

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100121\
 Data File : VL037748.D
 Acq On : 1 Oct 2021 19:19
 Operator : SY/AP
 Sample : M4012-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P24DL

Quant Time: Oct 02 01:35:16 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	1548010	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4347027	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3732690	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2757679	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

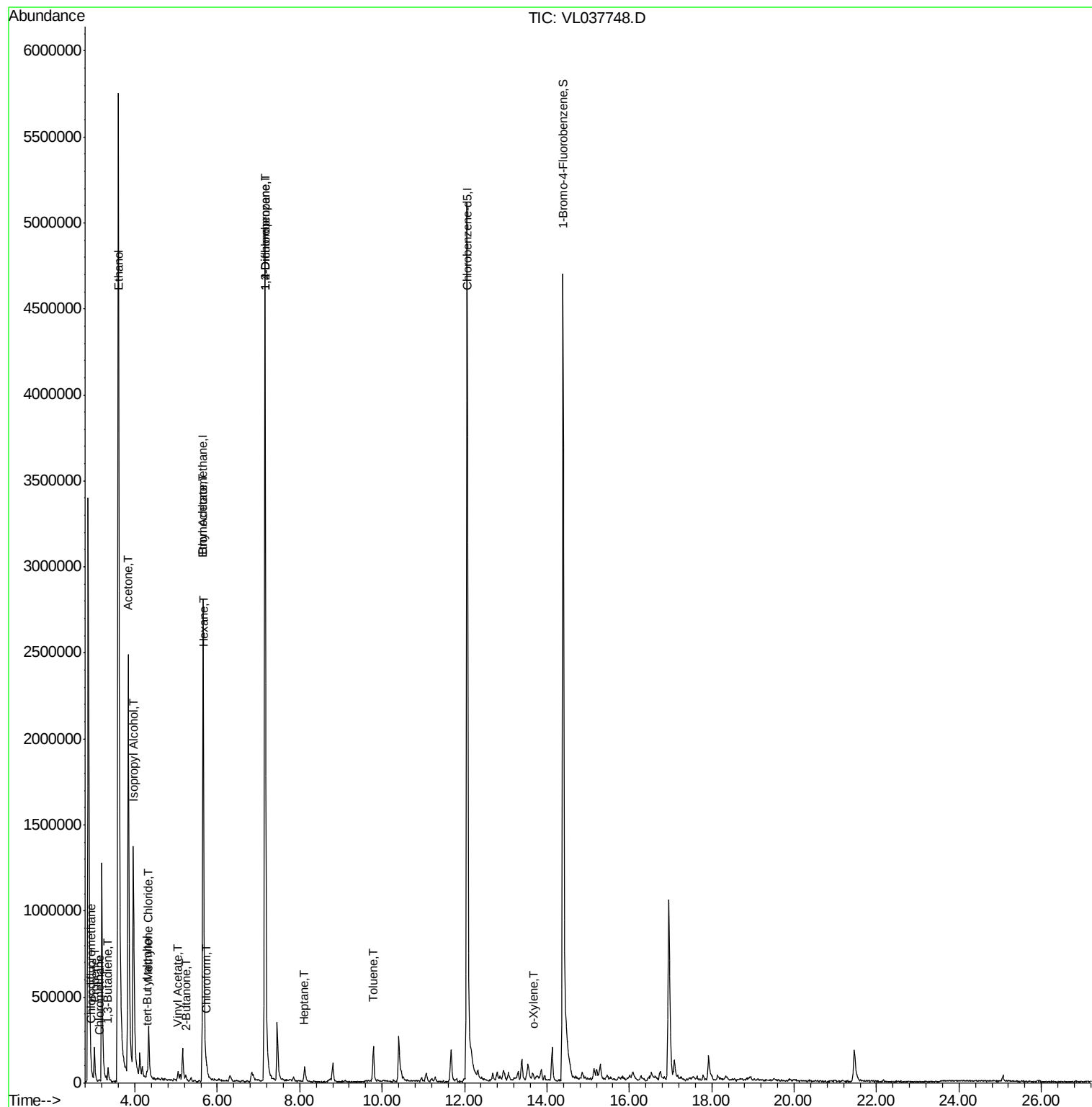
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.95	51	21913	0.075	ppbv #	74
4) Chloromethane	3.13	50	3676	0.034	ppbv	90
9) Propene	3.02	41	45096	0.438	ppbv	86
10) Heptane	8.10	43	7522	0.031	ppbv #	40
13) Ethanol	3.60	45	8591425	852.784	ppbv	92
15) Acetone	3.84	43	3164664	19.676	ppbv	96
16) 1,3-Butadiene	3.35	39	6040	0.060	ppbv #	13
17) tert-Butyl alcohol	4.29	59	12563	0.092	ppbv #	40
19) Isopropyl Alcohol	3.96	45	1766320	20.184	ppbv #	96
20) Methylene Chloride	4.33	84	84691	1.103	ppbv	94
23) Vinyl Acetate	5.05	43	26990	0.121	ppbv #	56
25) Ethyl Acetate	5.66	43	44585	0.114	ppbv #	77
26) Hexane	5.67	57	35336	0.191	ppbv #	86
29) Chloroform	5.73	83	12047	0.045	ppbv	93
34) 2-Butanone	5.23	43	37396	0.212	ppbv #	68
39) 1,2-Dichloropropane	7.16	63	1025547	7.387	ppbv #	27
53) Toluene	9.79	91	164463	0.408	ppbv	99
60) o-Xylene	13.66	91	13965	0.034	ppbv #	61

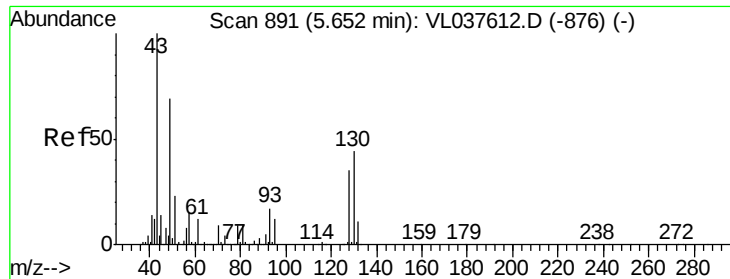
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL037748.D

Acq: 1 Oct 2021 19:19

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MSVOA_L

ClientSampleId :

C0P24DL

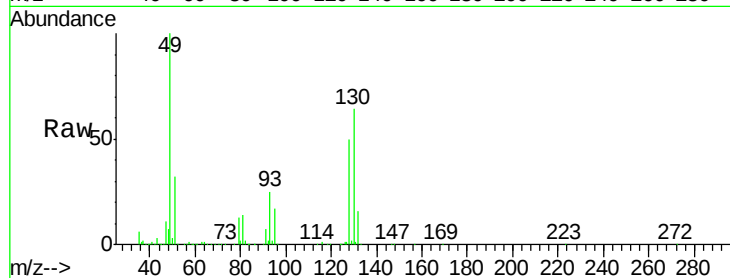
Tgt Ion: 49 Resp: 1548010

Ion Ratio Lower Upper

49 100

128 52.3 27.9 83.6

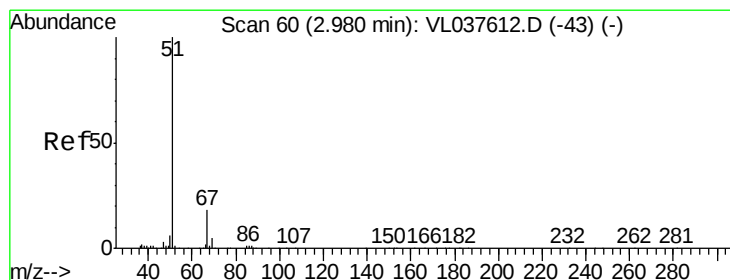
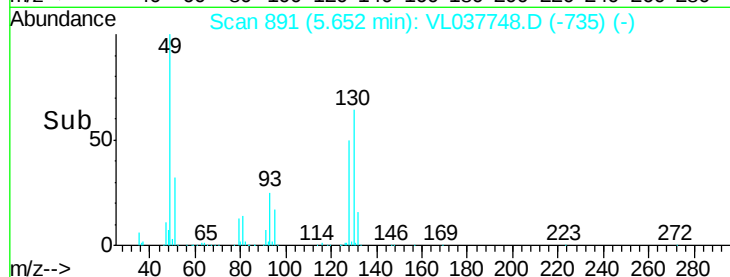
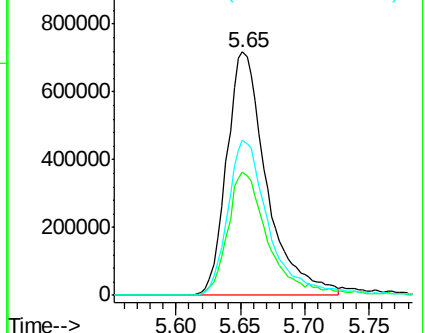
130 66.3 33.9 101.7



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



#3

Chlorodifluoromethane

Concen: 0.075 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.03 min

Lab File: VL037748.D

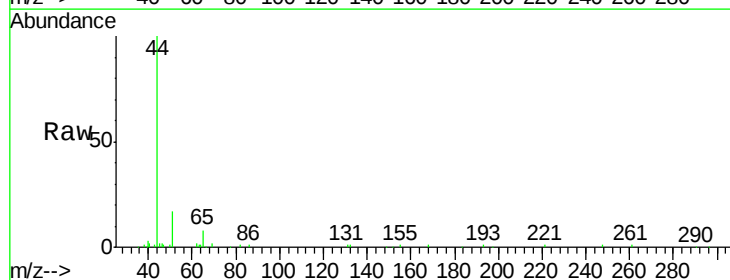
Acq: 1 Oct 2021 19:19

Tgt Ion: 51 Resp: 21913

Ion Ratio Lower Upper

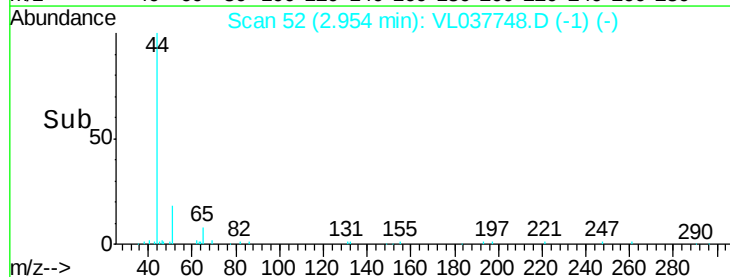
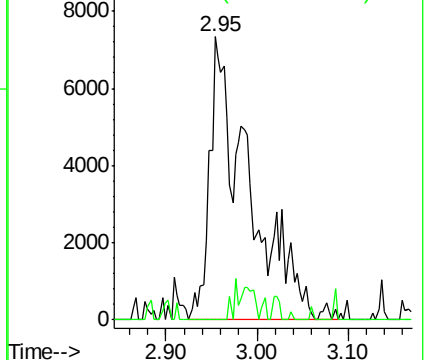
51 100

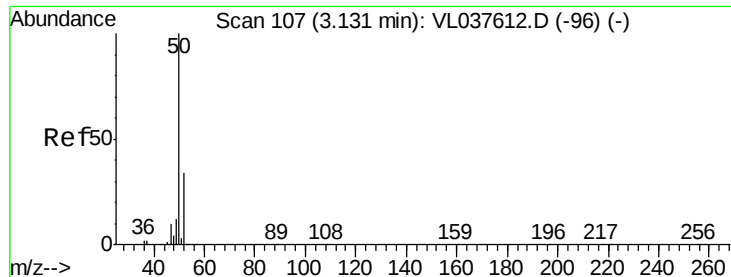
67 6.3 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL037748.D

Acq: 1 Oct 2021 19:19

Instrument :

MSVOA_L

ClientSampleId :

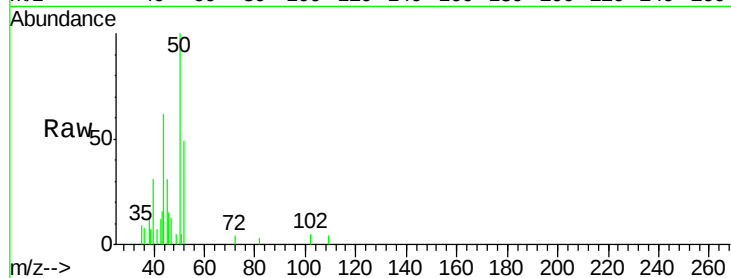
C0P24DL

Tgt Ion: 50 Resp: 3676

Ion Ratio Lower Upper

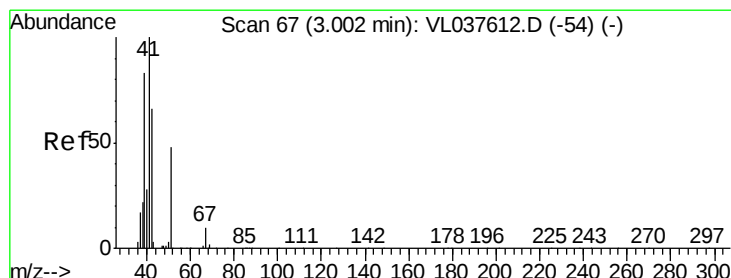
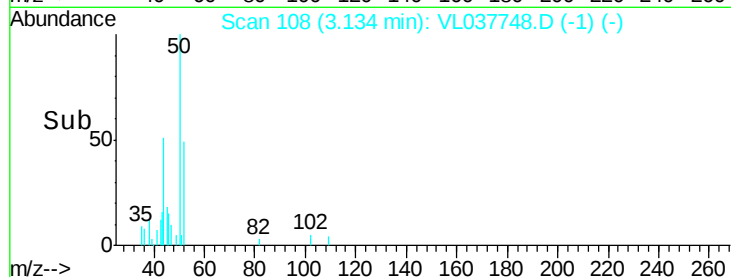
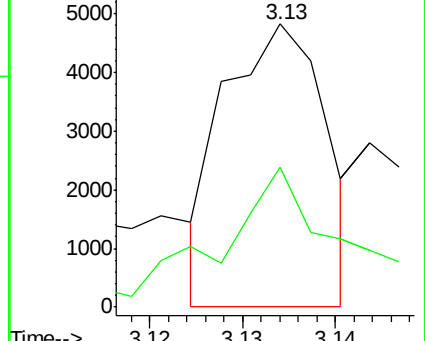
50 100

52 39.4 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: 0.438 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037748.D

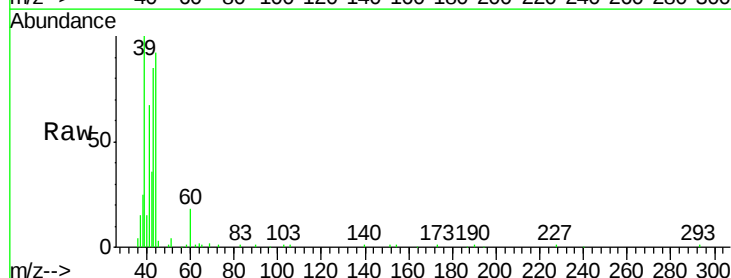
Acq: 1 Oct 2021 19:19

Tgt Ion: 41 Resp: 45096

Ion Ratio Lower Upper

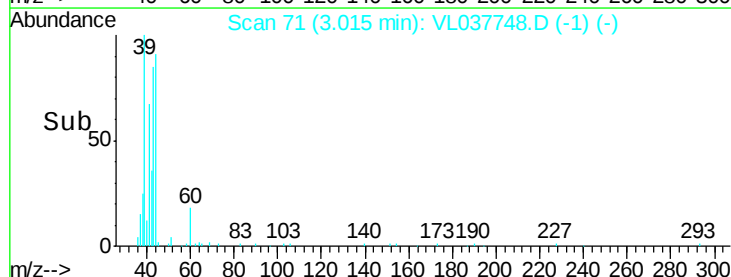
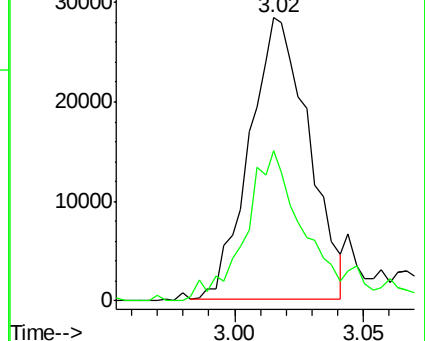
41 100

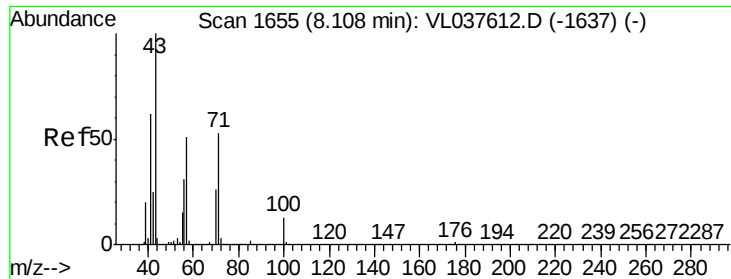
42 60.2 57.2 85.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

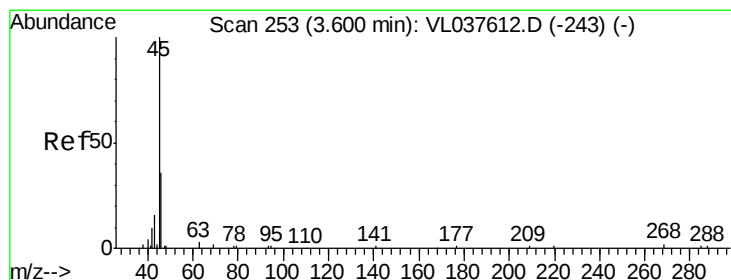
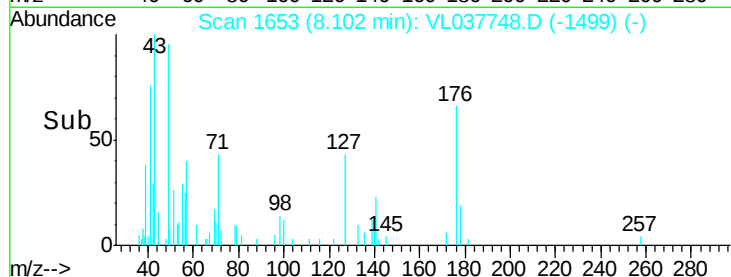
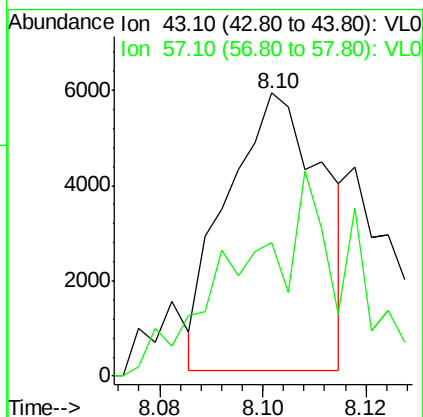
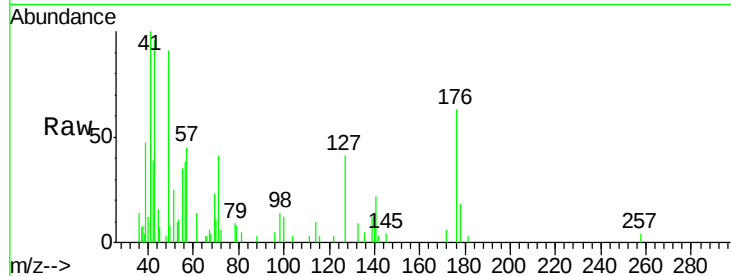




#10
Heptane
Concen: 0.031 ppbv
RT: 8.10 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

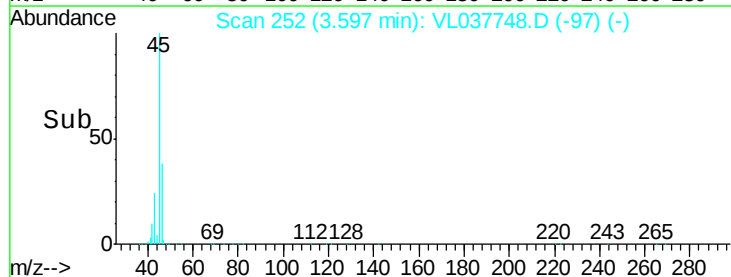
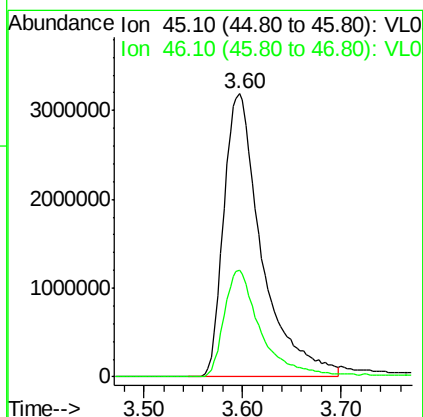
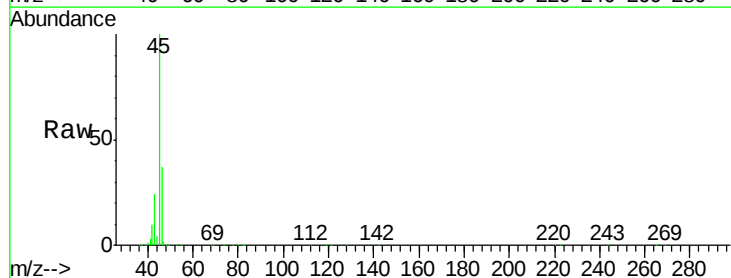
Instrument :
MSVOA_L
ClientSampleId :
C0P24DL

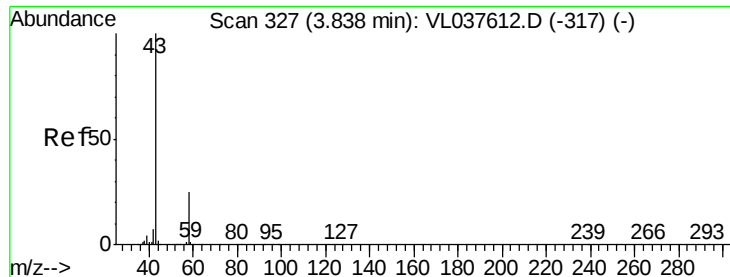
Tgt Ion: 43 Resp: 7522
Ion Ratio Lower Upper
43 100
57 91.4 40.1 60.1#



#13
Ethanol
Concen: 852.784 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

Tgt Ion: 45 Resp: 8591425
Ion Ratio Lower Upper
45 100
46 38.2 17.2 68.8





#15

Acetone

Concen: 19.676 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL037748.D

Acq: 1 Oct 2021 19:19

Instrument :

MSVOA_L

ClientSampleId :

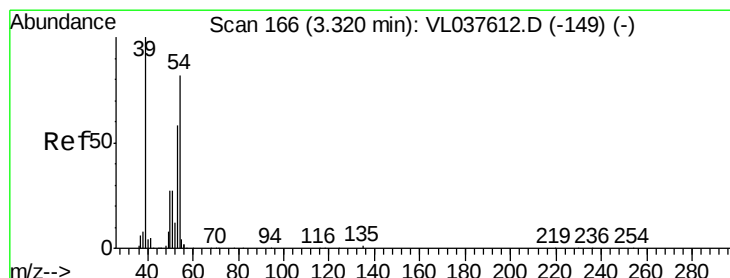
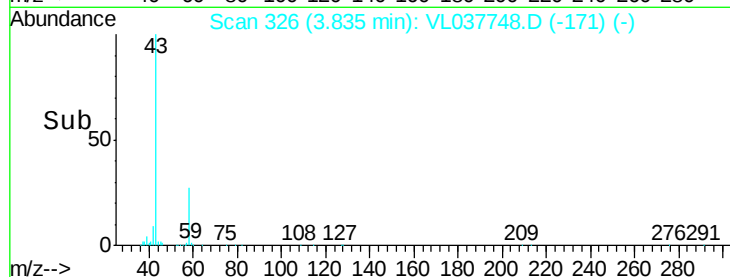
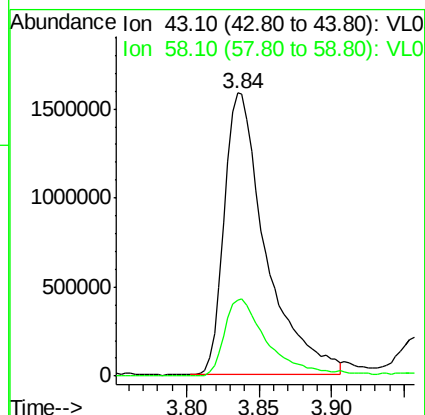
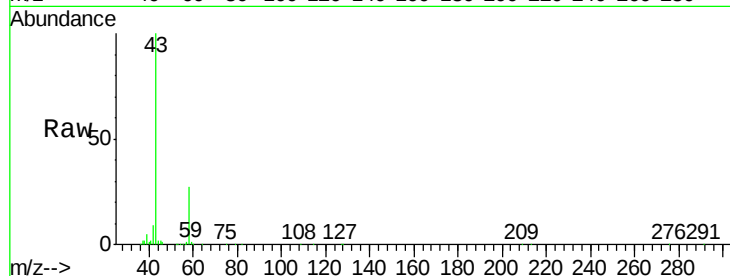
C0P24DL

Tgt Ion: 43 Resp: 3164664

Ion Ratio Lower Upper

43 100

58 28.8 24.9 37.3



#16

1,3-Butadiene

Concen: 0.060 ppbv

RT: 3.35 min Scan# 174

Delta R.T. 0.03 min

Lab File: VL037748.D

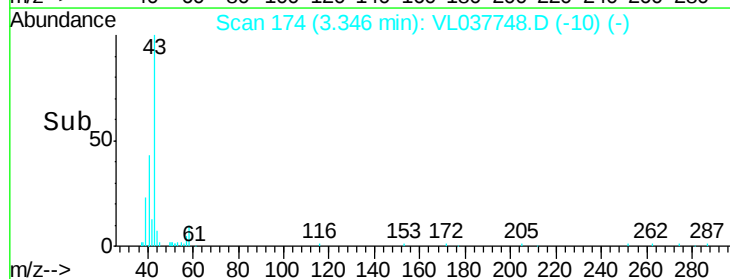
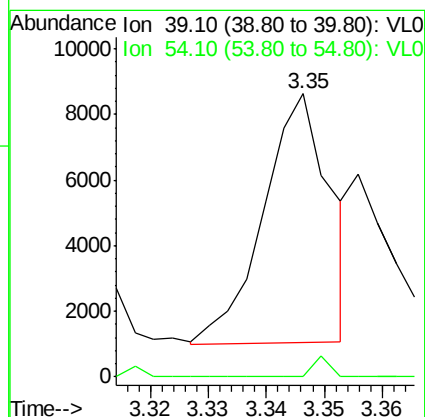
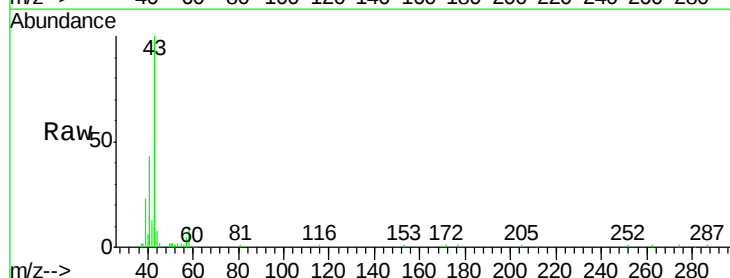
Acq: 1 Oct 2021 19:19

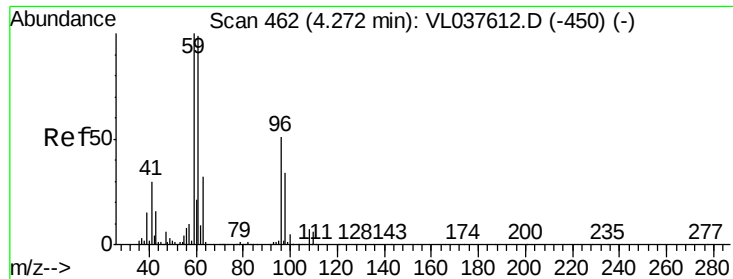
Tgt Ion: 39 Resp: 6040

Ion Ratio Lower Upper

39 100

54 2.0 62.6 93.8#





#17

tert-Butyl alcohol

Concen: 0.092 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.02 min

Lab File: VL037748.D

Acq: 1 Oct 2021 19:19

Instrument :

MSVOA_L

ClientSampleId :

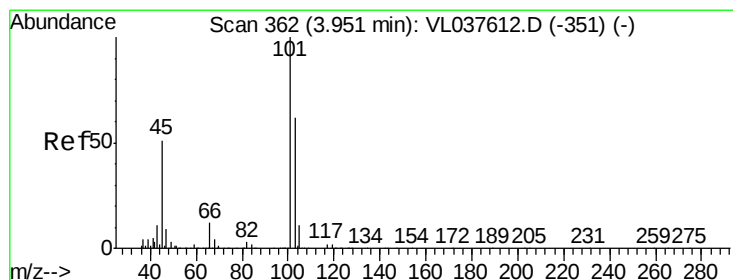
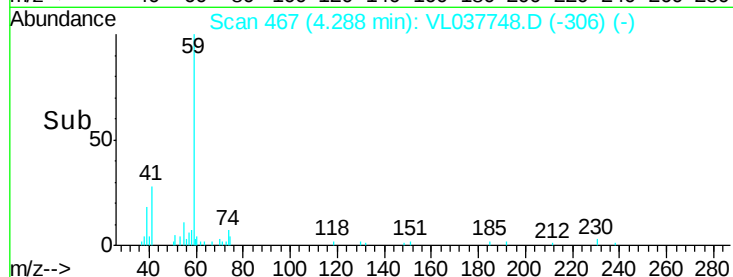
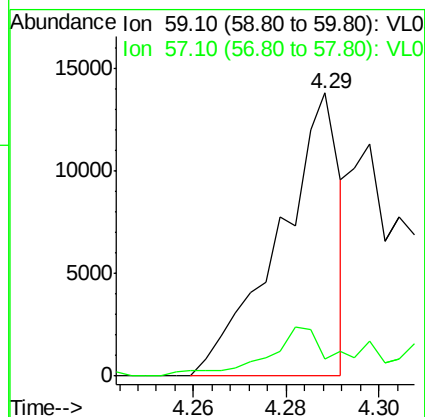
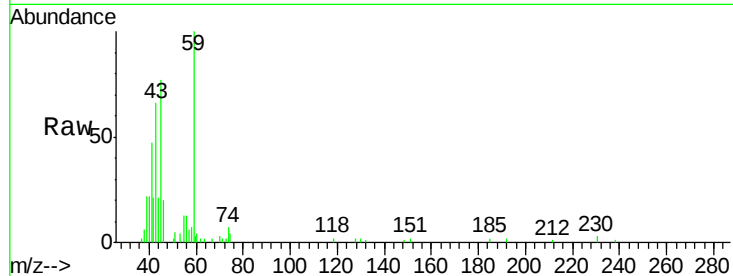
C0P24DL

Tgt Ion: 59 Resp: 12563

Ion Ratio Lower Upper

59 100

57 33.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 20.184 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL037748.D

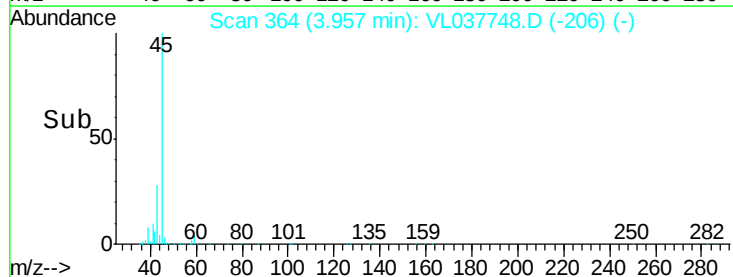
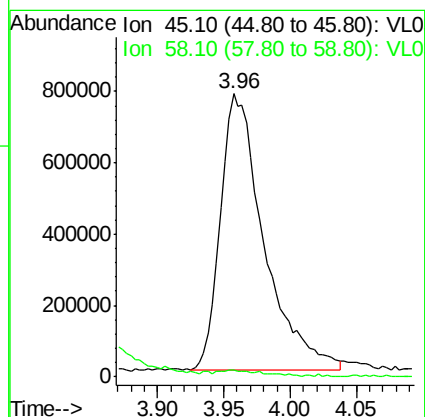
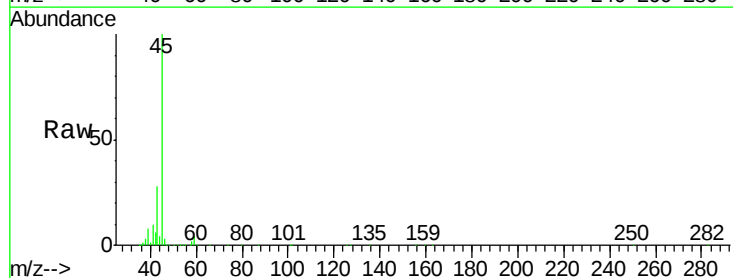
Acq: 1 Oct 2021 19:19

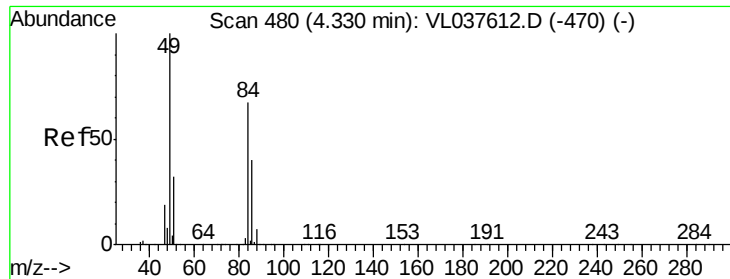
Tgt Ion: 45 Resp: 1766320

Ion Ratio Lower Upper

45 100

58 2.4 2.9 4.3#

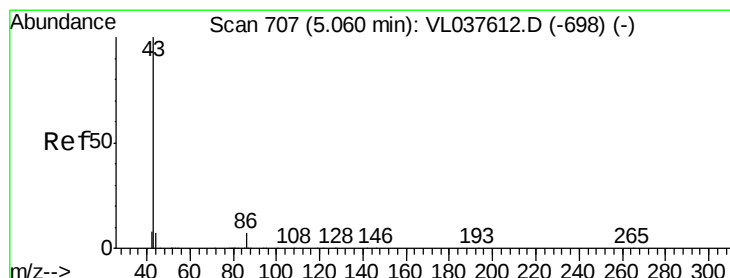
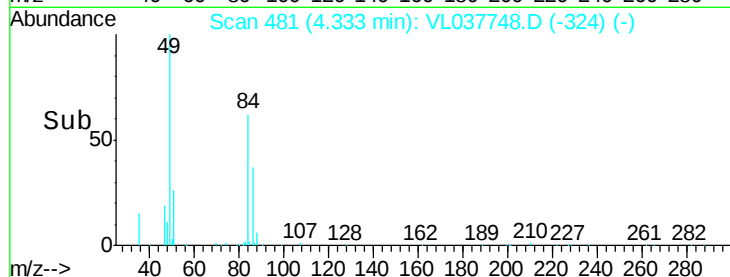
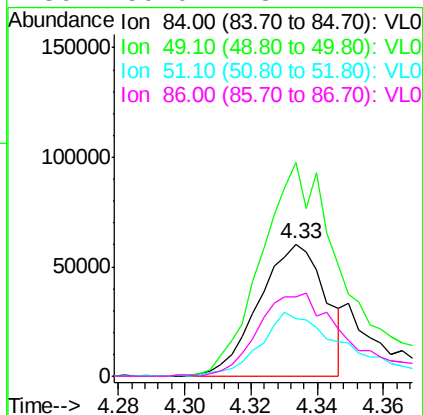
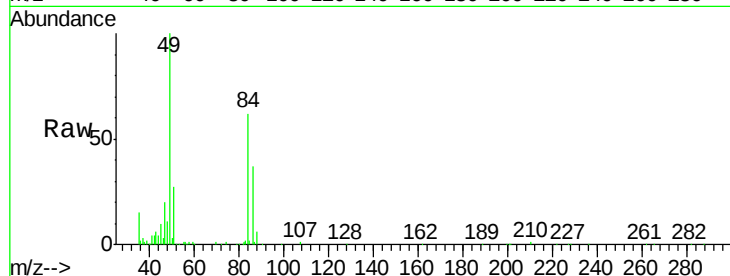




#20
Methylene Chloride
Concen: 1.103 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

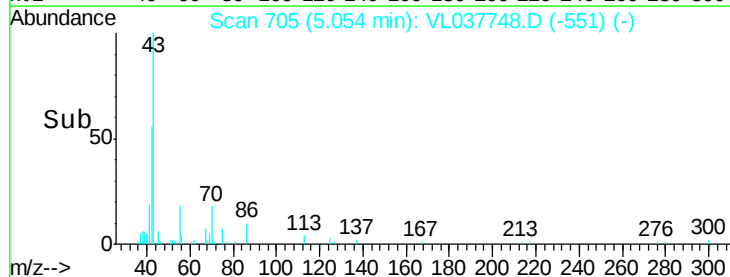
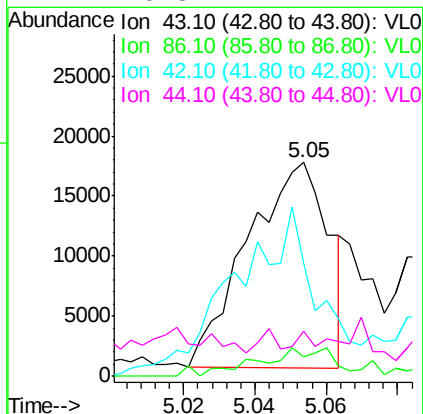
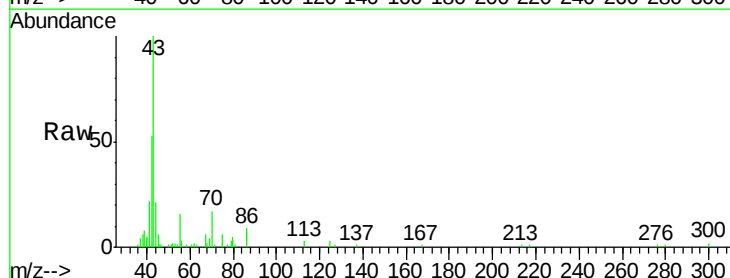
Instrument :
MSVOA_L
ClientSampled :
C0P24DL

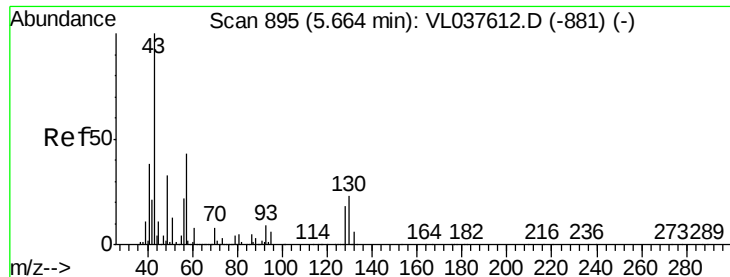
Tgt Ion:	84	Resp:	84691
Ion	Ratio	Lower	Upper
84	100		
49	160.7	120.0	180.0
51	43.0	38.0	57.0
86	59.0	48.2	72.2



#23
Vinyl Acetate
Concen: 0.121 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.01 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

Tgt Ion:	43	Resp:	26990
Ion	Ratio	Lower	Upper
43	100		
86	4.2	5.0	7.6#
42	44.1	7.5	11.3#
44	6.3	4.7	7.1

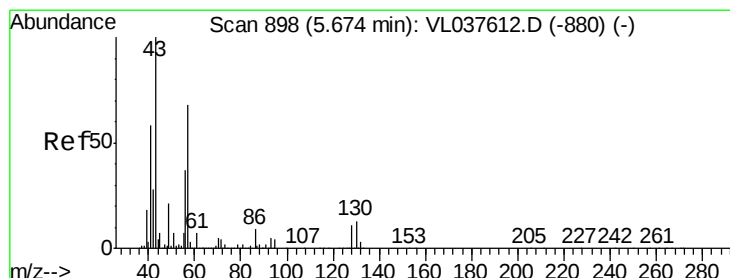
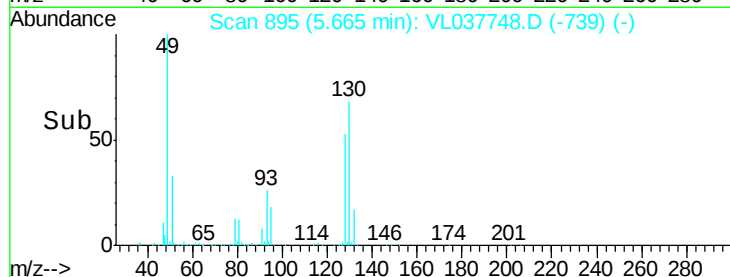
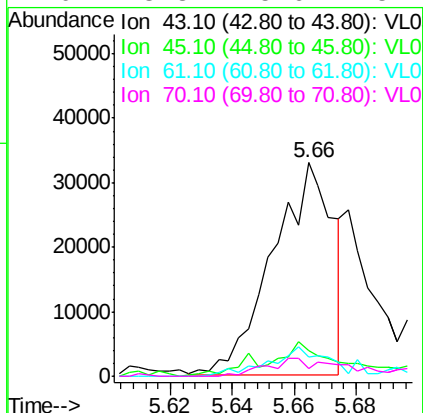
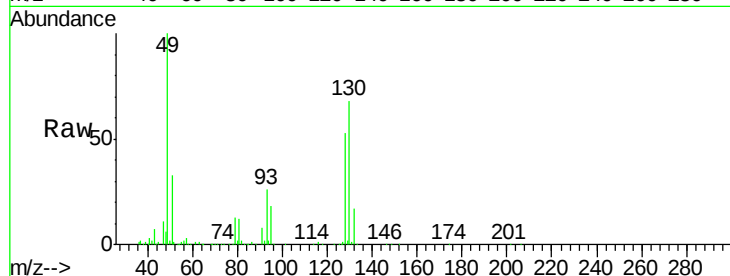




#25
Ethyl Acetate
Concen: 0.114 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

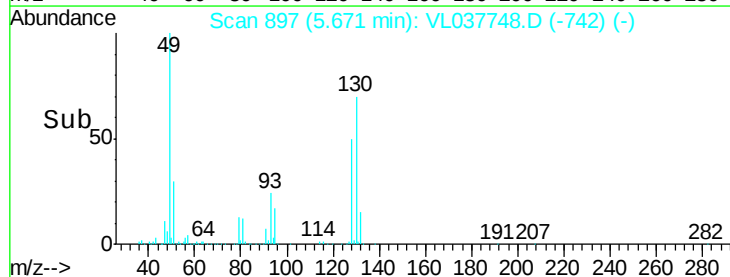
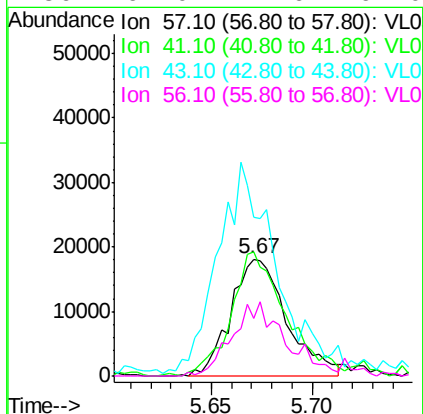
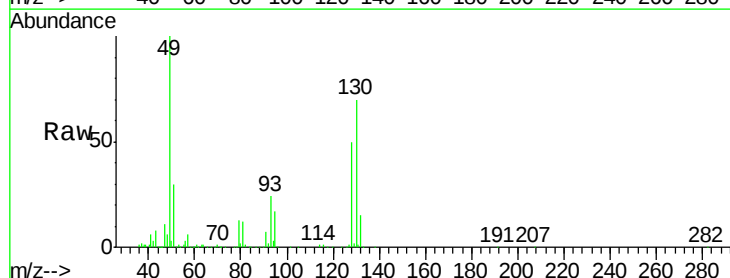
Instrument :
MSVOA_L
ClientSampleId :
C0P24DL

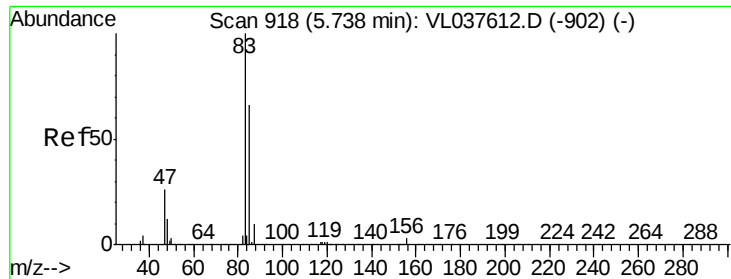
Tgt Ion:	43	Resp:	44585
Ion	Ratio	Lower	Upper
43	100		
45	21.6	8.0	12.0#
61	15.7	7.5	11.3#
70	13.3	5.6	8.4#



#26
Hexane
Concen: 0.191 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

Tgt Ion:	57	Resp:	35336
Ion	Ratio	Lower	Upper
57	100		
41	109.7	70.9	106.3#
43	196.9	170.4	255.6
56	64.0	42.6	64.0#





#29

Chloroform

Concen: 0.045 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.01 min

Lab File: VL037748.D

Acq: 1 Oct 2021 19:19

Instrument :

MSVOA_L

ClientSampleId :

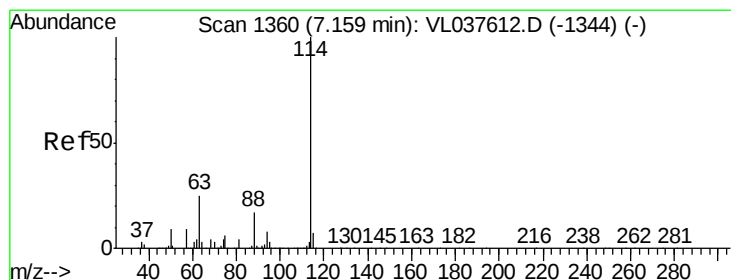
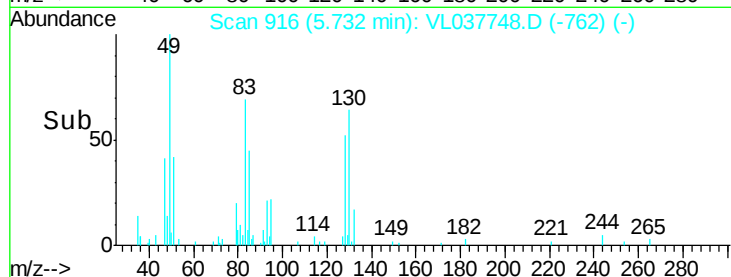
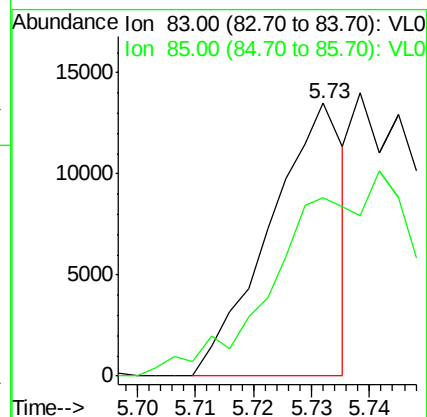
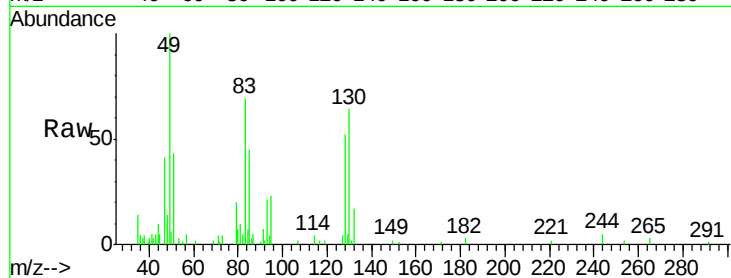
C0P24DL

Tgt Ion: 83 Resp: 12047

Ion Ratio Lower Upper

83 100

85 59.9 52.6 79.0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VL037748.D

Acq: 1 Oct 2021 19:19

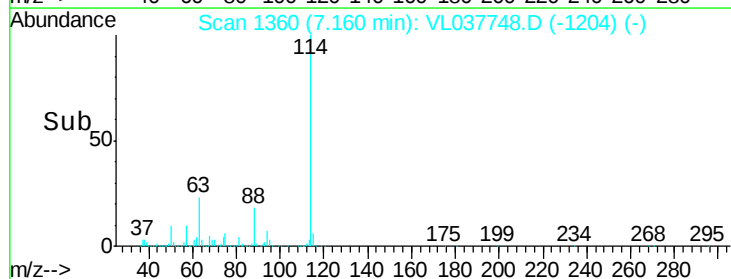
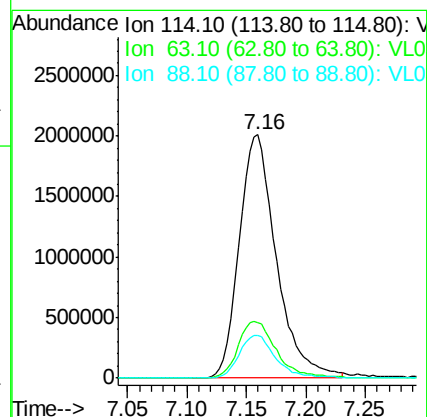
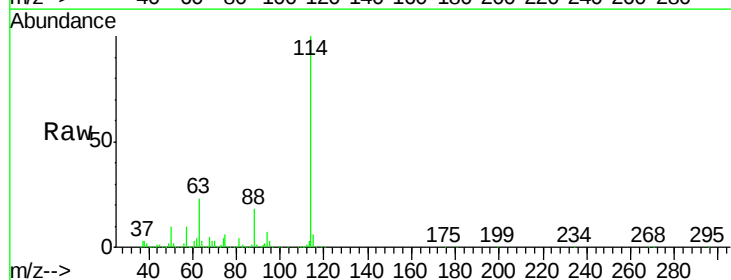
Tgt Ion: 114 Resp: 4347027

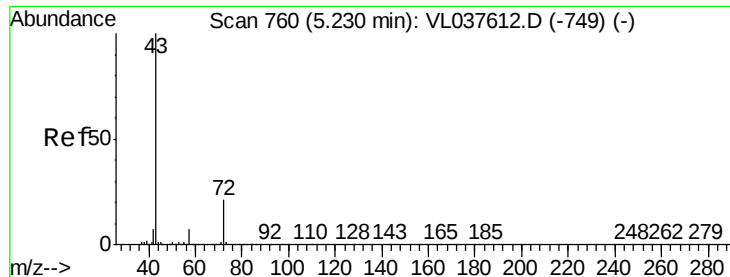
Ion Ratio Lower Upper

114 100

63 24.4 19.6 29.4

88 17.8 14.2 21.4

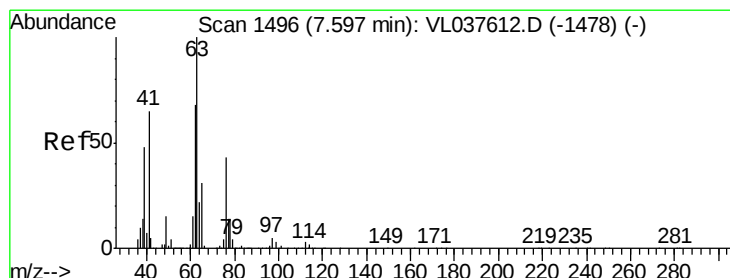
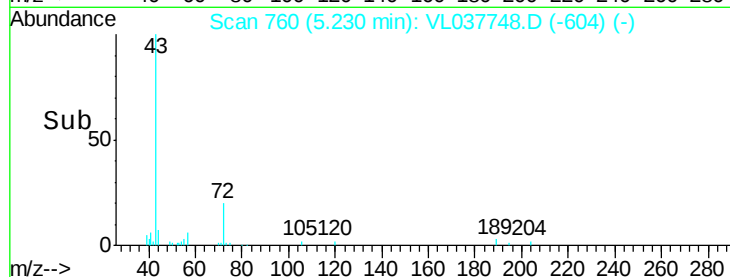
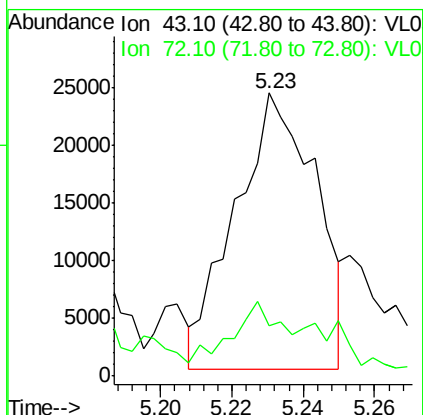
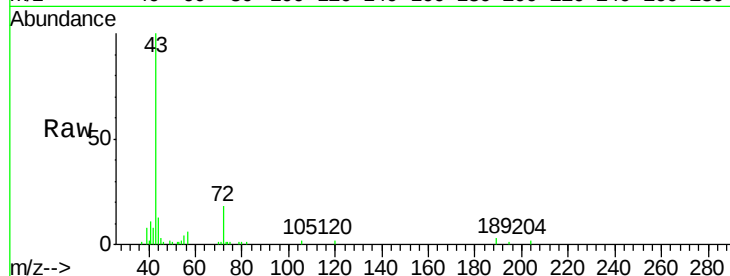




#34
2-Butanone
Concen: 0.212 ppbv
RT: 5.23 min Scan# 760
Delta R.T. 0.00 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

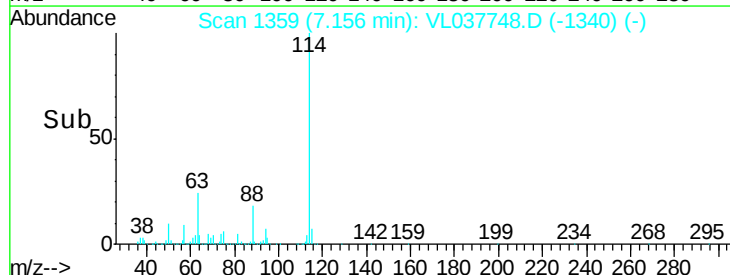
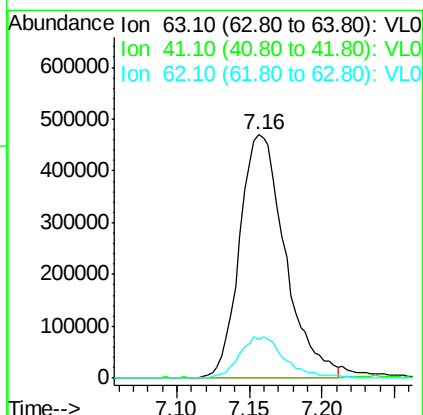
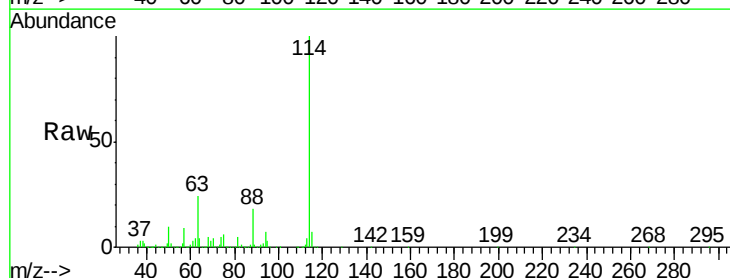
Instrument :
MSVOA_L
ClientSampled :
C0P24DL

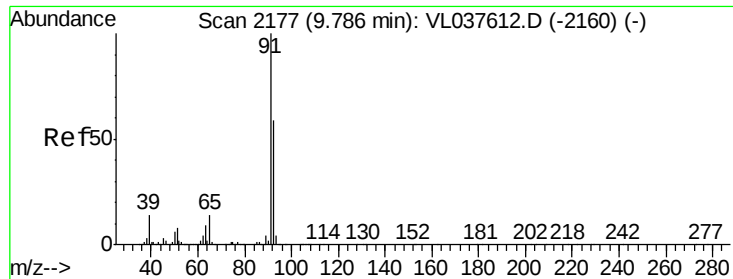
Tgt Ion: 43 Resp: 37396
Ion Ratio Lower Upper
43 100
72 38.3 18.4 27.6#



#39
1,2-Dichloropropane
Concen: 7.387 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.44 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

Tgt Ion: 63 Resp: 1025547
Ion Ratio Lower Upper
63 100
41 0.0 51.6 77.4#
62 15.9 54.6 81.8#





#53

Toluene

Concen: 0.408 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037748.D

Acq: 1 Oct 2021 19:19

Instrument :

MSVOA_L

ClientSampleId :

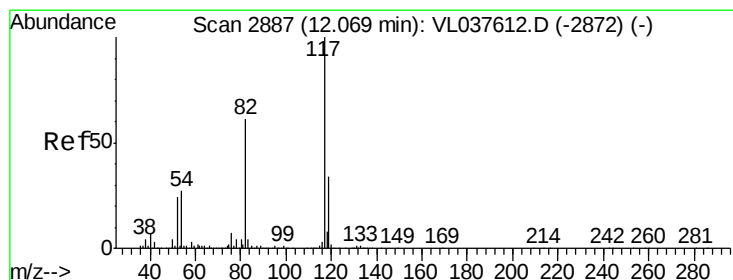
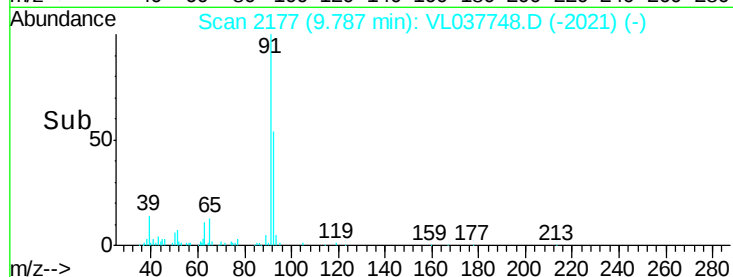
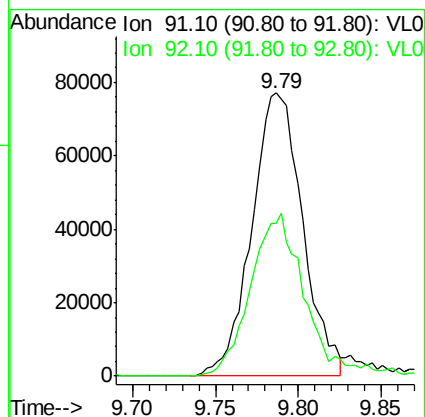
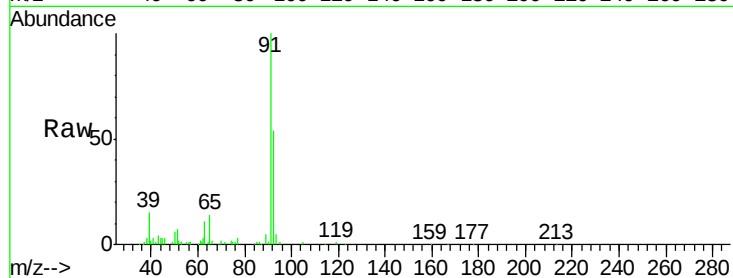
C0P24DL

Tgt Ion: 91 Resp: 164463

Ion Ratio Lower Upper

91 100

92 61.8 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: VL037748.D

Acq: 1 Oct 2021 19:19

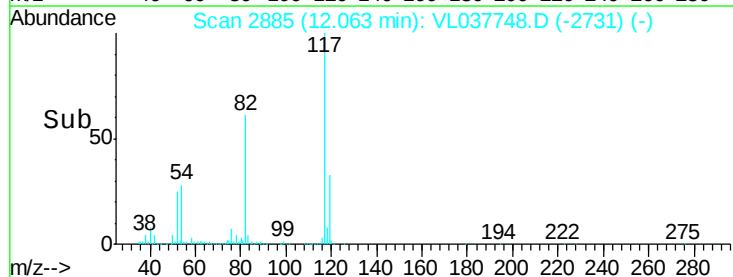
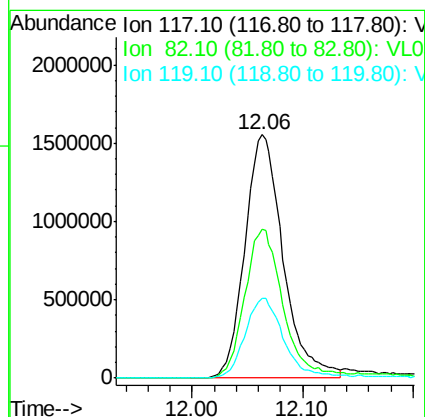
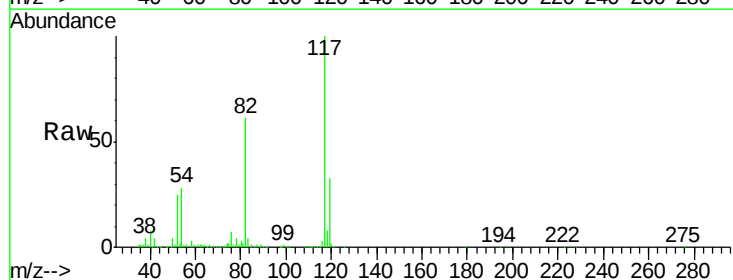
Tgt Ion: 117 Resp: 3732690

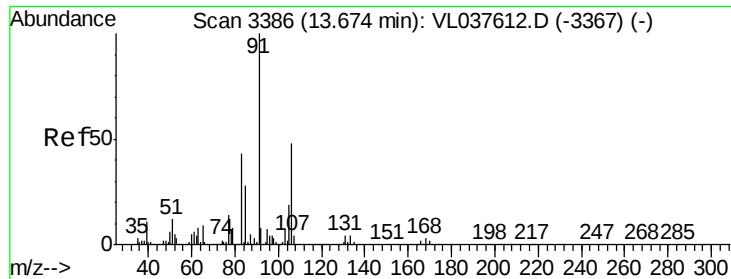
Ion Ratio Lower Upper

117 100

82 65.8 50.6 75.8

119 34.5 26.2 39.2

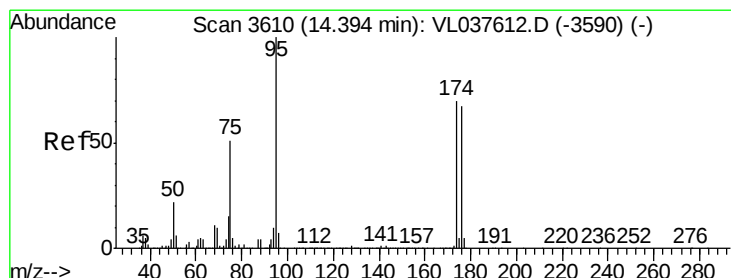
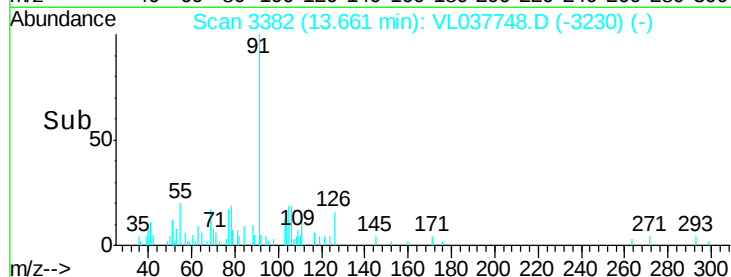
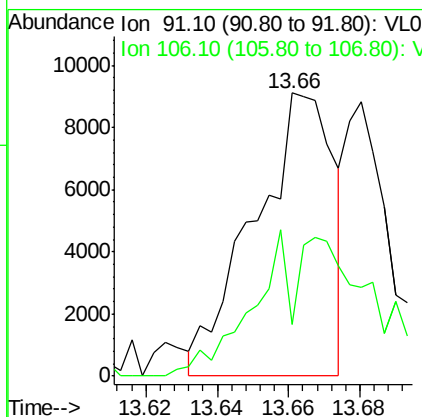
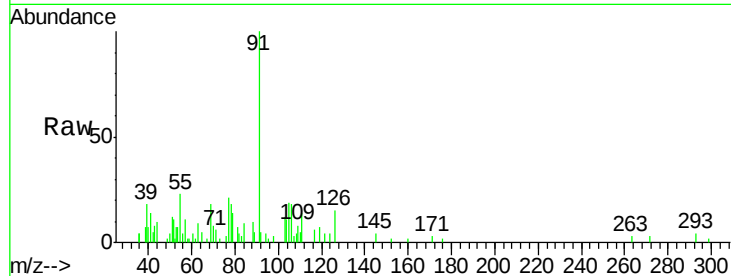




#60
o-Xylene
Concen: 0.034 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.01 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

Instrument :
MSVOA_L
ClientSampleId :
C0P24DL

Tgt Ion: 91 Resp: 13965
Ion Ratio Lower Upper
91 100
106 71.8 23.0 69.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.223 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. 0.00 min
Lab File: VL037748.D
Acq: 1 Oct 2021 19:19

Tgt Ion: 95 Resp: 2757679
Ion Ratio Lower Upper
95 100
174 71.5 56.3 84.5
175 5.2 4.4 6.6

