

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100121\
 Data File : VL037747.D
 Acq On : 1 Oct 2021 18:40
 Operator : SY/AP
 Sample : M4012-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P21DL

Quant Time: Oct 02 01:35:07 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1526075	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4309187	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3661000	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2594525	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

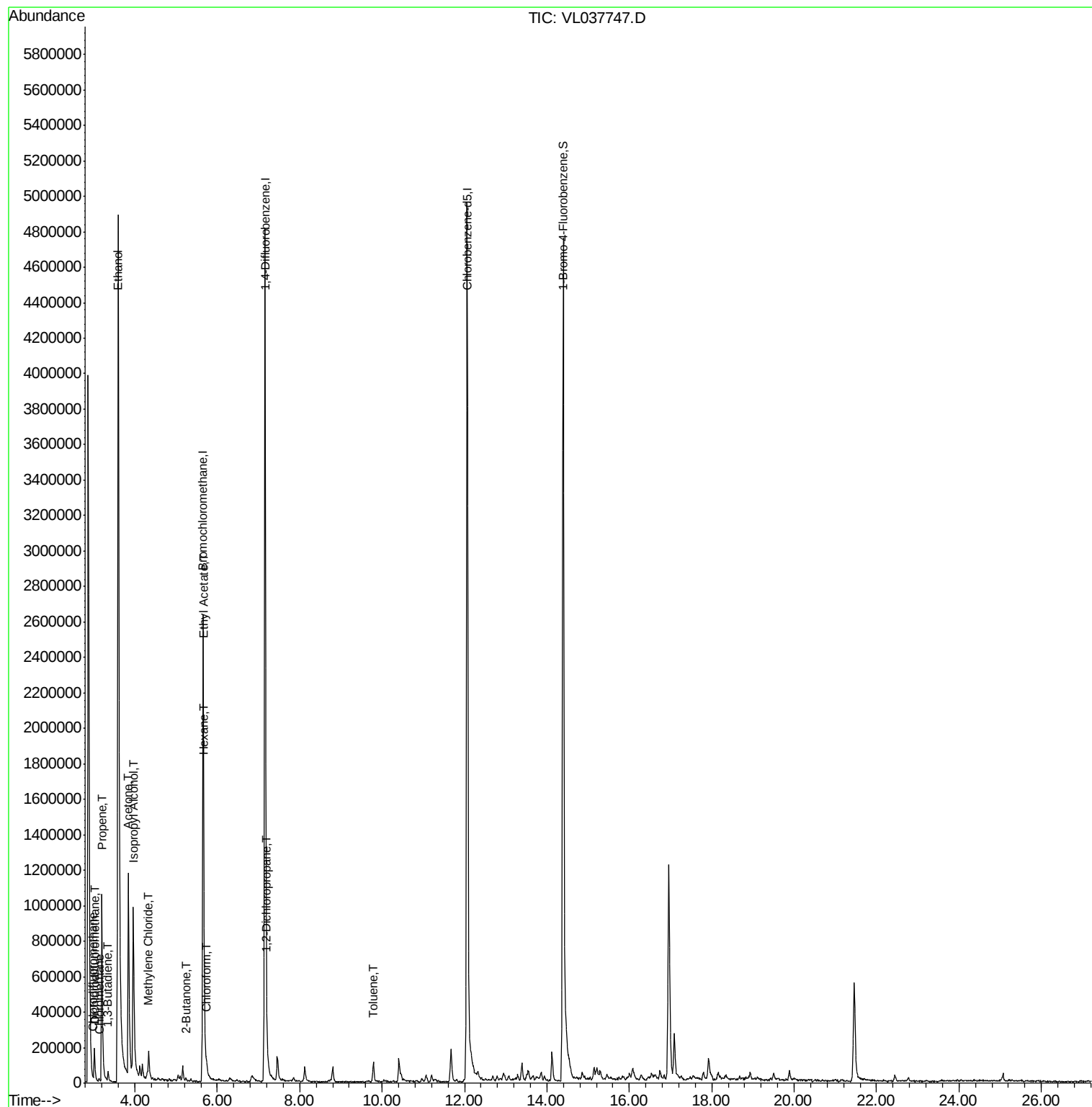
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	9887	0.036	ppbv	99
3) Chlorodifluoromethane	2.98	51	12275	0.043	ppbv #	86
4) Chloromethane	3.13	50	5305	0.050	ppbv #	41
9) Propene	3.20	41	351102	3.458	ppbv	98
13) Ethanol	3.59	45	7339424	738.982	ppbv	91
15) Acetone	3.84	43	1478162	9.323	ppbv	96
16) 1,3-Butadiene	3.35	39	7017	0.071	ppbv #	24
19) Isopropyl Alcohol	3.96	45	1302390	15.096	ppbv #	96
20) Methylene Chloride	4.33	84	56803	0.750	ppbv	89
25) Ethyl Acetate	5.67	43	50022	0.130	ppbv #	90
26) Hexane	5.68	57	16257	0.089	ppbv #	36
29) Chloroform	5.74	83	20358	0.076	ppbv	95
34) 2-Butanone	5.23	43	9607	0.055	ppbv #	53
39) 1,2-Dichloropropane	7.21	63	19470	0.141	ppbv #	25
53) Toluene	9.78	91	83214	0.208	ppbv	98

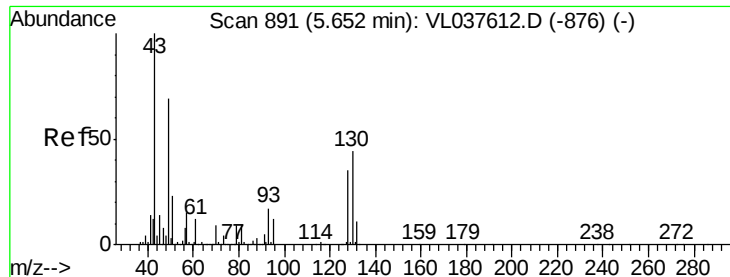
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037747.D

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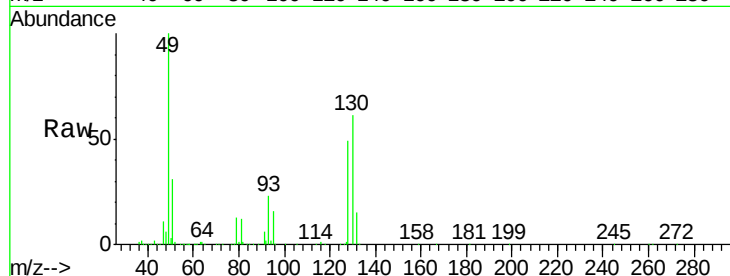
Tgt Ion: 49 Resp: 1526075

Ion Ratio Lower Upper

49 100

128 52.3 27.9 83.6

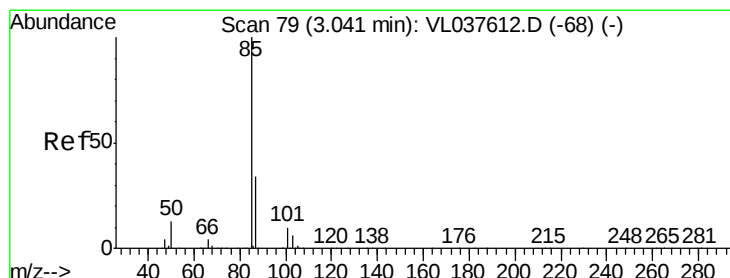
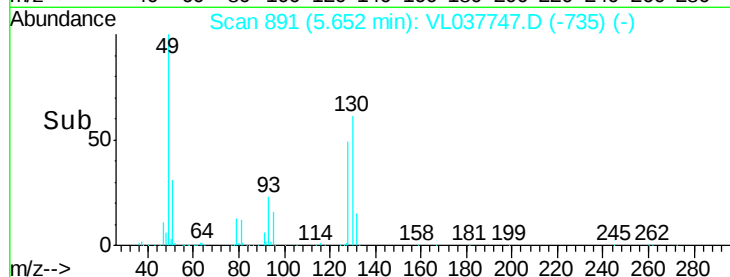
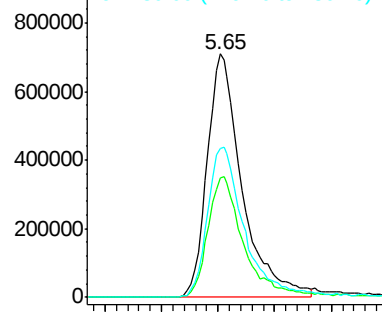
130 66.6 33.9 101.7



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: 0.036 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL037747.D

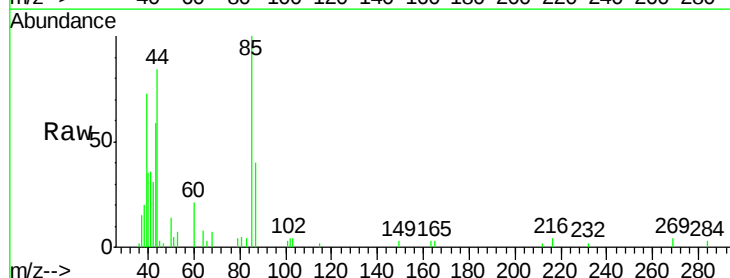
Acq: 1 Oct 2021 18:40

Tgt Ion: 85 Resp: 9887

Ion Ratio Lower Upper

85 100

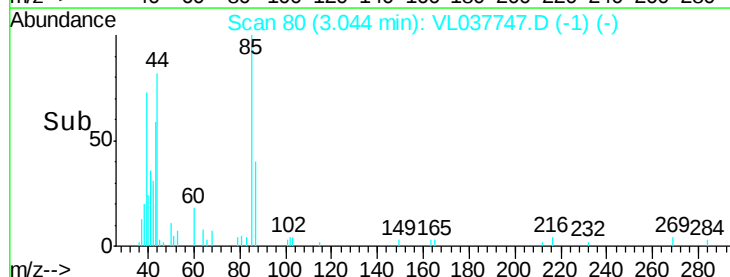
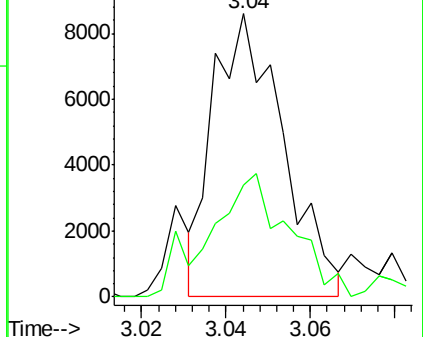
87 34.3 26.8 40.2

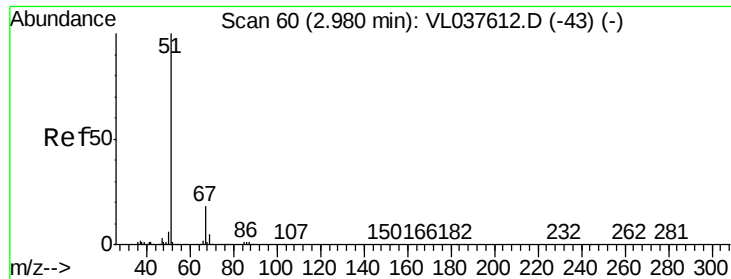


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

10000





#3

Chlorodifluoromethane

Concen: 0.043 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.00 min

Lab File: VL037747.D

Acq: 1 Oct 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

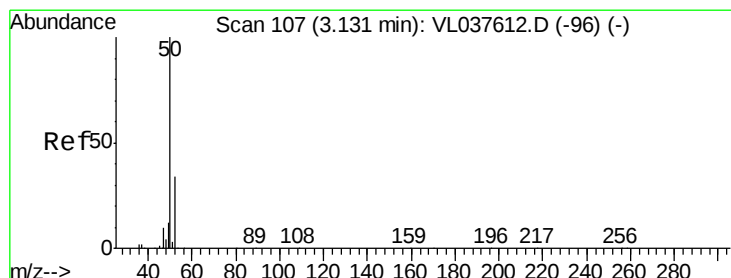
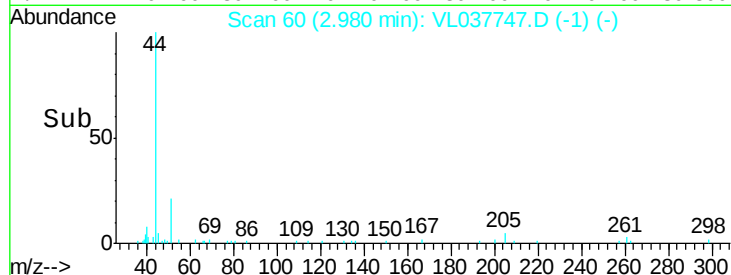
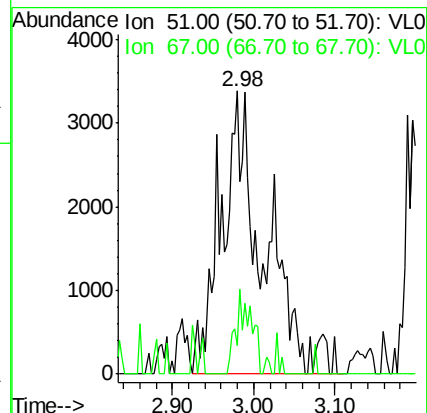
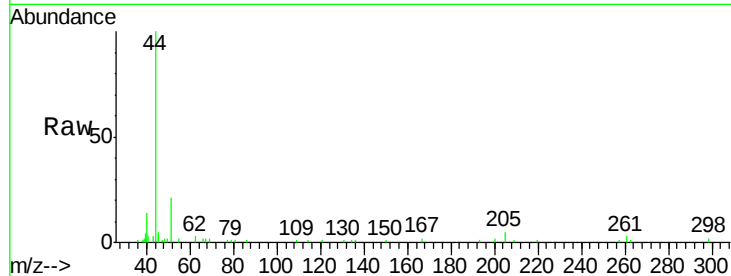
C0P21DL

Tgt Ion: 51 Resp: 12275

Ion Ratio Lower Upper

51 100

67 11.5 14.0 21.0#



#4

Chloromethane

Concen: 0.050 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037747.D

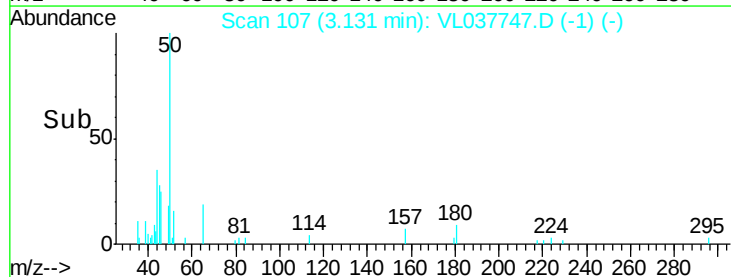
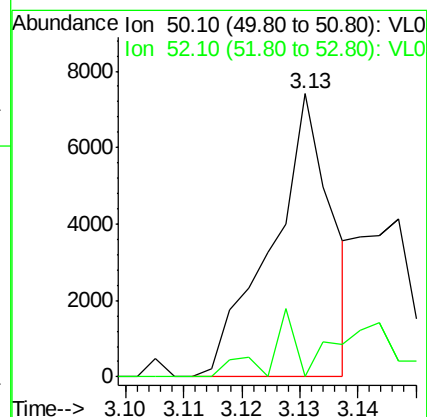
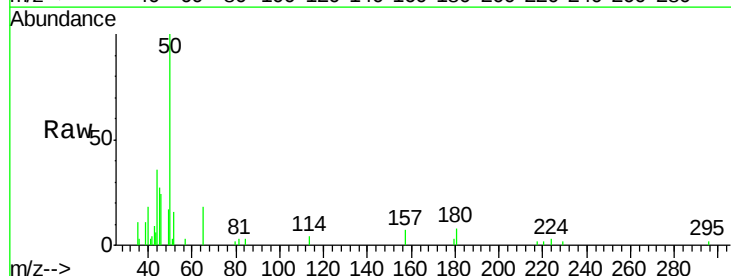
Acq: 1 Oct 2021 18:40

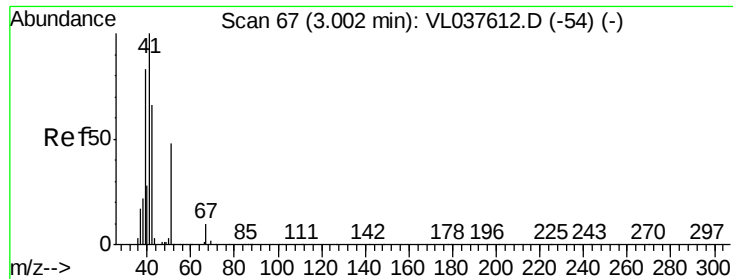
Tgt Ion: 50 Resp: 5305

Ion Ratio Lower Upper

50 100

52 0.0 27.1 40.7#





#9

Propene

Concen: 3.458 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.20 min

Lab File: VL037747.D

Acq: 1 Oct 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

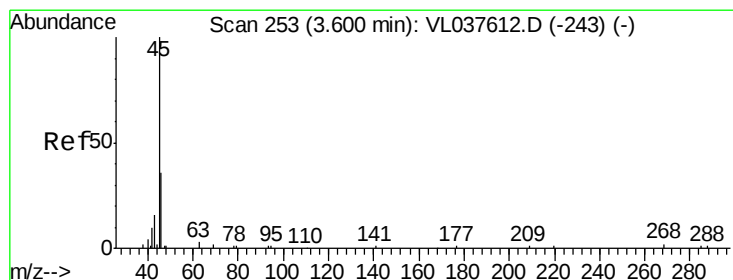
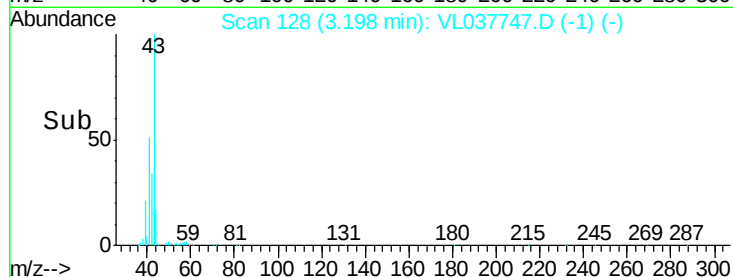
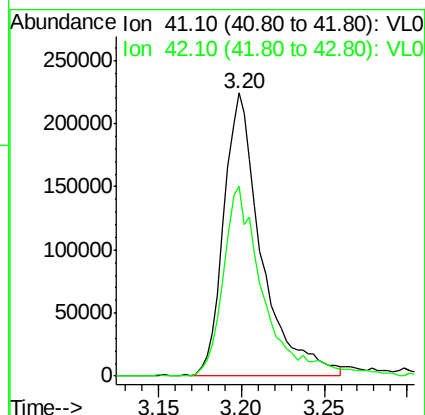
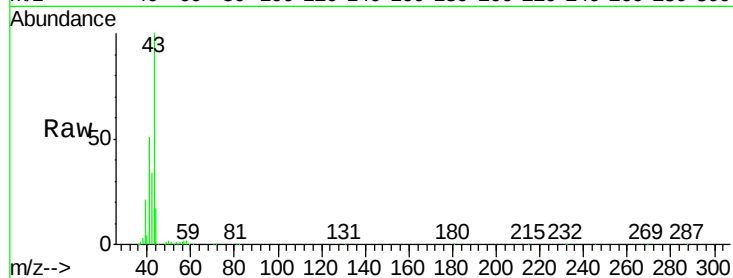
C0P21DL

Tgt Ion: 41 Resp: 351102

Ion Ratio Lower Upper

41 100

42 73.4 57.2 85.8



#13

Ethanol

Concen: 738.982 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL037747.D

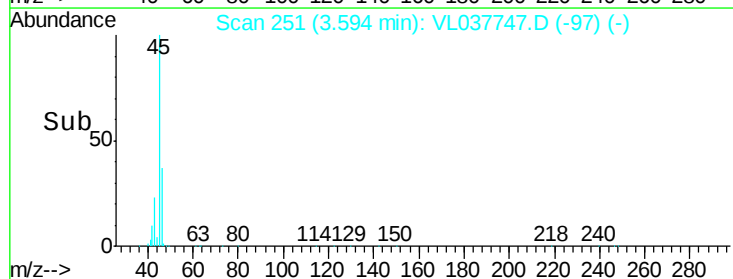
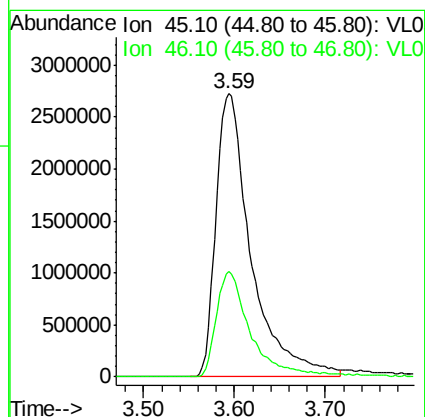
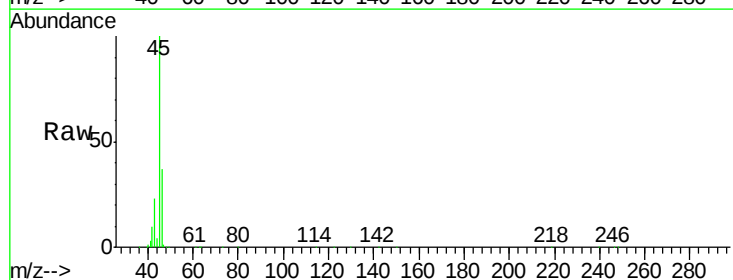
Acq: 1 Oct 2021 18:40

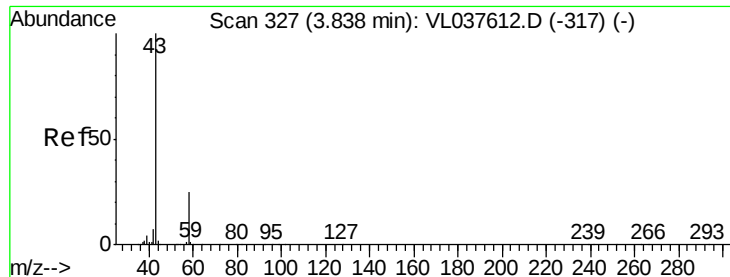
Tgt Ion: 45 Resp: 7339424

Ion Ratio Lower Upper

45 100

46 37.1 17.2 68.8

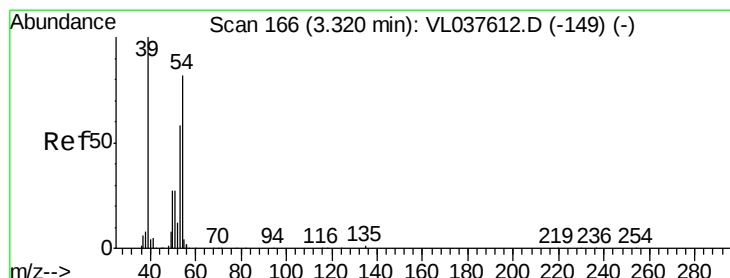
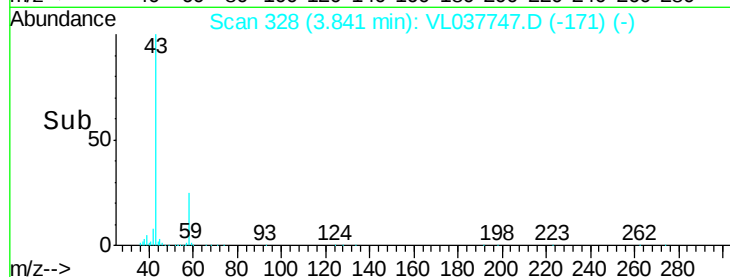
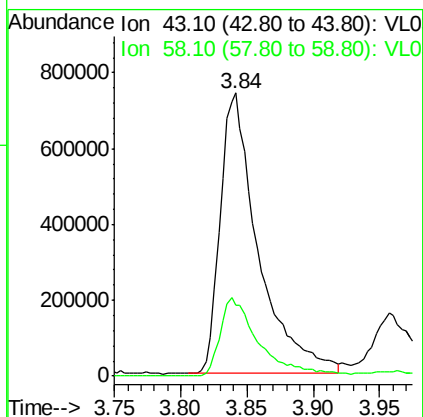
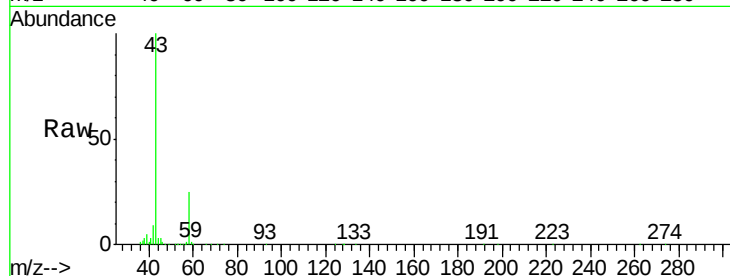




#15
Acetone
Concen: 9.323 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

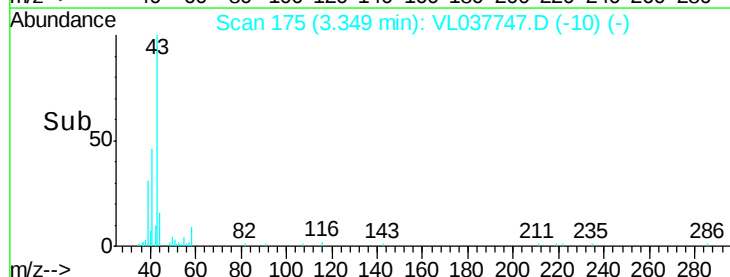
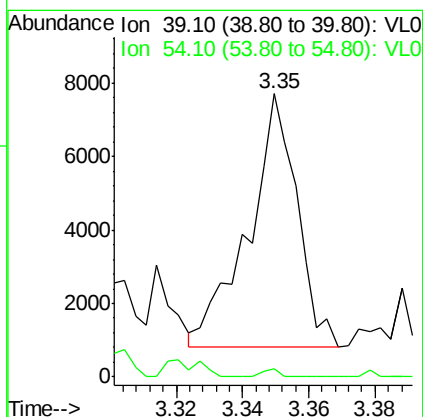
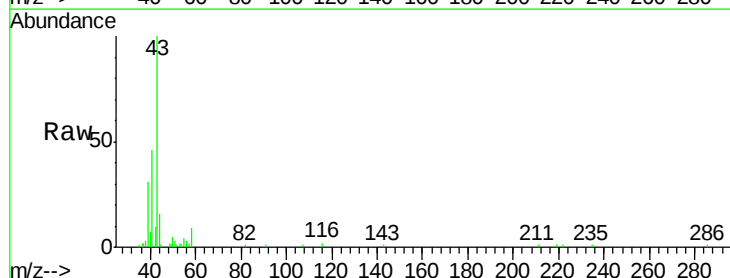
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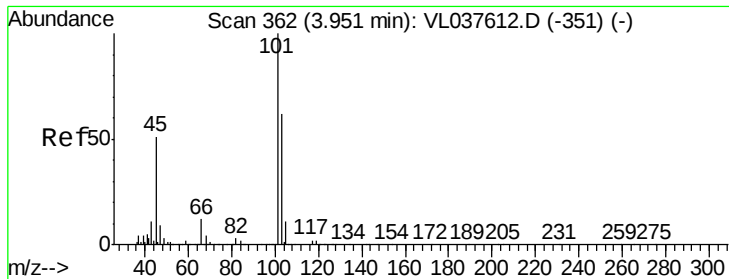
Tgt Ion: 43 Resp: 1478162
Ion Ratio Lower Upper
43 100
58 28.8 24.9 37.3



#16
1,3-Butadiene
Concen: 0.071 ppbv
RT: 3.35 min Scan# 175
Delta R.T. 0.03 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

Tgt Ion: 39 Resp: 7017
Ion Ratio Lower Upper
39 100
54 12.3 62.6 93.8#

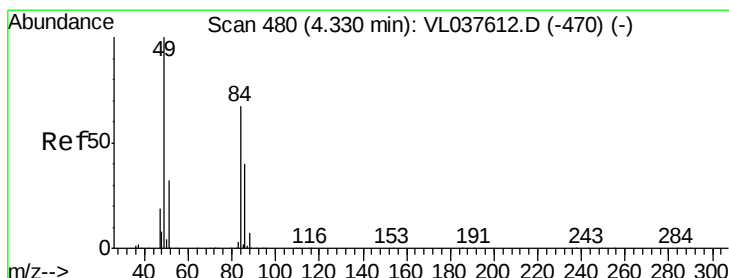
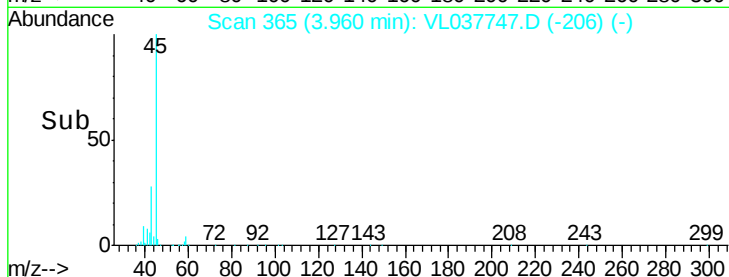
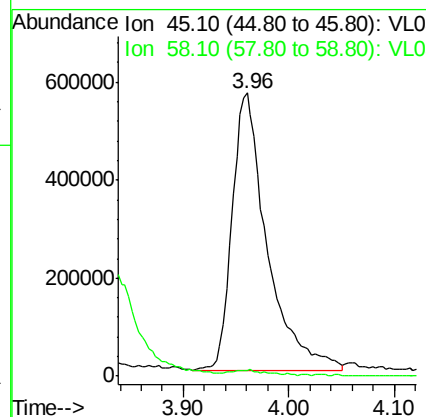
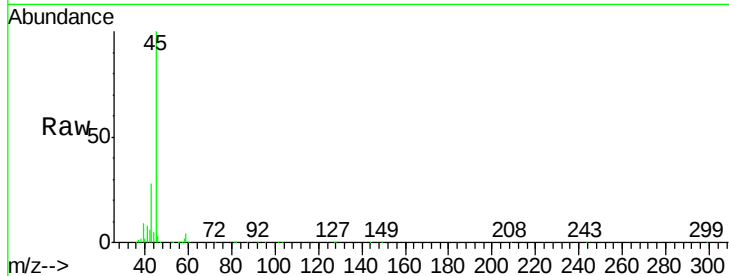




#19
Isopropyl Alcohol
Concen: 15.096 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

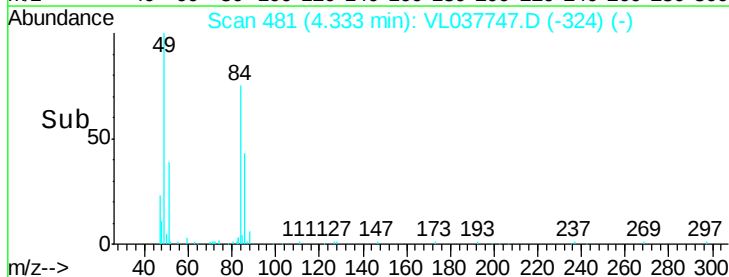
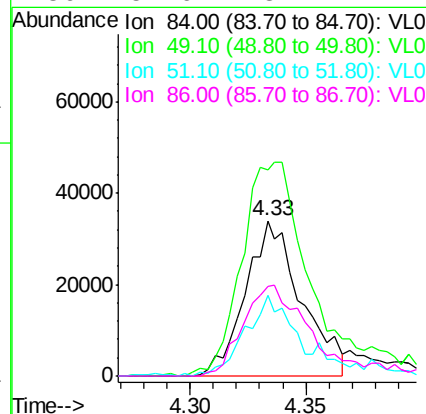
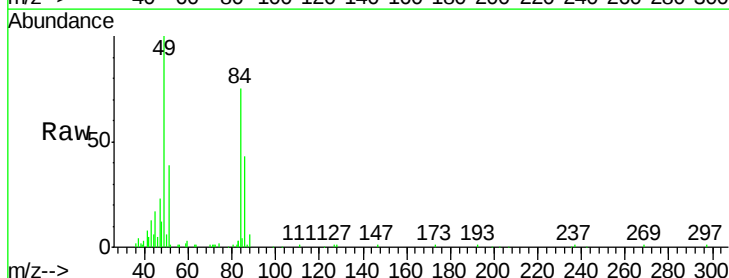
Instrument :
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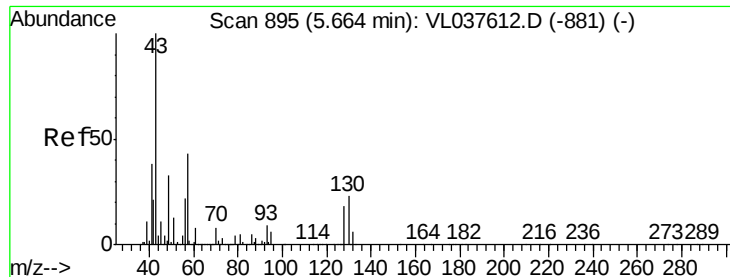
Tgt Ion: 45 Resp: 1302390
Ion Ratio Lower Upper
45 100
58 2.4 2.9 4.3#



#20
Methylene Chloride
Concen: 0.750 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

Tgt Ion: 84 Resp: 56803
Ion Ratio Lower Upper
84 100
49 130.9 120.0 180.0
51 51.9 38.0 57.0
86 57.6 48.2 72.2

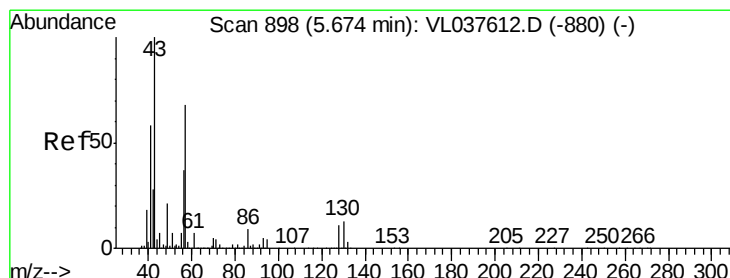
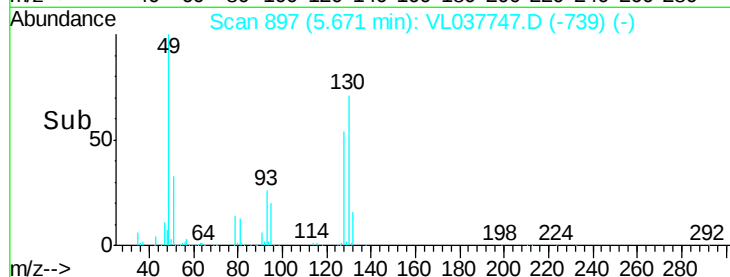
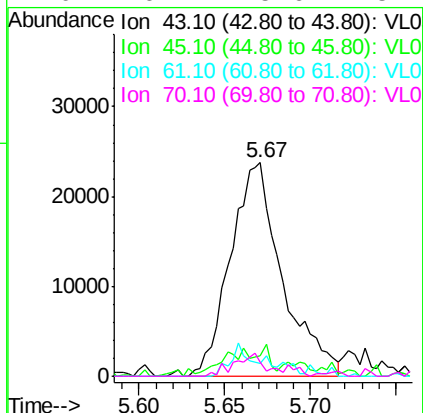
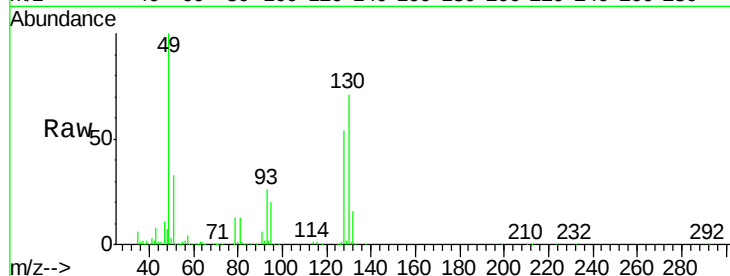




#25
Ethyl Acetate
Concen: 0.130 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

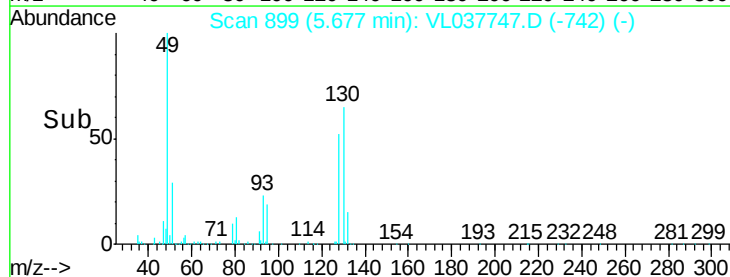
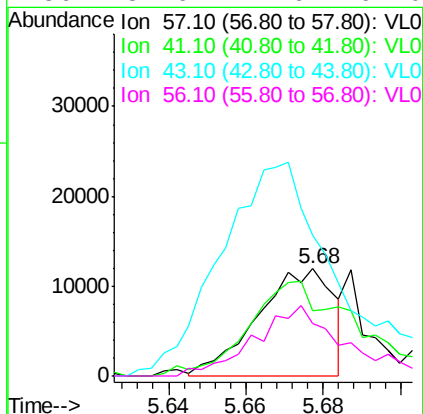
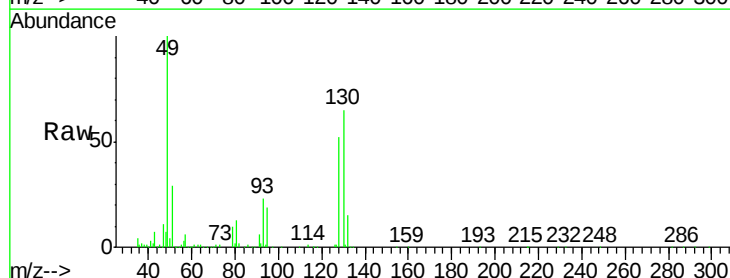
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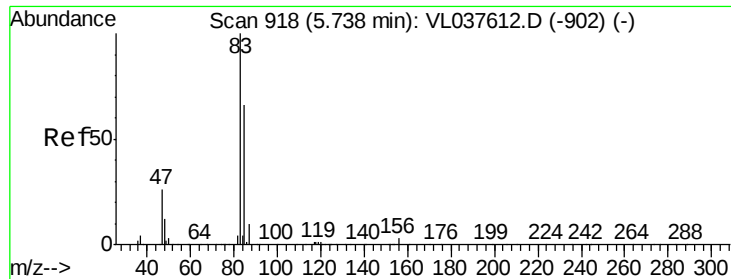
Tgt Ion:	43	Resp:	50022
Ion	Ratio	Lower	Upper
43	100		
45	17.8	8.0	12.0#
61	10.8	7.5	11.3
70	6.4	5.6	8.4



#26
Hexane
Concen: 0.089 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

Tgt Ion:	57	Resp:	16257
Ion	Ratio	Lower	Upper
57	100		
41	130.4	70.9	106.3#
43	335.4	170.4	255.6#
56	84.6	42.6	64.0#

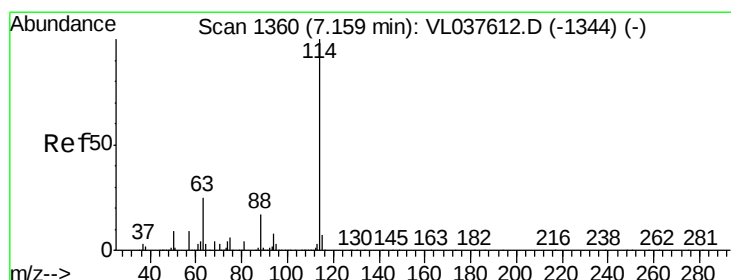
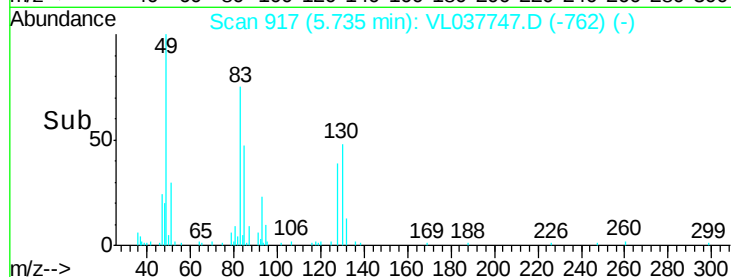
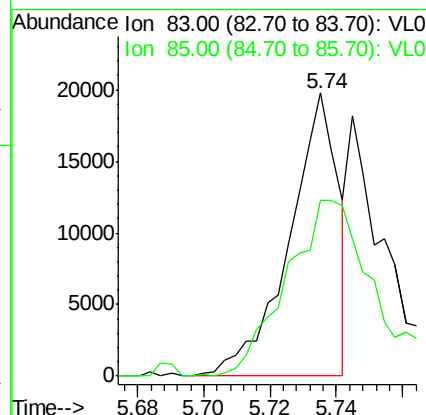
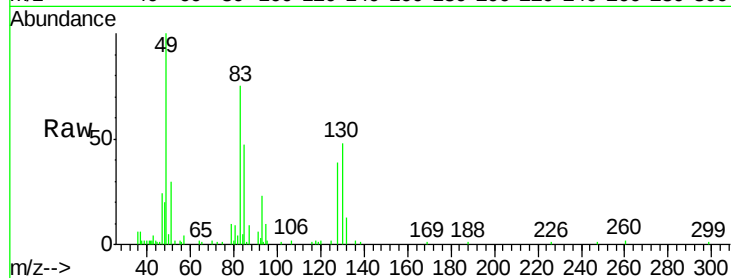




#29
Chloroform
Concen: 0.076 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

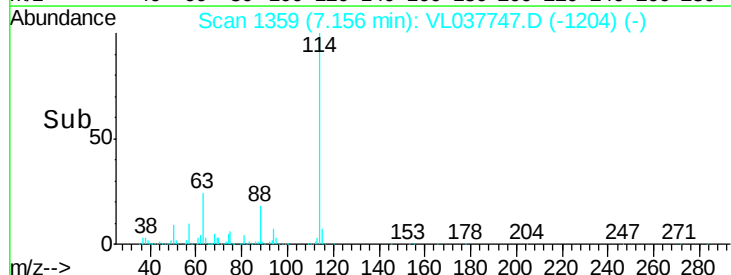
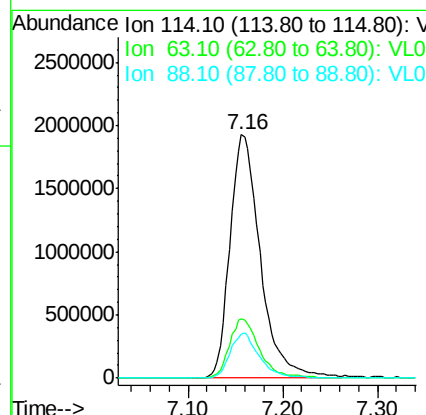
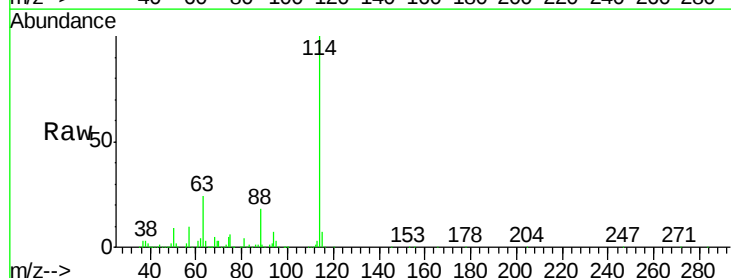
Instrument :
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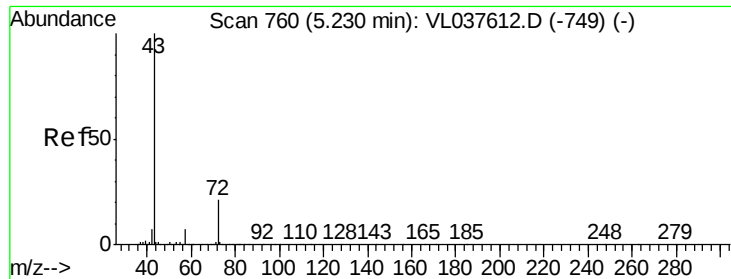
Tgt Ion: 83 Resp: 20358
Ion Ratio Lower Upper
83 100
85 62.0 52.6 79.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

Tgt Ion: 114 Resp: 4309187
Ion Ratio Lower Upper
114 100
63 24.4 19.6 29.4
88 18.0 14.2 21.4

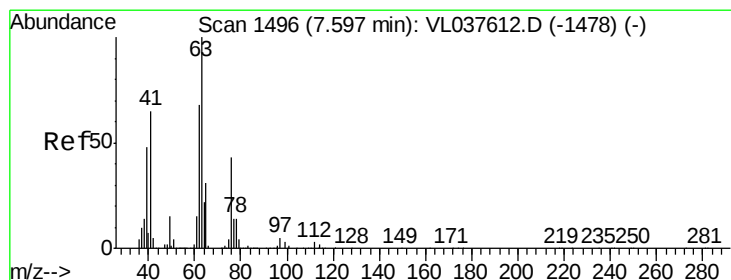
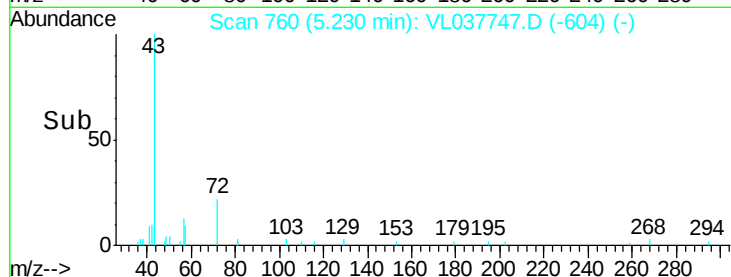
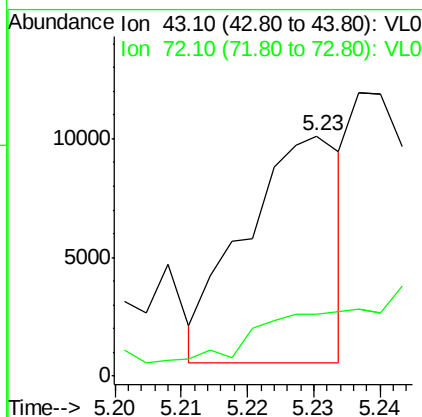
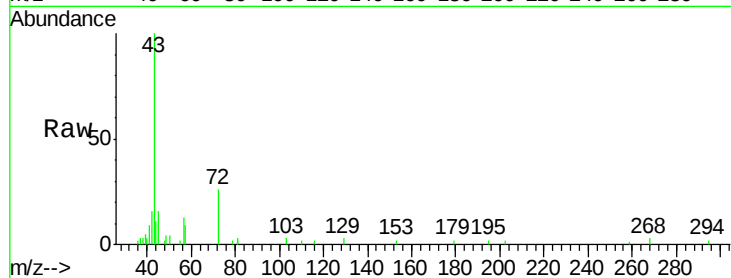




#34
2-Butanone
Concen: 0.055 ppbv
RT: 5.23 min Scan# 760
Delta R.T. 0.00 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

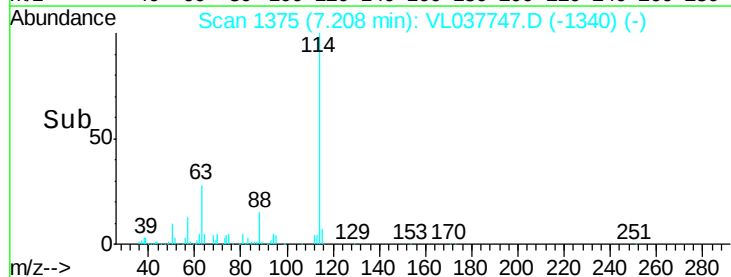
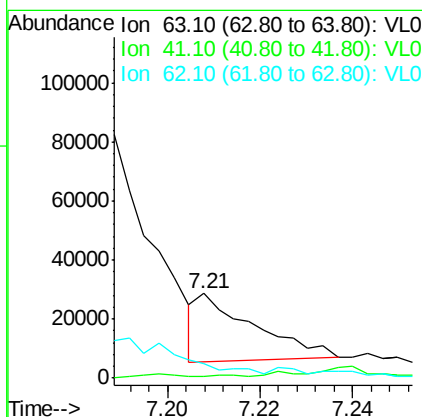
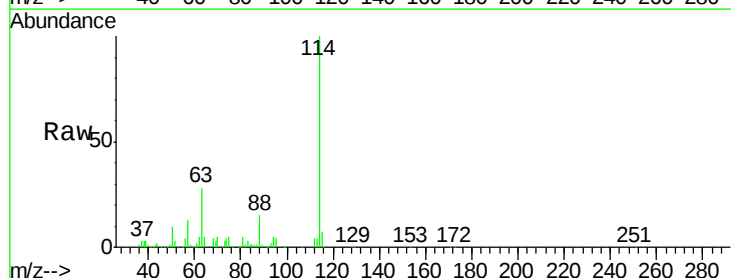
Instrument :
MSVOA_L
ClientSampleId :
C0P21DL

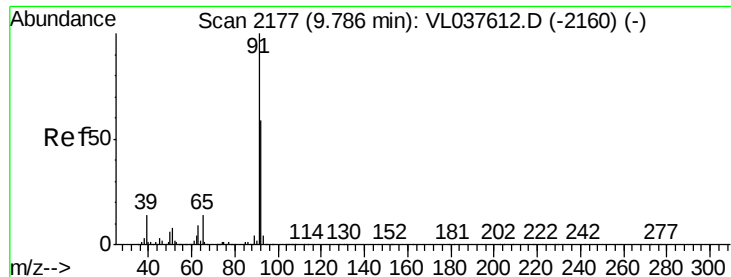
Tgt Ion: 43 Resp: 9607
Ion Ratio Lower Upper
43 100
72 0.0 18.4 27.6#



#39
1,2-Dichloropropane
Concen: 0.141 ppbv
RT: 7.21 min Scan# 1375
Delta R.T. -0.39 min
Lab File: VL037747.D
Acq: 1 Oct 2021 18:40

Tgt Ion: 63 Resp: 19470
Ion Ratio Lower Upper
63 100
41 0.0 51.6 77.4#
62 13.4 54.6 81.8#





#53

Toluene

Concen: 0.208 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037747.D

Acq: 1 Oct 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

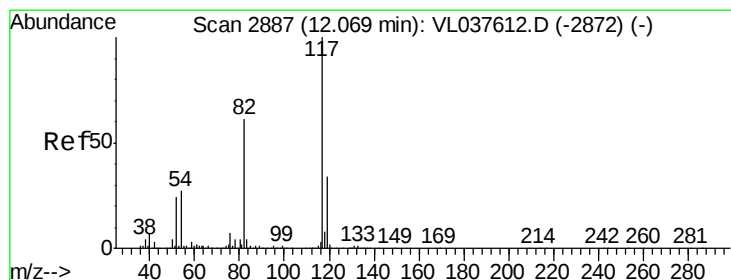
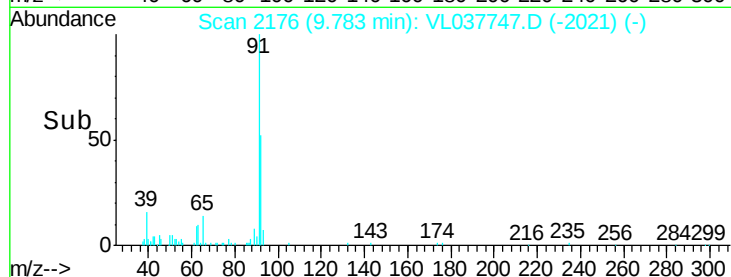
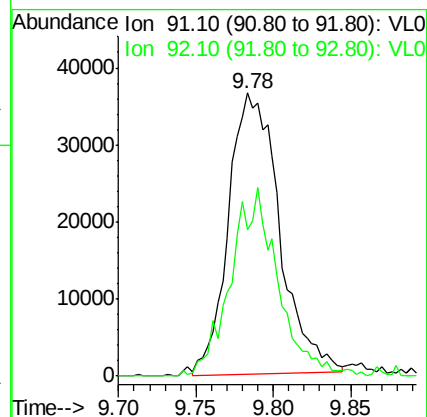
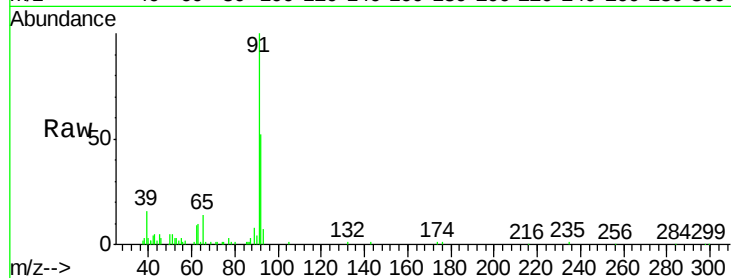
C0P21DL

Tgt Ion: 91 Resp: 83214

Ion Ratio Lower Upper

91 100

92 62.3 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL037747.D

Acq: 1 Oct 2021 18:40

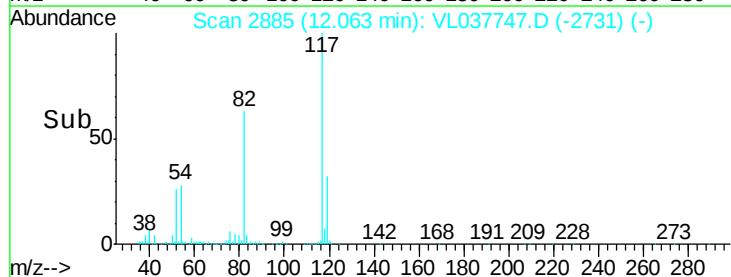
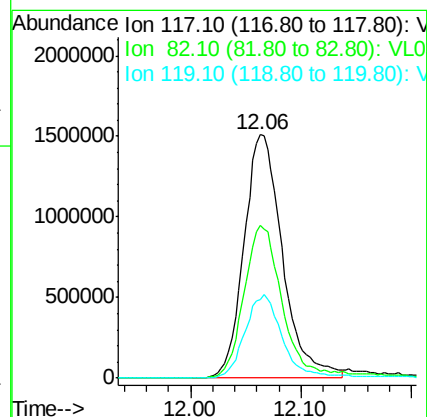
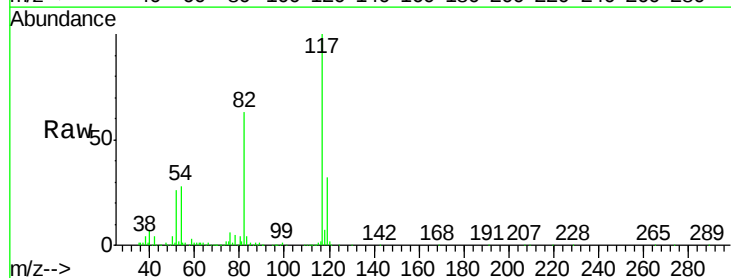
Tgt Ion: 117 Resp: 3661000

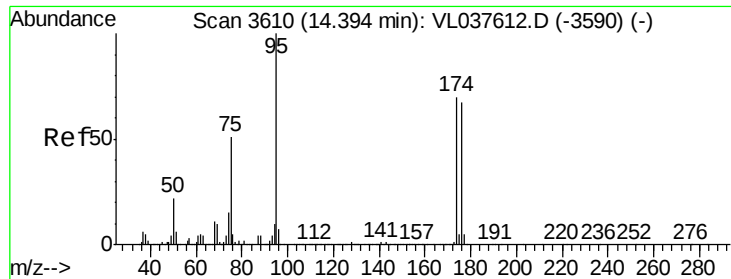
Ion Ratio Lower Upper

117 100

82 65.1 50.6 75.8

119 34.5 26.2 39.2





#68

1-Bromo-4-Fluorobenzene

Concen: 9.806 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. 0.00 min

Lab File: VL037747.D

Acq: 1 Oct 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

C0P21DL

Tgt Ion: 95 Resp: 2594525

Ion Ratio Lower Upper

95 100

174 75.0 56.3 84.5

175 5.6 4.4 6.6

