

Data File : VL034125.D
Acq On : 5 Sep 2019 5:45
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Sep 05 09:58:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 09:42:59 2019
QLast Update : Thu Sep 05 09:42:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1213522	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2133942	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2122761	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1788092	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

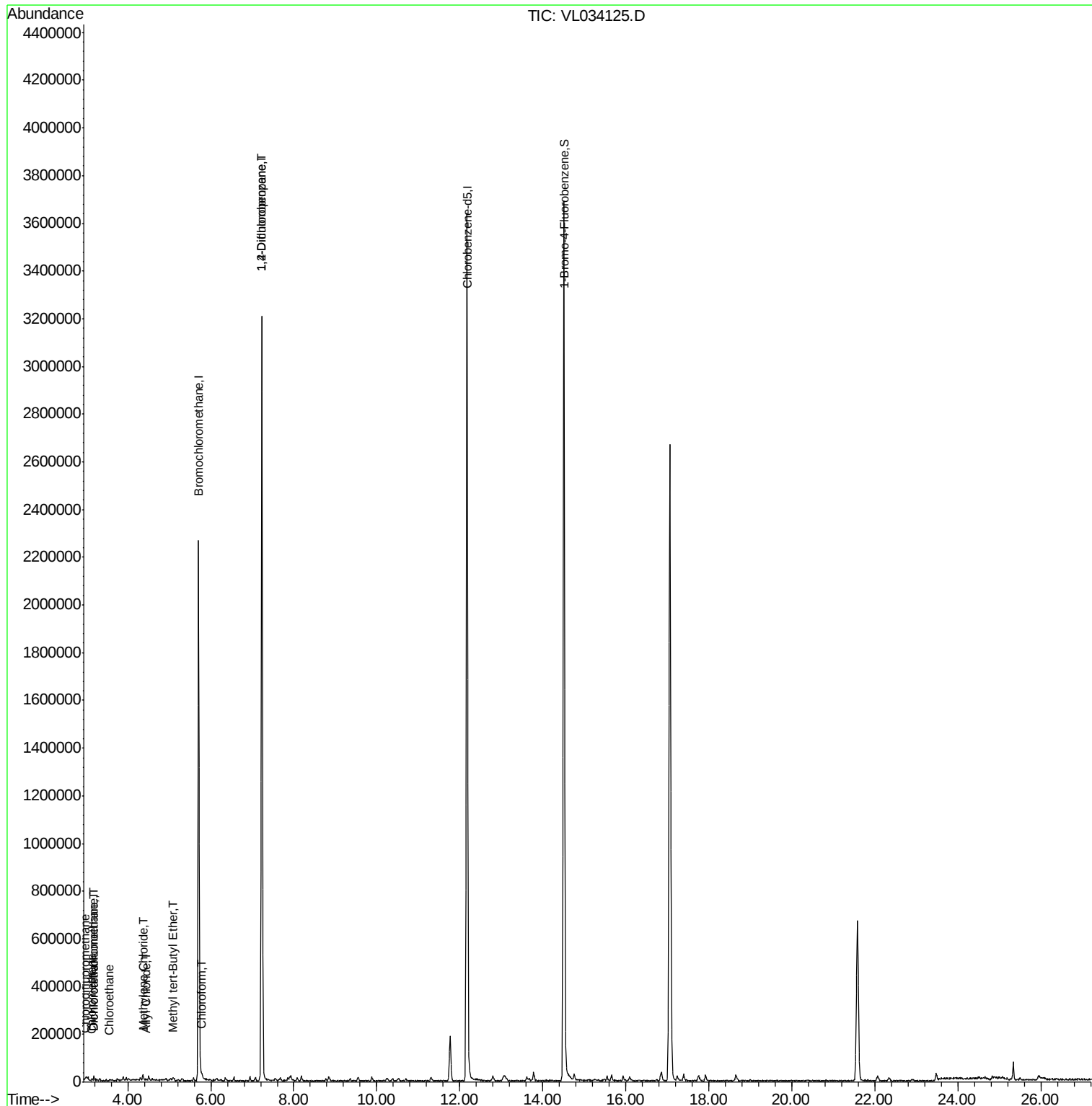
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.18	85	7260	0.036	ppbv	92
3) Chlorodifluoromethane	2.98	51	6116	0.045	ppbv	100
4) Chloromethane	3.14	50	3654	0.043	ppbv #	53
7) Chloroethane	3.55	64	845	0.032	ppbv #	43
8) Dichlorotetrafluoroethane	3.18	85	7260	0.045	ppbv	100
20) Methylene Chloride	4.36	84	3433	0.071	ppbv #	81
21) Allyl Chloride	4.44	41	4362	0.045	ppbv #	71
28) Methyl tert-Butyl Ether	5.08	73	8234	0.039	ppbv #	87
29) Chloroform	5.79	83	7446	0.039	ppbv	87
39) 1,2-Dichloropropane	7.23	63	672283	6.437	ppbv #	26

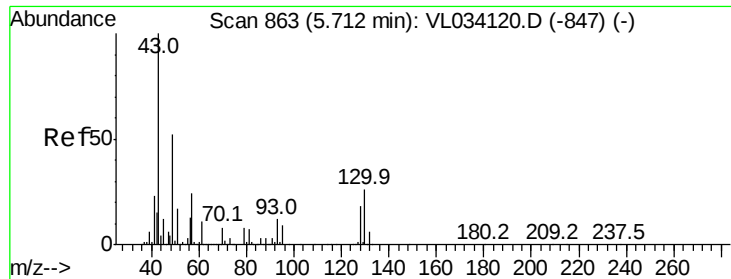
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 05 09:42:59 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

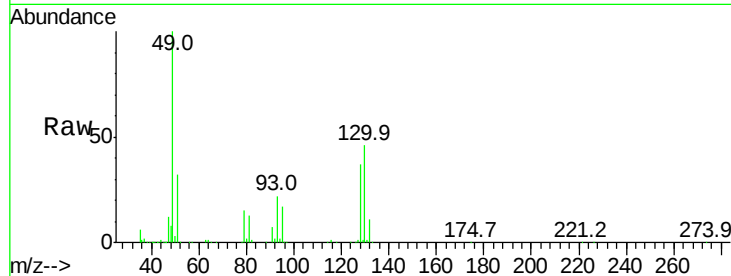
Tgt Ion: 49 Resp: 1213522

Ion Ratio Lower Upper

49 100

128 36.4 18.4 55.0

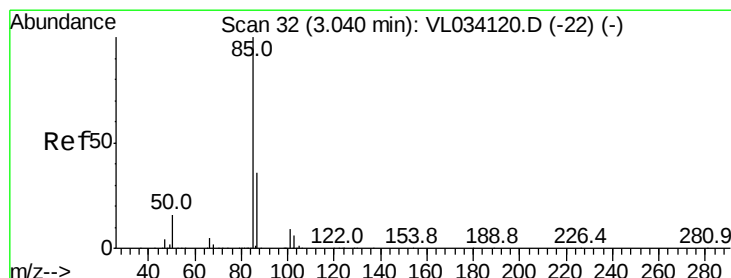
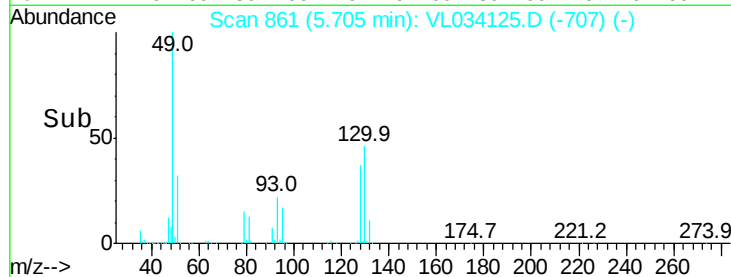
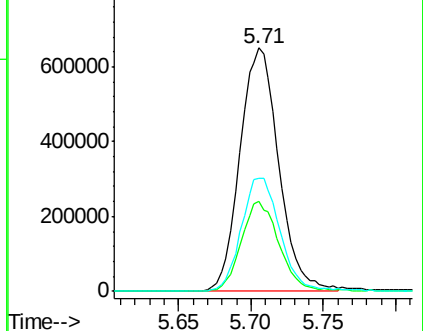
130 47.1 23.5 70.6



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



#2

Dichlorodifluoromethane

Concen: 0.036 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.14 min

Lab File: VL034125.D

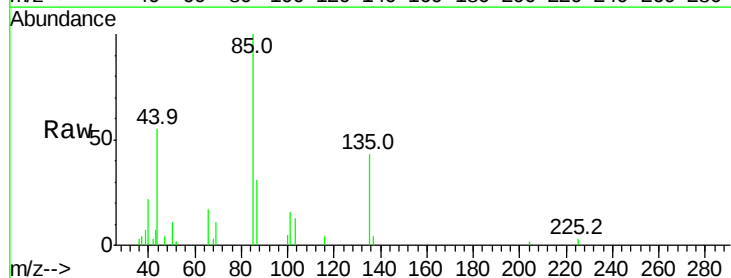
Acq: 5 Sep 2019 5:45

Tgt Ion: 85 Resp: 7260

Ion Ratio Lower Upper

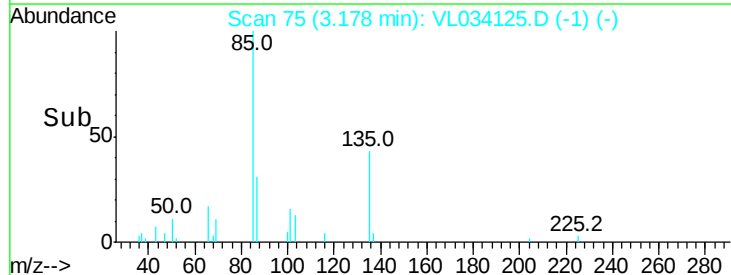
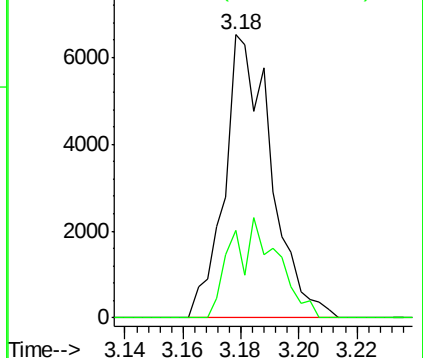
85 100

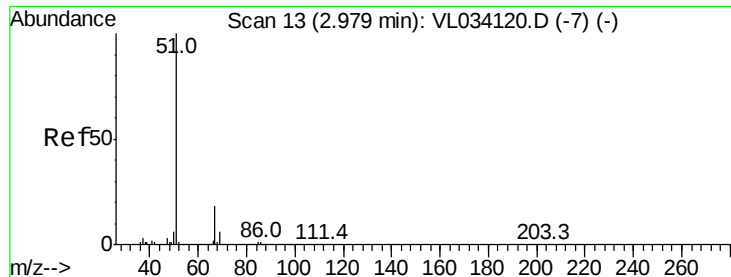
87 30.9 28.6 43.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.045 ppbv

RT: 2.98 min Scan# 13

Delta R.T. 0.00 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

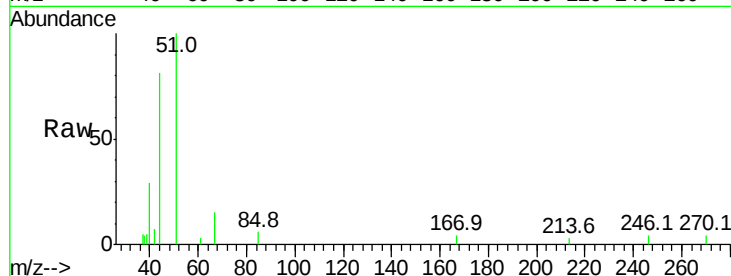
VSTDIC0.03

Tgt Ion: 51 Resp: 6116

Ion Ratio Lower Upper

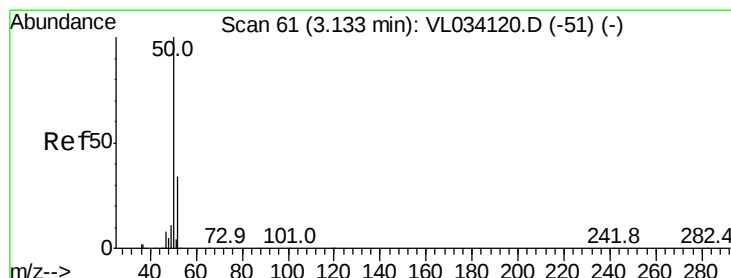
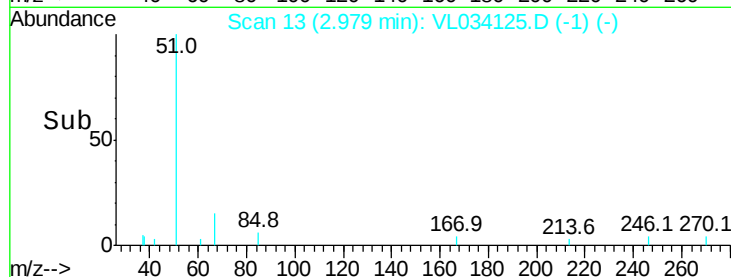
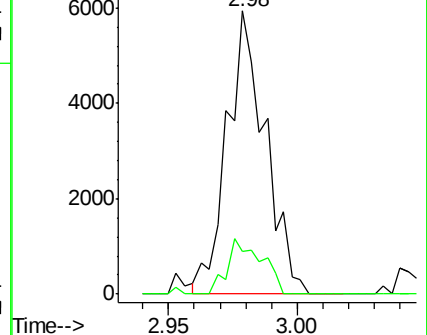
51 100

67 17.7 14.2 21.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.043 ppbv

RT: 3.14 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034125.D

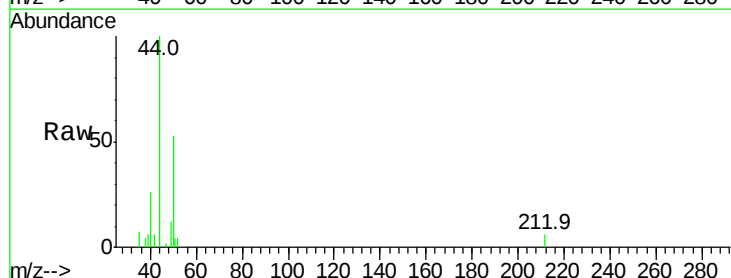
Acq: 5 Sep 2019 5:45

Tgt Ion: 50 Resp: 3654

Ion Ratio Lower Upper

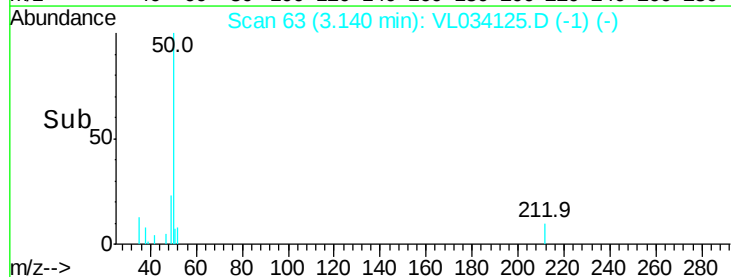
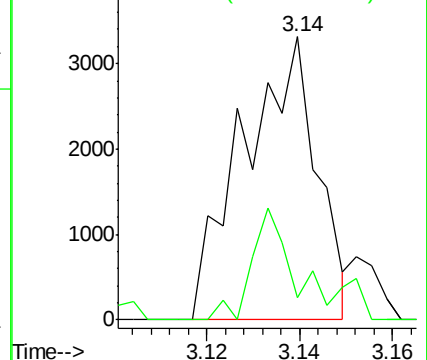
50 100

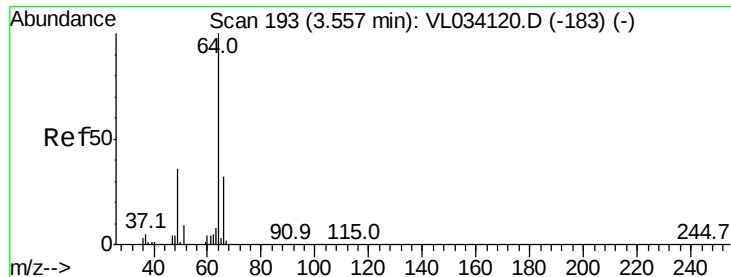
52 7.4 27.4 41.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.032 ppbv

RT: 3.55 min Scan# 192

Delta R.T. -0.00 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

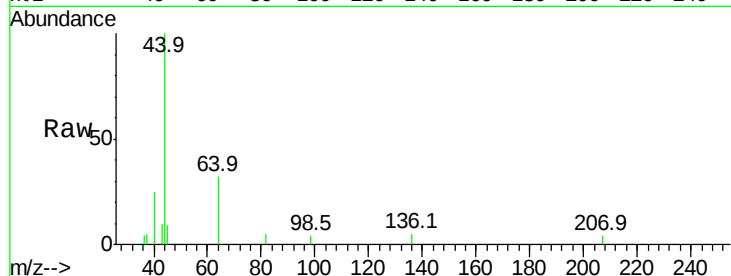
VSTDIC0.03

Tgt Ion: 64 Resp: 845

Ion Ratio Lower Upper

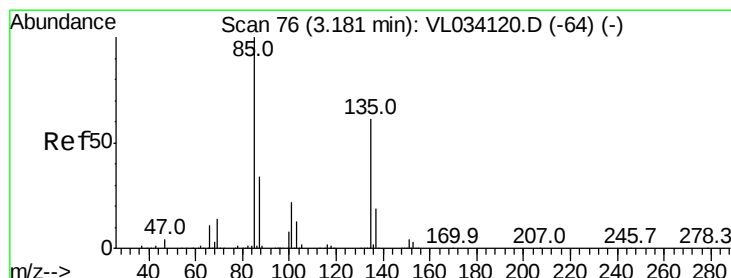
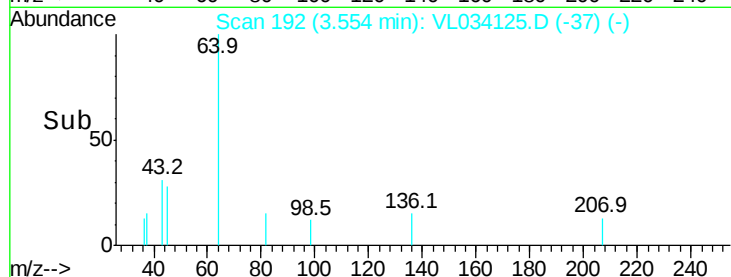
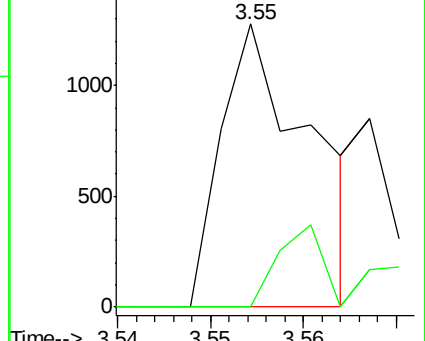
64 100

66 0.0 25.4 38.2#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.045 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL034125.D

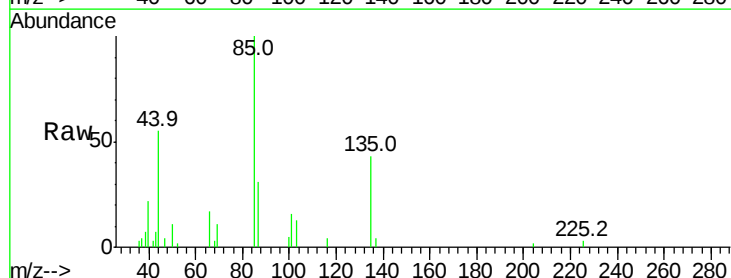
Acq: 5 Sep 2019 5:45

Tgt Ion: 85 Resp: 7260

Ion Ratio Lower Upper

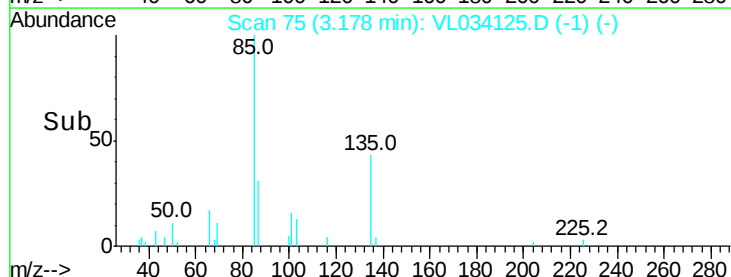
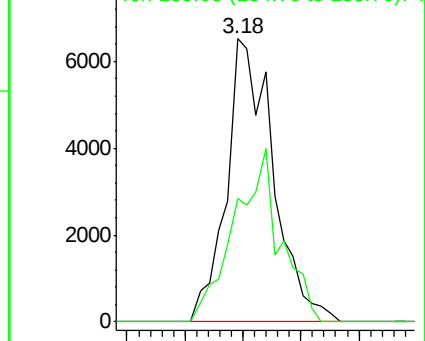
85 100

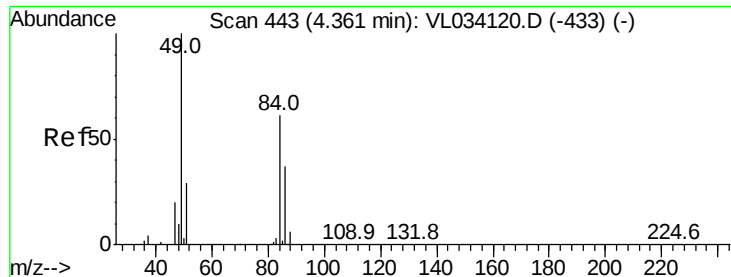
135 60.3 48.0 72.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

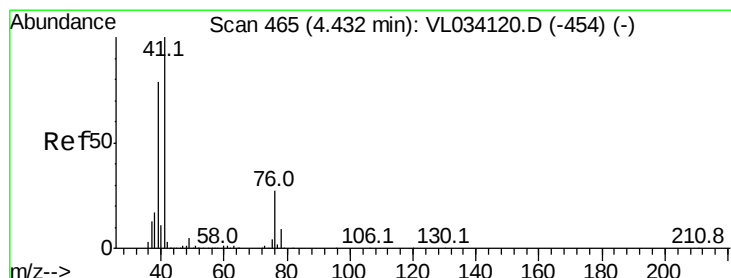
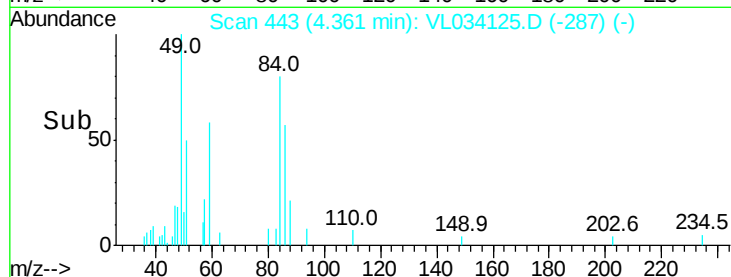
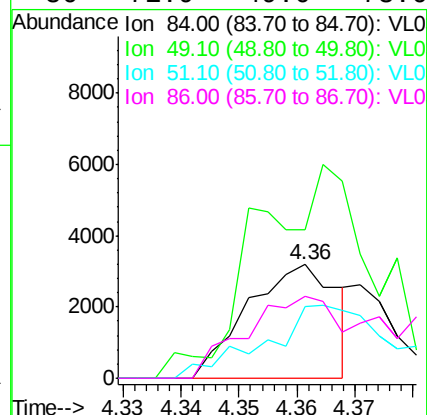
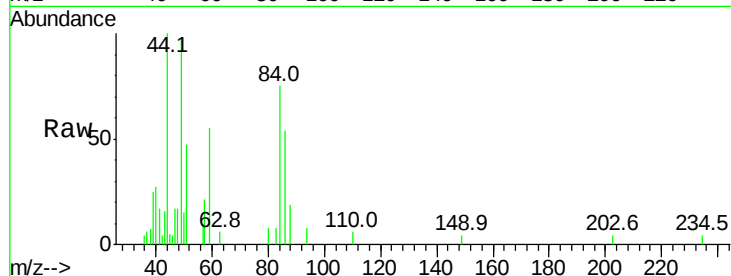




#20
Methylene Chloride
Concen: 0.071 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL034125.D
Acq: 5 Sep 2019 5:45

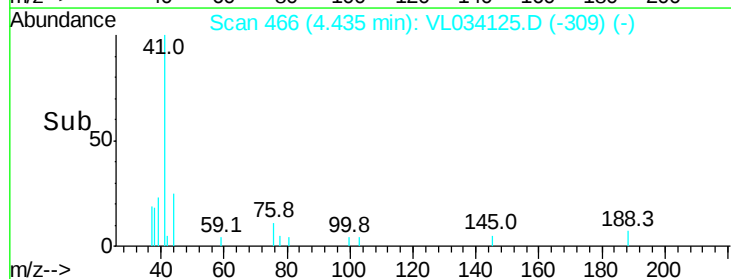
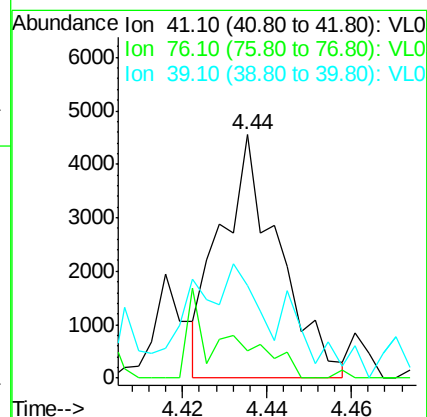
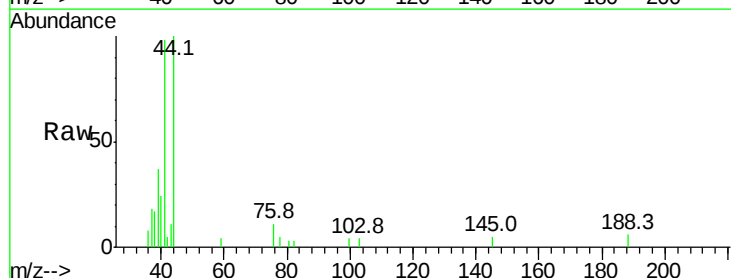
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

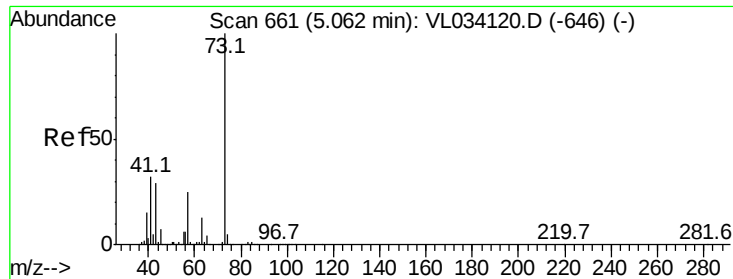
Tgt Ion: 84 Resp: 3433
Ion Ratio Lower Upper
84 100
49 130.9 131.0 196.6#
51 50.9 38.1 57.1
86 71.9 49.0 73.6



#21
Allyl Chloride
Concen: 0.045 ppbv
RT: 4.44 min Scan# 466
Delta R.T. 0.00 min
Lab File: VL034125.D
Acq: 5 Sep 2019 5:45

Tgt Ion: 41 Resp: 4362
Ion Ratio Lower Upper
41 100
76 0.0 21.6 32.4#
39 99.6 65.0 97.4#





#28

Methyl tert-Butyl Ether

Concen: 0.039 ppbv

RT: 5.08 min Scan# 668

Delta R.T. 0.02 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

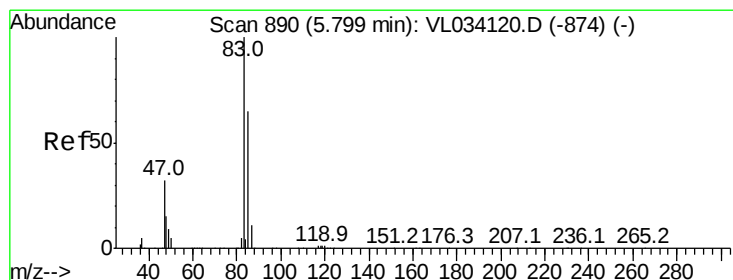
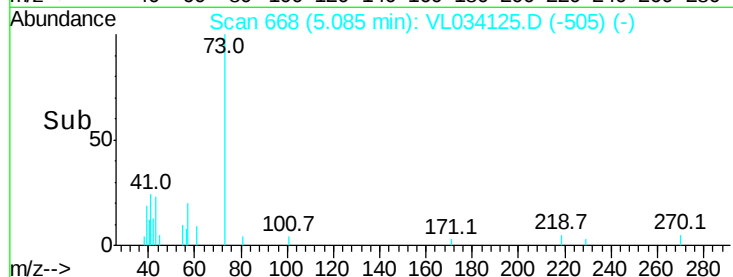
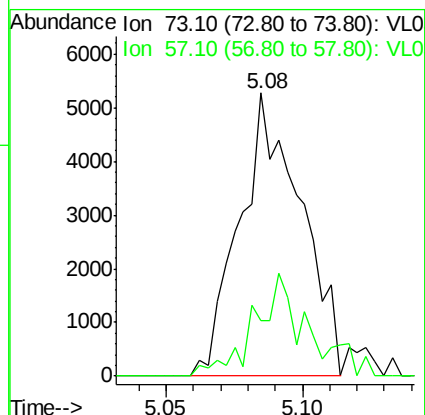
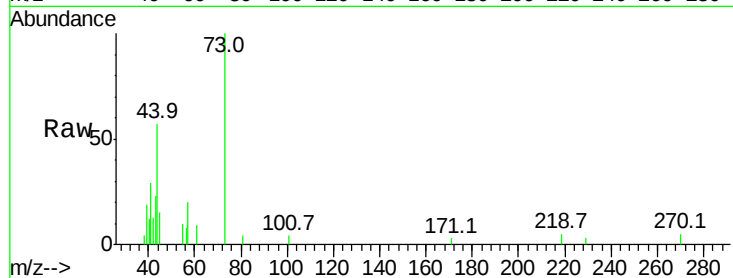
VSTDIC0.03

Tgt Ion: 73 Resp: 8234

Ion Ratio Lower Upper

73 100

57 31.1 19.8 29.8#



#29

Chloroform

Concen: 0.039 ppbv

RT: 5.79 min Scan# 888

Delta R.T. -0.01 min

Lab File: VL034125.D

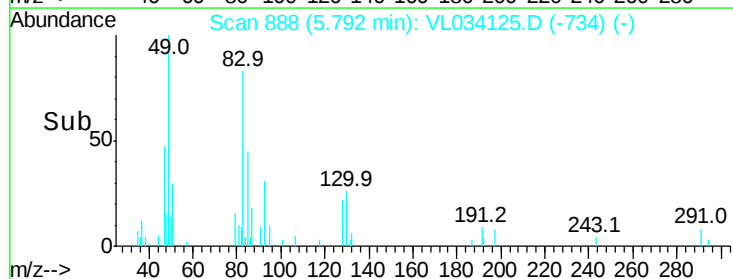
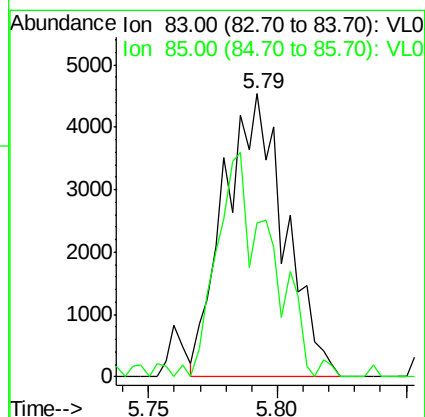
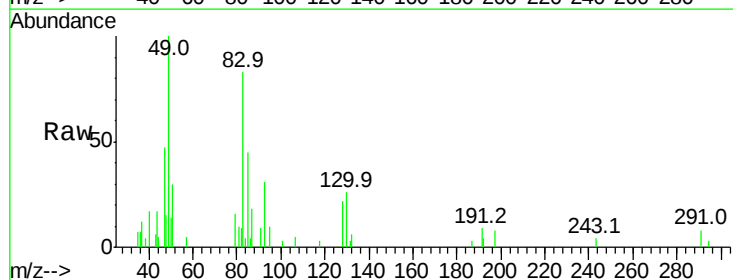
Acq: 5 Sep 2019 5:45

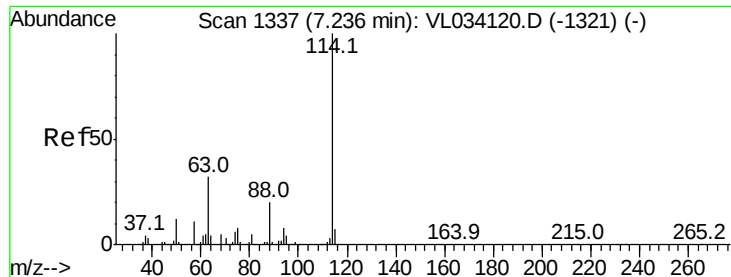
Tgt Ion: 83 Resp: 7446

Ion Ratio Lower Upper

83 100

85 54.6 51.8 77.6

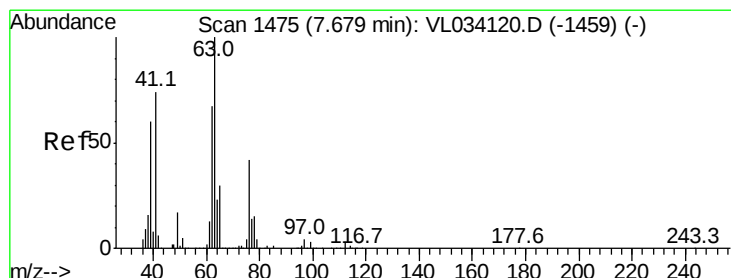
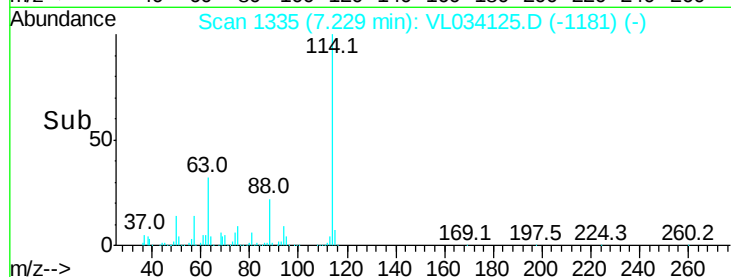
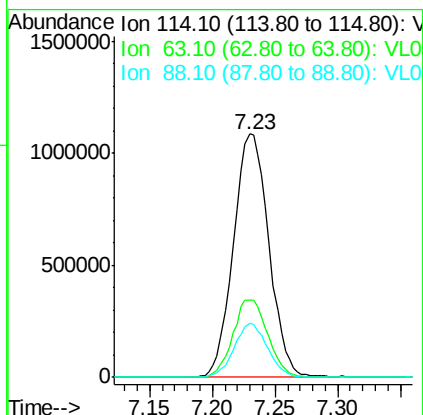
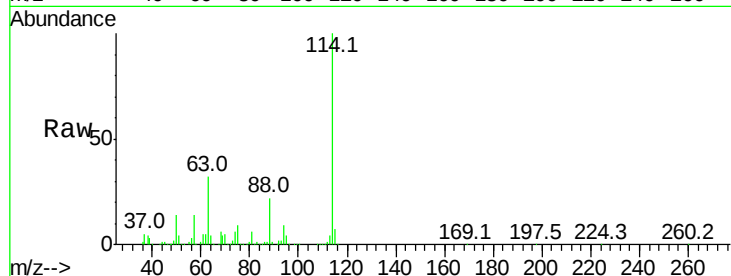




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1335
 Delta R.T. -0.01 min
 Lab File: VL034125.D
 Acq: 5 Sep 2019 5:45

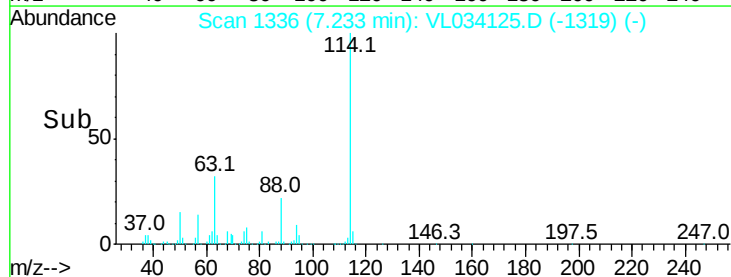
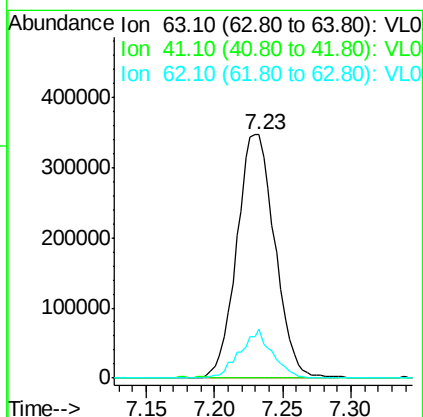
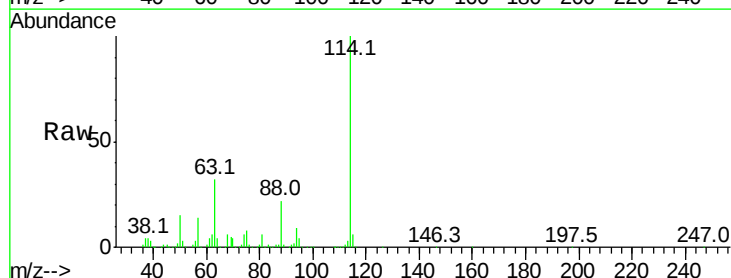
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

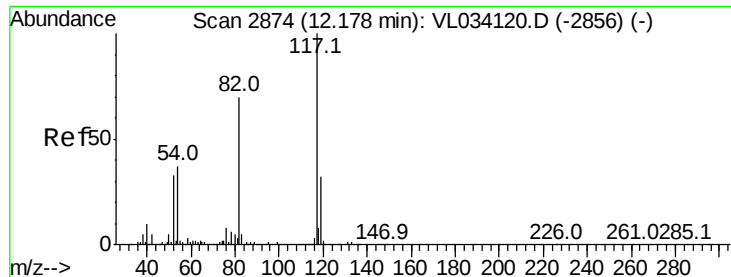
Tgt Ion: 114 Resp: 2133942
 Ion Ratio Lower Upper
 114 100
 63 31.6 25.5 38.3
 88 21.1 16.8 25.2



#39
 1,2-Dichloropropane
 Concen: 6.437 ppbv
 RT: 7.23 min Scan# 1336
 Delta R.T. -0.45 min
 Lab File: VL034125.D
 Acq: 5 Sep 2019 5:45

Tgt Ion: 63 Resp: 672283
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.3 88.9#
 62 19.9 53.8 80.6#

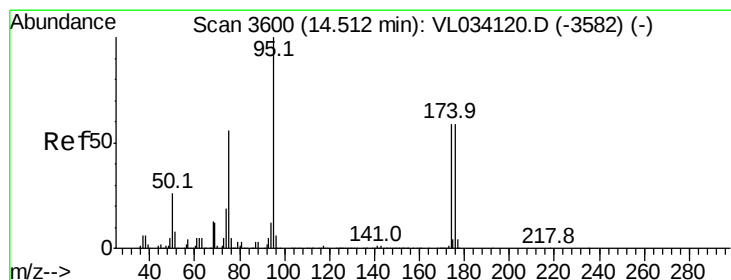
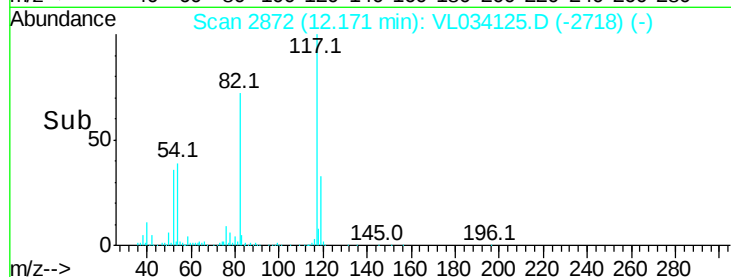
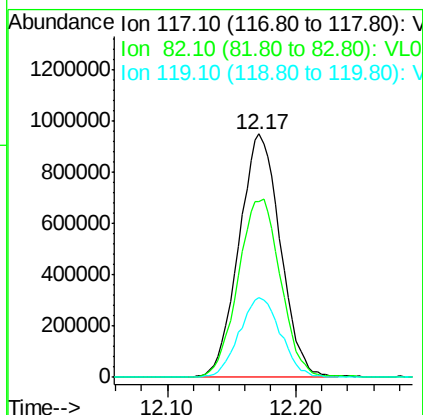
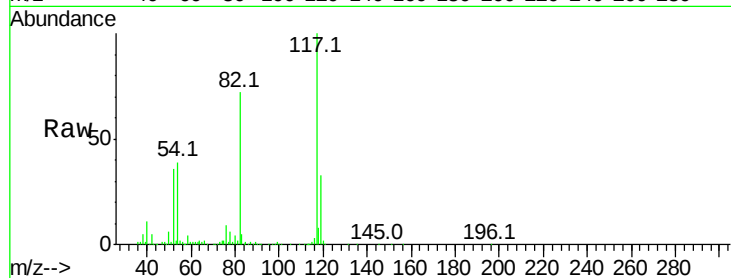




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2872
Delta R.T. -0.01 min
Lab File: VL034125.D
Acq: 5 Sep 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 117 Resp: 2122761
Ion Ratio Lower Upper
117 100
82 75.9 55.8 83.6
119 33.1 43.1 64.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.304 ppbv
RT: 14.51 min Scan# 3598
Delta R.T. -0.01 min
Lab File: VL034125.D
Acq: 5 Sep 2019 5:45

Tgt Ion: 95 Resp: 1788092
Ion Ratio Lower Upper
95 100
174 62.5 48.1 72.1
175 4.4 3.5 5.3

