

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030222\
 Data File : VL038504.D
 Acq On : 3 Mar 2022 5:17
 Operator : SY/AP
 Sample : N1754-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 03 06:54:25 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	870433	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	1901350	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	1689781	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1411743	10.10	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

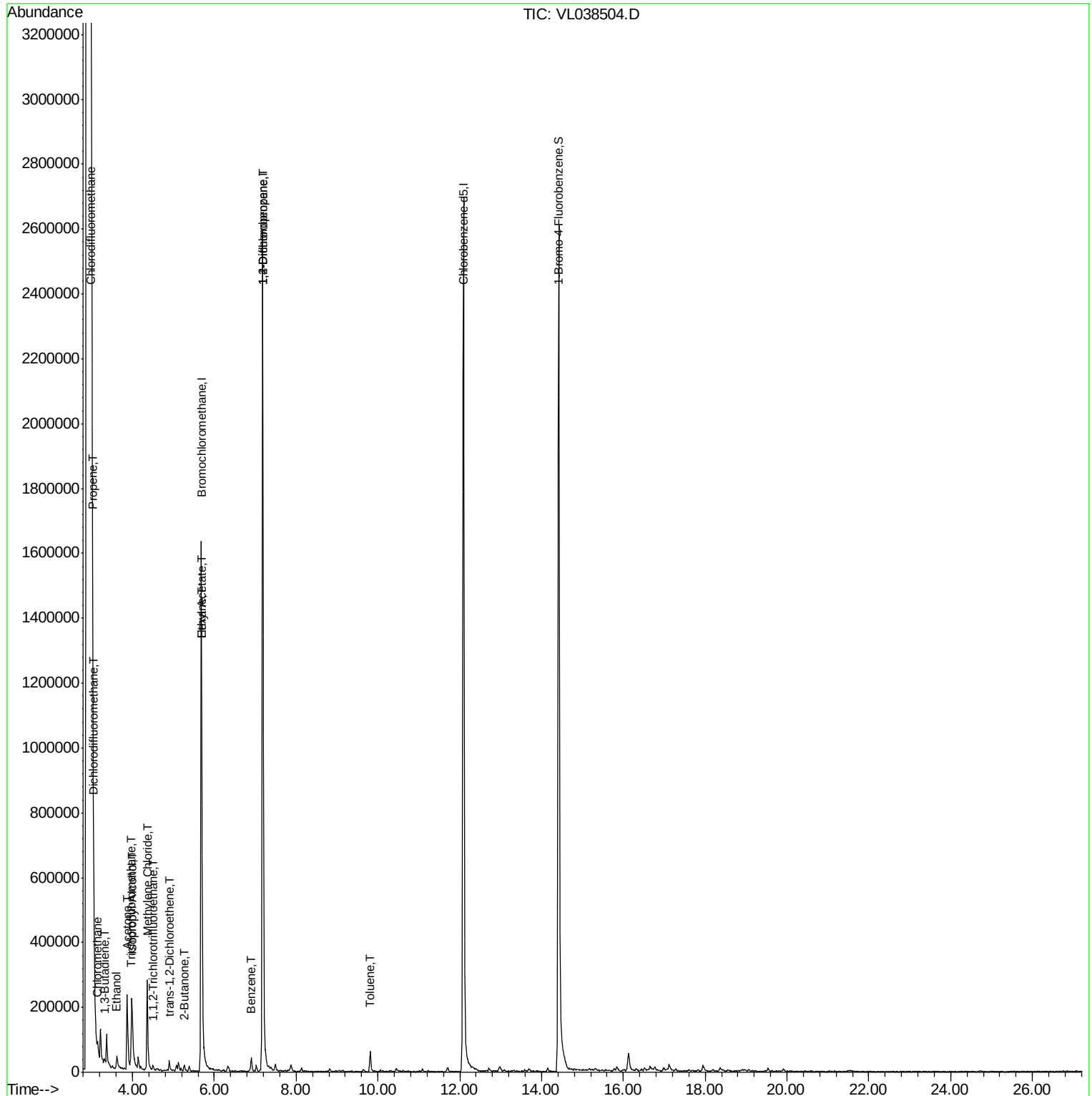
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	79809	0.579 ppbv	99
3) Chlorodifluoromethane	3.00	51	32873	0.214 ppbv	94
4) Chloromethane	3.14	50	26558	0.497 ppbv #	75
9) Propene	3.03	41	27294	0.538 ppbv	96
11) Trichlorofluoromethane	3.96	101	28939	0.219 ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.50	101	3185	0.033 ppbv #	20
13) Ethanol	3.61	45	25314	4.998 ppbv #	53
15) Acetone	3.87	43	266418	3.599 ppbv	99
16) 1,3-Butadiene	3.32	39	5426	0.110 ppbv #	58
19) Isopropyl Alcohol	3.98	45	297696	6.945 ppbv #	96
20) Methylene Chloride	4.36	84	103124	2.812 ppbv	94
22) trans-1,2-Dichloroethene	4.90	96	10815	0.252 ppbv	85
25) Ethyl Acetate	5.70	43	51594	0.259 ppbv #	78
26) Hexane	5.70	57	63497	0.705 ppbv #	45
34) 2-Butanone	5.27	43	22129	0.370 ppbv	91
36) Benzene	6.90	78	19328	0.115 ppbv	96
39) 1,2-Dichloropropane	7.18	63	530302	7.954 ppbv #	24
53) Toluene	9.82	91	43466	0.239 ppbv	95

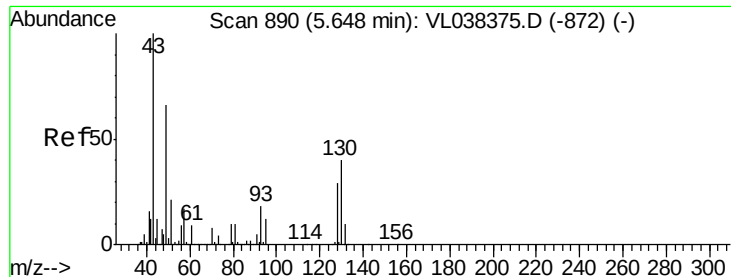
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030222\  
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Sample    : N1754-03  
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ALS Vial  : 1 Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Mar 03 06:54:25 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022222AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Feb 22 19:45:51 2022
QLast Update : Tue Feb 22 19:45:51 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 5:17

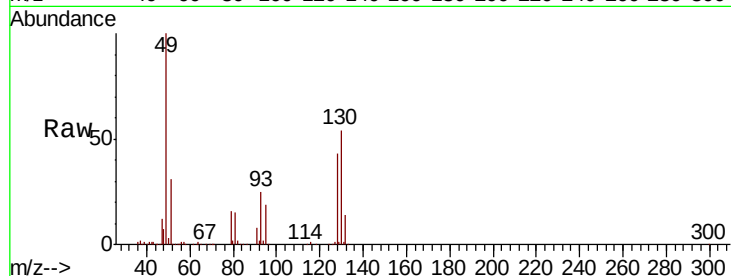
Tot Ion: 49 Resp: 870433

Ion Ratio Lower Upper

49 100

128 44.1 24.3 72.9

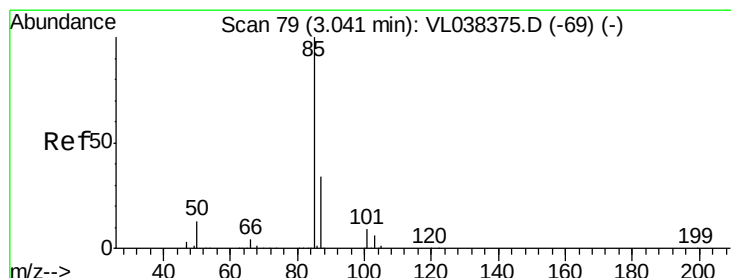
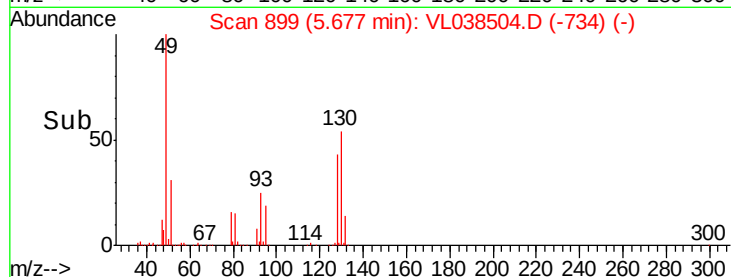
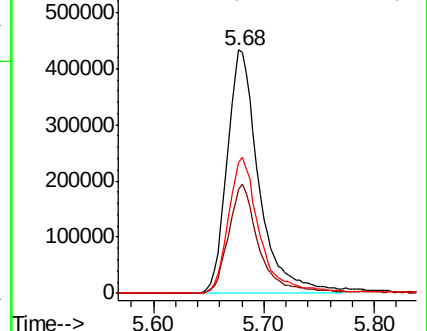
130 55.8 30.1 90.5



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: 0.579 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038504.D

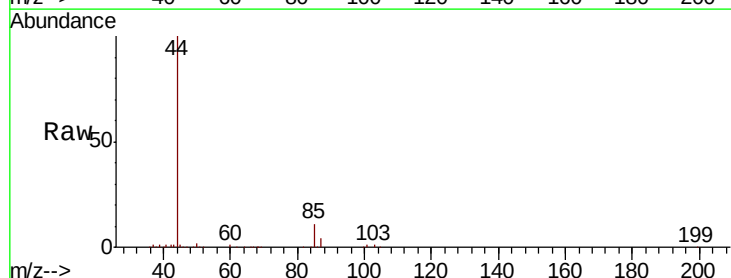
Acq: 3 Mar 2022 5:17

Tgt Ion: 85 Resp: 79809

Ion Ratio Lower Upper

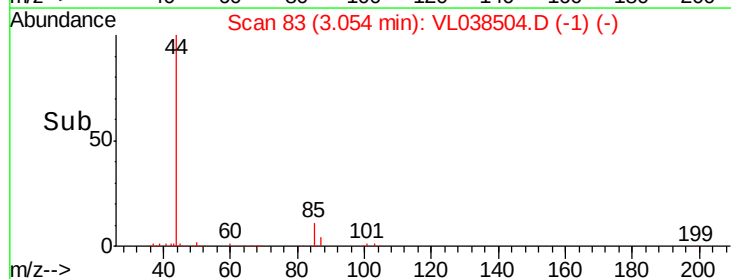
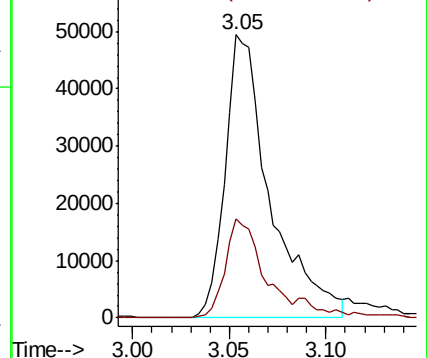
85 100

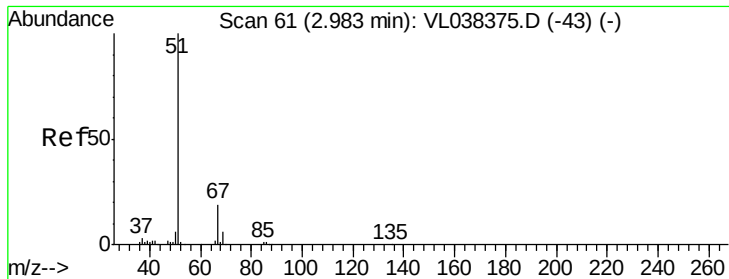
87 34.9 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.214 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

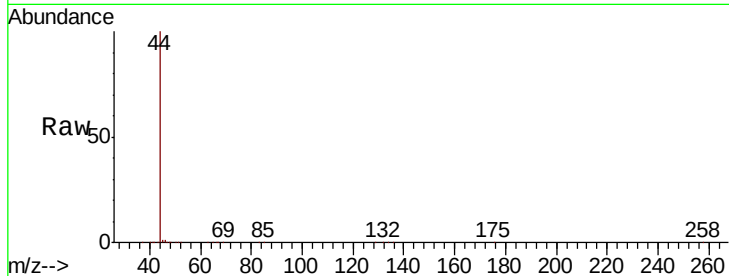
Acq: 3 Mar 2022 5:17

Tot Ion: 51 Resp: 32873

Ion Ratio Lower Upper

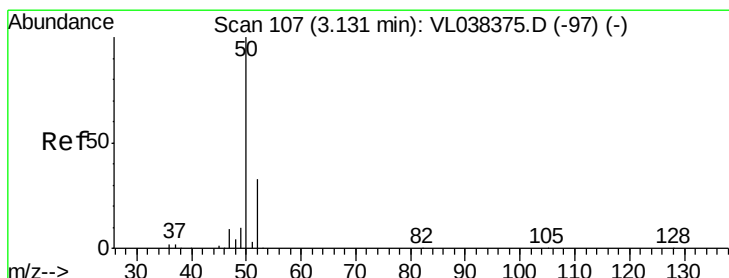
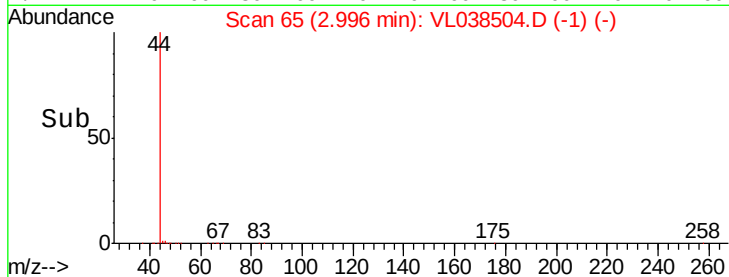
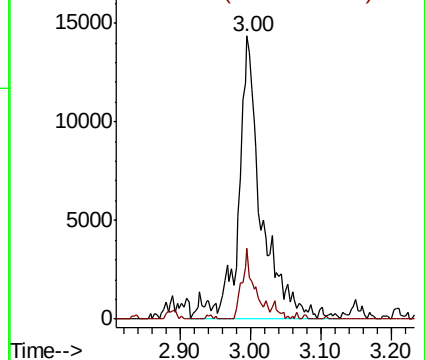
51 100

67 15.7 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.497 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038504.D

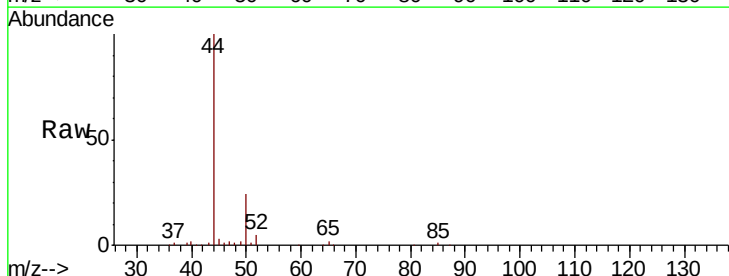
Acq: 3 Mar 2022 5:17

Tgt Ion: 50 Resp: 26558

Ion Ratio Lower Upper

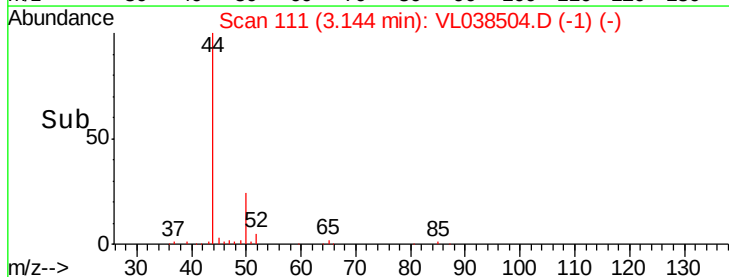
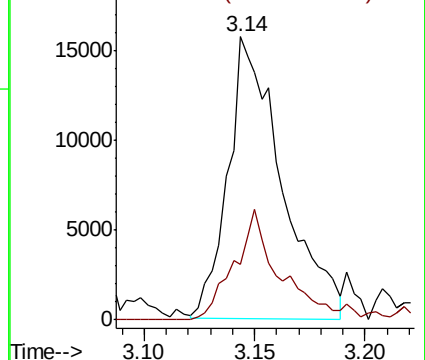
50 100

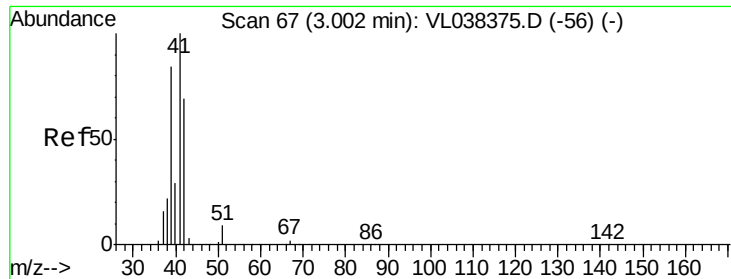
52 19.1 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.538 ppbv

RT: 3.03 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

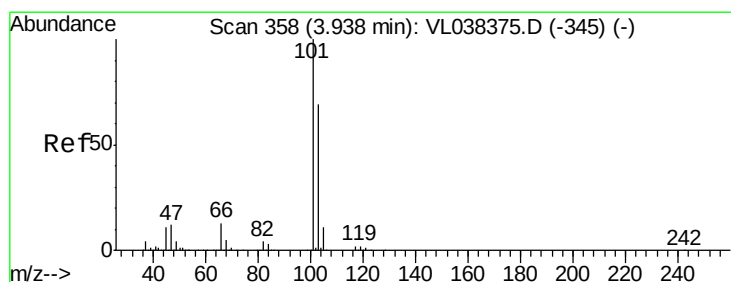
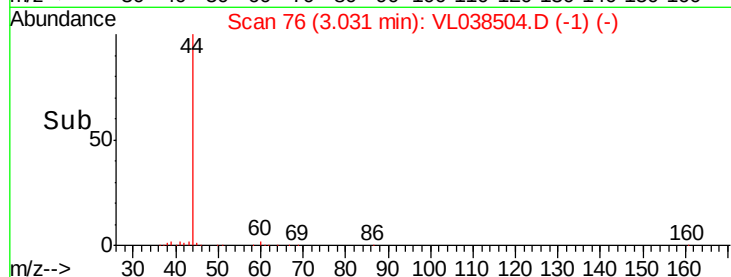
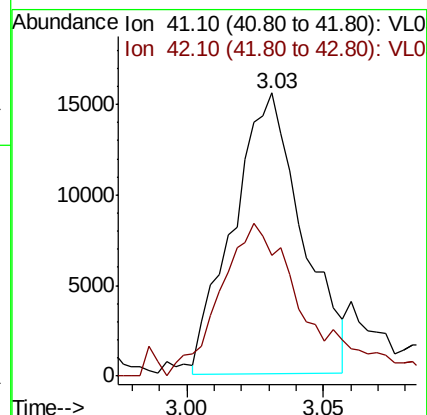
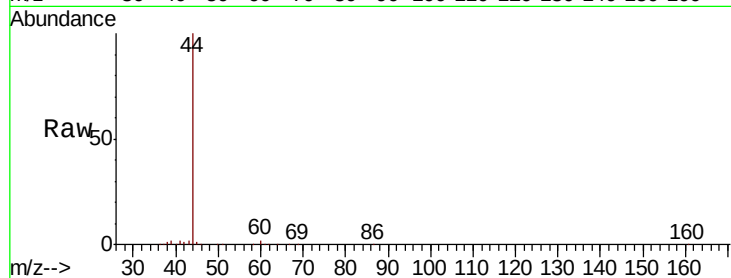
Acq: 3 Mar 2022 5:17

Tot Ion: 41 Resp: 27294

Ion Ratio Lower Upper

41 100

42 71.4 54.6 82.0



#11

Trichlorofluoromethane

Concen: 0.219 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.03 min

Lab File: VL038504.D

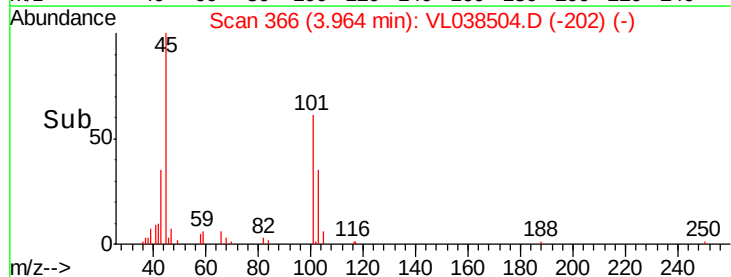
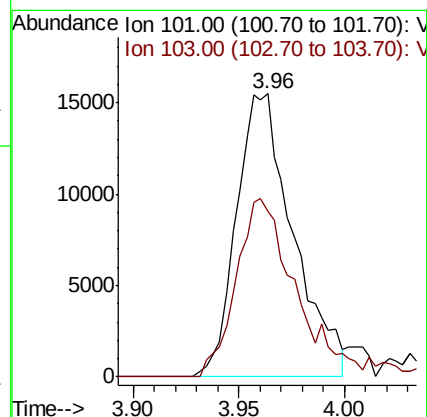
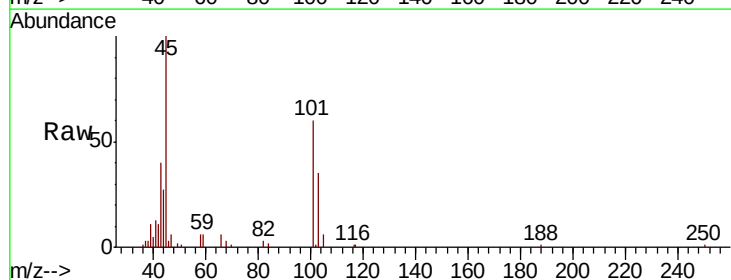
Acq: 3 Mar 2022 5:17

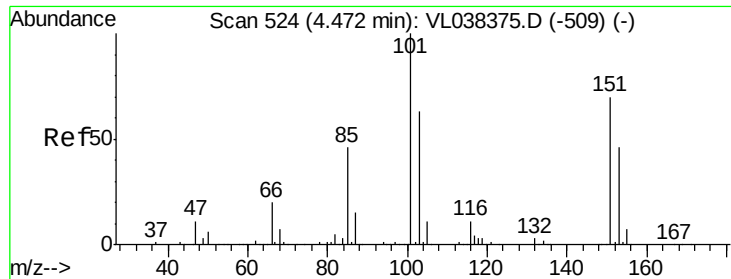
Tgt Ion:101 Resp: 28939

Ion Ratio Lower Upper

101 100

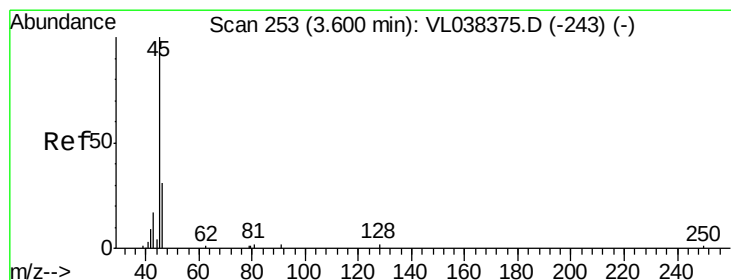
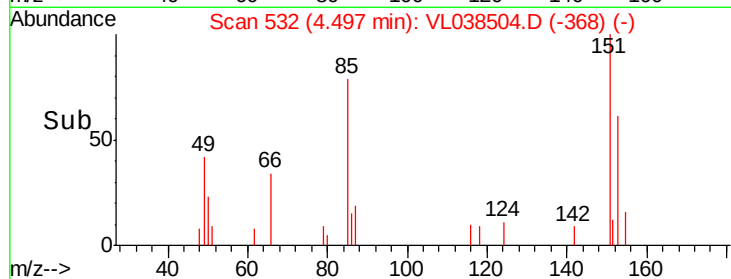
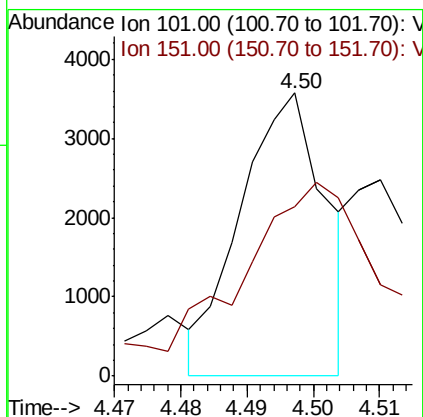
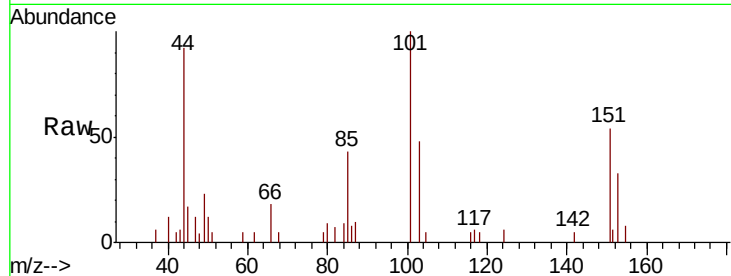
103 58.3 55.0 82.4





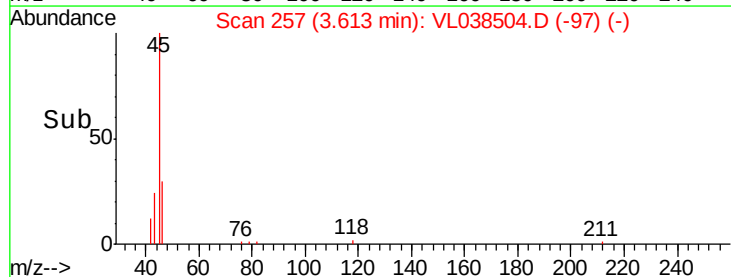
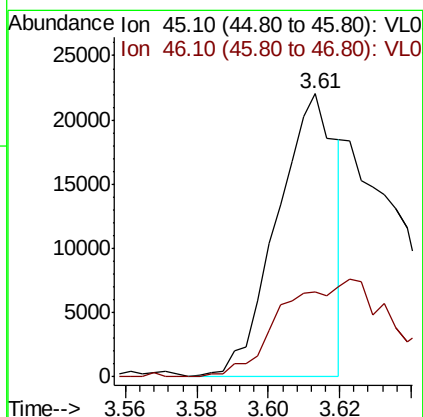
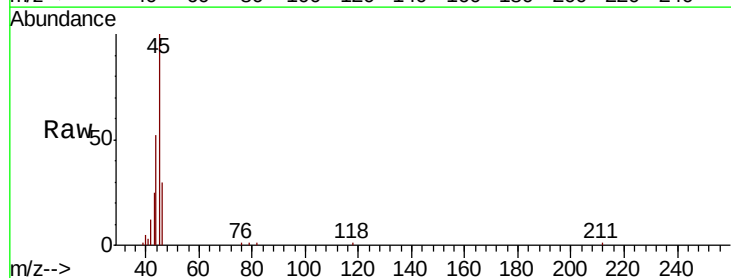
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.033 ppbv
 RT: 4.50
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 3 Mar 2022 5:17

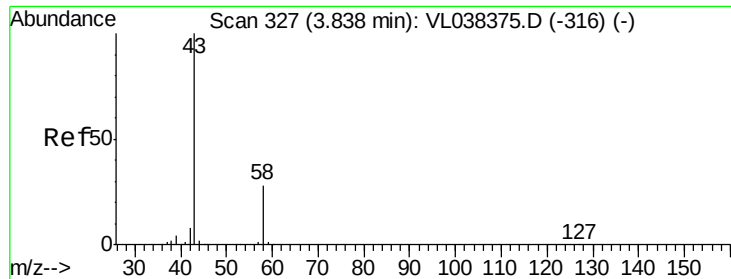
Tot Ion:101 Resp: 3185
 Ion Ratio Lower Upper
 101 100
 151 135.3 55.9 83.9#



#13
 Ethanol
 Concen: 4.998 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.01 min
 Lab File: VL038504.D
 Acq: 3 Mar 2022 5:17

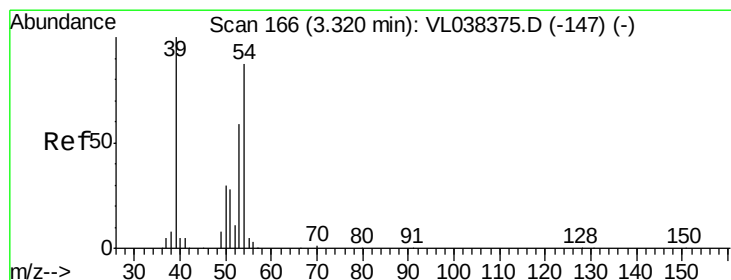
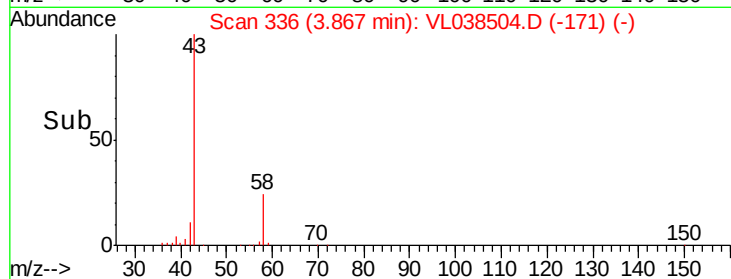
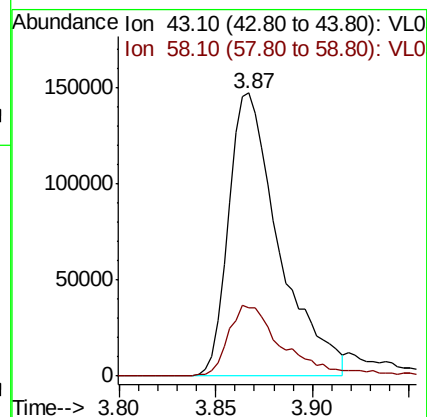
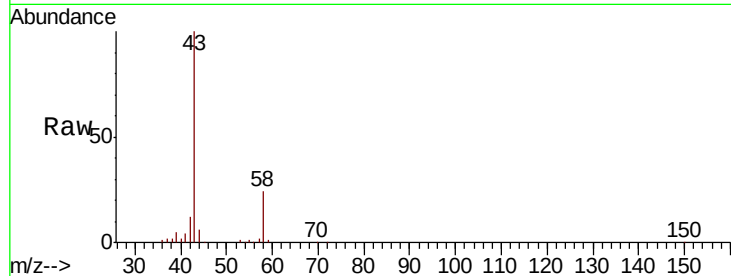
Tgt Ion: 45 Resp: 25314
 Ion Ratio Lower Upper
 45 100
 46 76.7 18.2 72.8#





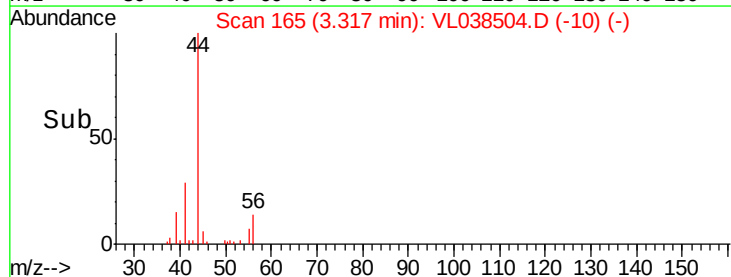
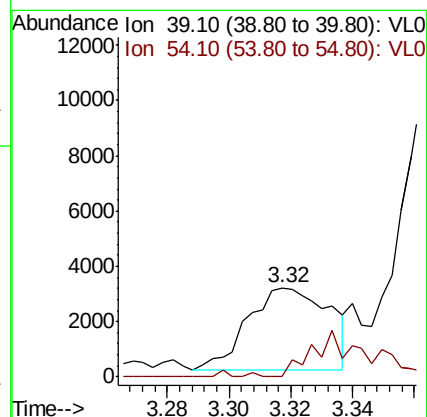
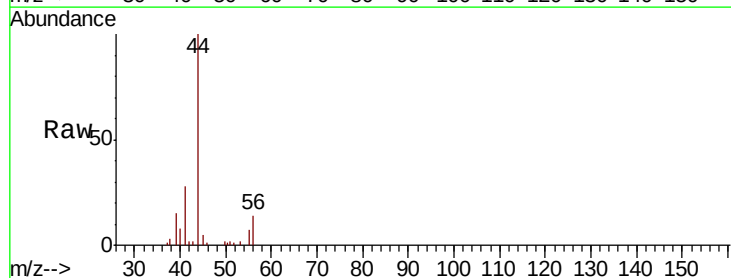
#15
Acetone
Concen: 3.599 ppbv
RT: 3.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Mar 2022 5:17

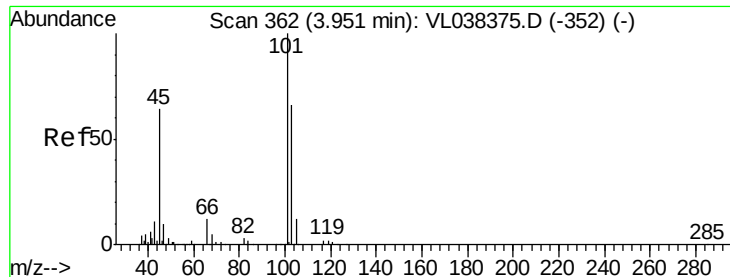
Tot Ion: 43 Resp: 266418
Ion Ratio Lower Upper
43 100
58 27.6 21.7 32.5



#16
1,3-Butadiene
Concen: 0.110 ppbv
RT: 3.32 min Scan# 165
Delta R.T. -0.00 min
Lab File: VL038504.D
Acq: 3 Mar 2022 5:17

Tgt Ion: 39 Resp: 5426
Ion Ratio Lower Upper
39 100
54 39.3 60.3 90.5#





#19

Isopropyl Alcohol

Concen: 6.945 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

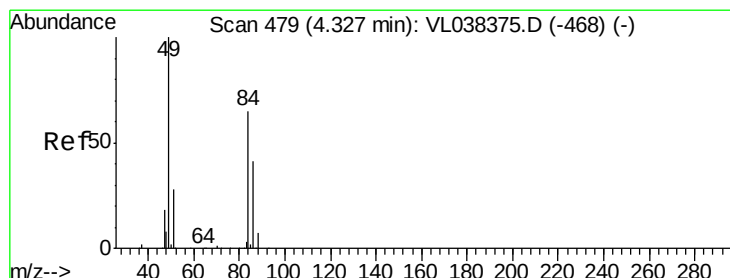
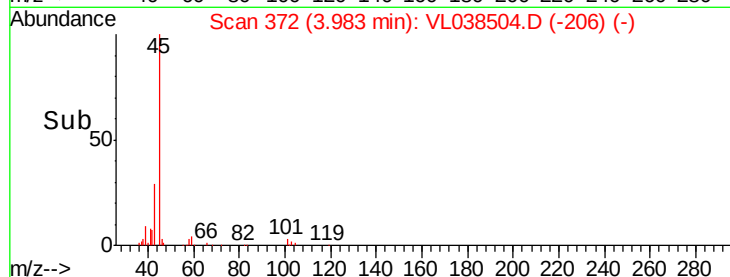
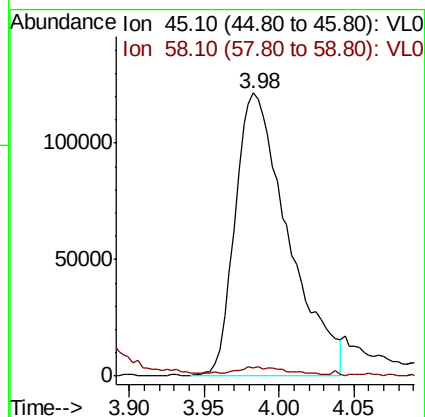
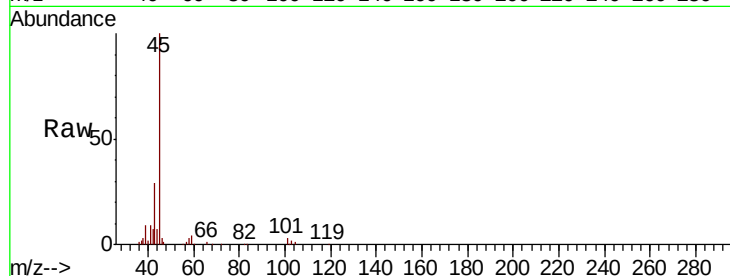
Acq: 3 Mar 2022 5:17

Tot Ion: 45 Resp: 297696

Ion Ratio Lower Upper

45 100

58 3.6 1.8 2.8#



#20

Methylene Chloride

Concen: 2.812 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.03 min

Lab File: VL038504.D

Acq: 3 Mar 2022 5:17

Tgt Ion: 84 Resp: 103124

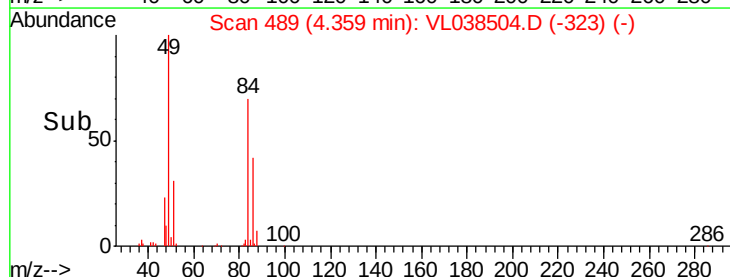
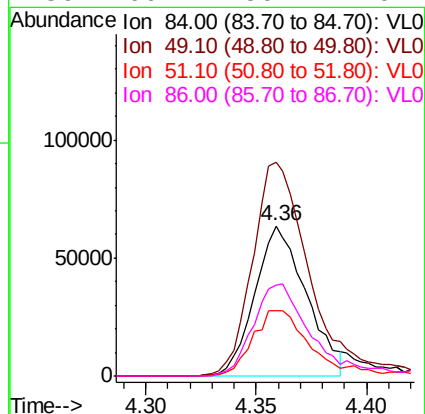
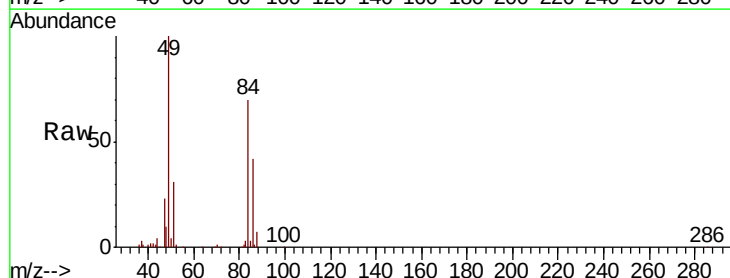
Ion Ratio Lower Upper

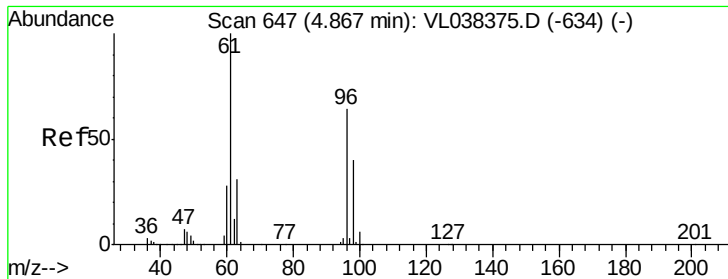
84 100

49 142.4 122.4 183.6

51 43.9 33.3 49.9

86 60.4 50.7 76.1





#22

trans-1,2-Dichloroethene

Concen: 0.252 ppbv

RT: 4.90 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 5:17

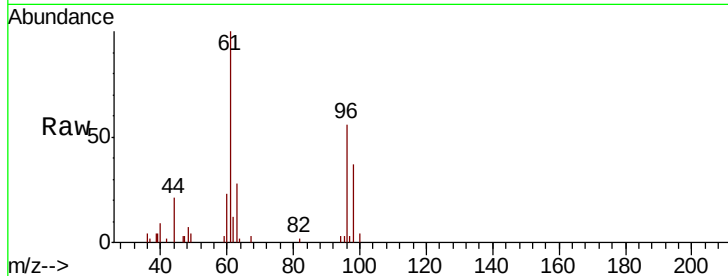
Tot Ion: 96 Resp: 10815

Ion Ratio Lower Upper

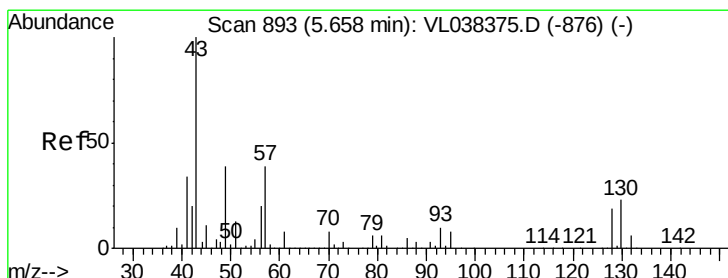
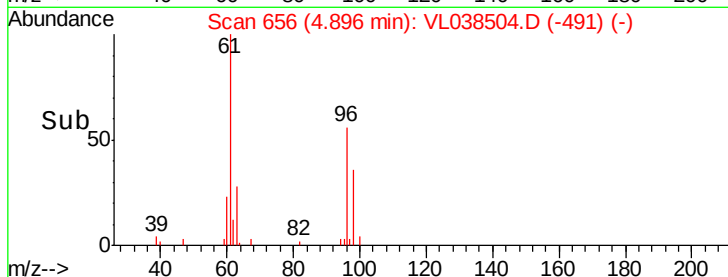
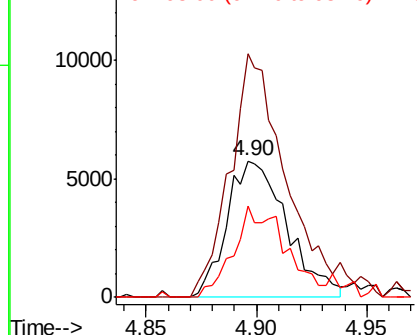
96 100

61 178.8 124.2 186.4

98 66.8 49.1 73.7



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#25

Ethyl Acetate

Concen: 0.259 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.04 min

Lab File: VL038504.D

Acq: 3 Mar 2022 5:17

Tgt Ion: 43 Resp: 51594

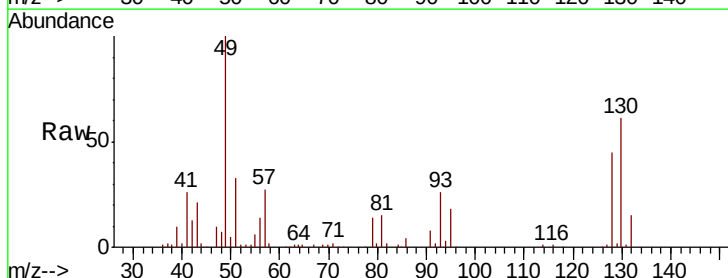
Ion Ratio Lower Upper

43 100

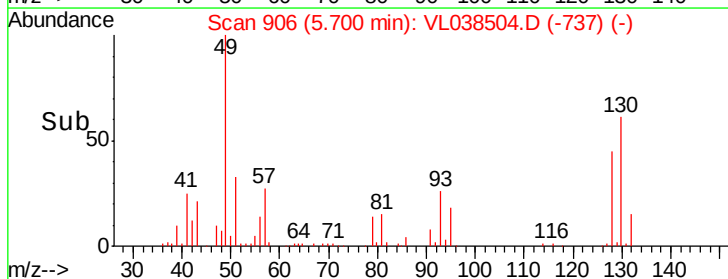
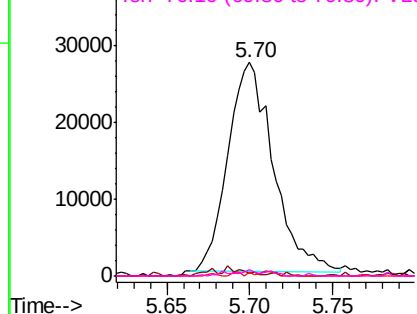
45 0.0 7.8 11.6#

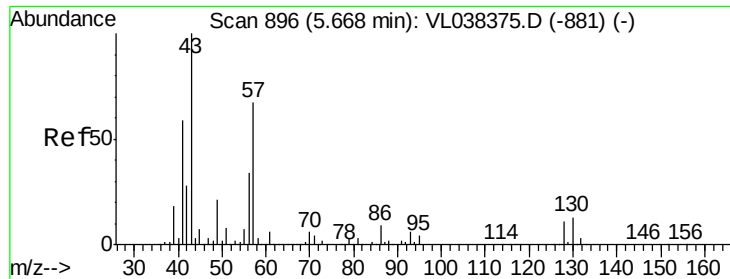
61 1.0 7.5 11.3#

70 2.3 5.4 8.0#



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: 0.705 ppbv

RT: 5.70 Instrument:

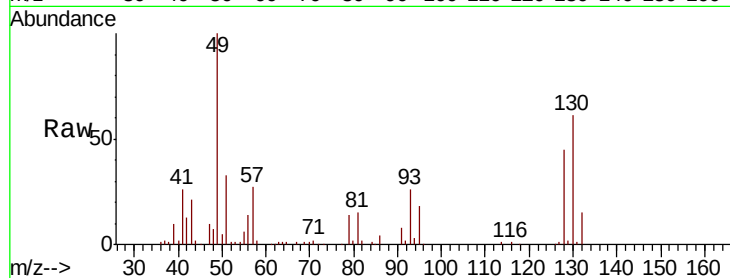
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 5:17

Tot Ion: 57 Resp: 63497

Ion	Ratio	Lower	Upper
57	100		
41	104.5	73.1	109.7
43	90.1	181.0	271.4#
56	59.1	43.4	65.0

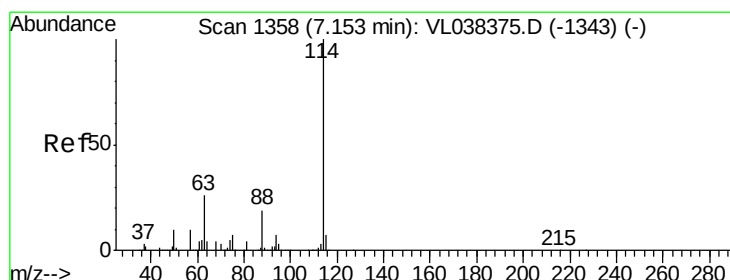
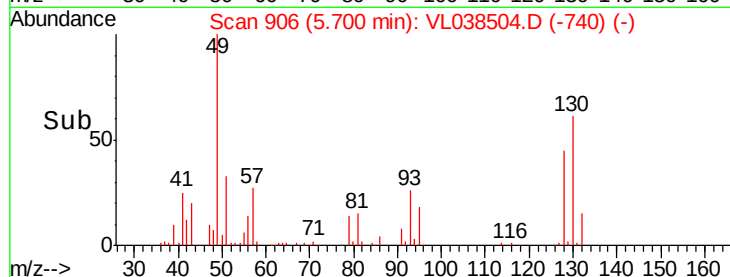
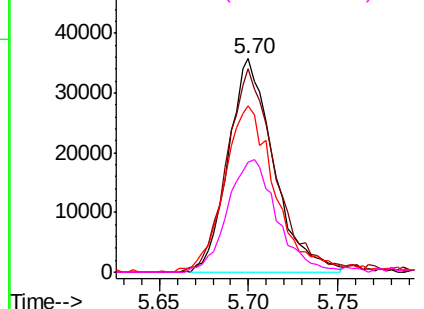


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.18 min Scan# 1367

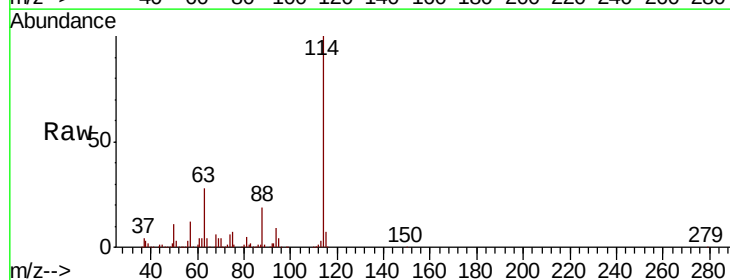
Delta R.T. 0.03 min

Lab File: VL038504.D

Acq: 3 Mar 2022 5:17

Tgt Ion: 114 Resp: 1901350

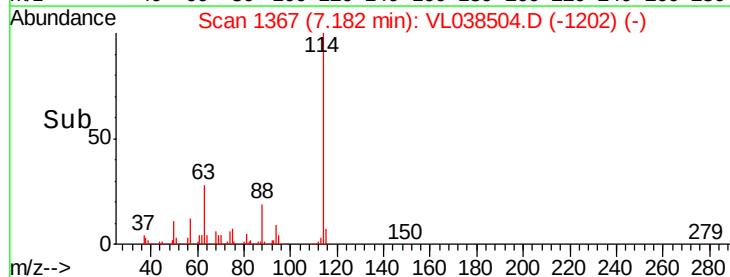
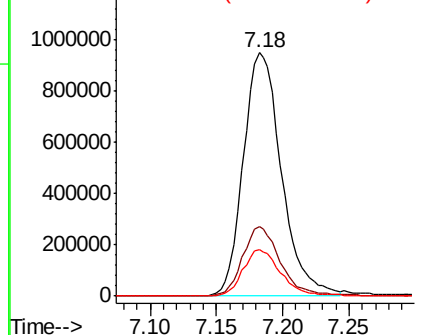
Ion	Ratio	Lower	Upper
114	100		
63	28.6	22.2	33.2
88	19.0	15.2	22.8

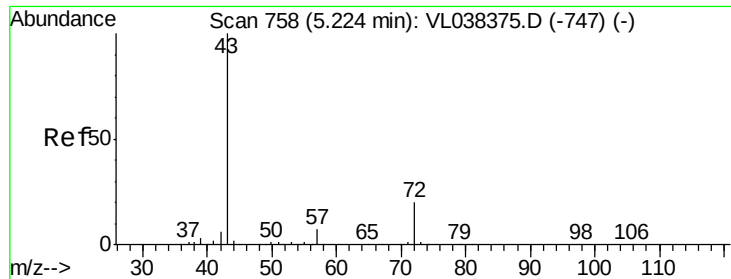


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

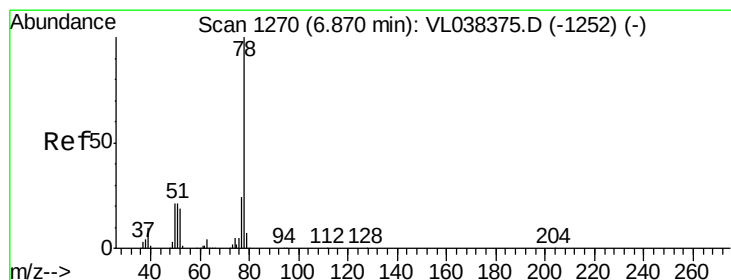
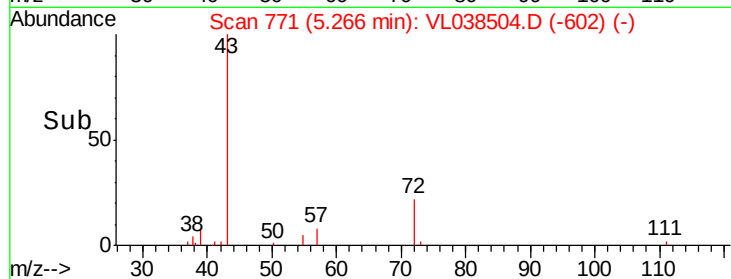
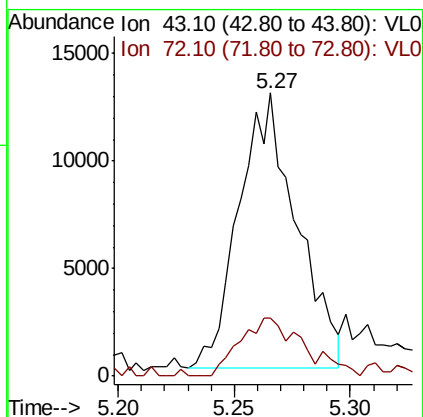
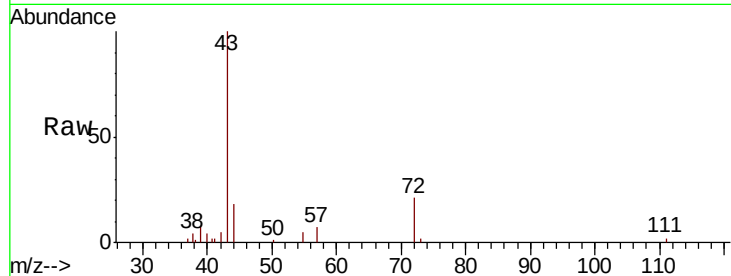
Ion 88.10 (87.80 to 88.80): VL0





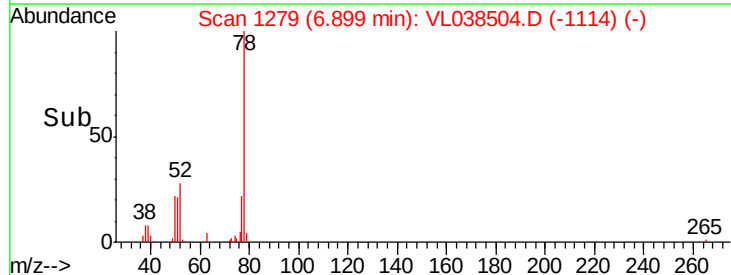
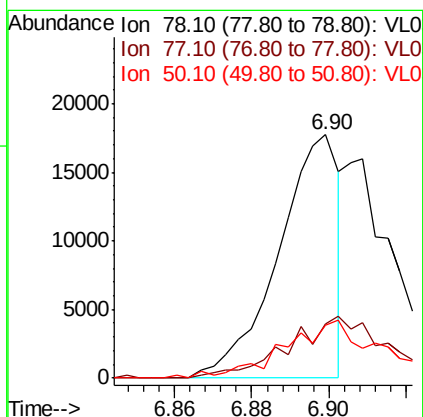
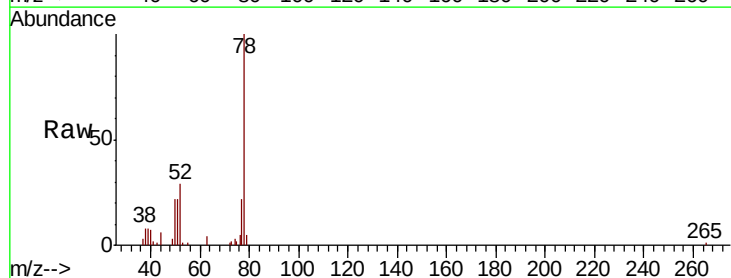
#34
 2-Butanone
 Concen: 0.370 ppbv
 RT: 5.27
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 5:17

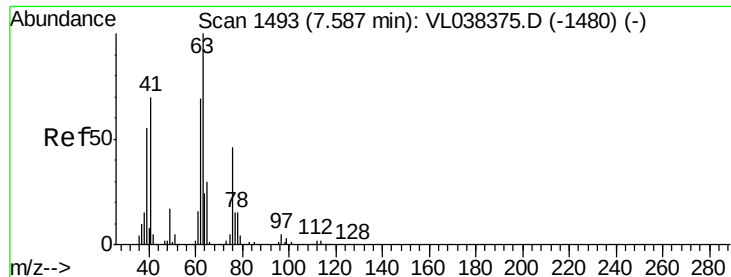
Tot Ion: 43 Resp: 22129
 Ion Ratio Lower Upper
 43 100
 72 25.9 17.4 26.2



#36
 Benzene
 Concen: 0.115 ppbv
 RT: 6.90 min Scan# 1279
 Delta R.T. 0.03 min
 Lab File: VL038504.D
 Acq: 3 Mar 2022 5:17

Tgt Ion: 78 Resp: 19328
 Ion Ratio Lower Upper
 78 100
 77 21.5 19.0 28.6
 50 19.6 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.954 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 5:17

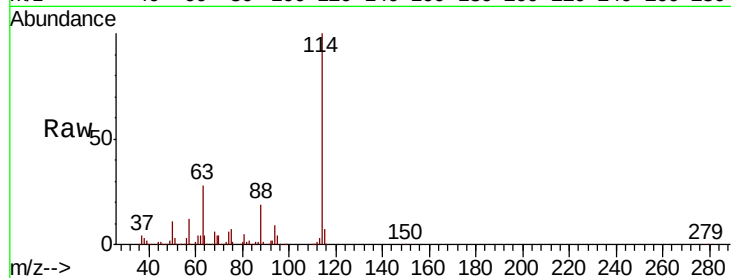
Tot Ion: 63 Resp: 530302

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

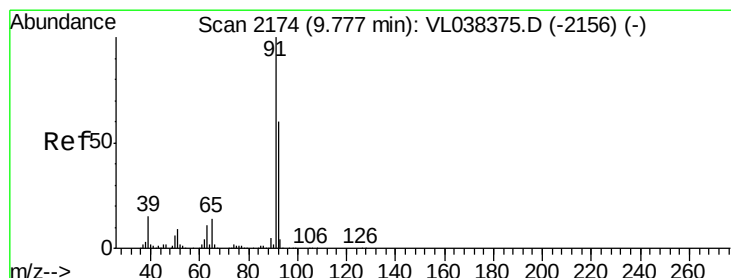
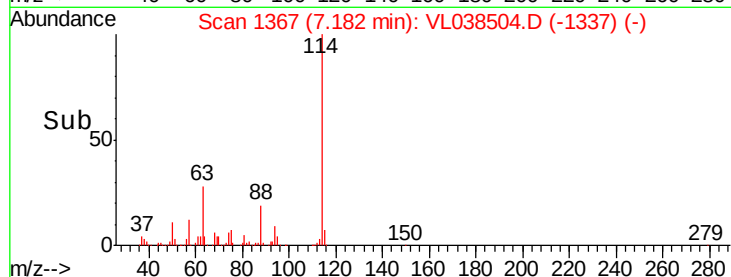
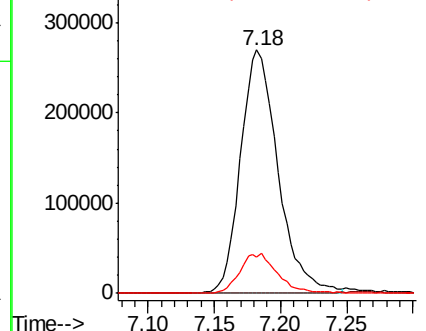
62 15.1 55.5 83.3#



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: 0.239 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.04 min

Lab File: VL038504.D

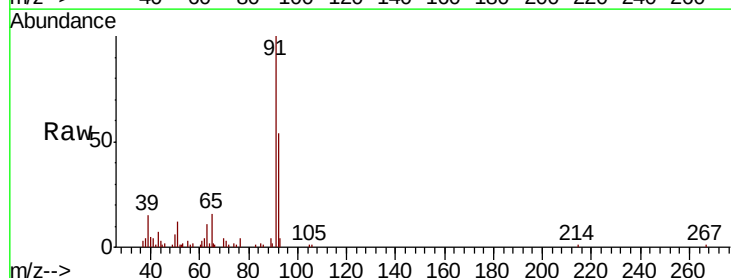
Acq: 3 Mar 2022 5:17

Tgt Ion: 91 Resp: 43466

Ion Ratio Lower Upper

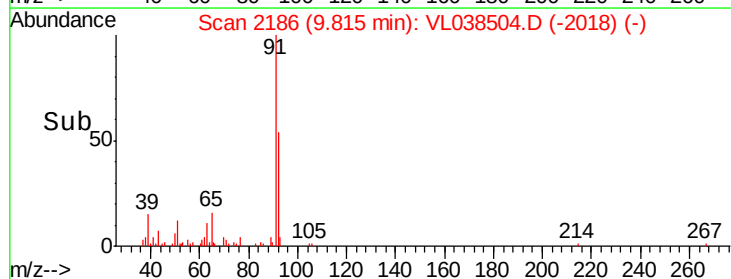
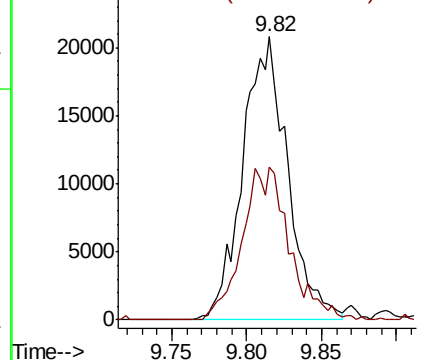
91 100

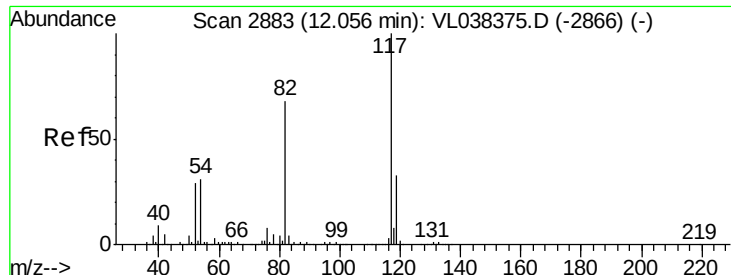
92 56.3 48.2 72.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

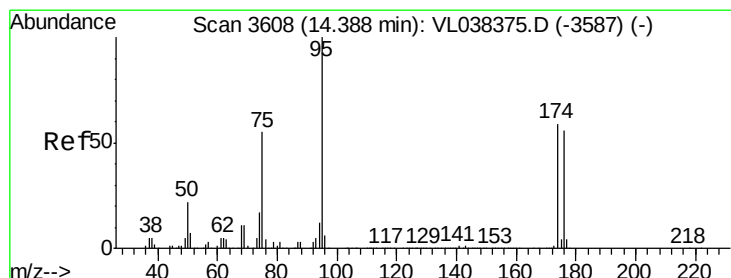
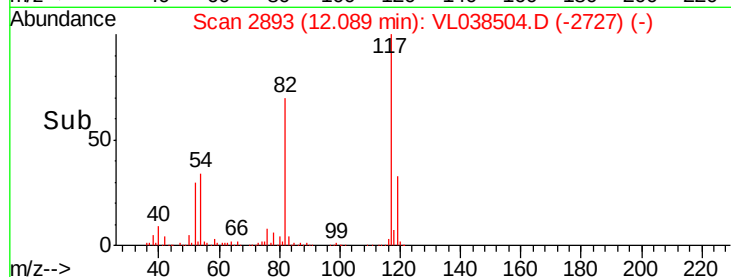
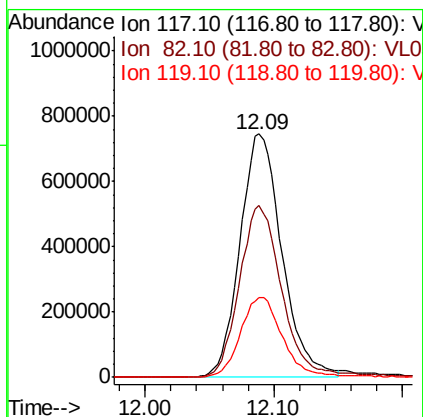
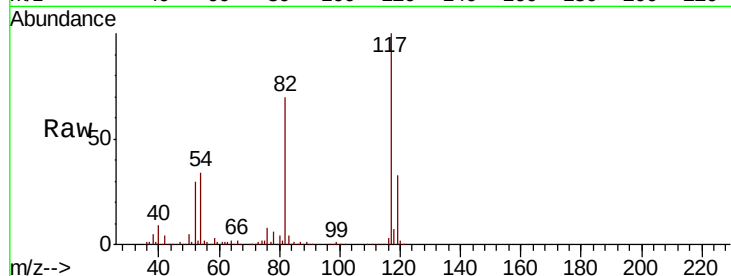
Ion 92.10 (91.80 to 92.80): VL0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 3 Mar 2022 5:17

Tot Ion: 117 Resp: 1689781
Ion Ratio Lower Upper
117 100
82 72.9 54.9 82.3
119 33.9 46.1 69.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.097 ppbv
RT: 14.42 min Scan# 3617
Delta R.T.: 0.03 min
Lab File: VL038504.D
Acq: 3 Mar 2022 5:17

Tgt Ion: 95 Resp: 1411743
Ion Ratio Lower Upper
95 100
174 58.4 49.0 73.4
175 4.3 3.6 5.4

