

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100121\
 Data File : VL037745.D
 Acq On : 1 Oct 2021 17:24
 Operator : SY/AP
 Sample : M4012-02DUP 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P22DUP

Quant Time: Oct 02 01:34:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	1565873	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4315340	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3725658	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2693739	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

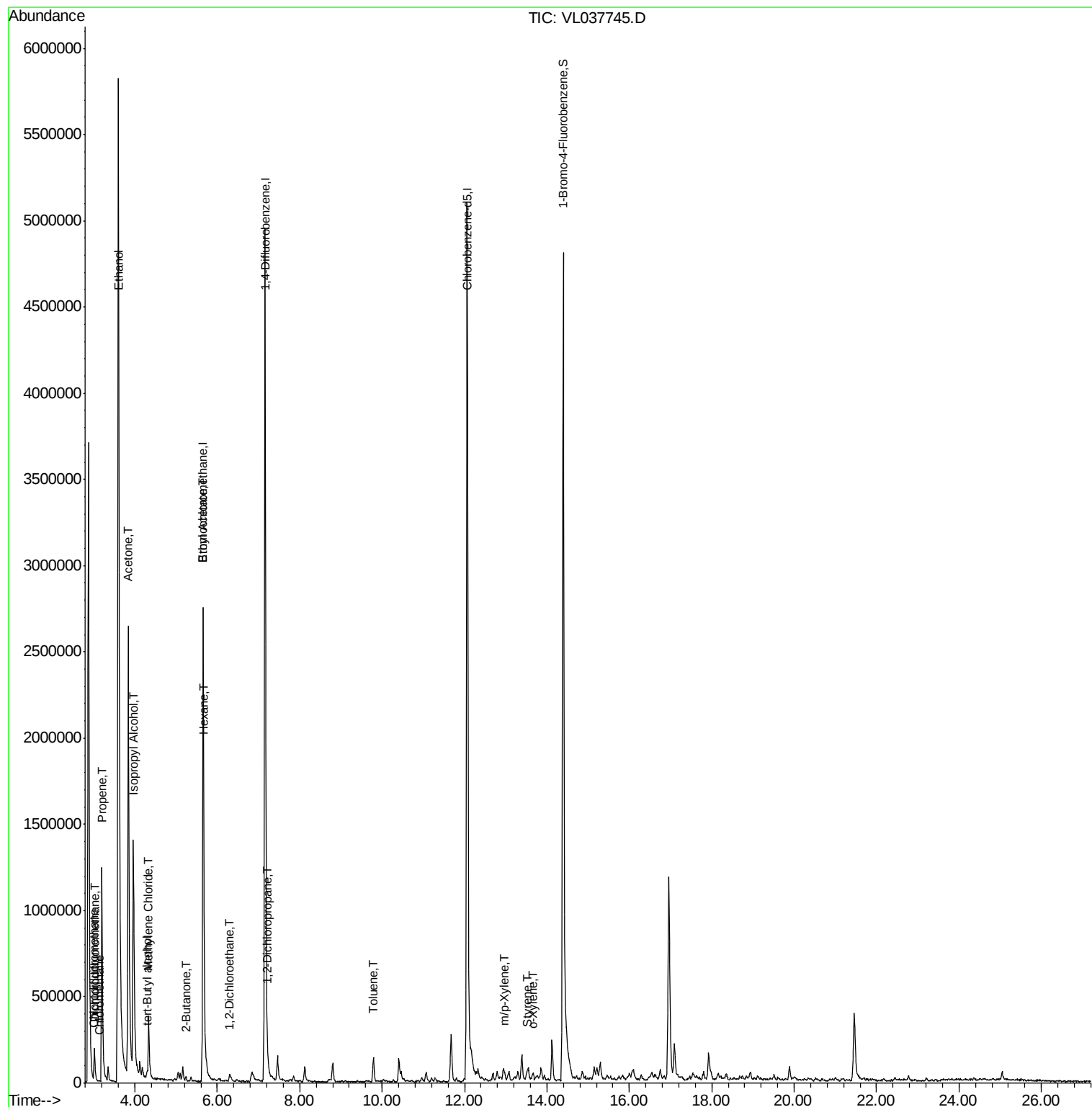
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	10298	0.036	ppbv #	87
3) Chlorodifluoromethane	2.99	51	16017	0.054	ppbv #	81
4) Chloromethane	3.13	50	5637	0.052	ppbv #	69
9) Propene	3.20	41	345918	3.320	ppbv	85
13) Ethanol	3.60	45	8782188	861.775	ppbv	92
15) Acetone	3.84	43	3384919	20.806	ppbv	94
17) tert-Butyl alcohol	4.28	59	9077	0.066	ppbv #	72
19) Isopropyl Alcohol	3.96	45	1892479	21.379	ppbv	98
20) Methylene Chloride	4.33	84	120703	1.554	ppbv	92
25) Ethyl Acetate	5.66	43	64434	0.164	ppbv #	94
26) Hexane	5.68	57	35603	0.190	ppbv #	84
34) 2-Butanone	5.23	43	11363	0.065	ppbv #	1
37) 1,2-Dichloroethane	6.29	62	9241	0.052	ppbv #	64
39) 1,2-Dichloropropane	7.22	63	11583	0.084	ppbv #	27
53) Toluene	9.79	91	111918	0.280	ppbv	98
59) m/p-Xylene	12.98	91	19724	0.046	ppbv #	31
60) o-Xylene	13.66	91	13965	0.034	ppbv #	28
61) Styrene	13.50	104	7726	0.038	ppbv #	9

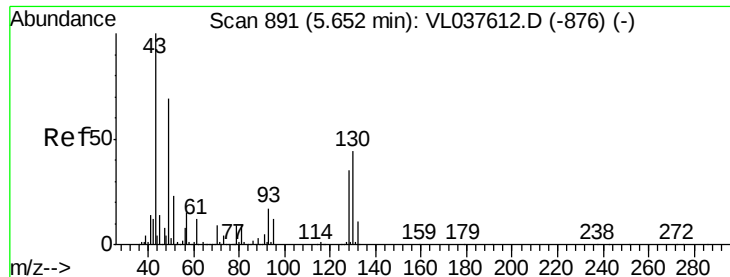
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

Instrument :

MSVOA_L

ClientSampleId :

C0P22DUP

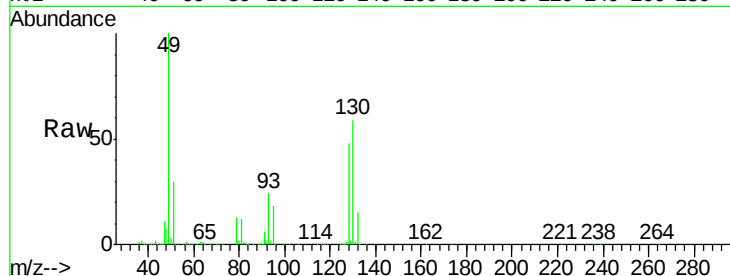
Tgt Ion: 49 Resp: 1565873

Ion Ratio Lower Upper

49 100

128 51.6 27.9 83.6

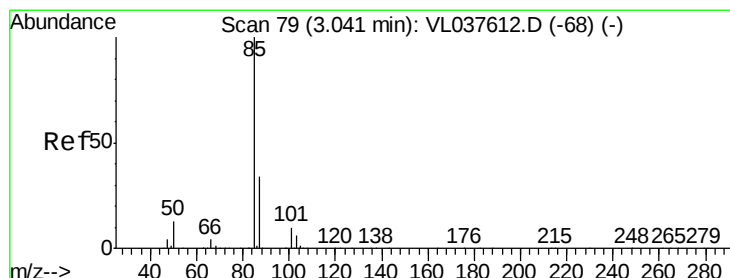
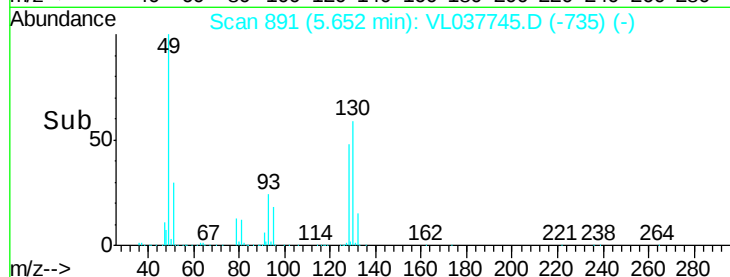
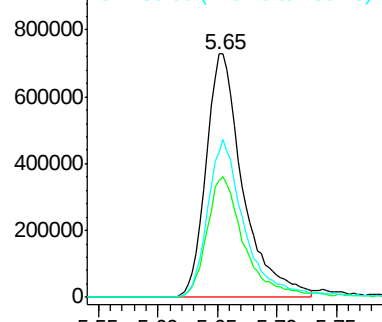
130 66.0 33.9 101.7



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: VL037745.D

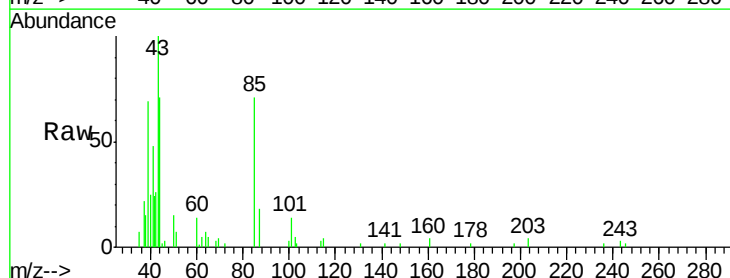
Acq: 1 Oct 2021 17:24

Tgt Ion: 85 Resp: 10298

Ion Ratio Lower Upper

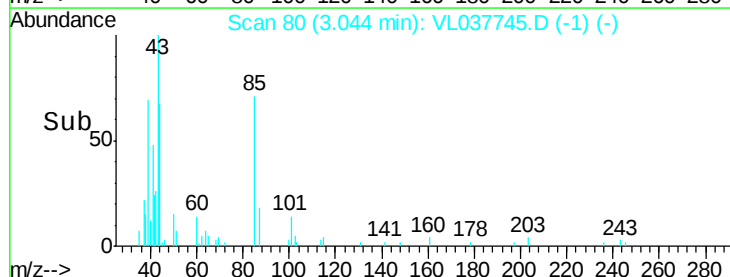
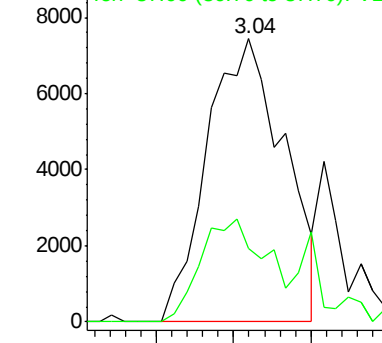
85 100

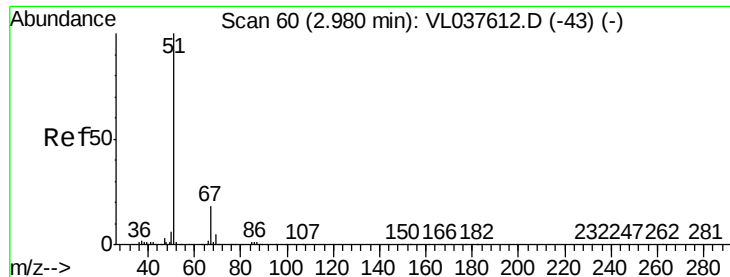
87 26.1 26.8 40.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.054 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

Instrument :

MSVOA_L

ClientSampleId :

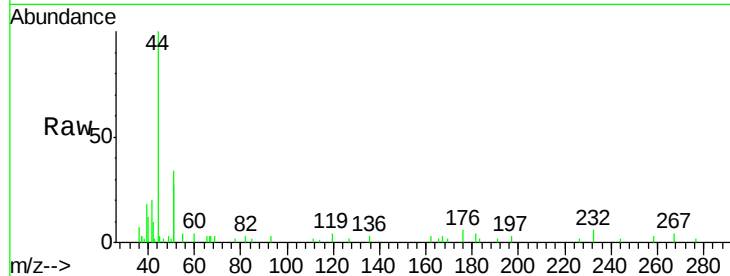
C0P22DUP

Tgt Ion: 51 Resp: 16017

Ion Ratio Lower Upper

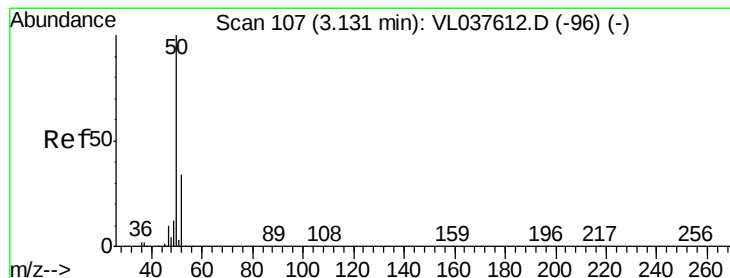
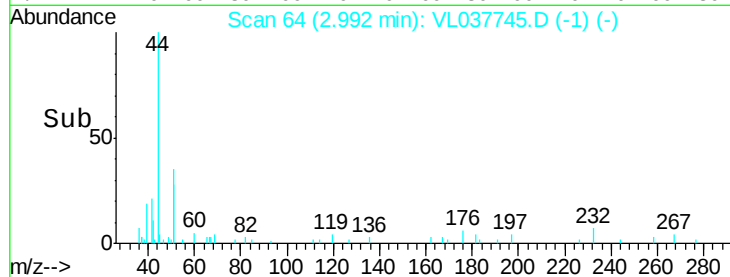
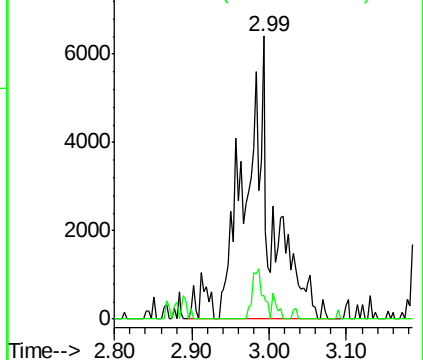
51 100

67 9.1 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.052 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL037745.D

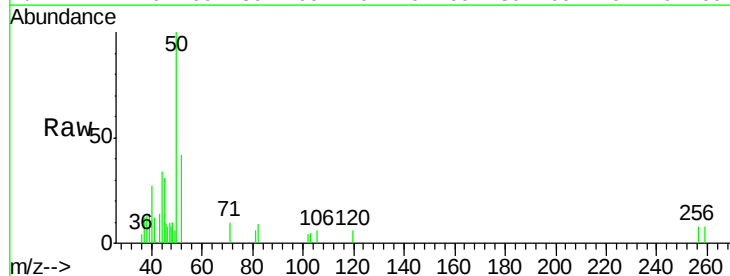
Acq: 1 Oct 2021 17:24

Tgt Ion: 50 Resp: 5637

Ion Ratio Lower Upper

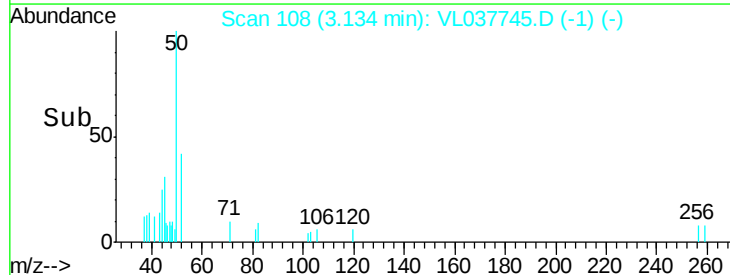
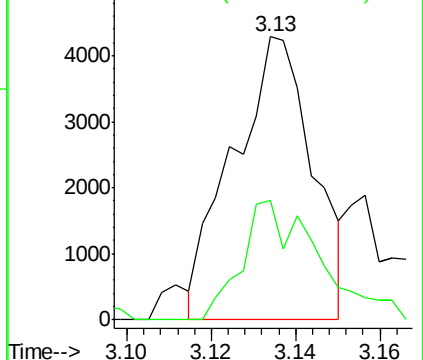
50 100

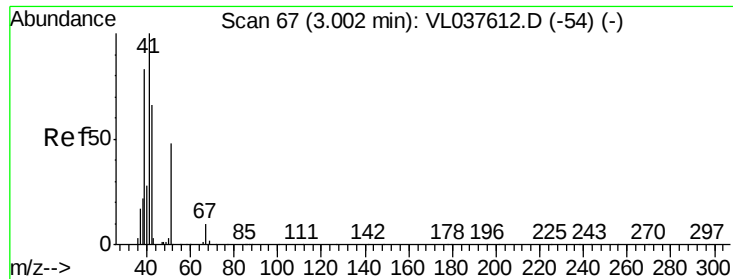
52 51.4 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 3.320 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.20 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

Instrument :

MSVOA_L

ClientSampleId :

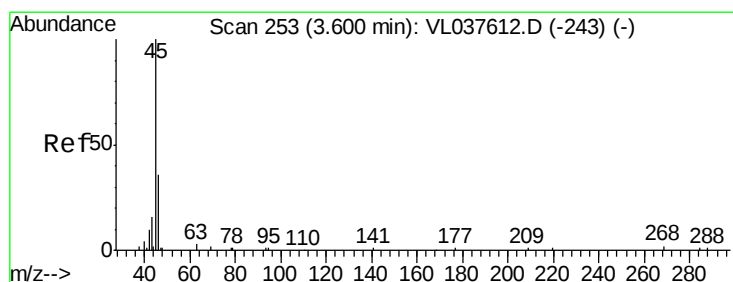
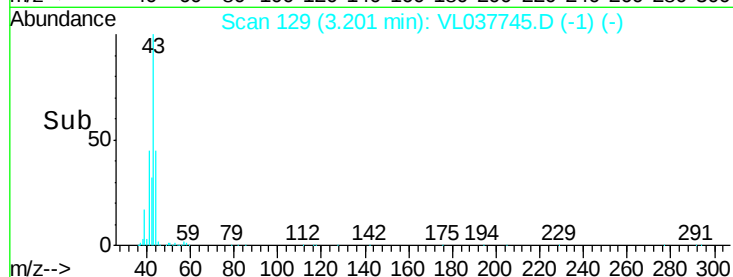
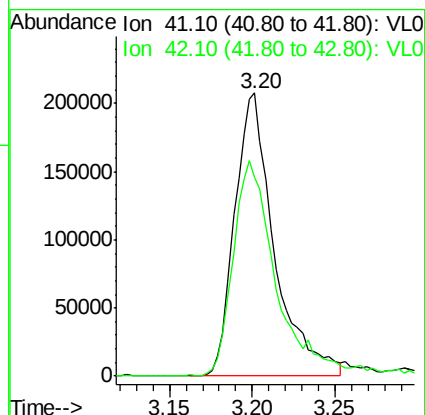
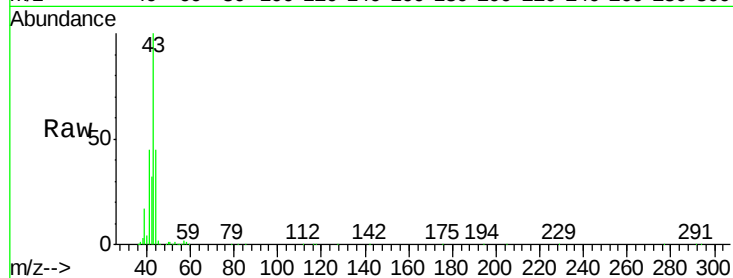
C0P22DUP

Tgt Ion: 41 Resp: 345918

Ion Ratio Lower Upper

41 100

42 83.8 57.2 85.8



#13

Ethanol

Concen: 861.775 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL037745.D

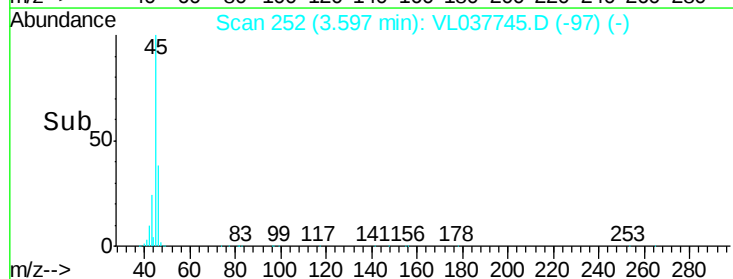
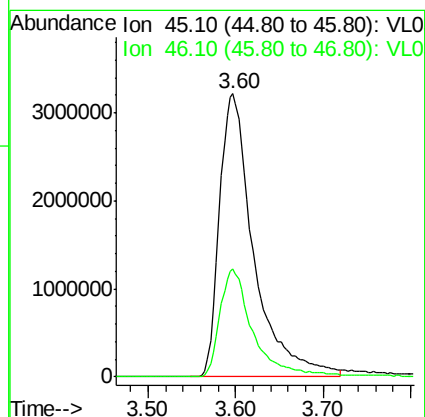
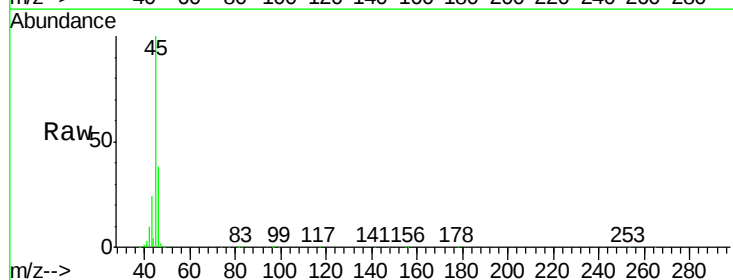
Acq: 1 Oct 2021 17:24

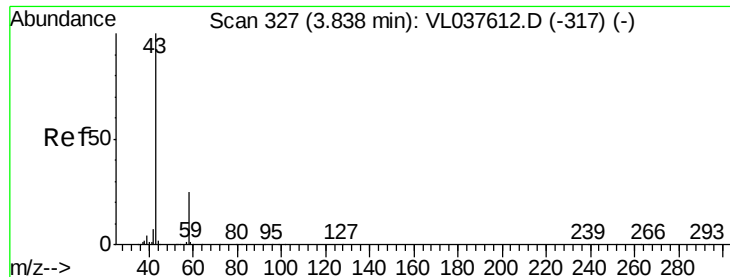
Tgt Ion: 45 Resp: 8782188

Ion Ratio Lower Upper

45 100

46 37.8 17.2 68.8





#15

Acetone

Concen: 20.806 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

Instrument :

MSVOA_L

ClientSampleId :

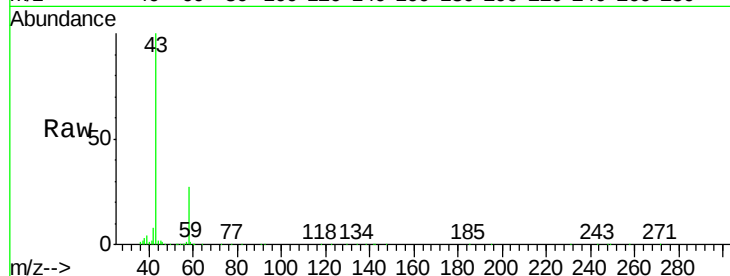
C0P22DUP

Tgt Ion: 43 Resp: 3384919

Ion Ratio Lower Upper

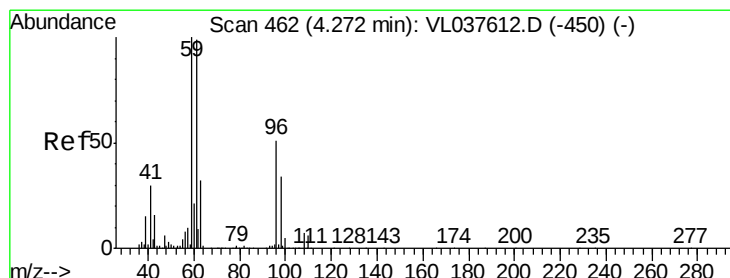
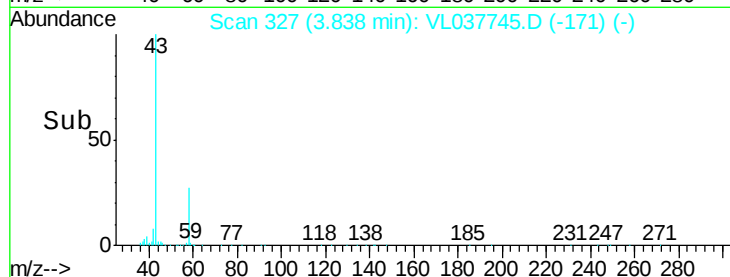
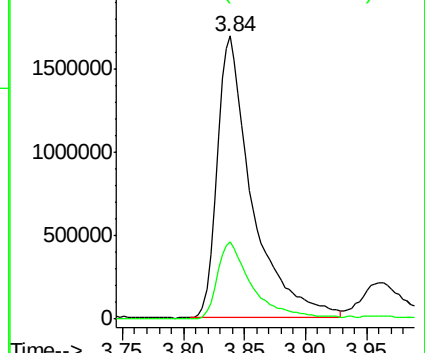
43 100

58 28.0 24.9 37.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.066 ppbv

RT: 4.28 min Scan# 465

Delta R.T. 0.01 min

Lab File: VL037745.D

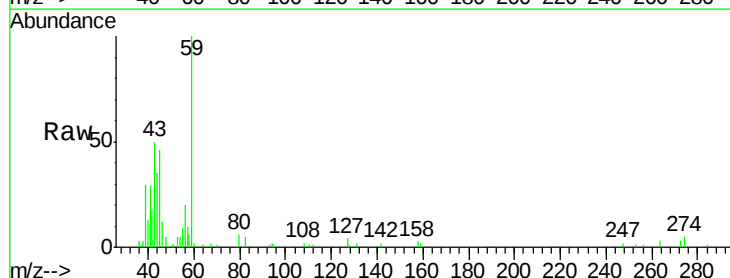
Acq: 1 Oct 2021 17:24

Tgt Ion: 59 Resp: 9077

Ion Ratio Lower Upper

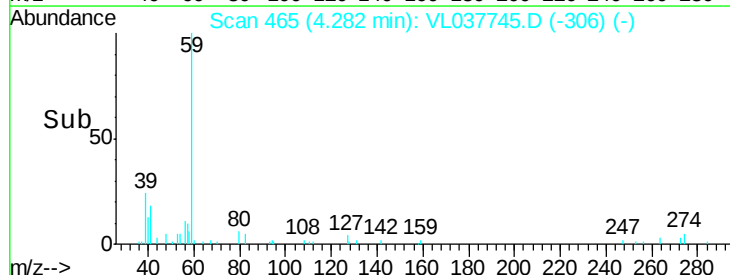
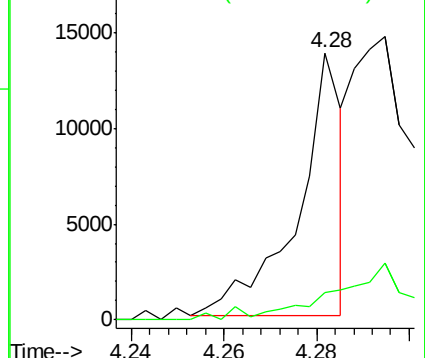
59 100

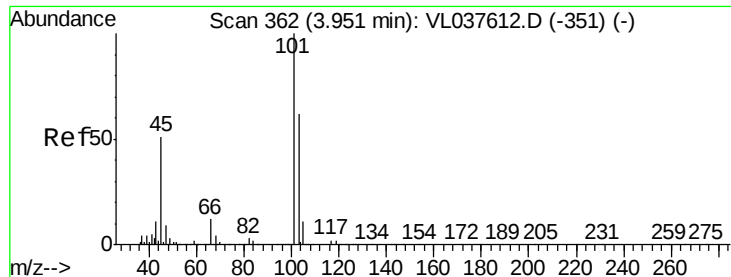
57 0.0 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 21.379 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

Instrument :

MSVOA_L

ClientSampleId :

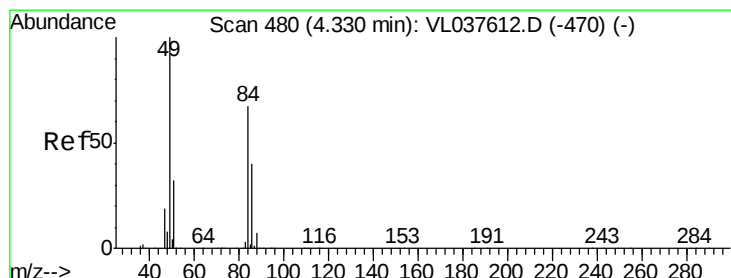
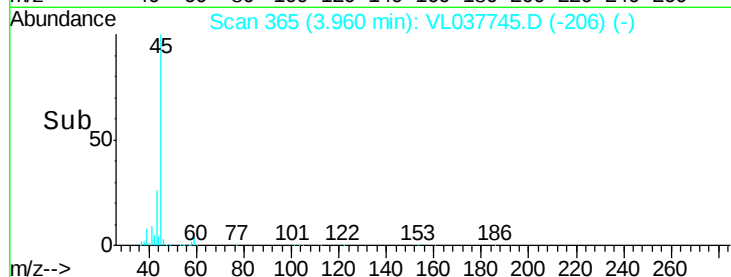
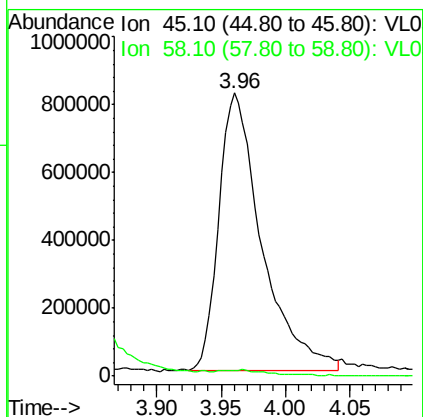
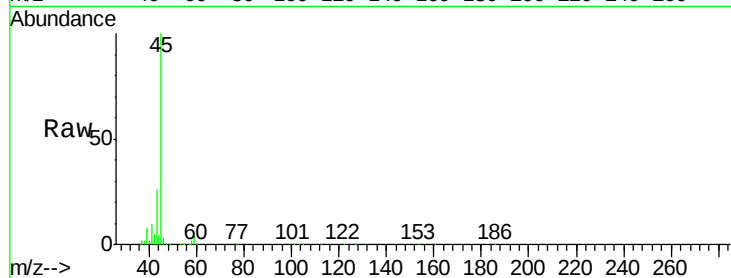
C0P22DUP

Tgt Ion: 45 Resp: 1892479

Ion Ratio Lower Upper

45 100

58 3.0 2.9 4.3



#20

Methylene Chloride

Concen: 1.554 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

Tgt Ion: 84 Resp: 120703

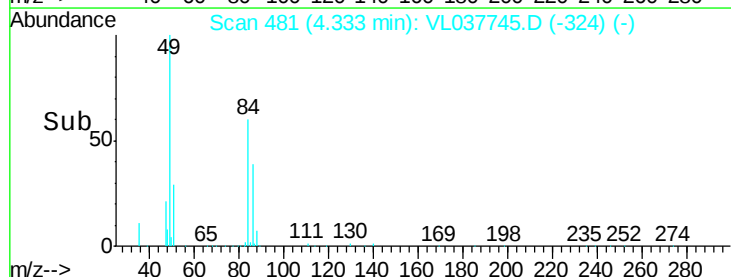
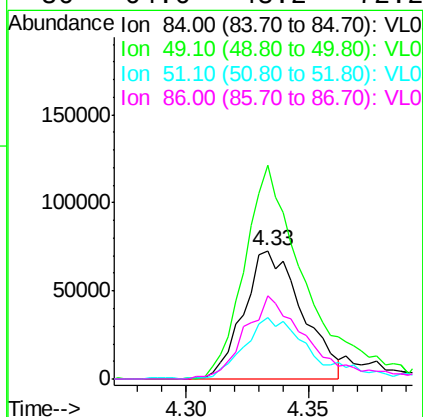
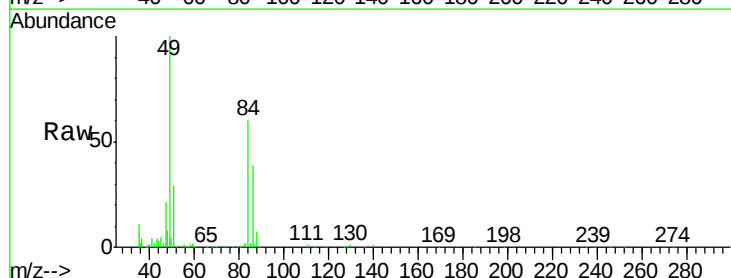
Ion Ratio Lower Upper

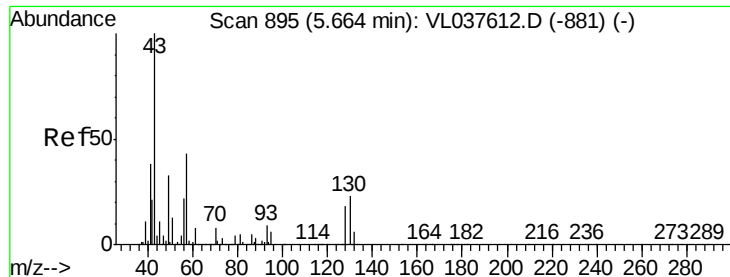
84 100

49 165.1 120.0 180.0

51 47.5 38.0 57.0

86 64.6 48.2 72.2

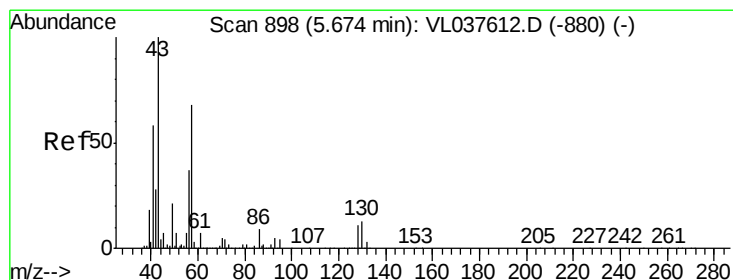
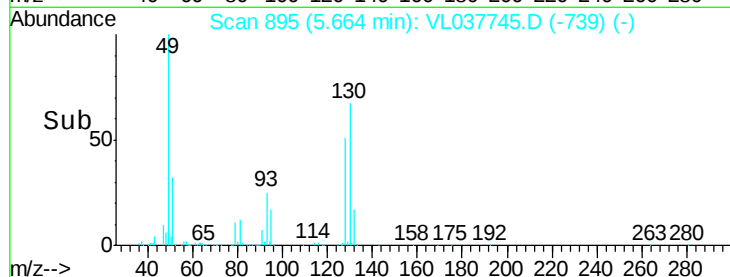
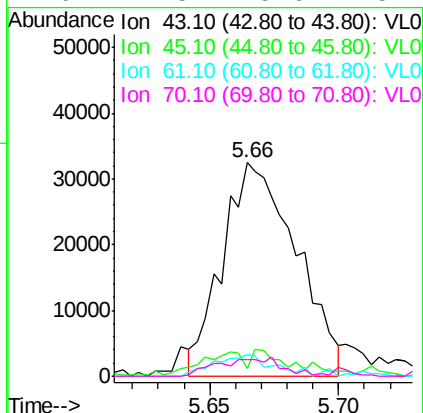
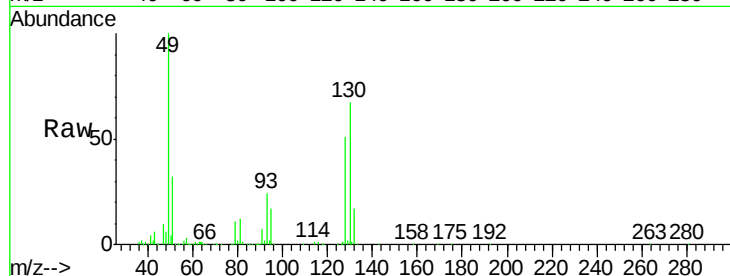




#25
Ethyl Acetate
Concen: 0.164 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL037745.D
Acq: 1 Oct 2021 17:24

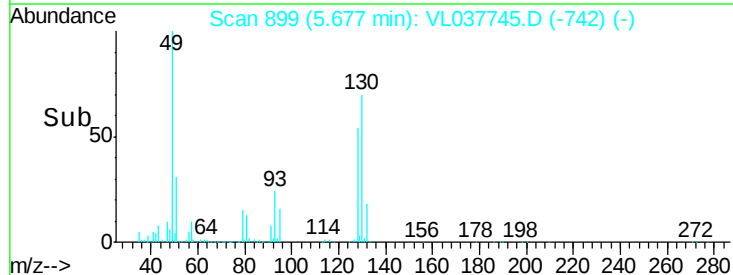
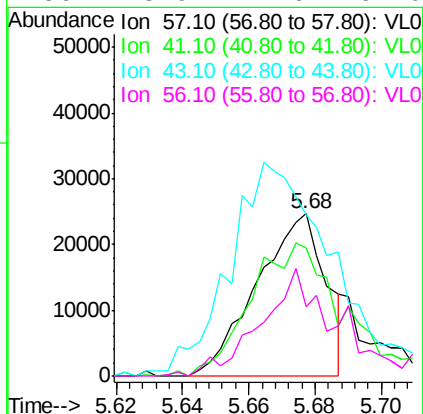
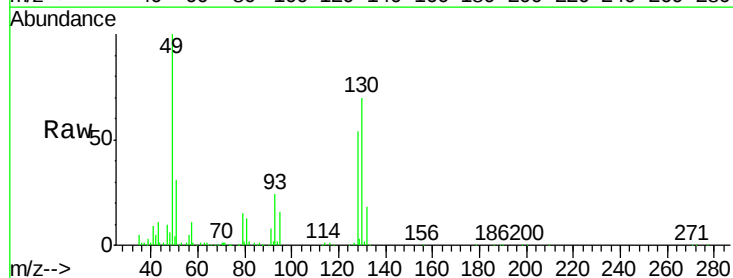
Instrument :
MSVOA_L
ClientSampleId :
C0P22DUP

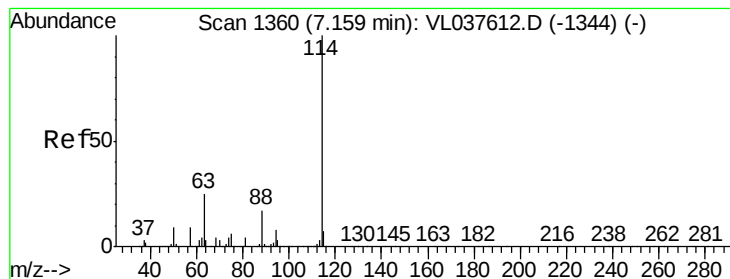
Tgt Ion:	43	Resp:	64434
Ion	Ratio	Lower	Upper
43	100		
45	15.7	8.0	12.0#
61	9.2	7.5	11.3
70	7.5	5.6	8.4



#26
Hexane
Concen: 0.190 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL037745.D
Acq: 1 Oct 2021 17:24

Tgt Ion:	57	Resp:	35603
Ion	Ratio	Lower	Upper
57	100		
41	116.1	70.9	106.3#
43	204.2	170.4	255.6
56	78.9	42.6	64.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

Instrument :

MSVOA_L

ClientSampleId :

C0P22DUP

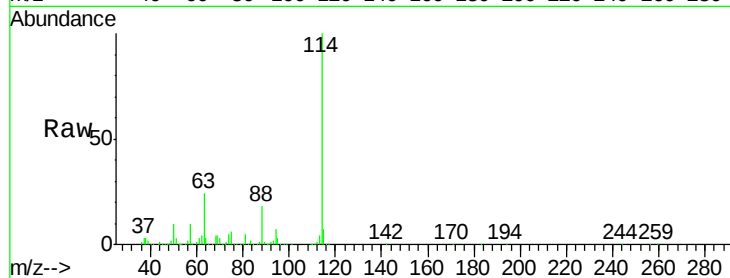
Tgt Ion:114 Resp: 4315340

Ion Ratio Lower Upper

114 100

63 24.3 19.6 29.4

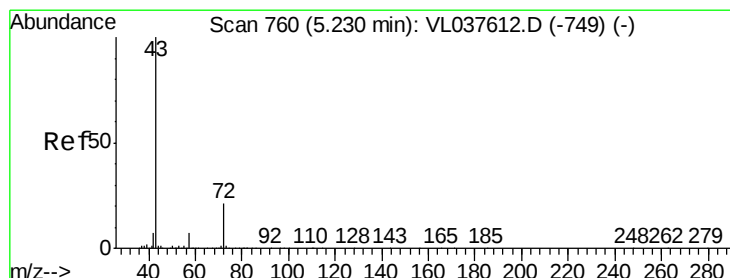
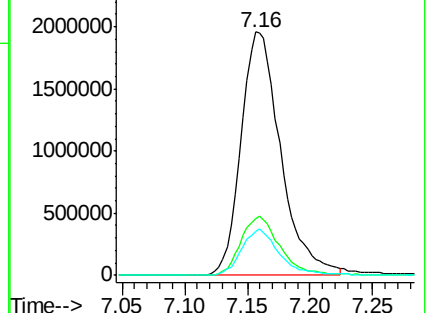
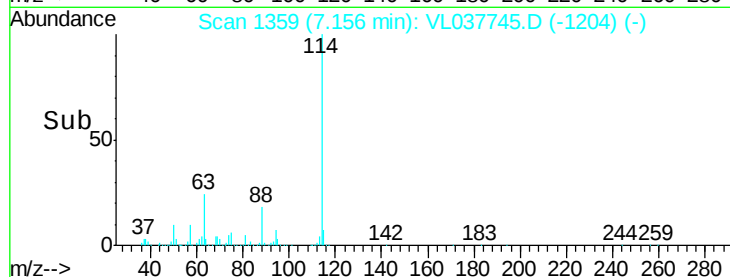
88 18.3 14.2 21.4



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: 0.065 ppbv

RT: 5.23 min Scan# 760

Delta R.T. 0.00 min

Lab File: VL037745.D

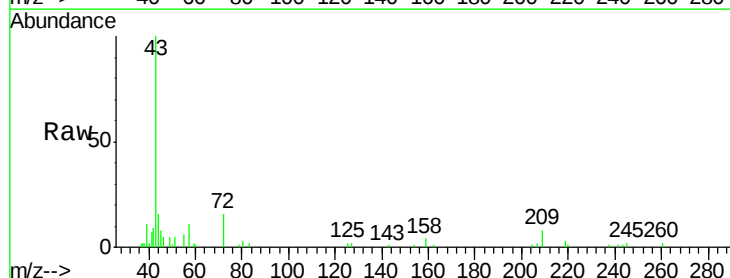
Acq: 1 Oct 2021 17:24

Tgt Ion: 43 Resp: 11363

Ion Ratio Lower Upper

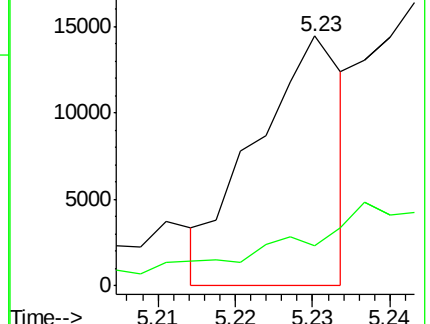
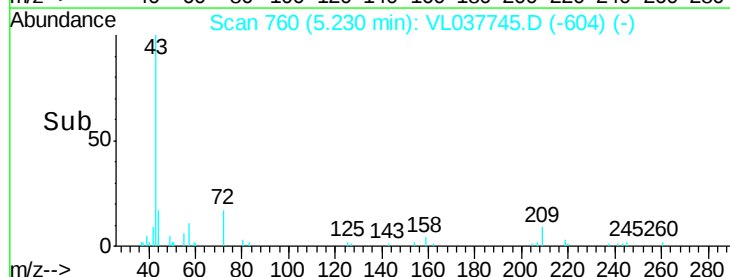
43 100

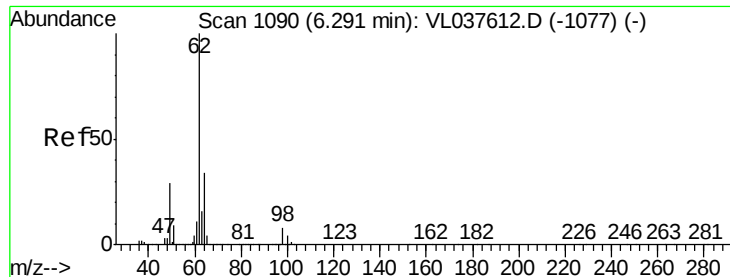
72 88.2 18.4 27.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#37

1,2-Dichloroethane

Concen: 0.052 ppbv

RT: 6.29 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

Instrument :

MSVOA_L

ClientSampleId :

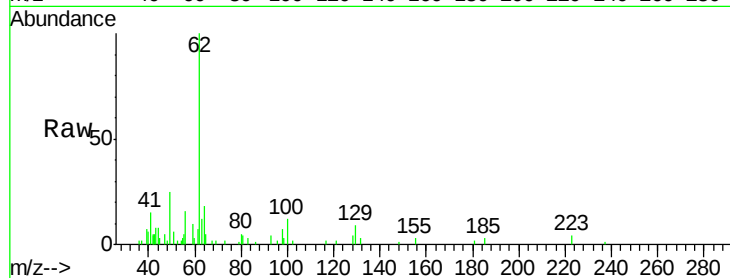
C0P22DUP

Tgt Ion: 62 Resp: 9241

Ion Ratio Lower Upper

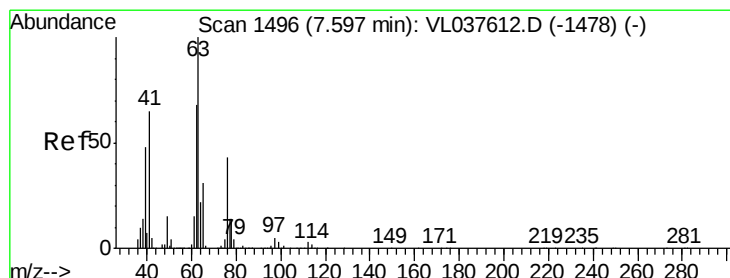
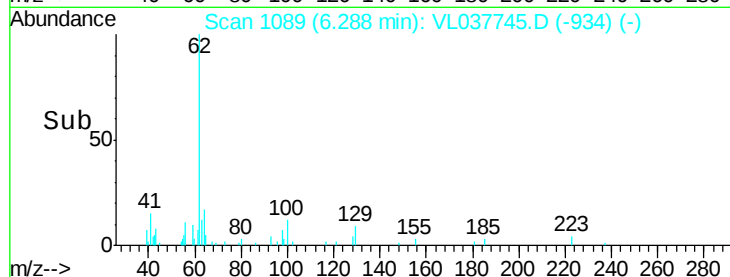
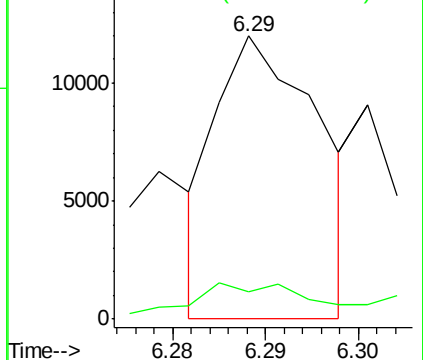
62 100

98 20.2 6.1 9.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#39

1,2-Dichloropropane

Concen: 0.084 ppbv

RT: 7.22 min Scan# 1378

Delta R.T. -0.38 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

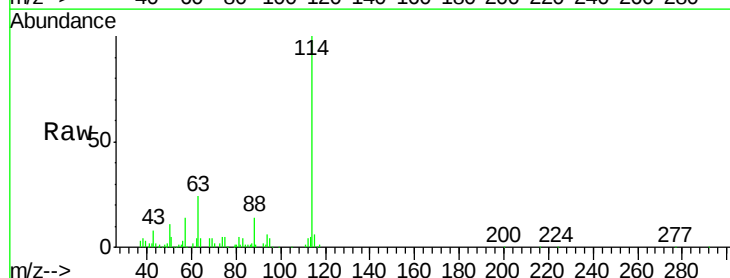
Tgt Ion: 63 Resp: 11583

Ion Ratio Lower Upper

63 100

41 5.4 51.6 77.4#

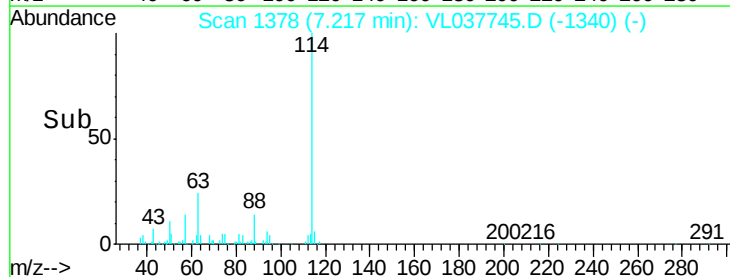
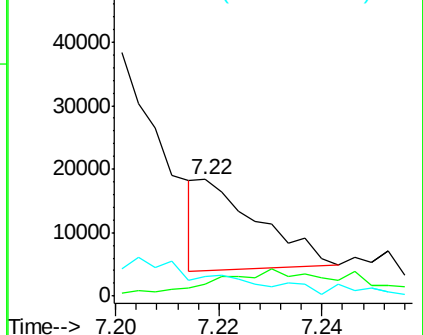
62 10.7 54.6 81.8#

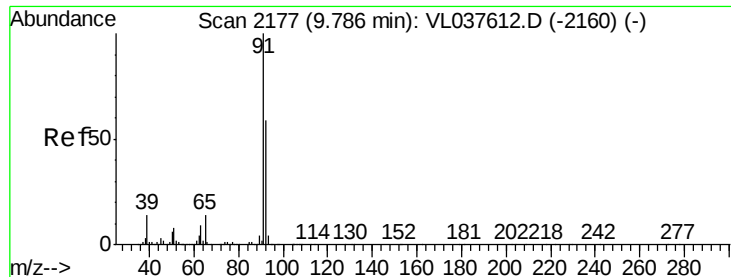


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.280 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037745.D

Acq: 1 Oct 2021 17:24

Instrument :

MSVOA_L

ClientSampleId :

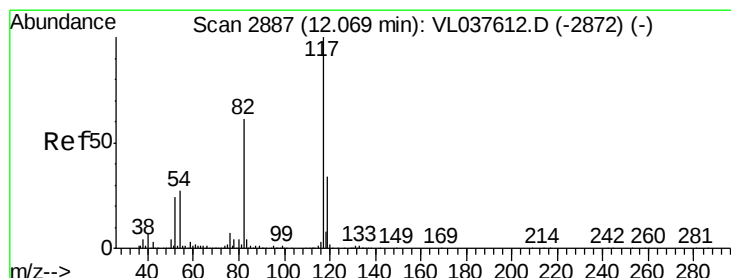
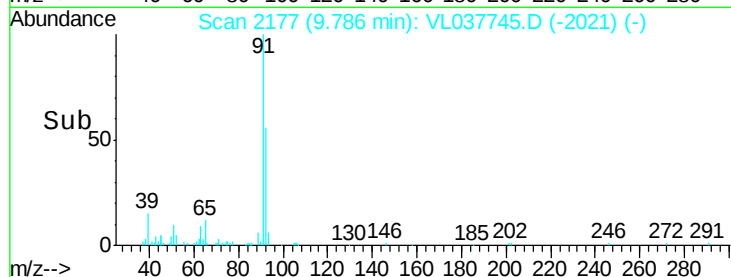
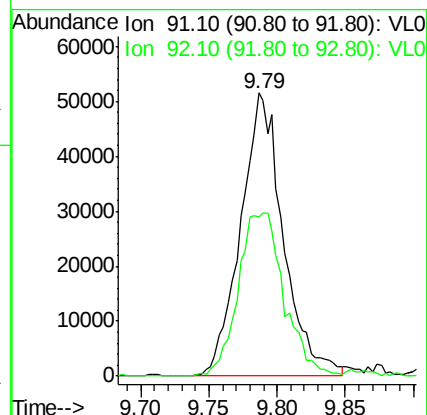
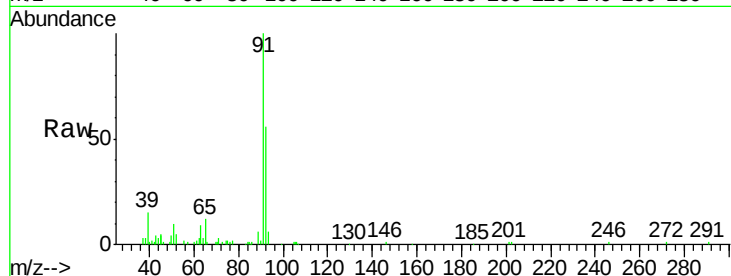
C0P22DUP

Tgt Ion: 91 Resp: 111918

Ion Ratio Lower Upper

91 100

92 62.6 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: VL037745.D

Acq: 1 Oct 2021 17:24

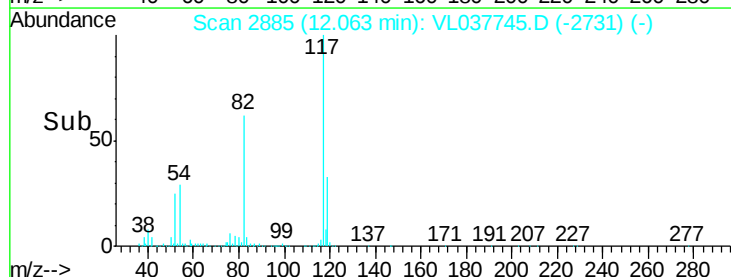
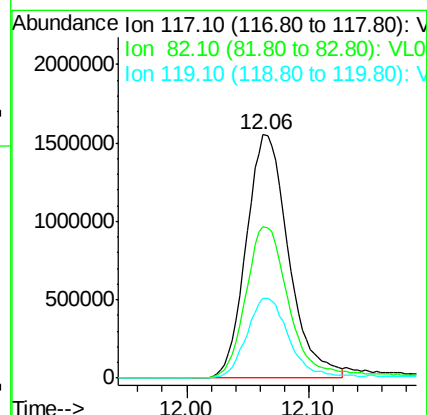
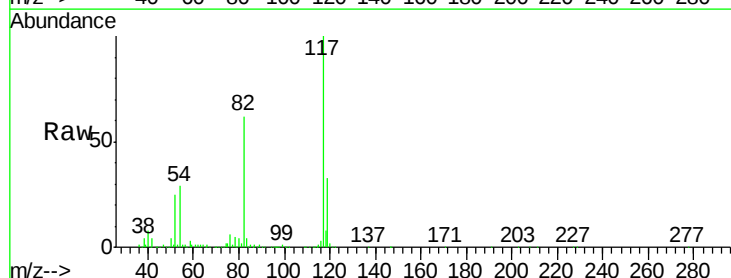
Tgt Ion: 117 Resp: 3725658

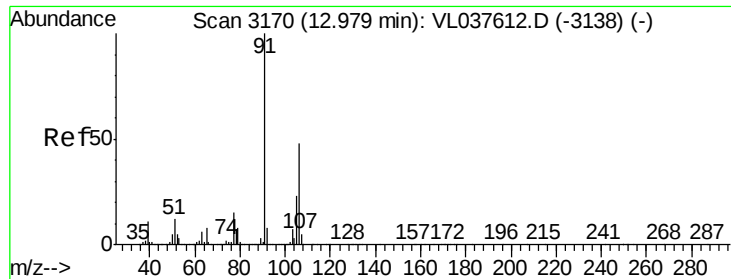
Ion Ratio Lower Upper

117 100

82 65.8 50.6 75.8

119 34.6 26.2 39.2

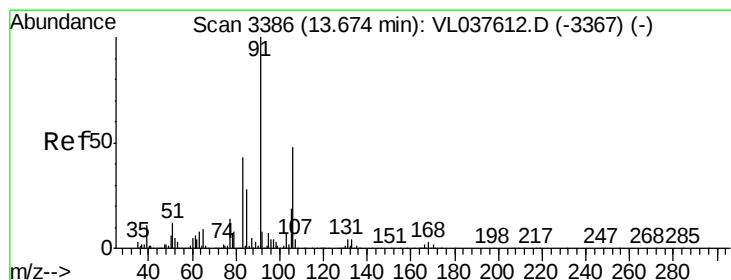
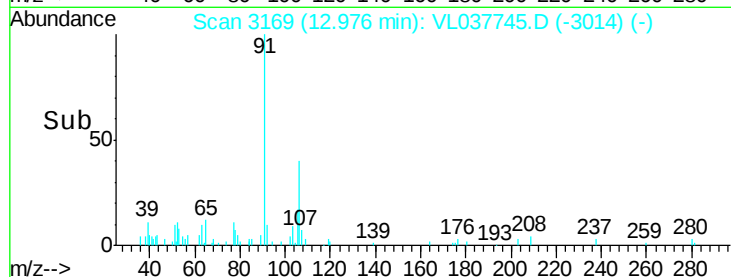
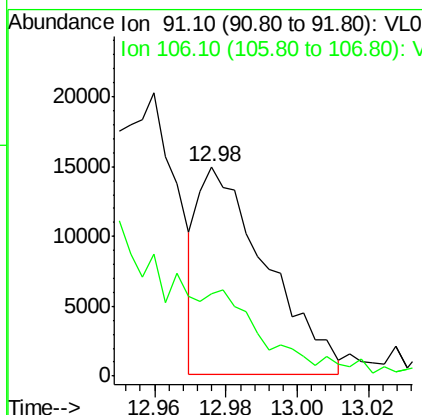
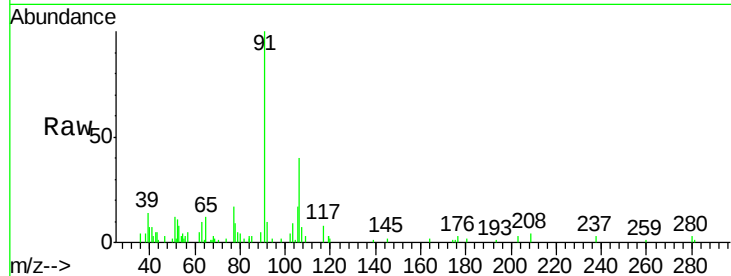




#59
m/p-Xylene
Concen: 0.046 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VL037745.D
Acq: 1 Oct 2021 17:24

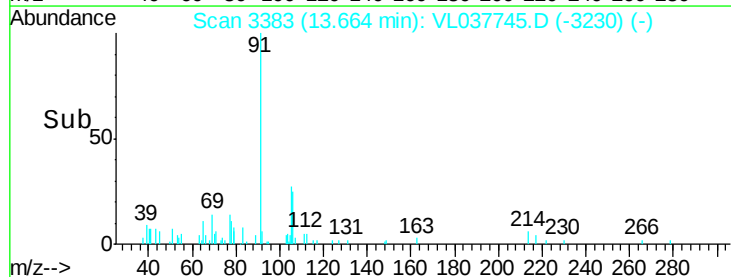
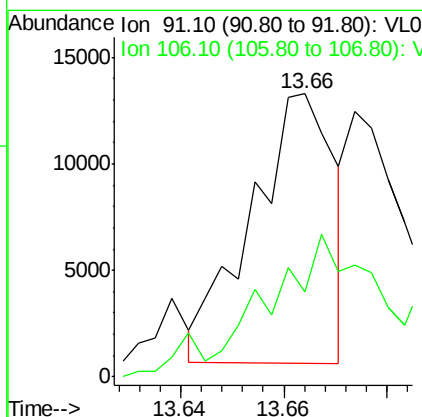
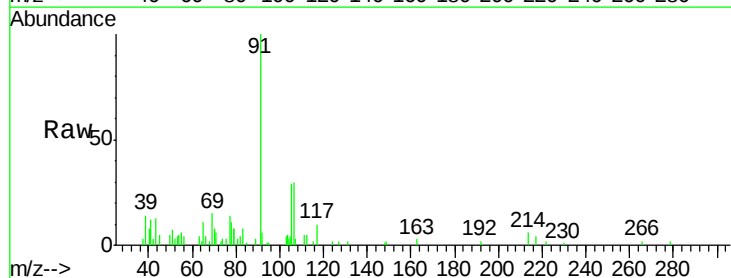
Instrument :
MSVOA_L
ClientSampleId :
C0P22DUP

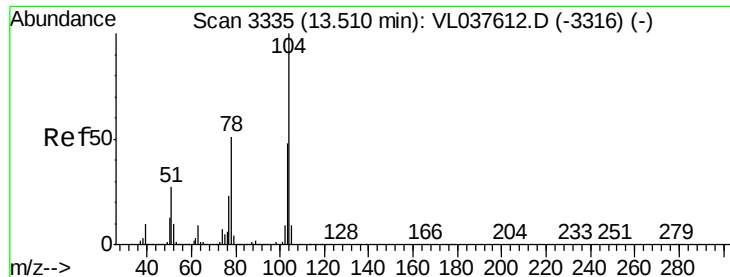
Tgt Ion: 91 Resp: 19724
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#



#60
o-Xylene
Concen: 0.034 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.01 min
Lab File: VL037745.D
Acq: 1 Oct 2021 17:24

Tgt Ion: 91 Resp: 13965
Ion Ratio Lower Upper
91 100
106 93.8 23.0 69.0#

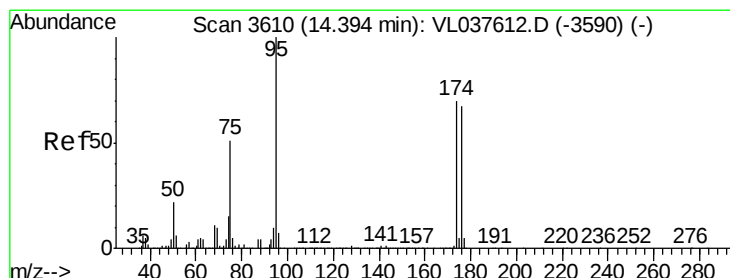
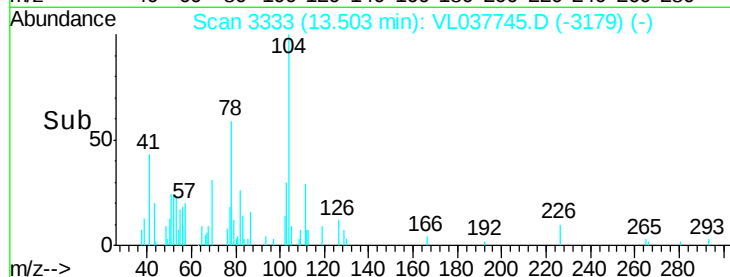
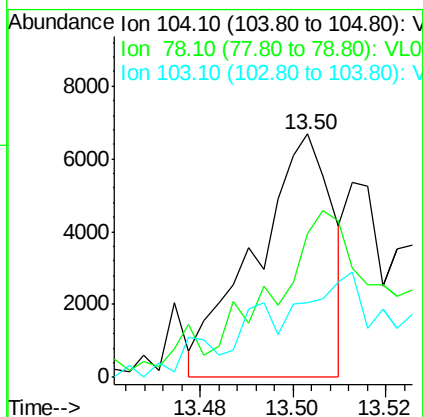
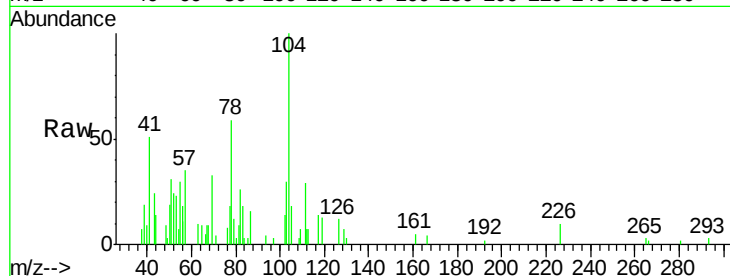




#61
Styrene
Concen: 0.038 ppbv
RT: 13.50 min Scan# 3333
Delta R.T. -0.01 min
Lab File: VL037745.D
Acq: 1 Oct 2021 17:24

Instrument :
MSVOA_L
ClientSampleId :
C0P22DUP

Tgt Ion: 104 Resp: 7726
Ion Ratio Lower Upper
104 100
78 124.9 39.7 59.5#
103 0.0 38.8 58.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.004 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. 0.00 min
Lab File: VL037745.D
Acq: 1 Oct 2021 17:24

Tgt Ion: 95 Resp: 2693739
Ion Ratio Lower Upper
95 100
174 73.1 56.3 84.5
175 5.2 4.4 6.6

