

Data File : VL035101.D
Acq On : 19 Jun 2020 19:04
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Jun 20 01:21:10 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061920AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Sat Jun 20 01:15:38 2020
QLast Update : Sat Jun 20 01:15:38 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1296172	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2997354	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2834737	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2428178	10.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

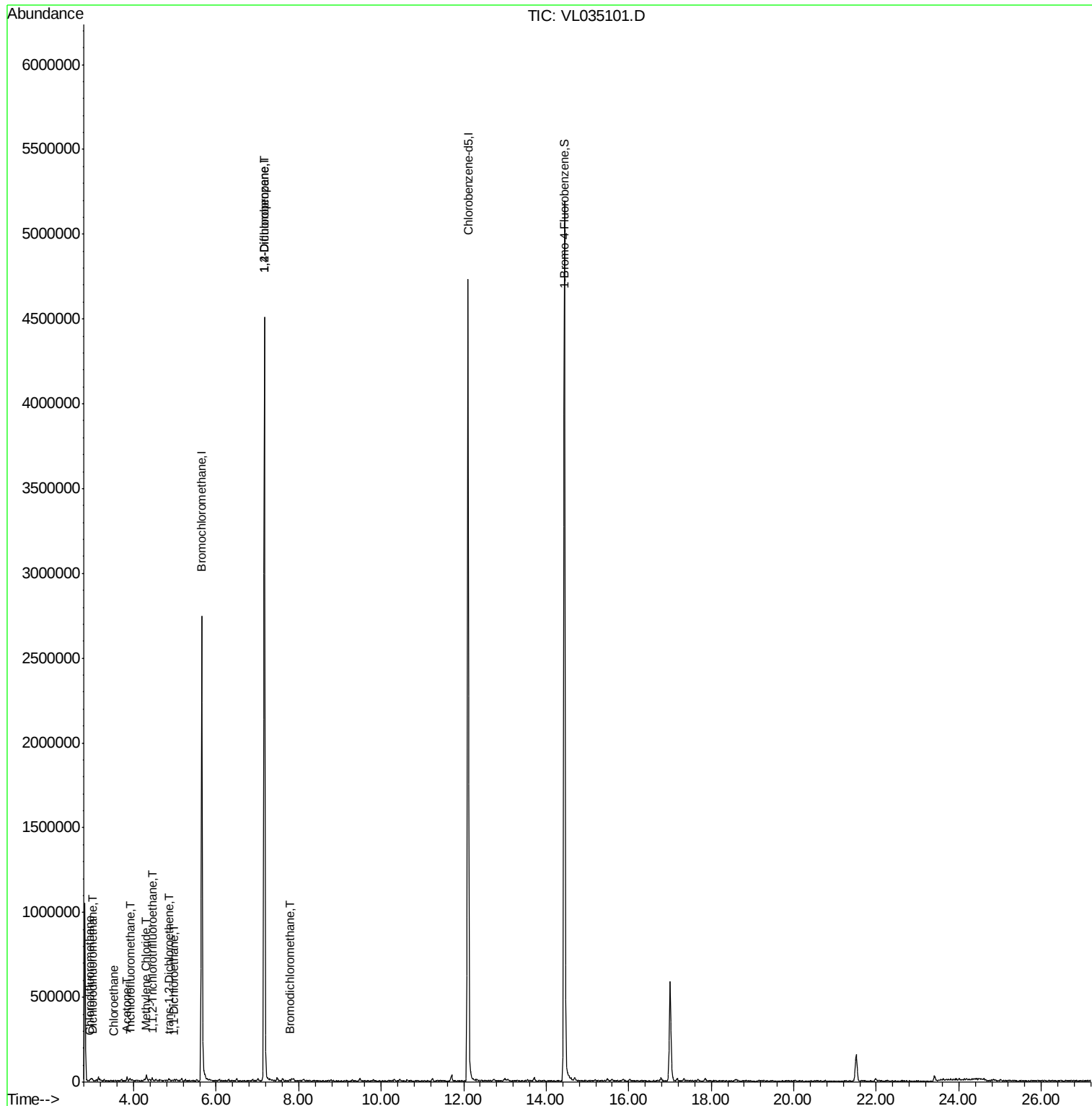
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.00	85	9441	0.051	ppbv #	87
3) Chlorodifluoromethane	2.94	51	6518	0.044	ppbv	95
7) Chloroethane	3.52	64	950	0.032	ppbv	94
11) Trichlorofluoromethane	3.92	101	7513	0.040	ppbv #	45
12) 1,1,2-Trichlorotrifluoroet	4.45	101	4230	0.031	ppbv	85
15) Acetone	3.83	43	20396	0.119	ppbv #	70
20) Methylene Chloride	4.31	84	9438	0.167	ppbv #	92
22) trans-1,2-Dichloroethene	4.86	96	1790	0.031	ppbv #	76
24) 1,1-Dichloroethane	4.98	63	6627	0.040	ppbv #	96
39) 1,2-Dichloropropane	7.17	63	820218	8.300	ppbv #	24
42) Bromodichloromethane	7.79	83	6278	0.031	ppbv #	55

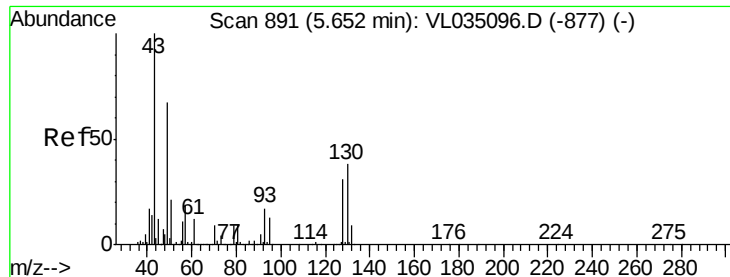
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 20 01:21:10 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 01:15:38 2020
QLast Update : Sat Jun 20 01:15:38 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

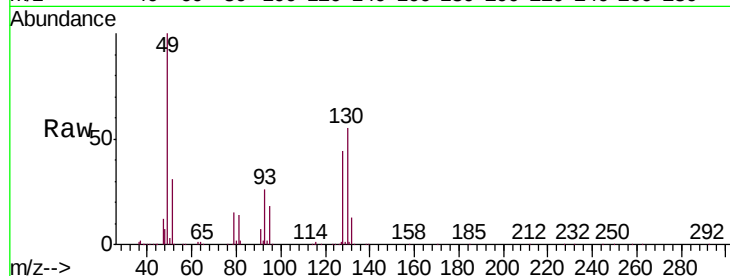
Tgt Ion: 49 Resp: 1296172

Ion Ratio Lower Upper

49 100

128 46.7 22.9 68.5

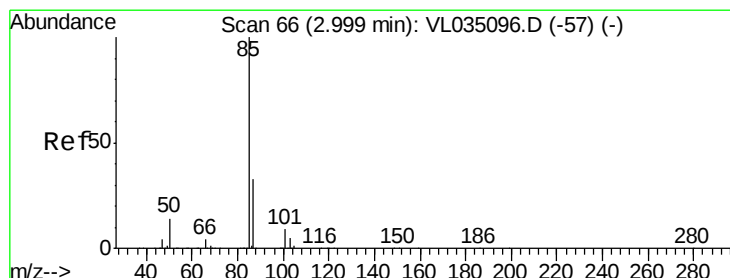
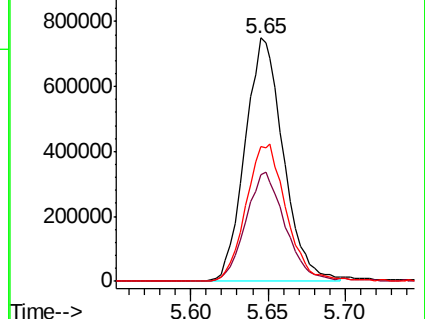
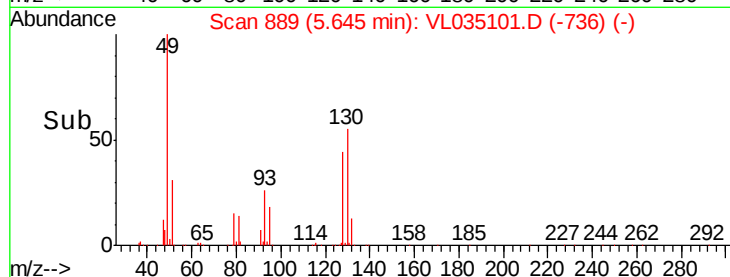
130 59.5 29.0 87.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.051 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL035101.D

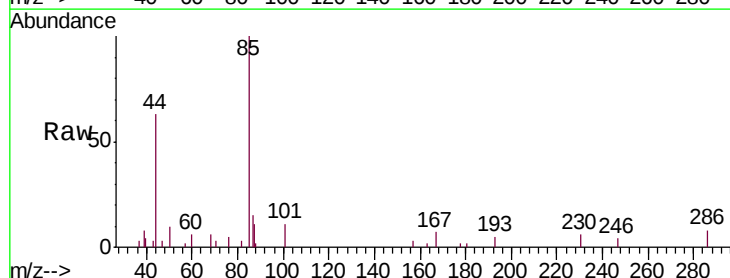
Acq: 19 Jun 2020 19:04

Tgt Ion: 85 Resp: 9441

Ion Ratio Lower Upper

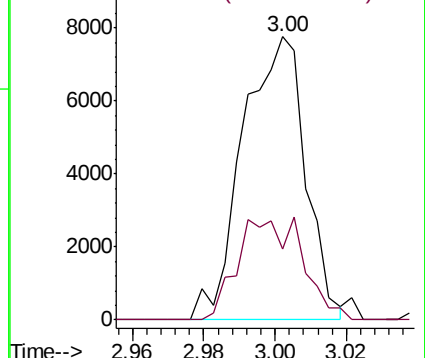
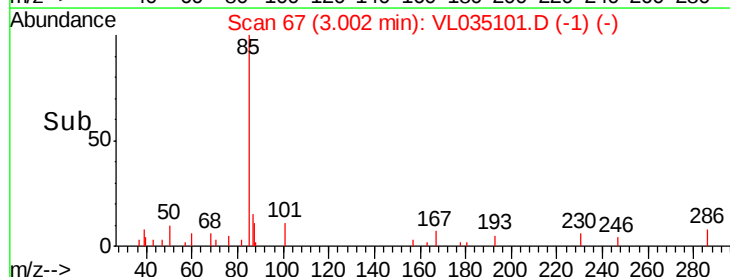
85 100

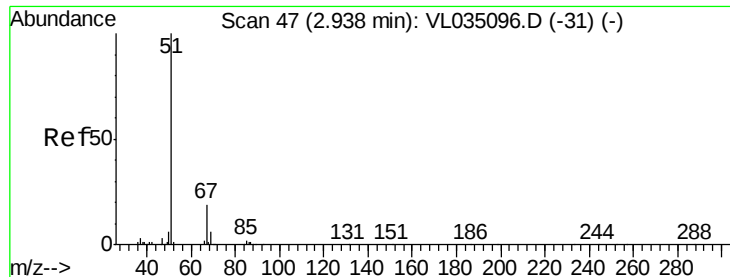
87 25.2 26.1 39.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

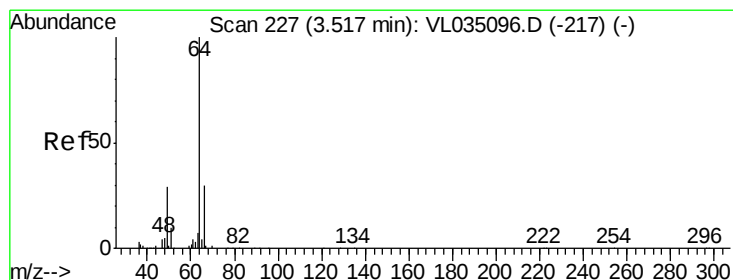
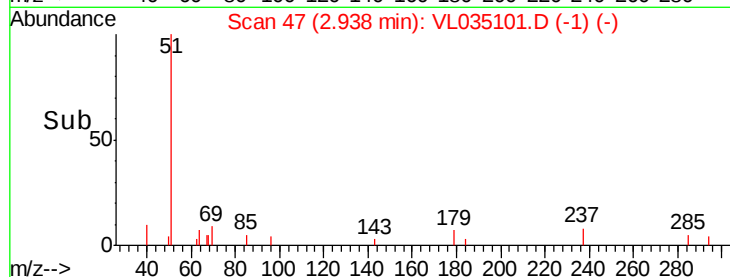
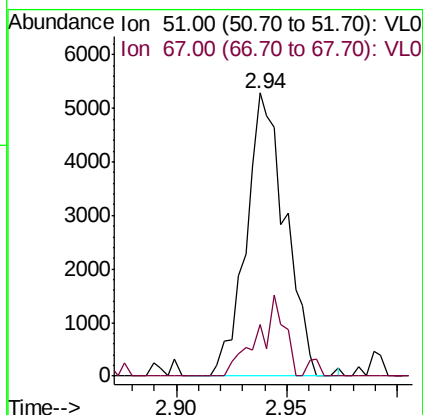
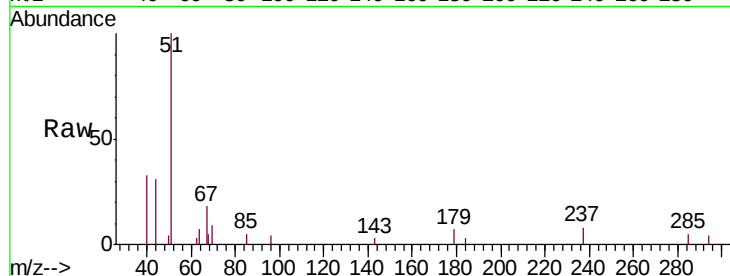




#3
Chlorodifluoromethane
Concen: 0.044 ppbv
RT: 2.94 min Scan# 47
Delta R.T. -0.00 min
Lab File: VL035101.D
Acq: 19 Jun 2020 19:04

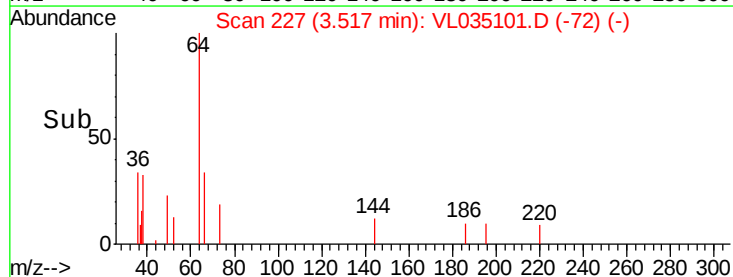
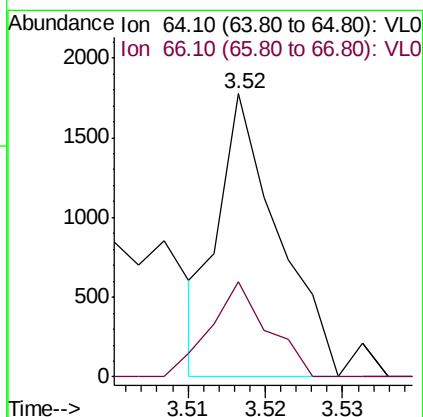
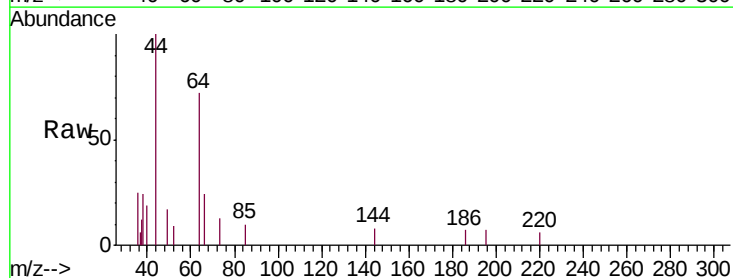
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

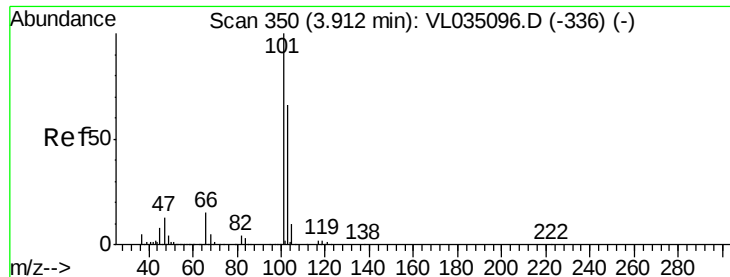
Tgt Ion: 51 Resp: 6518
Ion Ratio Lower Upper
51 100
67 21.2 15.2 22.8



#7
Chloroethane
Concen: 0.032 ppbv
RT: 3.52 min Scan# 227
Delta R.T. -0.00 min
Lab File: VL035101.D
Acq: 19 Jun 2020 19:04

Tgt Ion: 64 Resp: 950
Ion Ratio Lower Upper
64 100
66 33.7 24.2 36.4





#11

Trichlorofluoromethane

Concen: 0.040 ppbv

RT: 3.92 min Scan# 351

Delta R.T. 0.00 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

Instrument :

MSVOA_L

ClientSampleId :

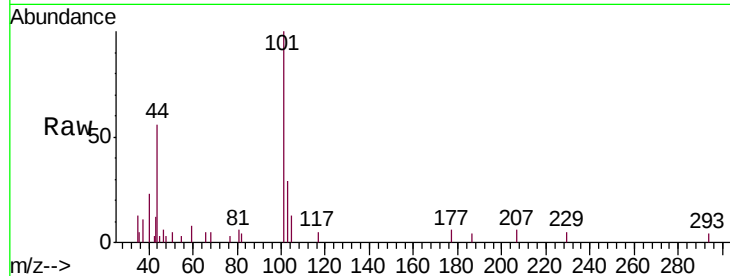
VSTDIC0.03

Tgt Ion:101 Resp: 7513

Ion Ratio Lower Upper

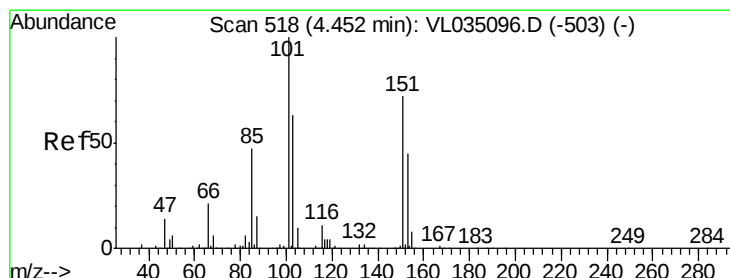
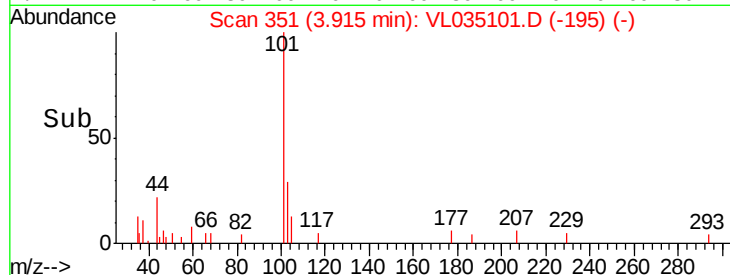
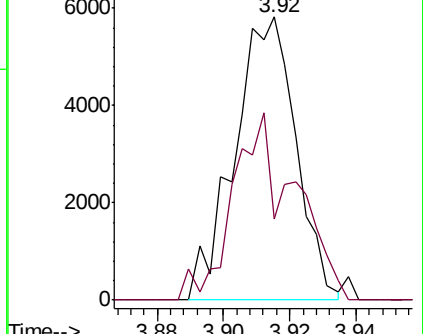
101 100

103 21.8 52.6 79.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.45 min Scan# 518

Delta R.T. -0.00 min

Lab File: VL035101.D

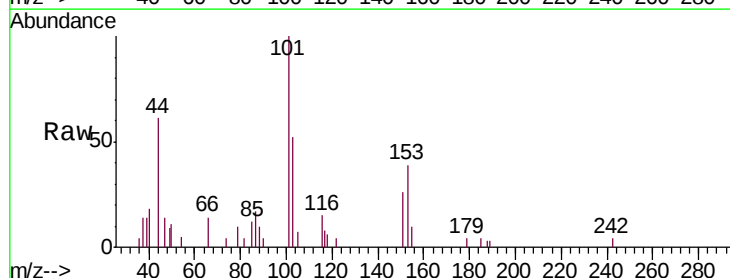
Acq: 19 Jun 2020 19:04

Tgt Ion:101 Resp: 4230

Ion Ratio Lower Upper

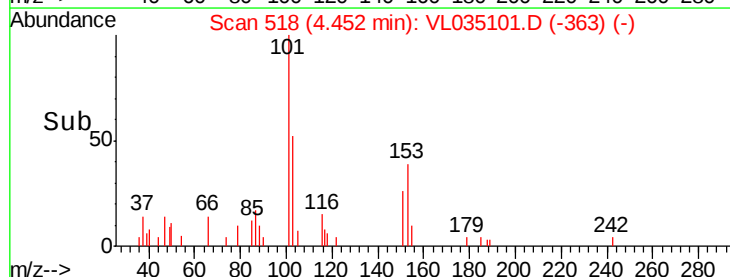
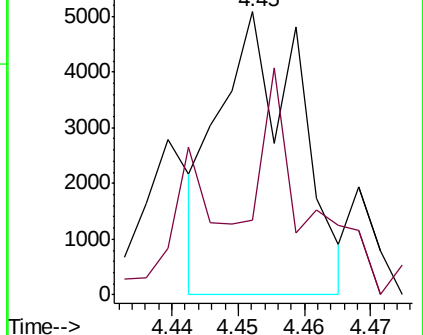
101 100

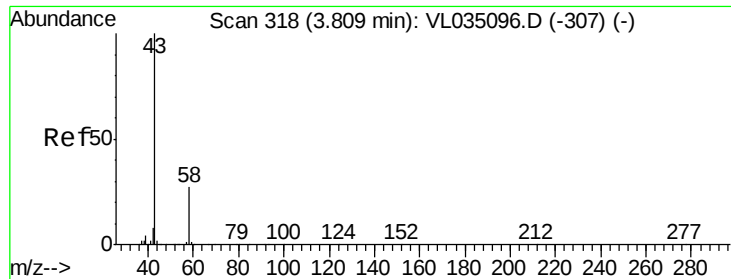
151 82.8 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

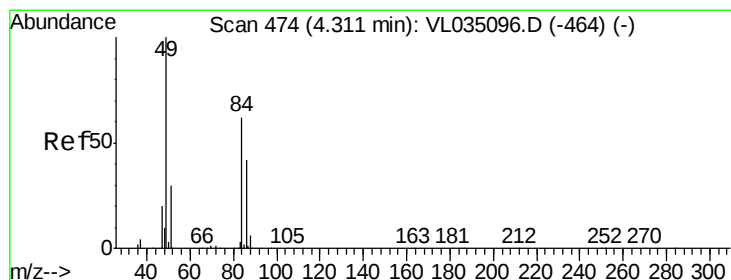
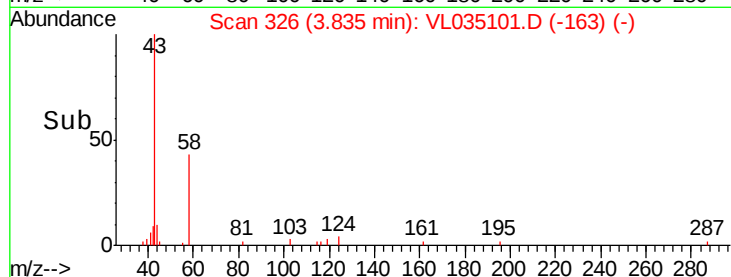
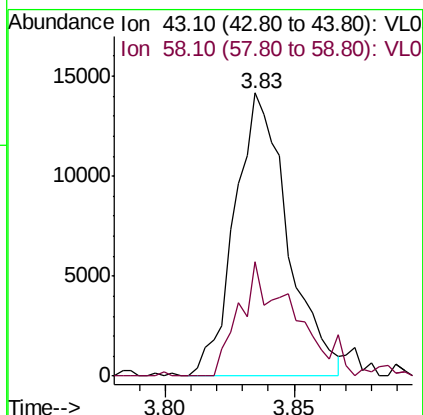
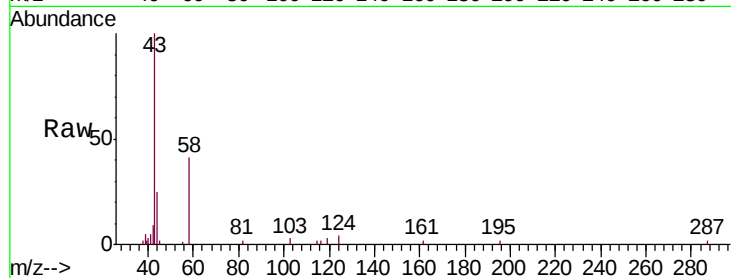




#15
Acetone
Concen: 0.119 ppbv
RT: 3.83 min Scan# 326
Delta R.T. 0.03 min
Lab File: VL035101.D
Acq: 19 Jun 2020 19:04

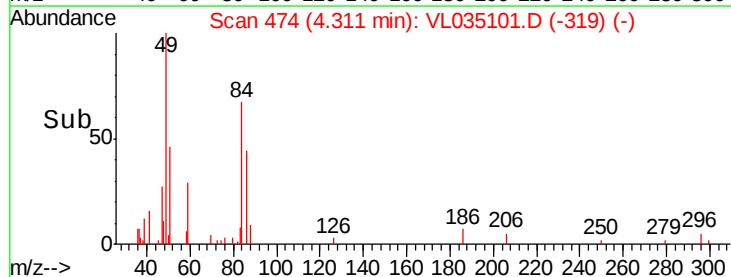
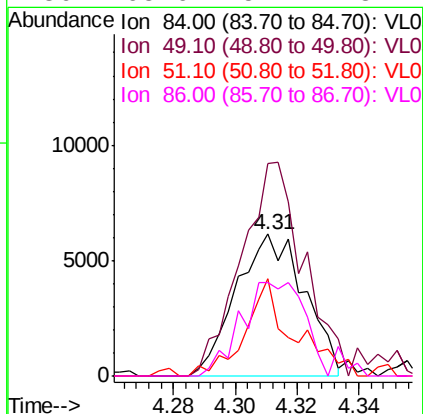
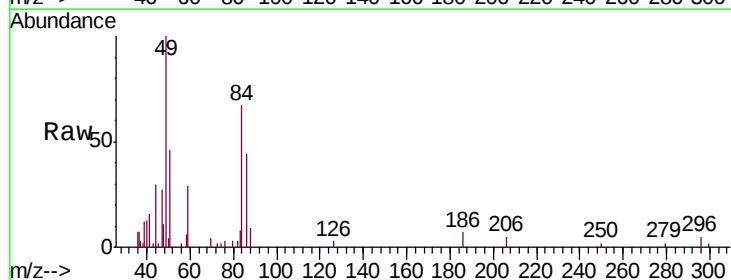
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

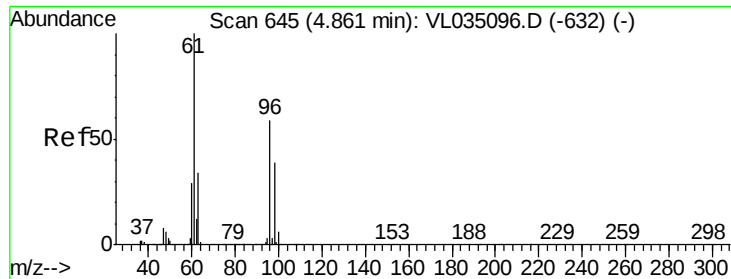
Tgt Ion: 43 Resp: 20396
Ion Ratio Lower Upper
43 100
58 43.0 21.8 32.6#



#20
Methylene Chloride
Concen: 0.167 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.00 min
Lab File: VL035101.D
Acq: 19 Jun 2020 19:04

Tgt Ion: 84 Resp: 9438
Ion Ratio Lower Upper
84 100
49 156.2 128.8 193.2
51 68.4 38.7 58.1#
86 65.6 54.1 81.1





#22

trans-1,2-Dichloroethene

Concen: 0.031 ppbv

RT: 4.86 min Scan# 644

Delta R.T. -0.00 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

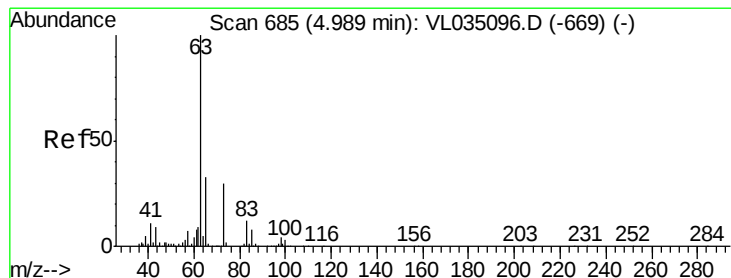
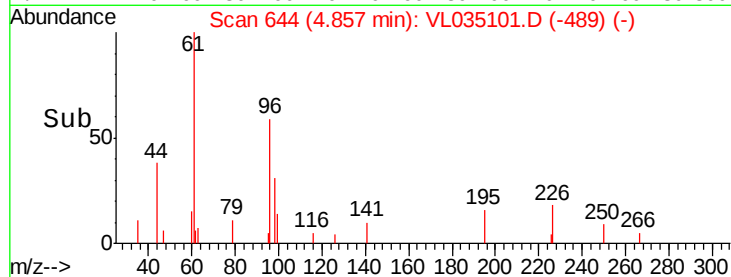
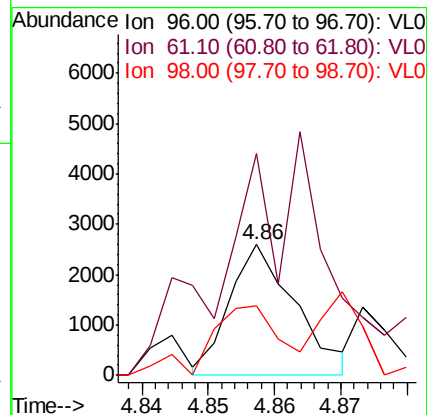
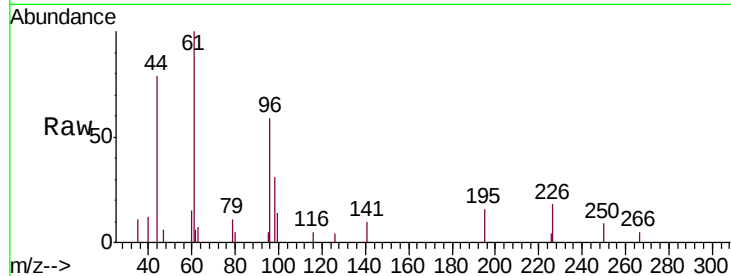
Tgt Ion: 96 Resp: 1790

Ion Ratio Lower Upper

96 100

61 129.5 134.5 201.7#

98 56.5 52.6 79.0



#24

1,1-Dichloroethane

Concen: 0.040 ppbv

RT: 4.98 min Scan# 683

Delta R.T. -0.01 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

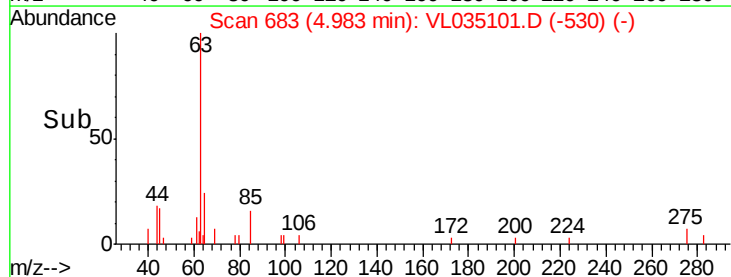
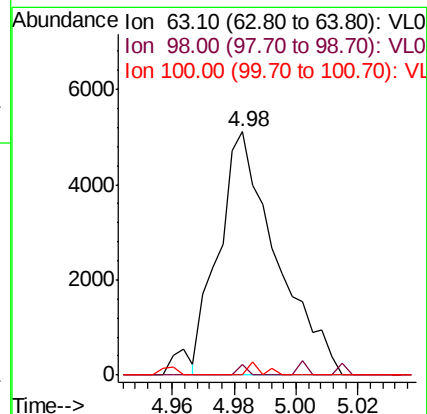
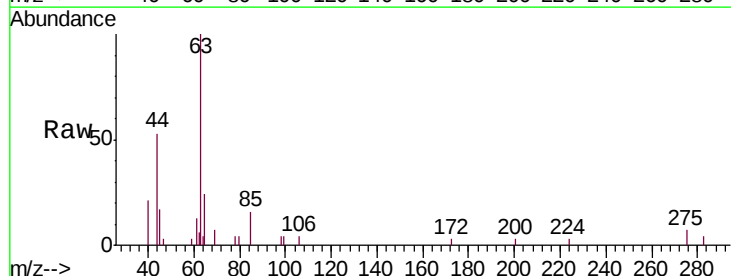
Tgt Ion: 63 Resp: 6627

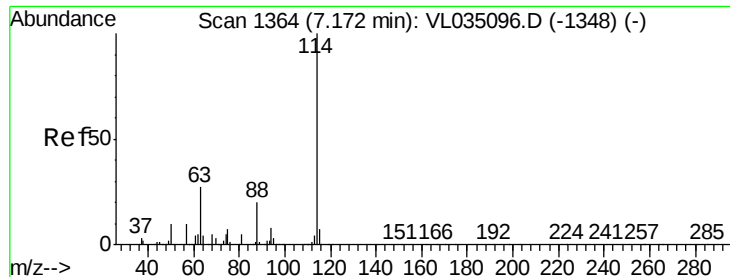
Ion Ratio Lower Upper

63 100

98 4.3 2.3 6.9

100 0.0 1.4 4.0#

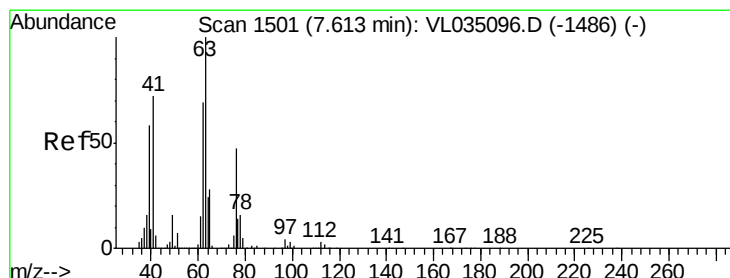
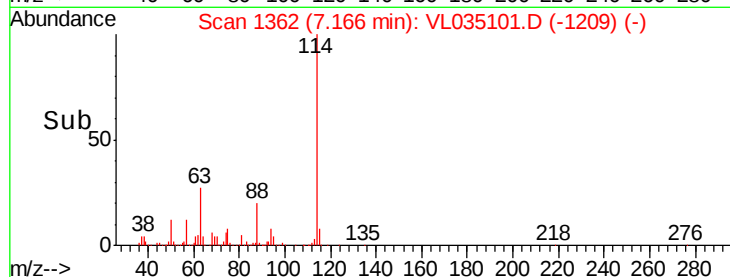
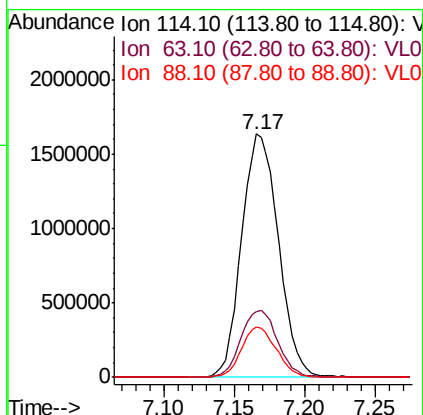
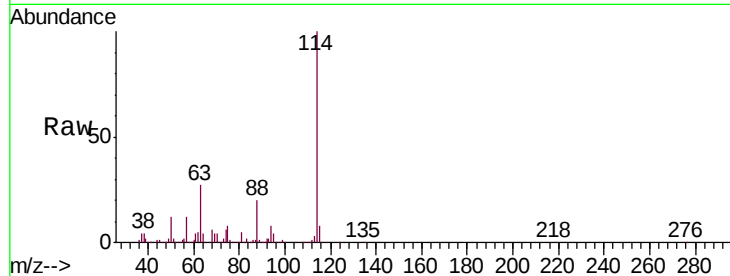




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: VL035101.D
 Acq: 19 Jun 2020 19:04

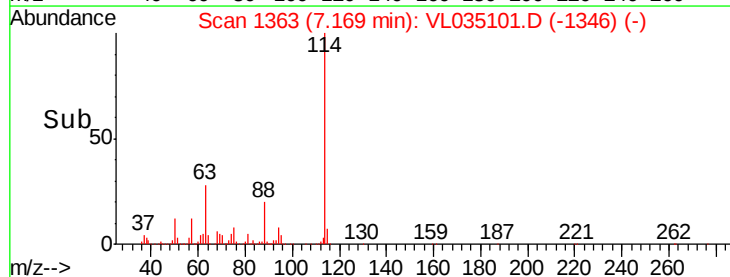
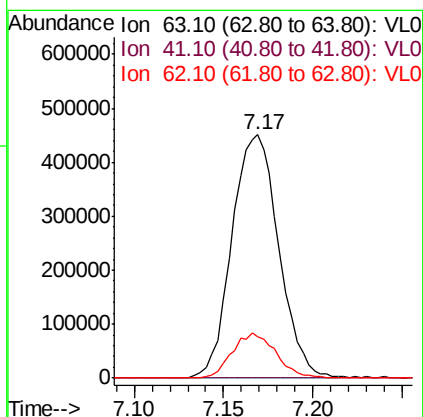
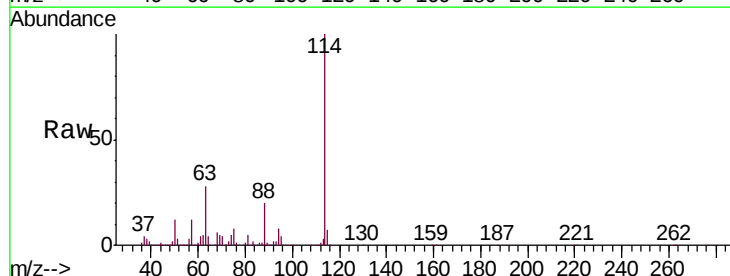
Instrument :
 MSVOA_L
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 VSTDIC0.03

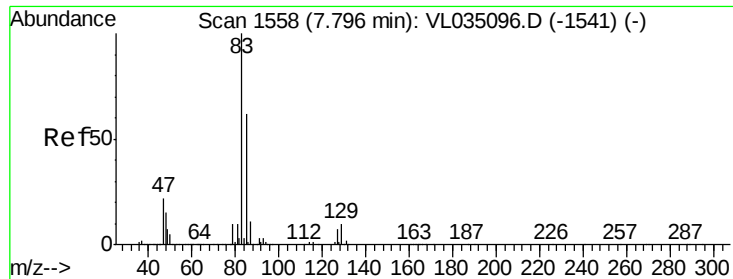
Tgt Ion:114 Resp: 2997354
 Ion Ratio Lower Upper
 114 100
 63 27.7 21.9 32.9
 88 19.6 15.6 23.4



#39
 1,2-Dichloropropane
 Concen: 8.300 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.44 min
 Lab File: VL035101.D
 Acq: 19 Jun 2020 19:04

Tgt Ion: 63 Resp: 820218
 Ion Ratio Lower Upper
 63 100
 41 0.1 58.0 87.0#
 62 17.0 55.4 83.0#





#42

Bromodichloromethane

Concen: 0.031 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

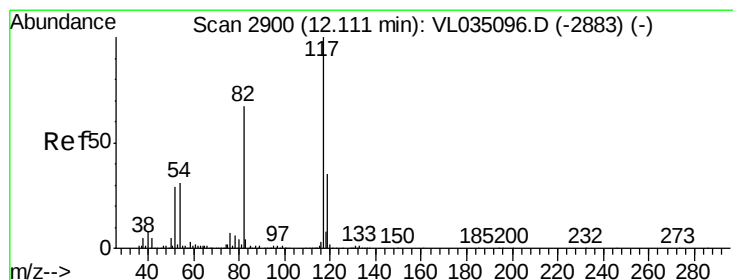
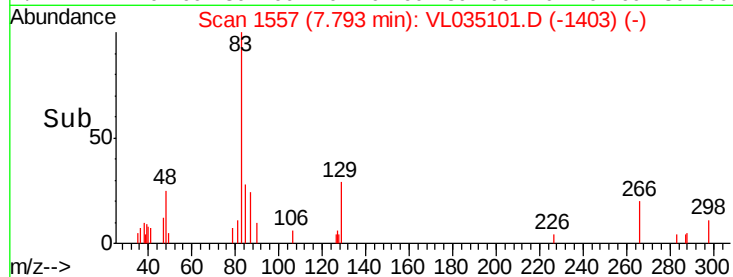
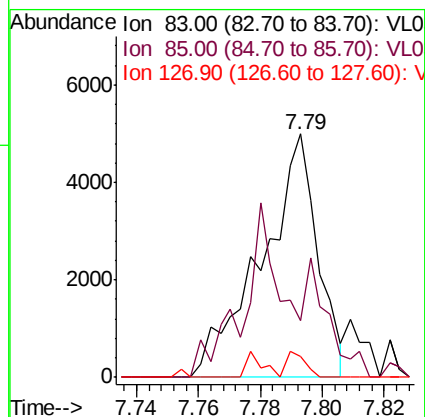
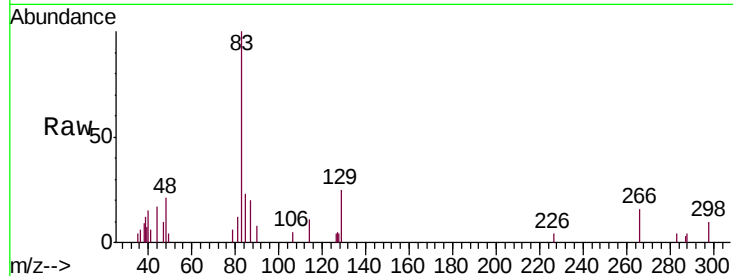
Tgt Ion: 83 Resp: 6278

Ion Ratio Lower Upper

83 100

85 23.4 49.4 74.0#

127 8.6 5.9 8.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

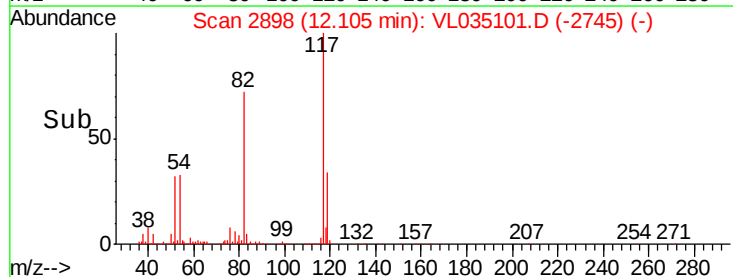
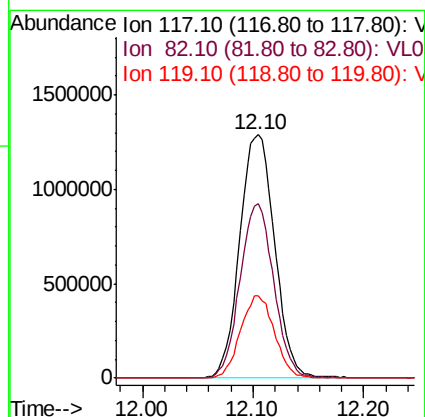
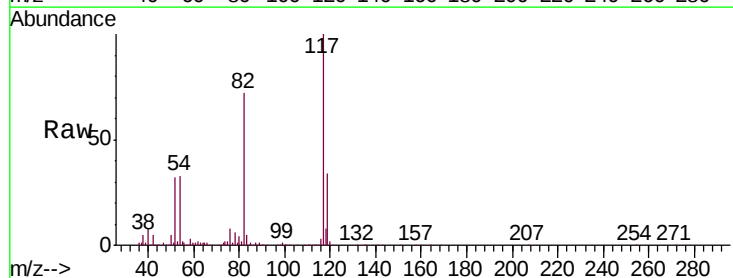
Tgt Ion: 117 Resp: 2834737

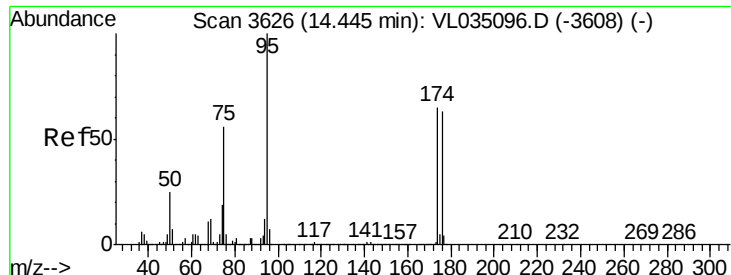
Ion Ratio Lower Upper

117 100

82 69.8 50.4 75.6

119 32.9 25.4 38.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.625 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

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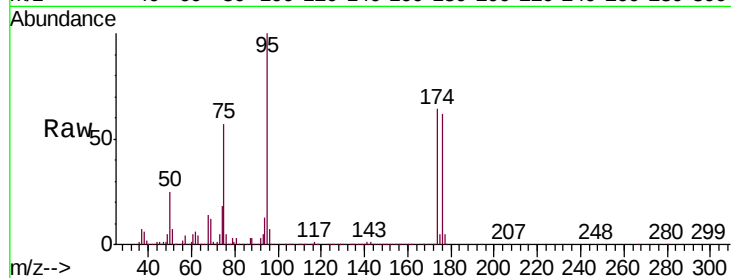
Tgt Ion: 95 Resp: 2428178

Ion Ratio Lower Upper

95 100

174 64.6 52.2 78.2

175 4.7 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

