 ClientSampleId :
 C0P45DL

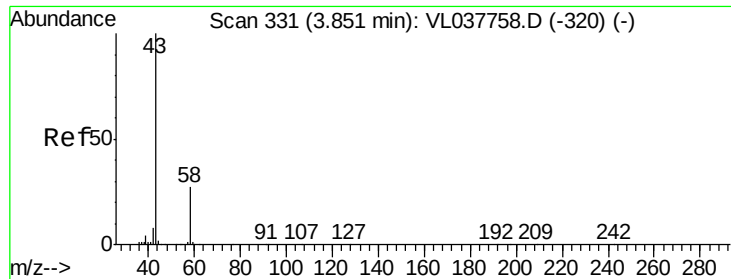
Tgt Ion: 101 Resp: 109215
 Ion Ratio Lower Upper
 101 100
 103 56.4 51.5 77.3



#13
 Ethanol
 Concen: 234.763 ppbv
 RT: 3.59 min Scan# 249
 Delta R.T. -0.02 min
 Lab File: VL037811.D
 Acq: 8 Oct 2021 00:59

Tgt Ion: 45 Resp: 1950631
 Ion Ratio Lower Upper
 45 100
 46 36.6 20.2 81.0





#15

Acetone

Concen: 1.671 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL037811.D

Acq: 8 Oct 2021 00:59

Instrument :

MSVOA_L

ClientSampleId :

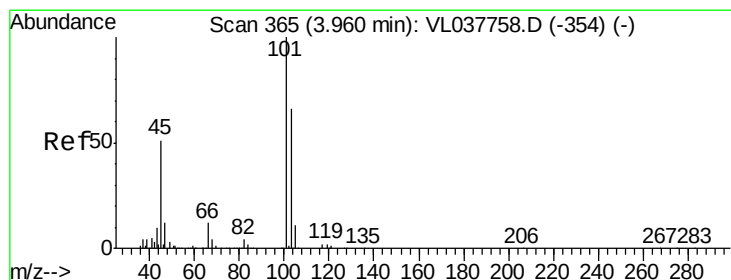
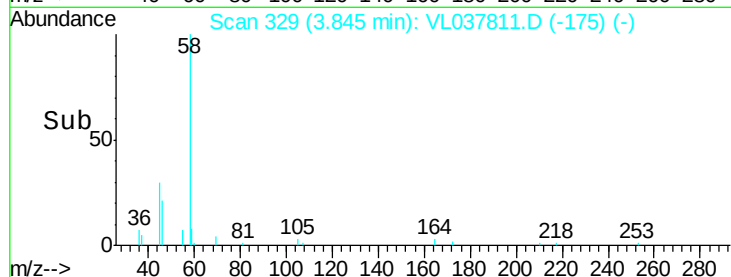
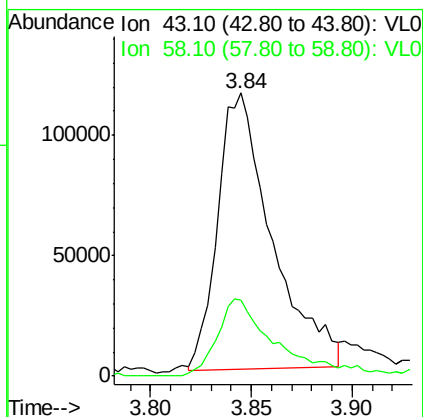
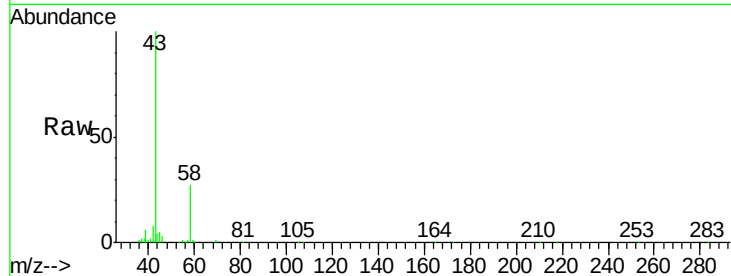
C0P45DL

Tgt Ion: 43 Resp: 215523

Ion Ratio Lower Upper

43 100

58 31.3 23.0 34.6



#19

Isopropyl Alcohol

Concen: 1.596 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL037811.D

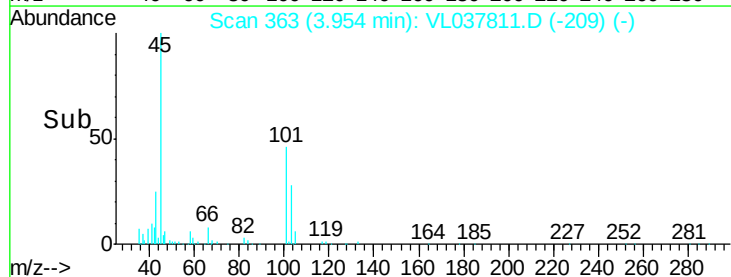
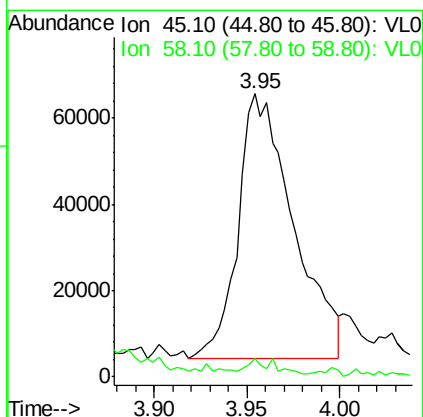
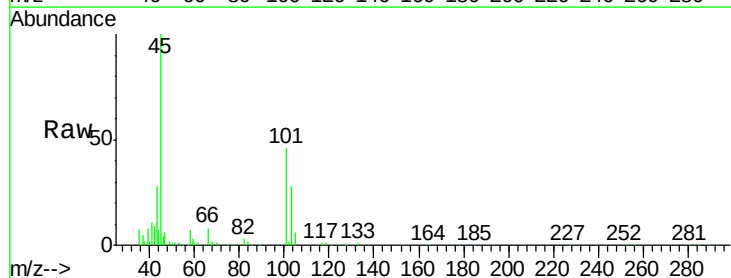
Acq: 8 Oct 2021 00:59

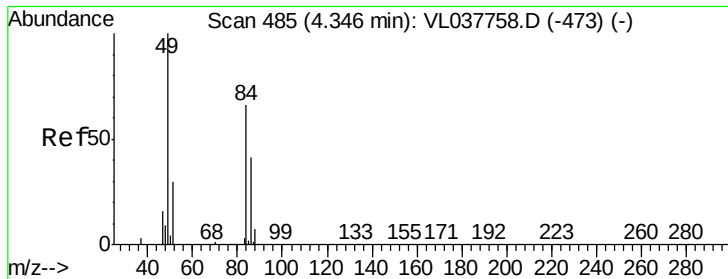
Tgt Ion: 45 Resp: 128122

Ion Ratio Lower Upper

45 100

58 4.7 1.1 1.7#

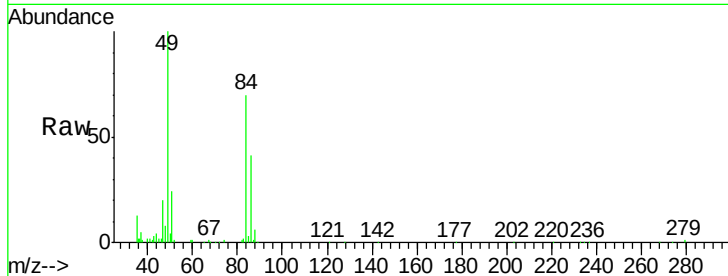




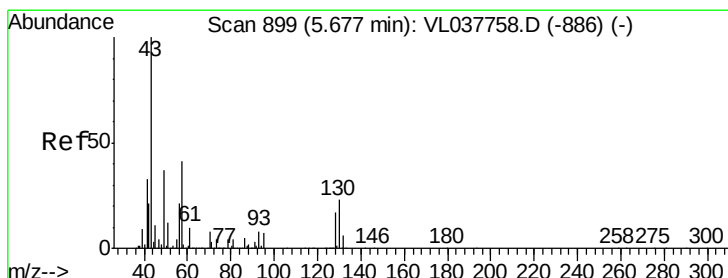
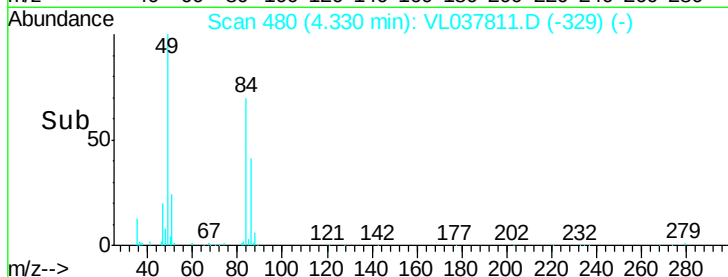
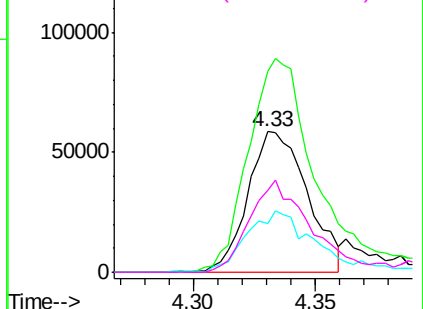
#20
Methylene Chloride
Concen: 1.522 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.02 min
Lab File: VL037811.D
Acq: 8 Oct 2021 00:59

Instrument :
MSVOA_L
ClientSampleId :
C0P45DL

Tgt Ion: 84 Resp: 99229
Ion Ratio Lower Upper
84 100
49 143.5 120.7 181.1
51 33.8 36.2 54.4#
86 58.7 49.6 74.4

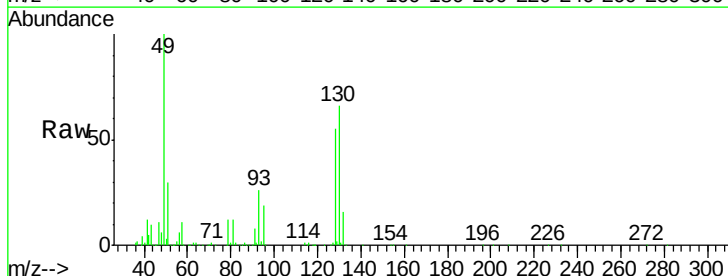


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

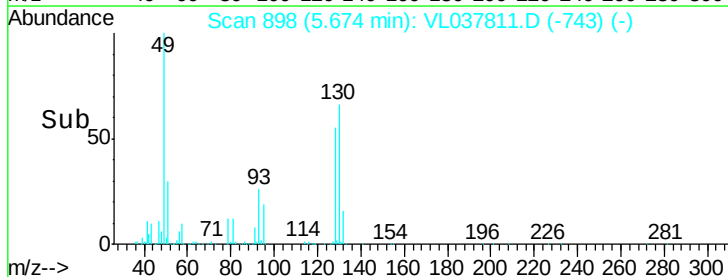
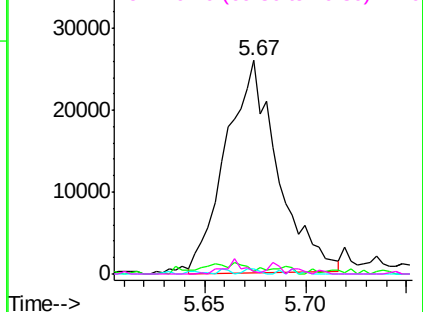


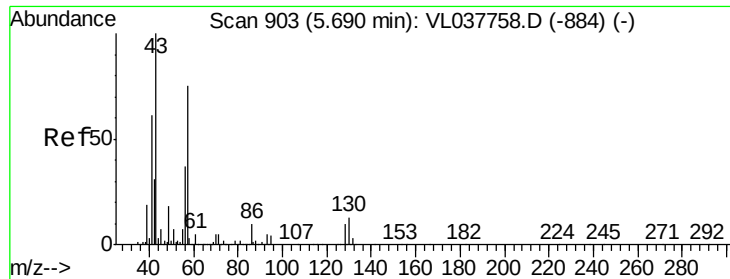
#25
Ethyl Acetate
Concen: 0.129 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL037811.D
Acq: 8 Oct 2021 00:59

Tgt Ion: 43 Resp: 46739
Ion Ratio Lower Upper
43 100
45 5.6 8.1 12.1#
61 1.2 7.5 11.3#
70 4.6 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

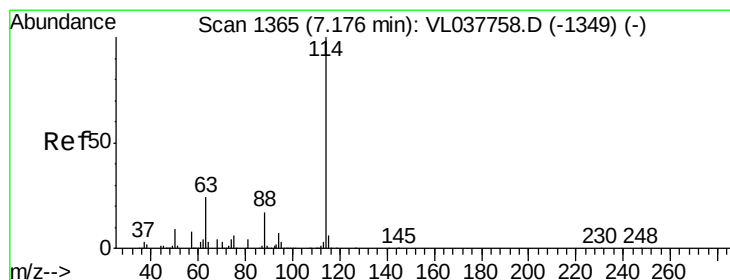
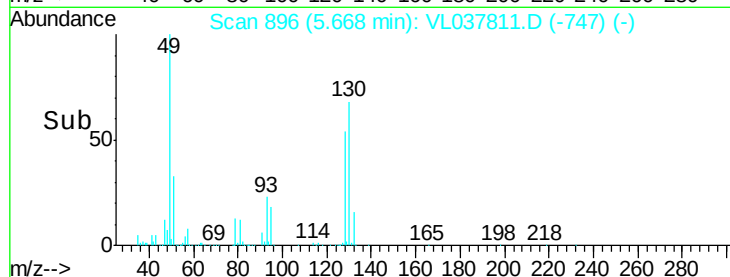
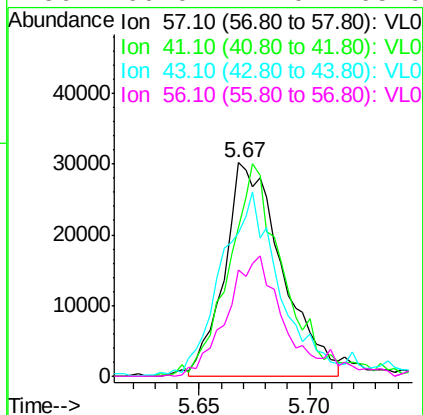
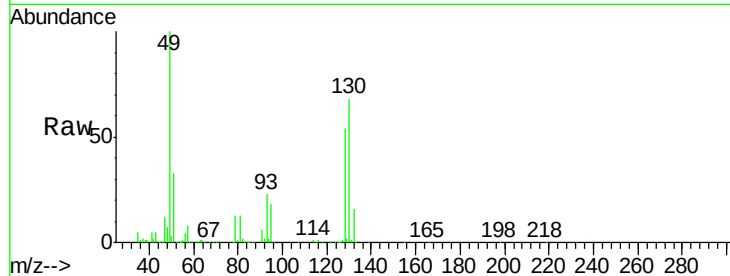




#26
Hexane
Concen: 0.307 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL037811.D
Acq: 8 Oct 2021 00:59

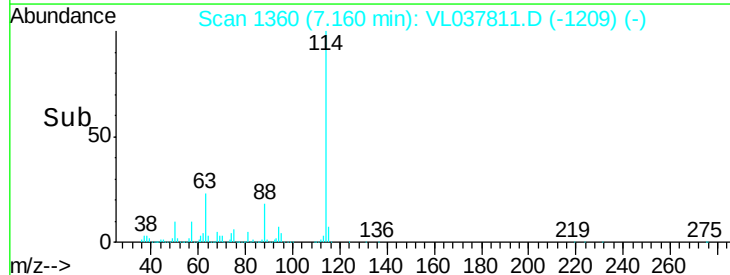
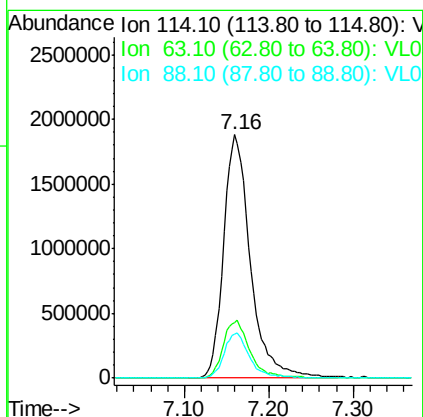
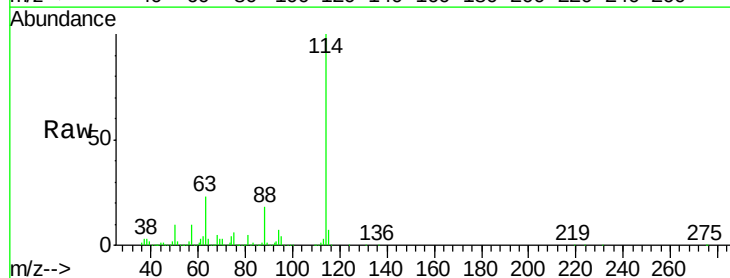
Instrument :
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C0P45DL

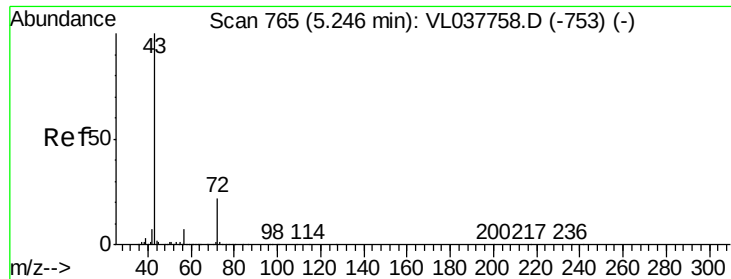
Tgt Ion: 57 Resp: 54710
Ion Ratio Lower Upper
57 100
41 97.8 69.6 104.4
43 90.0 171.4 257.0#
56 60.0 42.0 63.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.02 min
Lab File: VL037811.D
Acq: 8 Oct 2021 00:59

Tgt Ion: 114 Resp: 4155620
Ion Ratio Lower Upper
114 100
63 23.8 19.4 29.2
88 18.0 14.4 21.6





#34

2-Butanone

Concen: 0.028 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.01 min

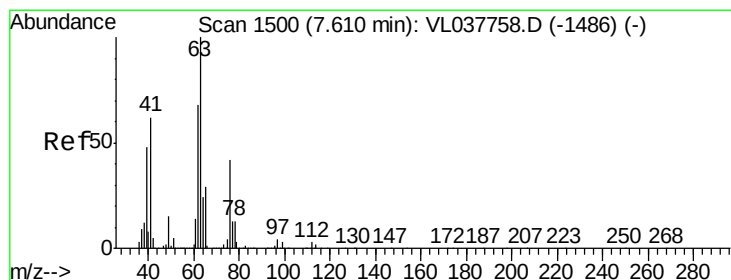
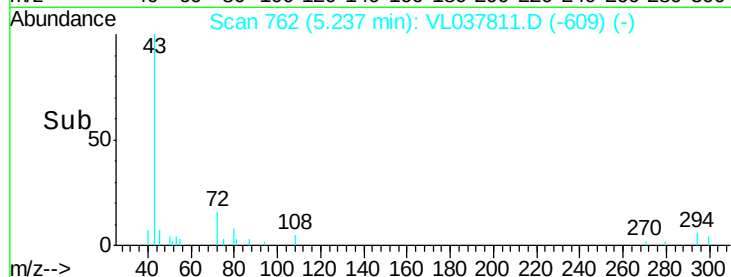
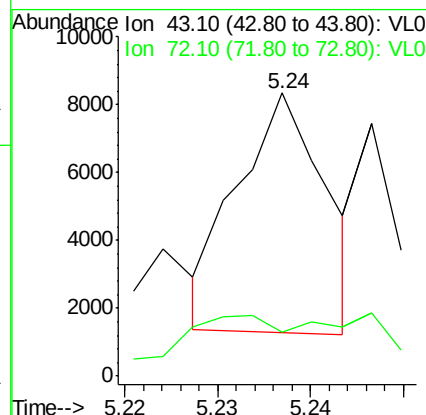
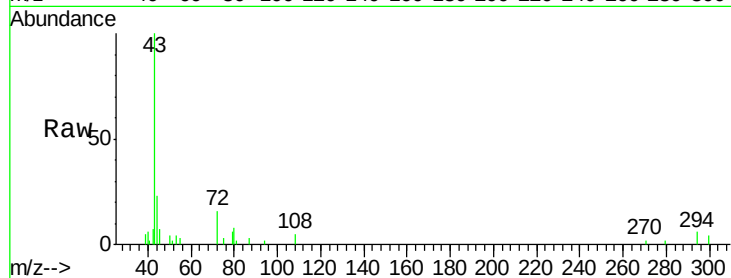
Lab File: VL037811.D

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C0P45DL

Tgt Ion: 43 Resp: 4668

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#



#39

1,2-Dichloropropane

Concen: 7.300 ppbv

RT: 7.16 min Scan# 1361

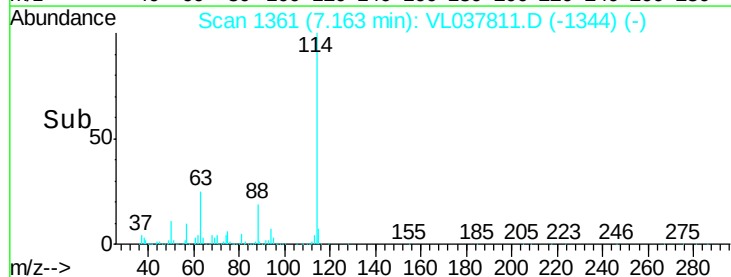
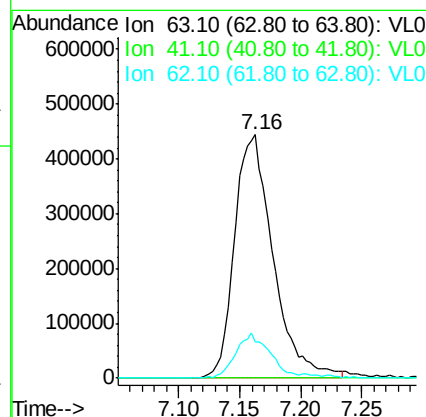
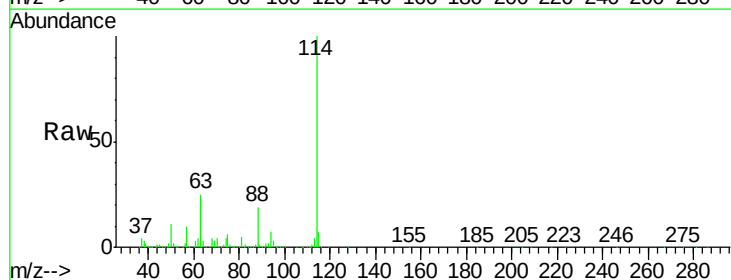
Delta R.T. -0.45 min

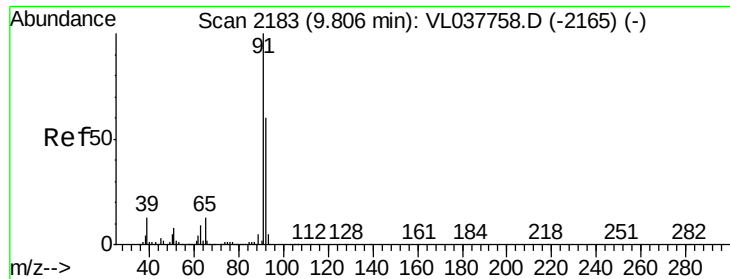
Lab File: VL037811.D

Acq: 8 Oct 2021 00:59

Tgt Ion: 63 Resp: 974690

Ion	Ratio	Lower	Upper
63	100		
41	0.4	49.8	74.6#
62	14.8	54.6	82.0#





#53

Toluene

Concen: 0.027 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL037811.D

Acq: 8 Oct 2021 00:59

Instrument :

MSVOA_L

ClientSampleId :

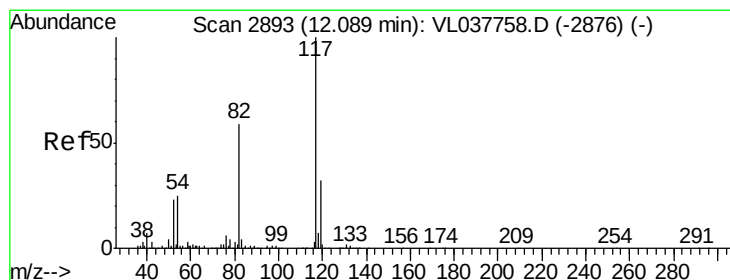
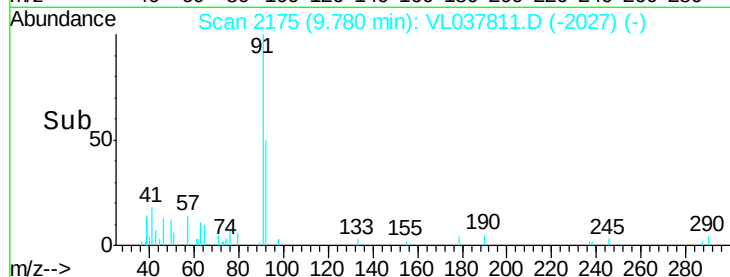
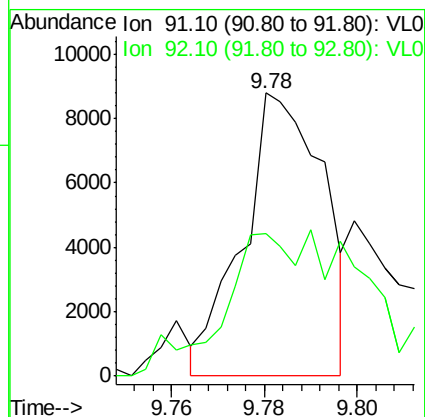
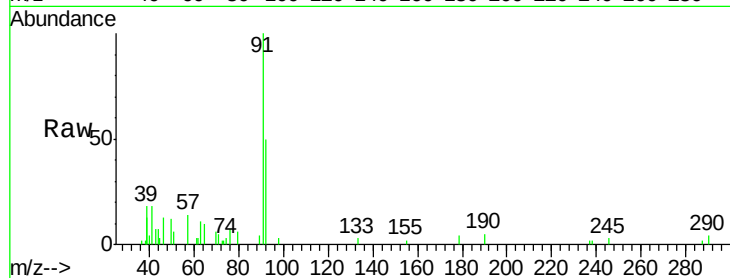
C0P45DL

Tgt Ion: 91 Resp: 10592

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.02 min

Lab File: VL037811.D

Acq: 8 Oct 2021 00:59

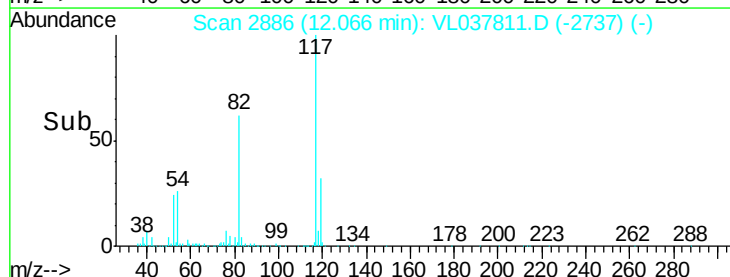
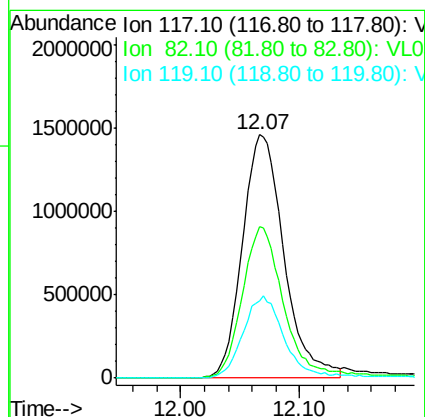
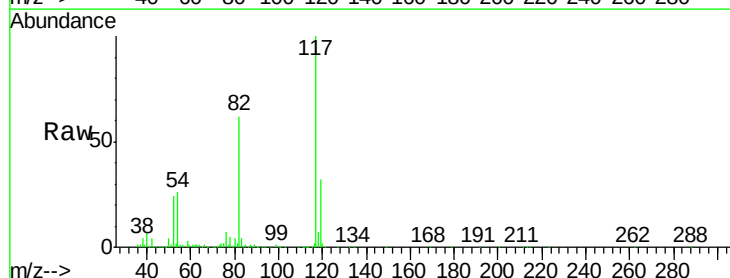
Tgt Ion: 117 Resp: 3540346

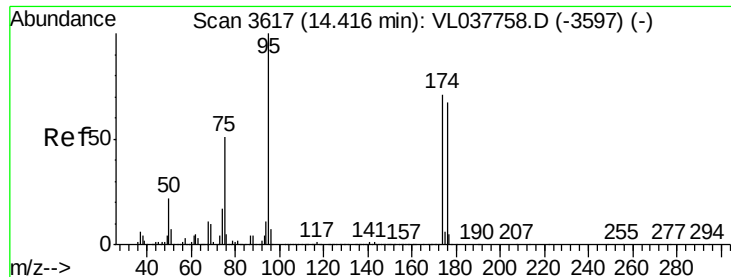
Ion Ratio Lower Upper

117 100

82 63.9 52.2 78.2

119 34.5 26.0 39.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.120 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL037811.D
 Acq: 8 Oct 2021 00:59

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P45DL

Tgt Ion: 95 Resp: 2505506
 Ion Ratio Lower Upper
 95 100
 174 73.4 57.8 86.6
 175 5.3 4.7 7.1

