

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038226.D
 Acq On : 21 Dec 2021 23:35
 Operator : SY/AP
 Sample : M5118-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 22 08:29:30 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec 21 17:47:08 2021
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	734101	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	2090030	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	1799117	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1400766	10.10	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

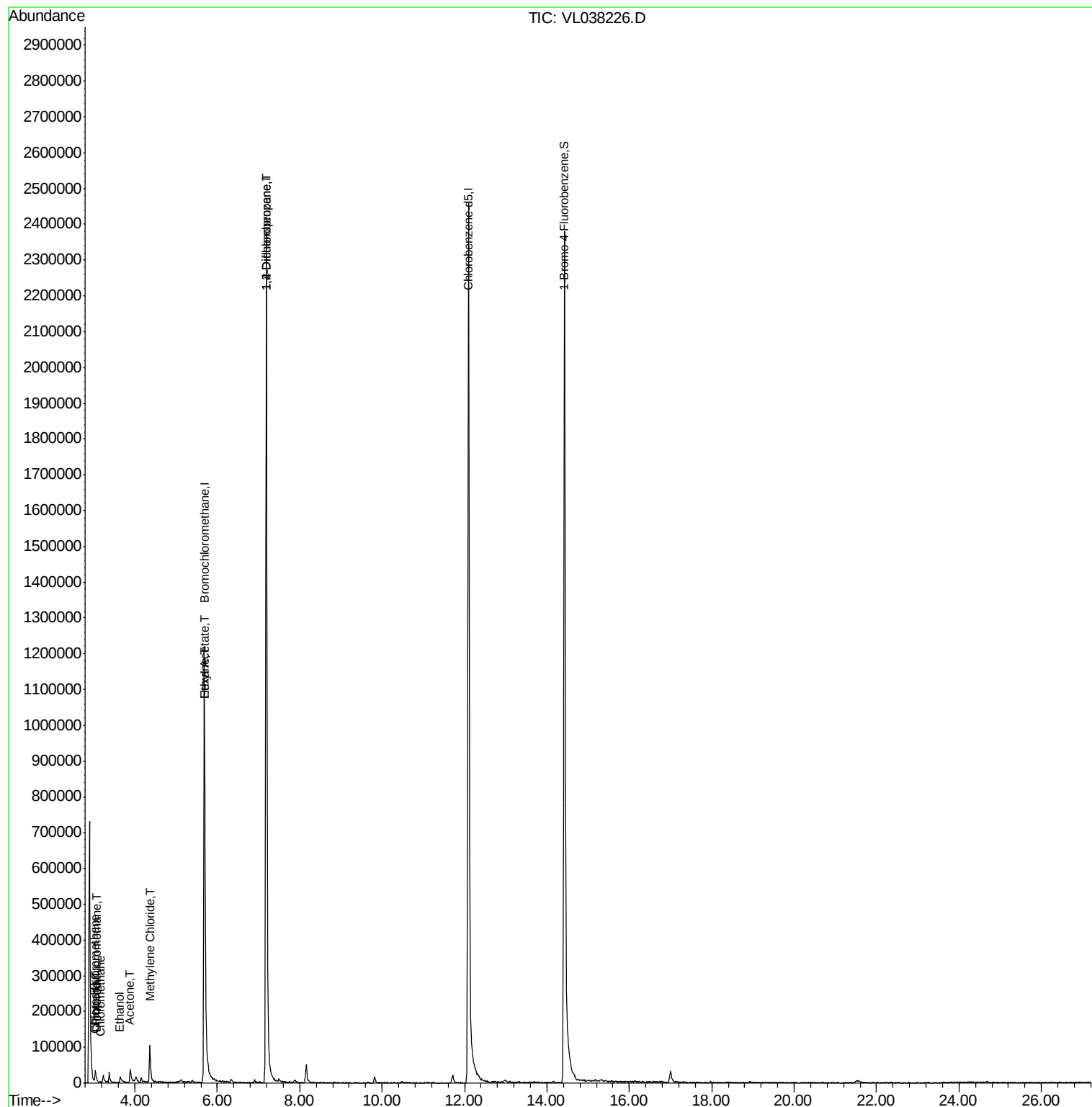
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	5914	0.043	ppbv	98
3) Chlorodifluoromethane	3.02	51	6109	0.040	ppbv #	84
4) Chloromethane	3.16	50	1762	0.033	ppbv #	75
9) Propene	3.04	41	9216	0.172	ppbv	89
13) Ethanol	3.64	45	6746	0.743	ppbv #	100
15) Acetone	3.89	43	34172	0.464	ppbv	92
20) Methylene Chloride	4.36	84	41546	0.999	ppbv	94
25) Ethyl Acetate	5.70	43	19514	0.098	ppbv #	77
26) Hexane	5.70	57	25821	0.258	ppbv #	46
39) 1,2-Dichloropropane	7.19	63	528046	7.038	ppbv #	27

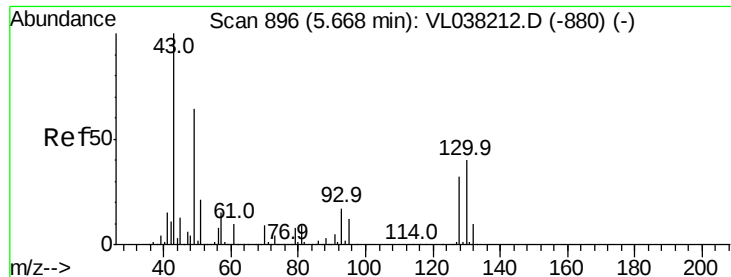
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 21 17:47:08 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 23:35

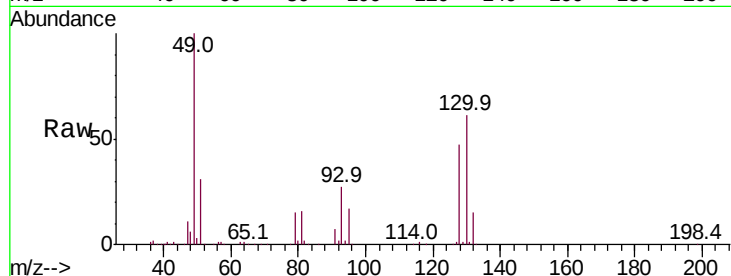
Tot Ion: 49 Resp: 734101

Ion Ratio Lower Upper

49 100

128 49.3 26.9 80.6

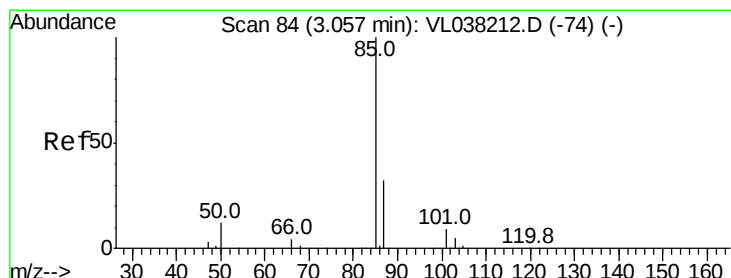
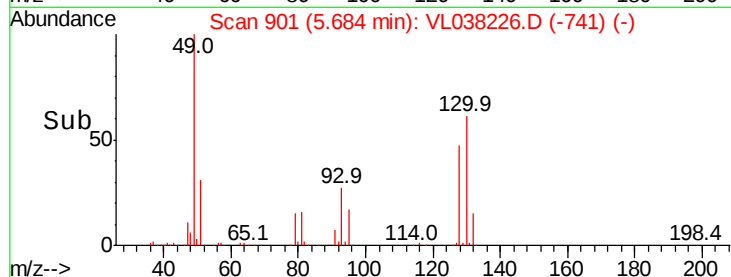
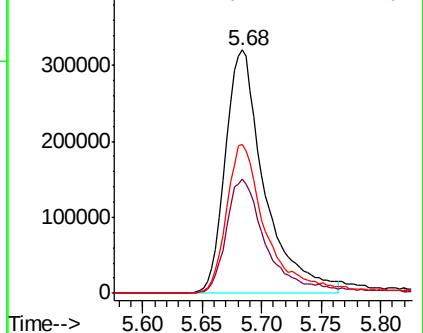
130 63.9 32.3 96.9



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: 0.043 ppbv

RT: 3.07 min Scan# 88

Delta R.T. 0.01 min

Lab File: VL038226.D

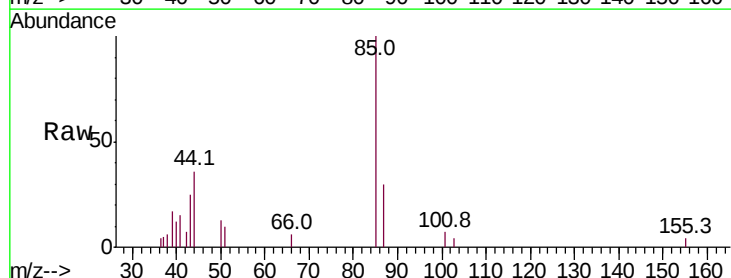
Acq: 21 Dec 2021 23:35

Tgt Ion: 85 Resp: 5914

Ion Ratio Lower Upper

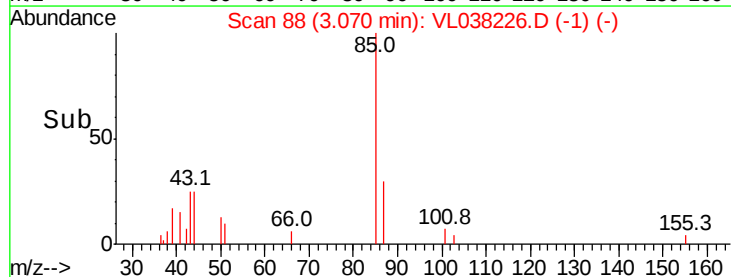
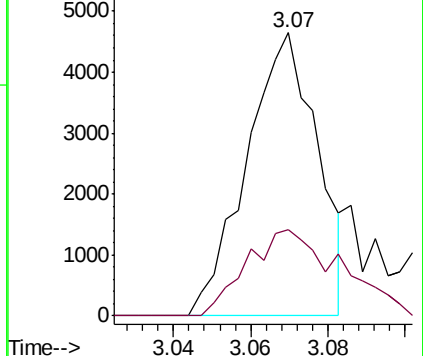
85 100

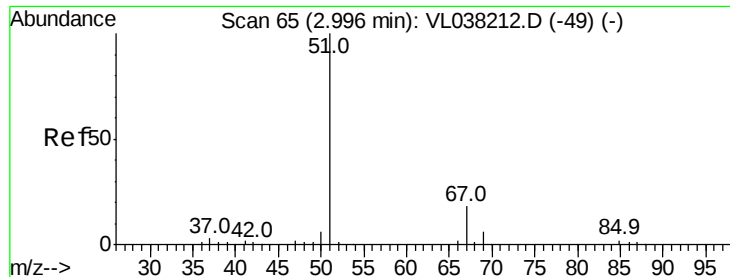
87 30.5 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

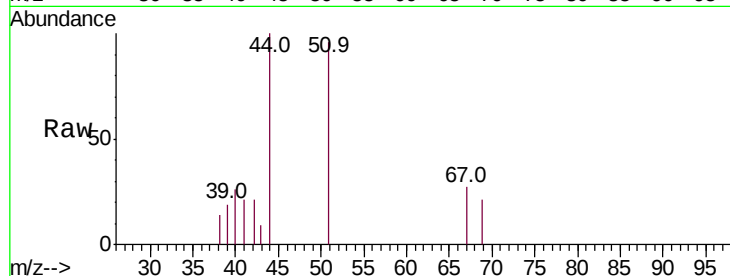
Acq: 21 Dec 2021 23:35

Tot Ion: 51 Resp: 6109

Ion Ratio Lower Upper

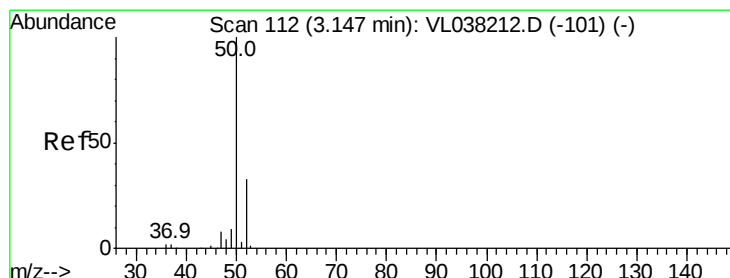
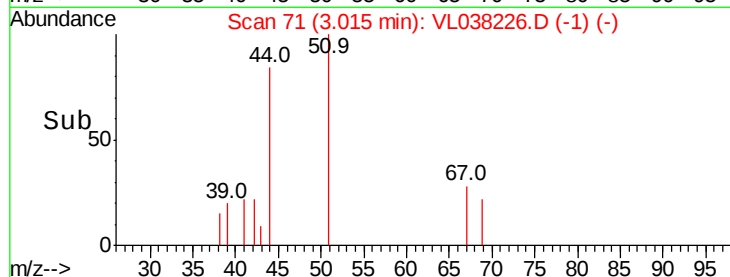
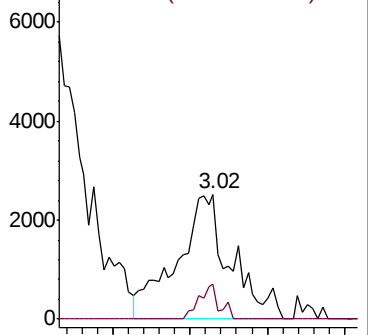
51 100

67 10.5 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: 0.033 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.01 min

Lab File: VL038226.D

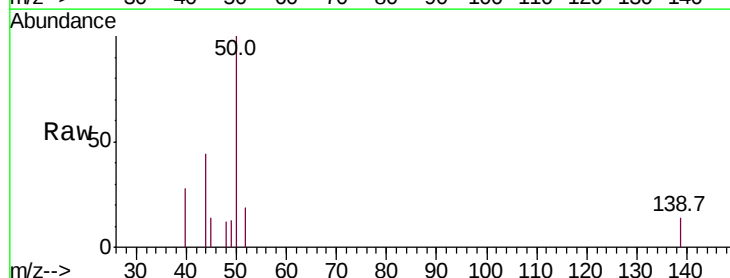
Acq: 21 Dec 2021 23:35

Tgt Ion: 50 Resp: 1762

Ion Ratio Lower Upper

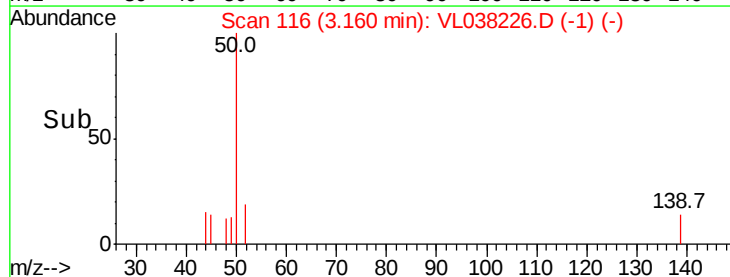
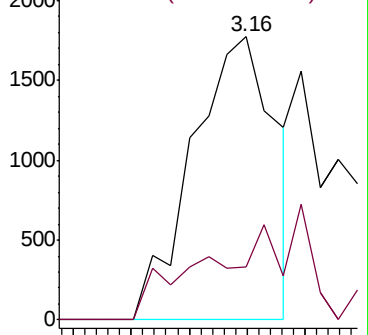
50 100

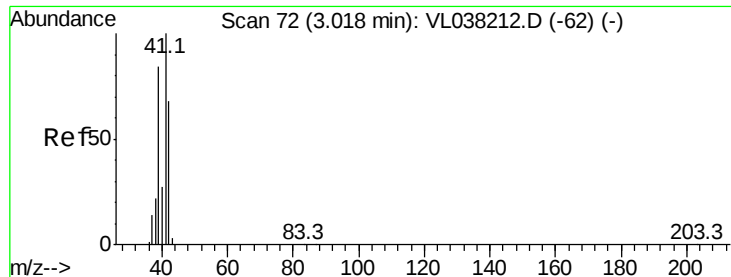
52 18.6 26.2 39.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.172 ppbv

RT: 3.04 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

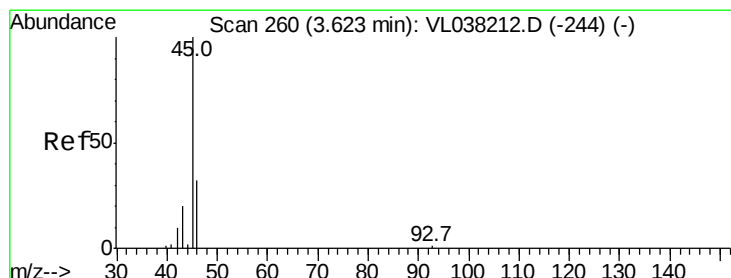
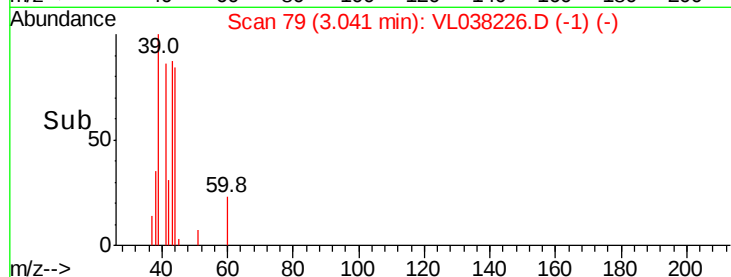
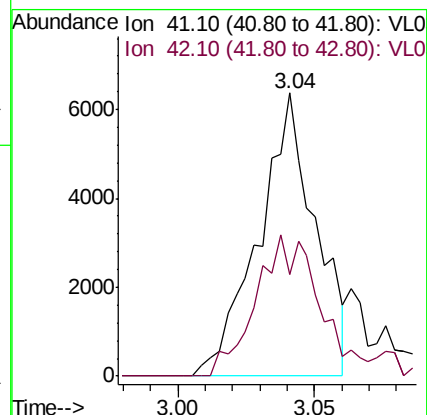
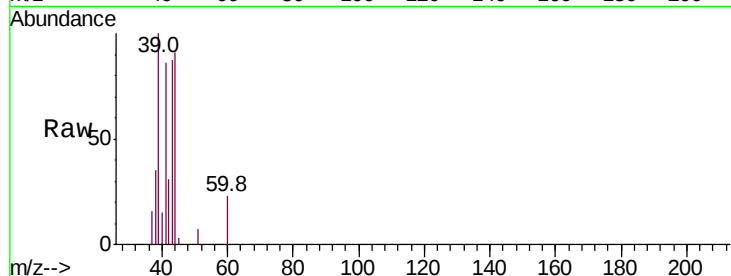
Acq: 21 Dec 2021 23:35

Tot Ion: 41 Resp: 9216

Ion Ratio Lower Upper

41 100

42 60.7 55.5 83.3



#13

Ethanol

Concen: 0.743 ppbv

RT: 3.64 min Scan# 264

Delta R.T. 0.01 min

Lab File: VL038226.D

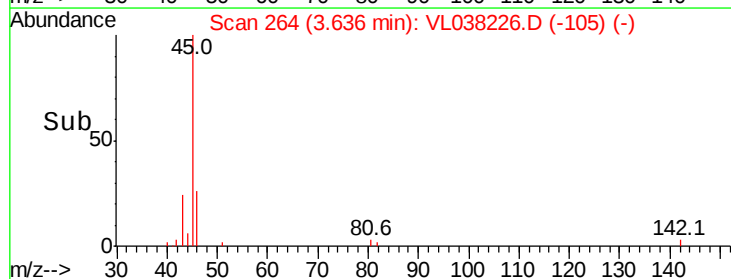
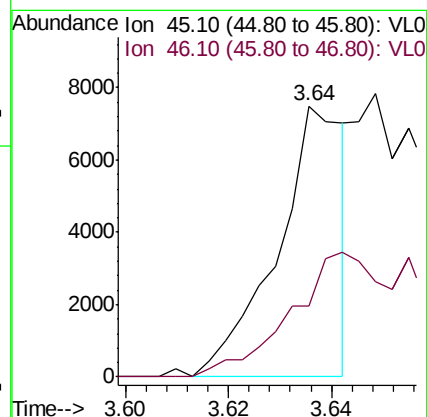
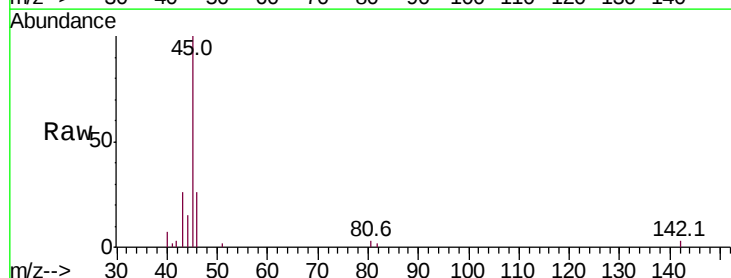
Acq: 21 Dec 2021 23:35

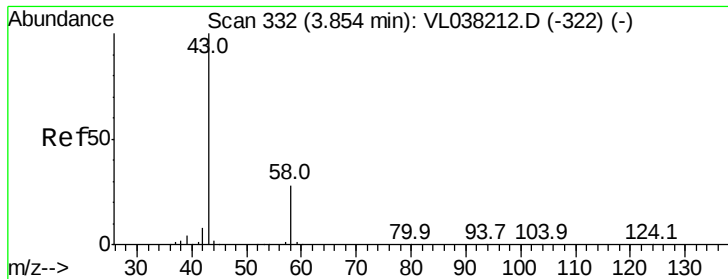
Tgt Ion: 45 Resp: 6746

Ion Ratio Lower Upper

45 100

46 0.0 0.0 0.0





#15

Acetone

Concen: 0.464 ppbv

RT: 3.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

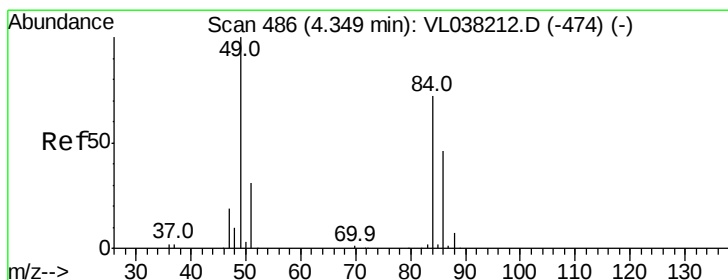
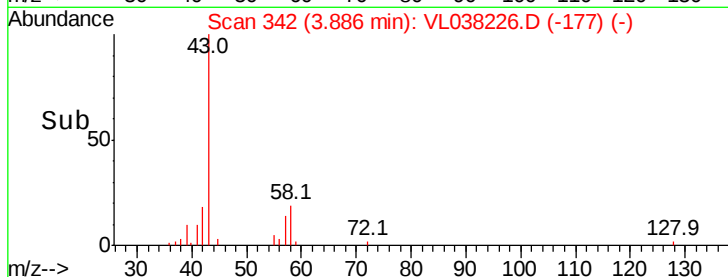
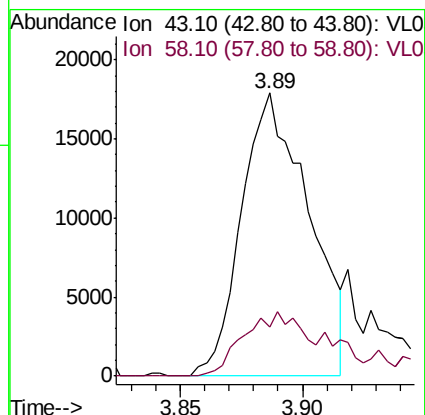
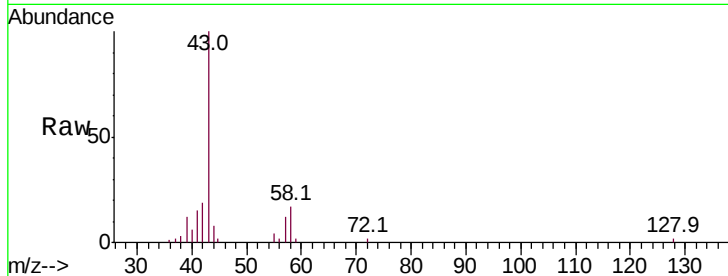
Acq: 21 Dec 2021 23:35

Tot Ion: 43 Resp: 34172

Ion Ratio Lower Upper

43 100

58 33.4 23.3 34.9



#20

Methylene Chloride

Concen: 0.999 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.01 min

Lab File: VL038226.D

Acq: 21 Dec 2021 23:35

Tgt Ion: 84 Resp: 41546

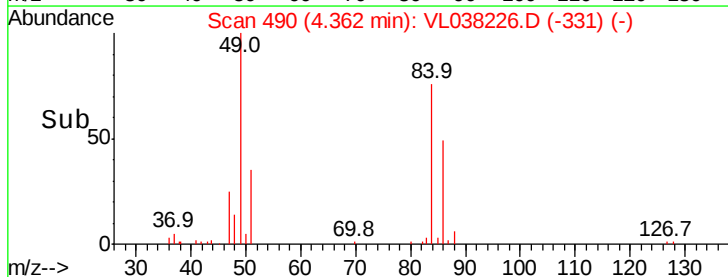
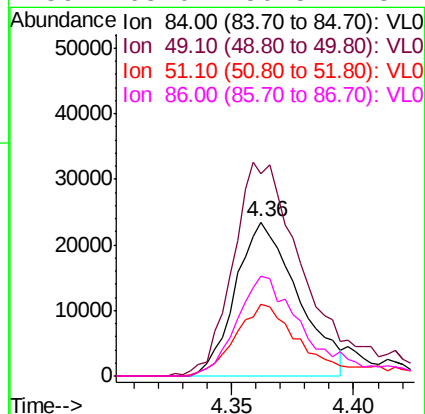
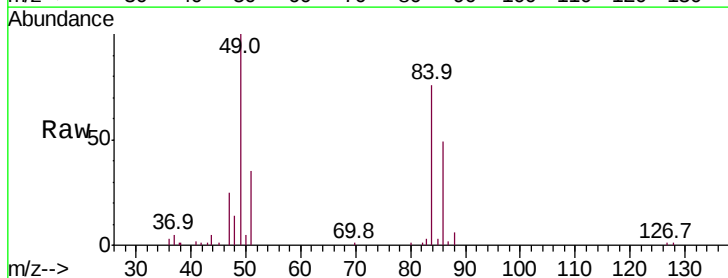
Ion Ratio Lower Upper

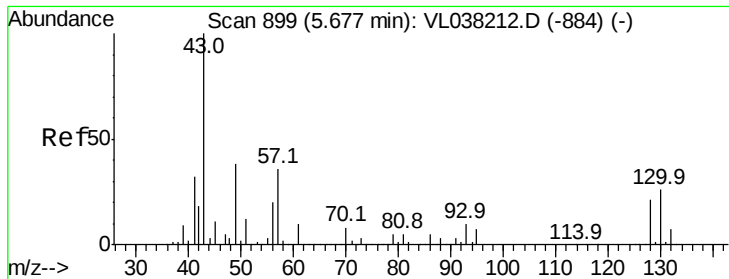
84 100

49 128.2 110.6 166.0

51 45.3 34.2 51.2

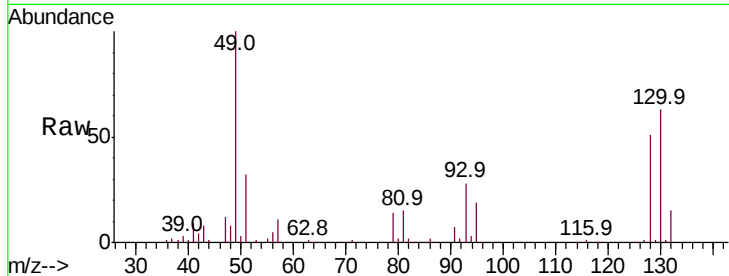
86 65.0 50.5 75.7





#25
Ethyl Acetate
Concen: 0.098 ppbv
RT: 5.70 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Dec 2021 23:35

Tot Ion:	43	Resp:	19514
Ion Ratio	Lower	Upper	
43	100		
45	1.2	7.9	11.9#
61	0.0	8.1	12.1#
70	1.7	5.5	8.3#



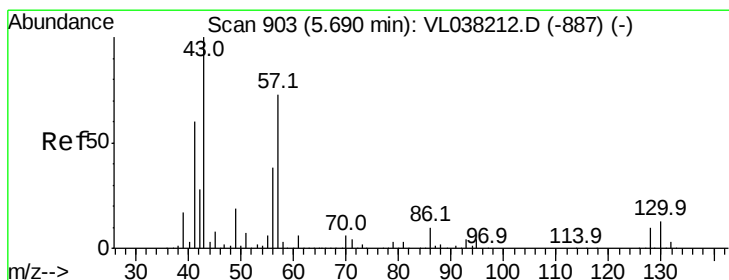
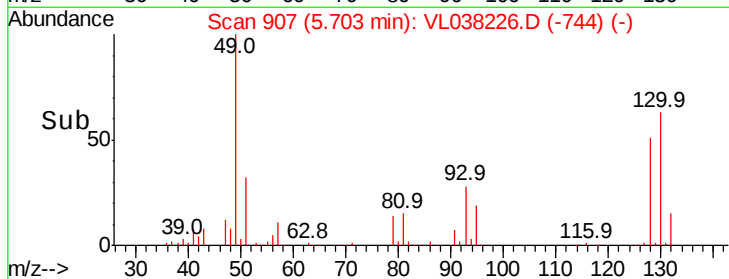
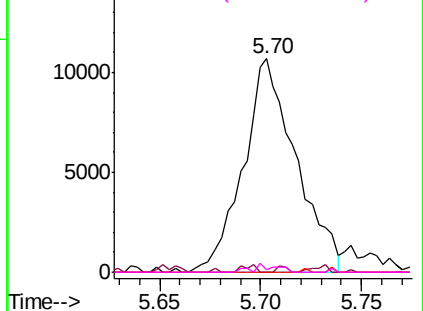
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

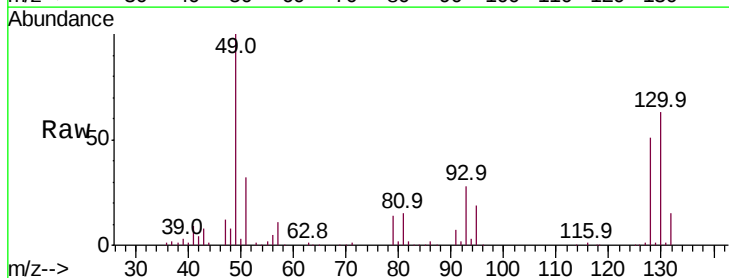
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.258 ppbv
RT: 5.70 min Scan# 907
Delta R.T.: 0.01 min
Lab File: VL038226.D
Acq: 21 Dec 2021 23:35

Tgt Ion:	57	Resp:	25821
Ion Ratio	Lower	Upper	
57	100		
41	96.0	69.0	103.6
43	83.5	171.2	256.8#
56	58.4	41.5	62.3



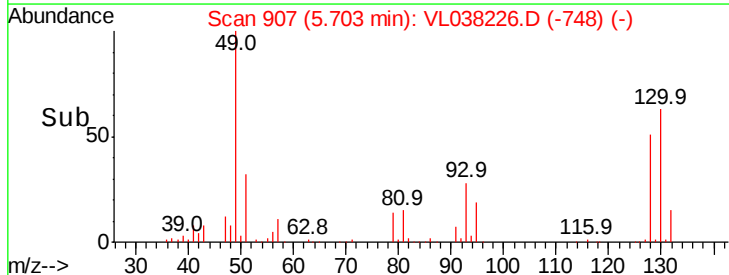
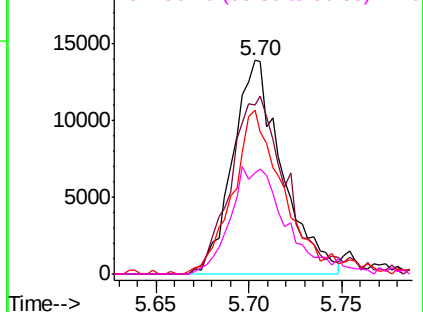
Abundance

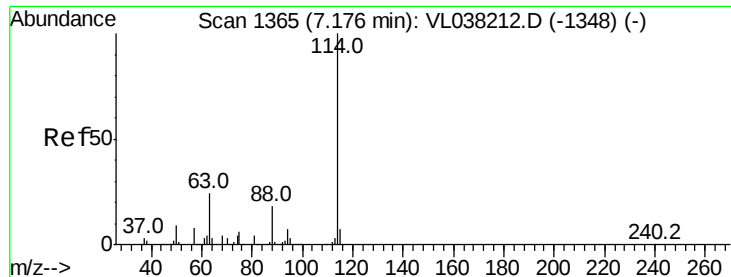
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

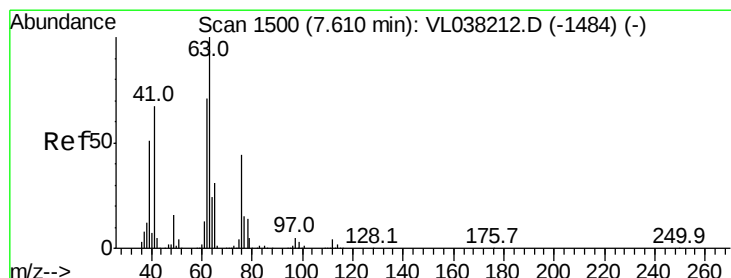
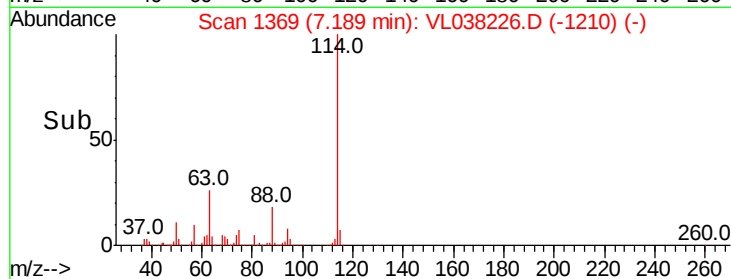
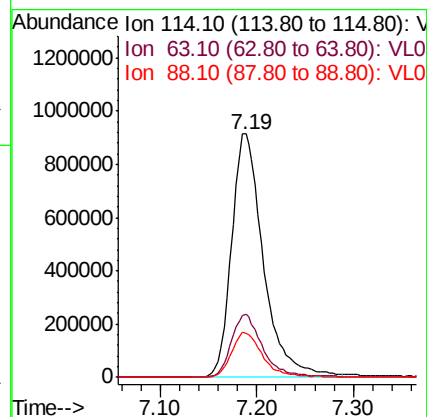
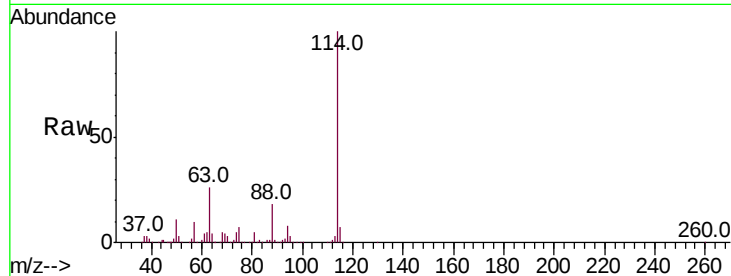
Ion 56.10 (55.80 to 56.80): VL0





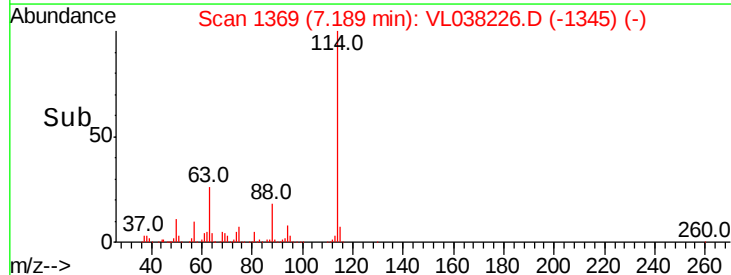
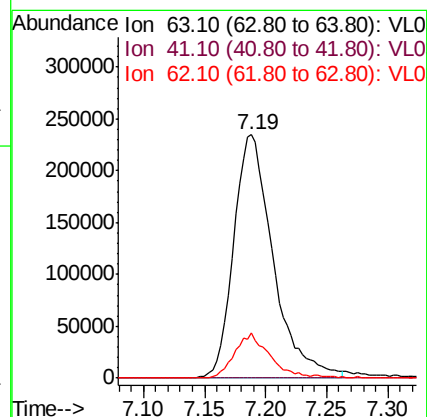
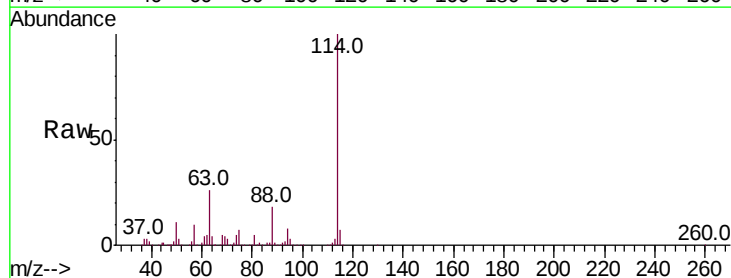
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 21 Dec 2021 23:35

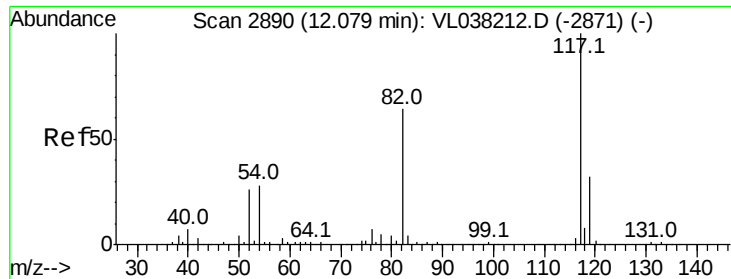
Tot Ion: 114 Resp: 2090030
 Ion Ratio Lower Upper
 114 100
 63 25.9 19.7 29.5
 88 18.4 14.3 21.5



#39
 1,2-Dichloropropane
 Concen: 7.038 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T.: -0.42 min
 Lab File: VL038226.D
 Acq: 21 Dec 2021 23:35

Tgt Ion: 63 Resp: 528046
 Ion Ratio Lower Upper
 63 100
 41 0.0 53.4 80.2#
 62 18.5 56.5 84.7#

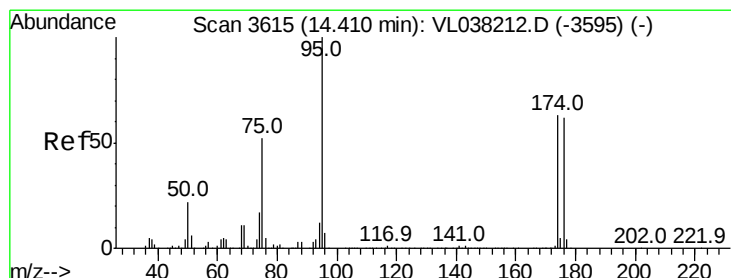
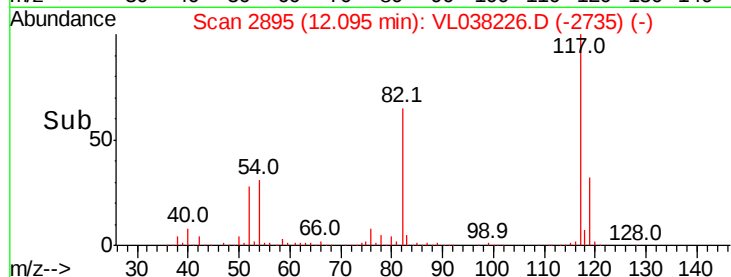
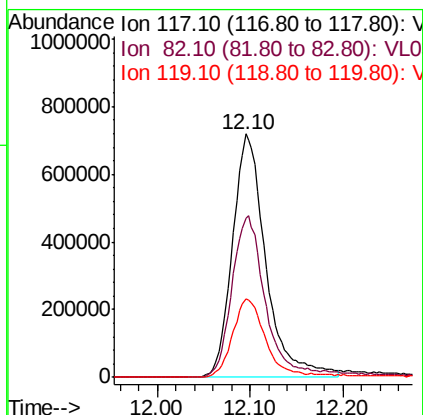
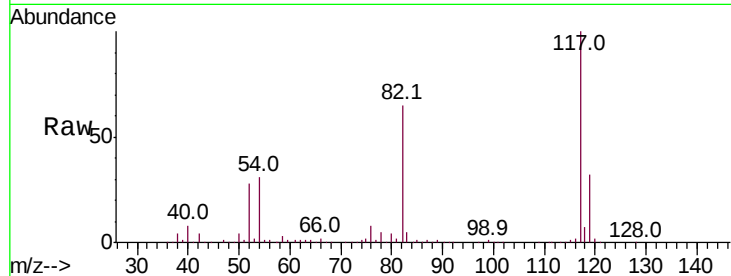




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 21 Dec 2021 23:35

Tot Ion: 117 Resp: 1799117

Ion	Ratio	Lower	Upper
117	100		
82	69.8	53.3	79.9
119	33.8	25.5	38.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.104 ppbv
 RT: 14.43 min Scan# 3620
 Delta R.T.: 0.02 min
 Lab File: VL038226.D
 Acq: 21 Dec 2021 23:35

Tgt Ion: 95 Resp: 1400766

Ion	Ratio	Lower	Upper
95	100		
174	63.4	54.6	81.8
175	4.6	4.1	6.1

