

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036358.D
 Acq On : 24 Feb 2021 20:01
 Operator : SY/AP
 Sample : M1463-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-14DL

Quant Time: Feb 25 05:19:32 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1721833	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.19	114	3740094	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.10	117	3388904	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2599460	9.32	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

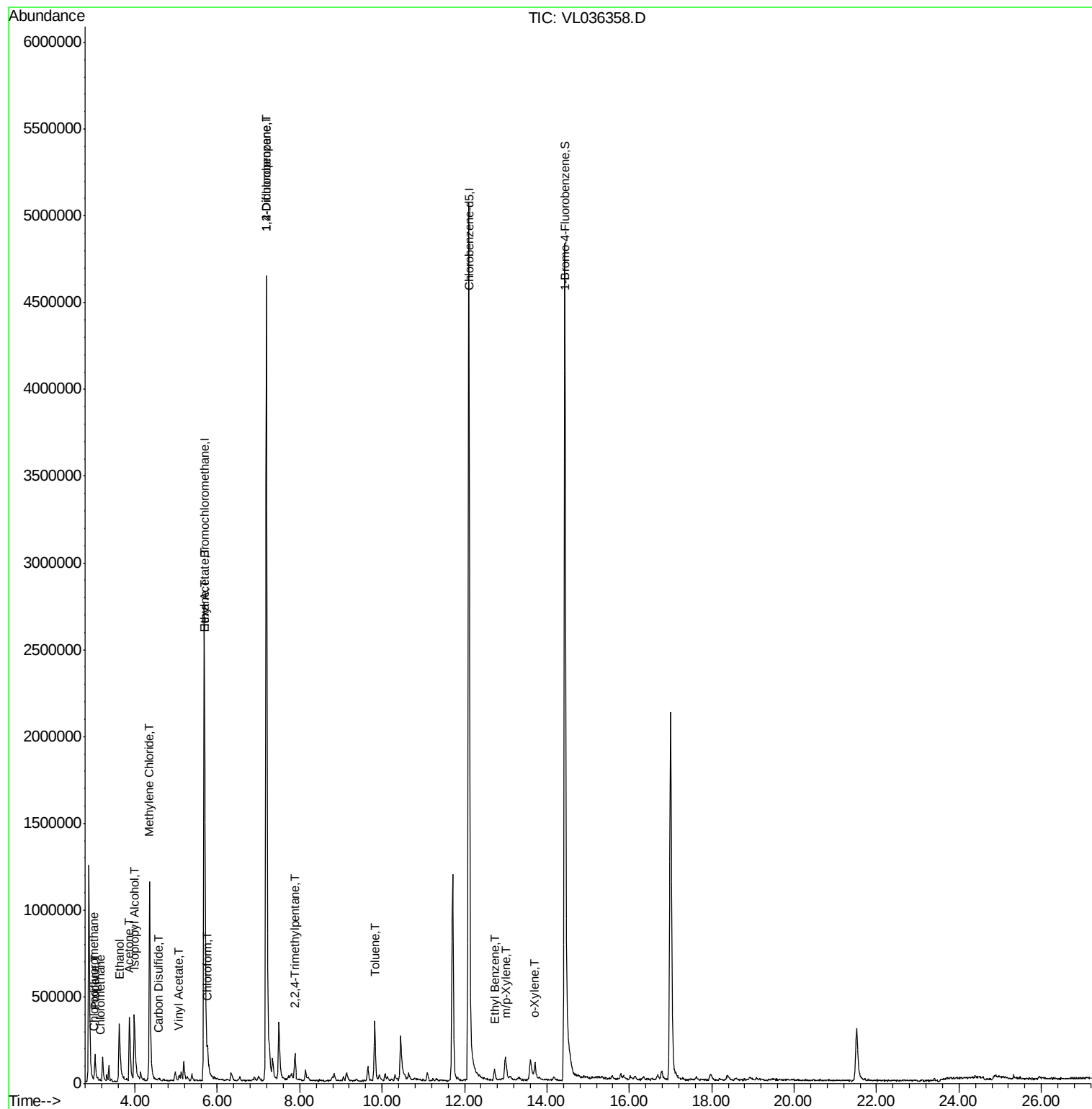
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	11630	0.054	ppbv #	87
4) Chloromethane	3.15	50	6469	0.063	ppbv #	83
9) Propene	3.03	41	42091	0.528	ppbv	88
13) Ethanol	3.62	45	456514	30.471	ppbv	99
15) Acetone	3.86	43	479775	2.280	ppbv	91
19) Isopropyl Alcohol	3.98	45	527767	4.526	ppbv #	97
20) Methylene Chloride	4.36	84	454615	6.695	ppbv	96
23) Vinyl Acetate	5.08	43	13877	0.056	ppbv #	73
25) Ethyl Acetate	5.70	43	63679	0.157	ppbv #	86
26) Hexane	5.70	57	117700	0.705	ppbv #	42
27) Carbon Disulfide	4.56	76	4758	0.031	ppbv #	1
29) Chloroform	5.76	83	65748	0.244	ppbv	85
39) 1,2-Dichloropropane	7.19	63	1046569	8.109	ppbv #	23
44) 2,2,4-Trimethylpentane	7.89	57	71610	0.124	ppbv #	33
53) Toluene	9.83	91	213795	0.621	ppbv	98
58) Ethyl Benzene	12.73	91	28074	0.060	ppbv	96
59) m/p-Xylene	13.01	91	31874	0.078	ppbv #	33
60) o-Xylene	13.71	91	59670	0.153	ppbv	98

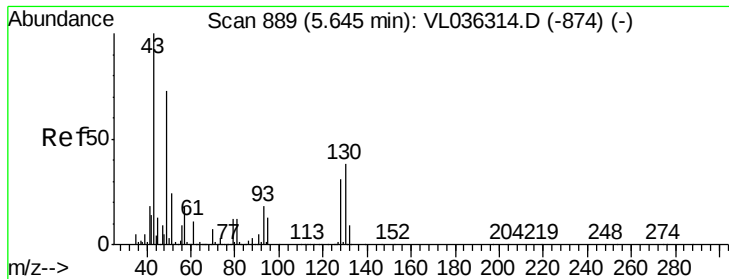
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.04 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

NS-14DL

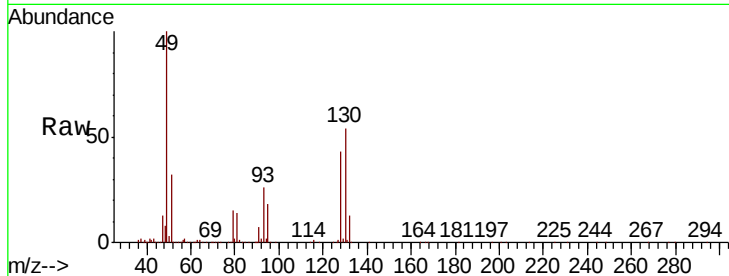
Tot Ion: 49 Resp: 1721833

Ion Ratio Lower Upper

49 100

128 42.6 20.8 62.5

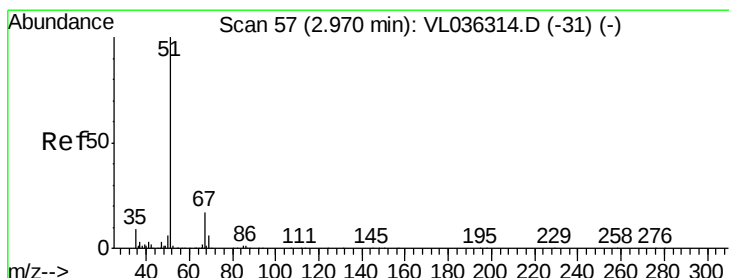
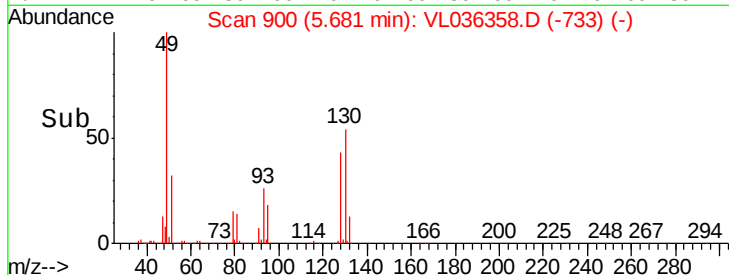
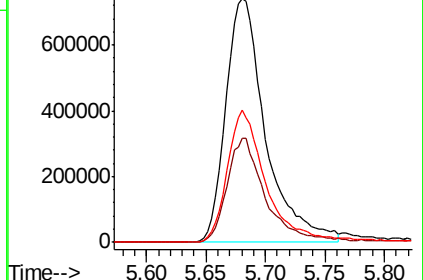
130 54.4 26.7 80.1



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: 0.054 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.03 min

Lab File: VL036358.D

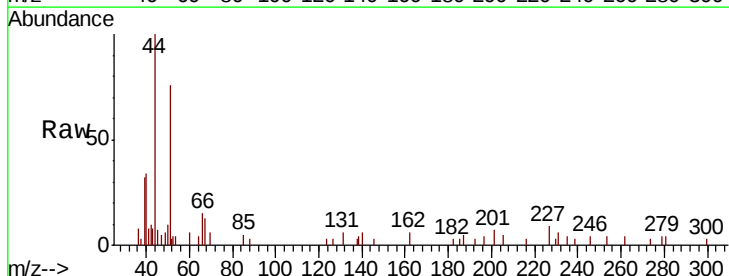
Acq: 24 Feb 2021 20:01

Tgt Ion: 51 Resp: 11630

Ion Ratio Lower Upper

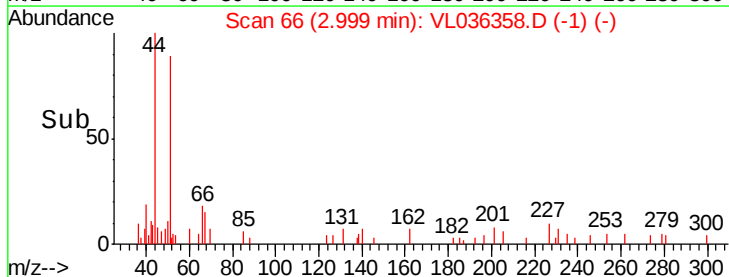
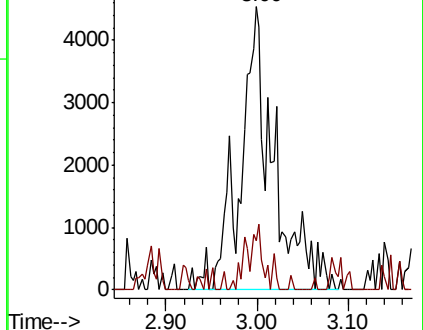
51 100

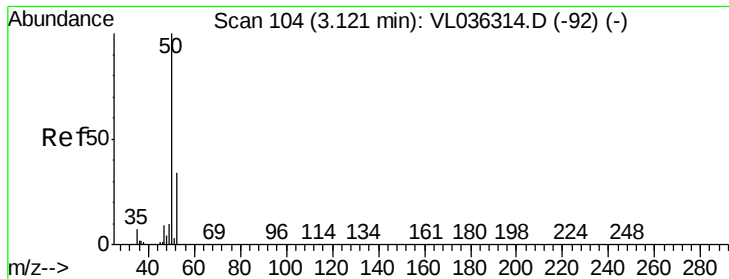
67 12.8 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.063 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.03 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

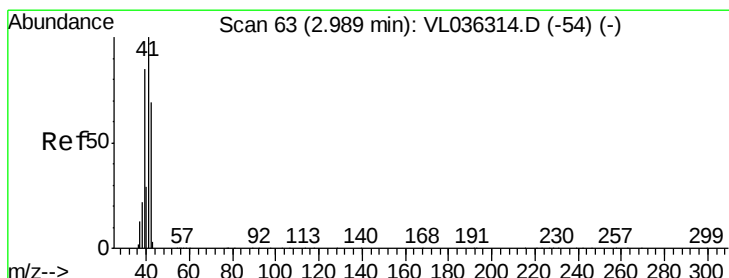
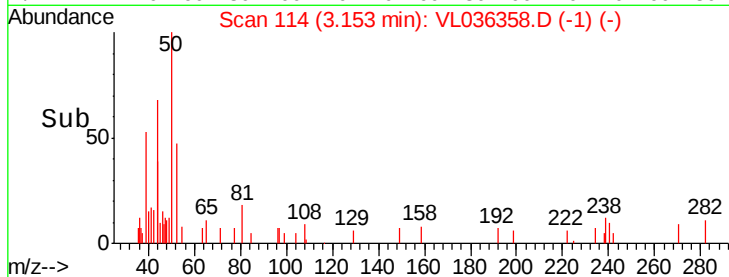
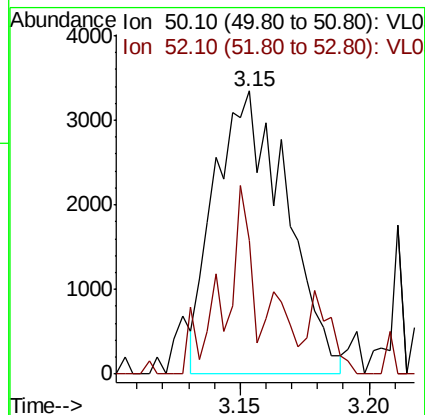
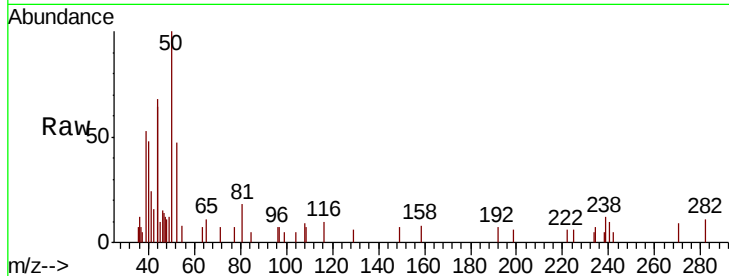
NS-14DL

Tot Ion: 50 Resp: 6469

Ion Ratio Lower Upper

50 100

52 43.3 27.0 40.4#



#9

Propene

Concen: 0.528 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.04 min

Lab File: VL036358.D

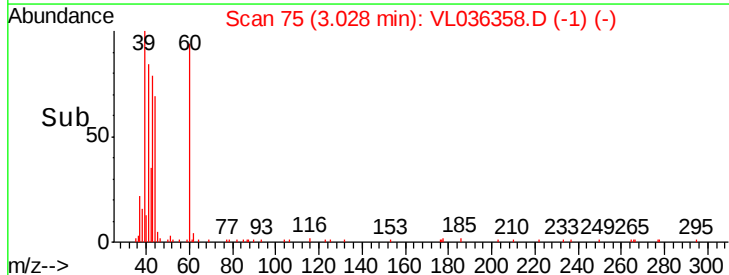
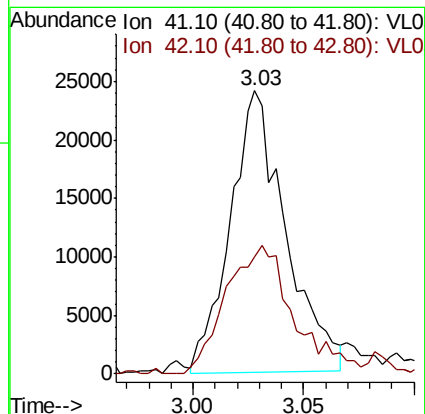
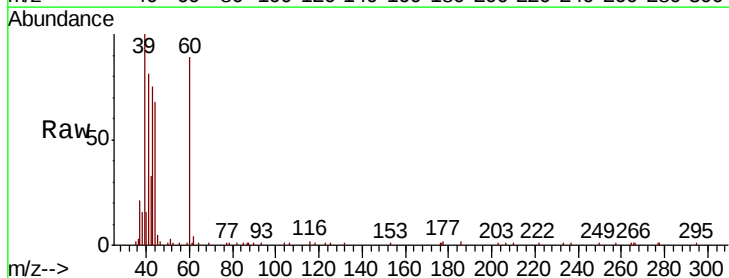
Acq: 24 Feb 2021 20:01

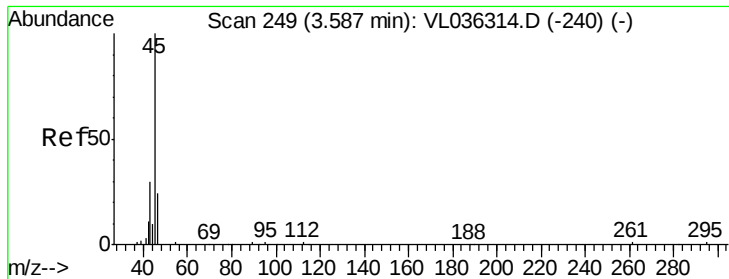
Tgt Ion: 41 Resp: 42091

Ion Ratio Lower Upper

41 100

42 60.6 56.2 84.2





#13

Ethanol

Concen: 30.471 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.03 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

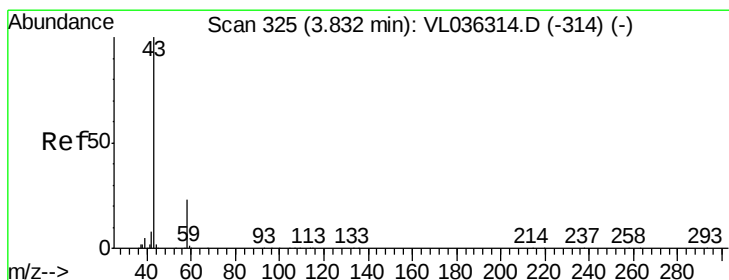
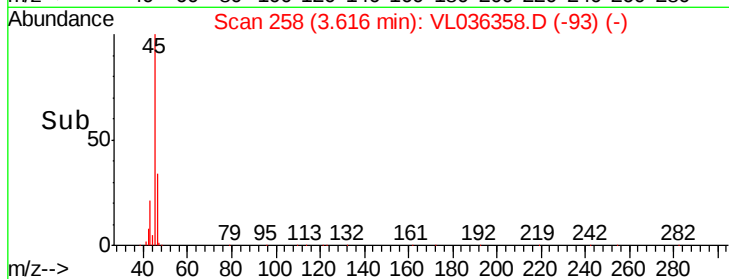
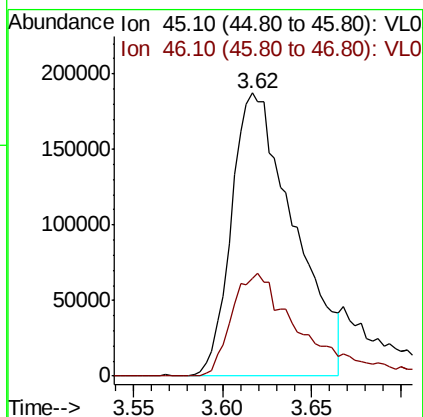
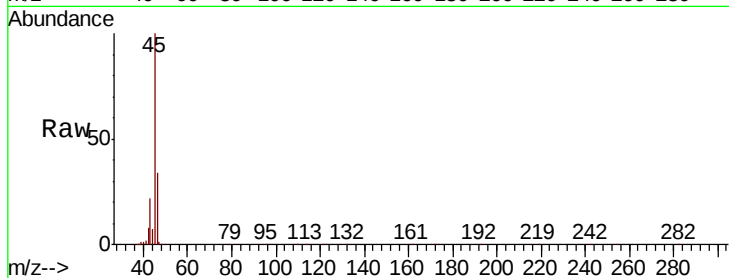
NS-14DL

Tot Ion: 45 Resp: 456514

Ion Ratio Lower Upper

45 100

46 43.5 17.7 70.7



#15

Acetone

Concen: 2.280 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.03 min

Lab File: VL036358.D

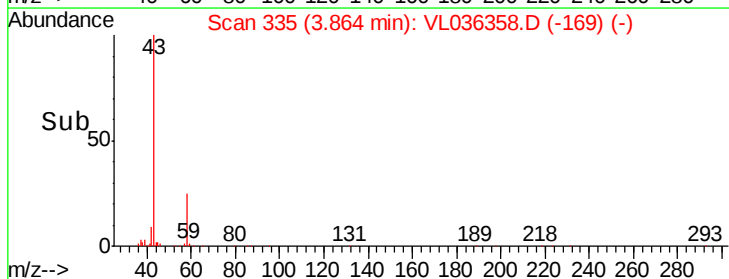
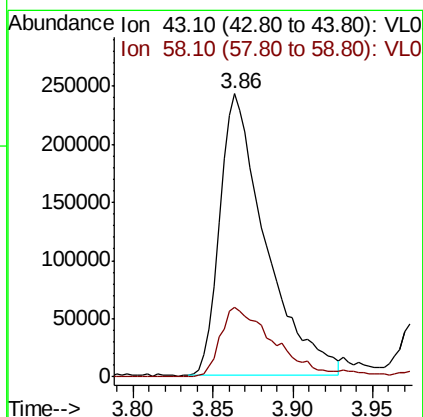
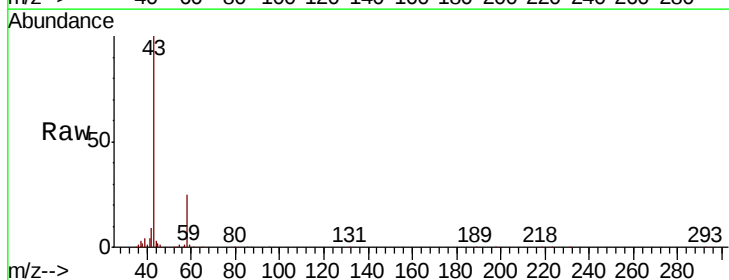
Acq: 24 Feb 2021 20:01

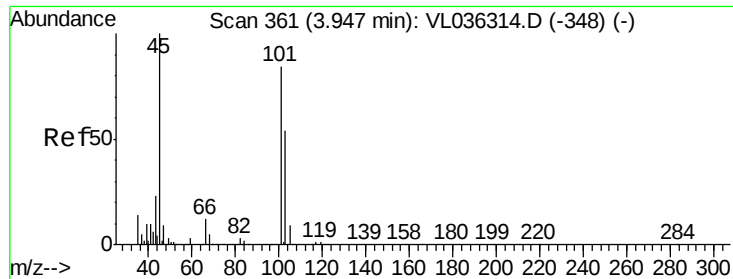
Tgt Ion: 43 Resp: 479775

Ion Ratio Lower Upper

43 100

58 29.8 20.3 30.5





#19

Isopropyl Alcohol

Concen: 4.526 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.04 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

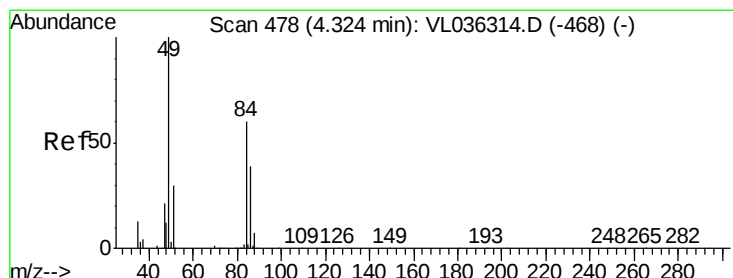
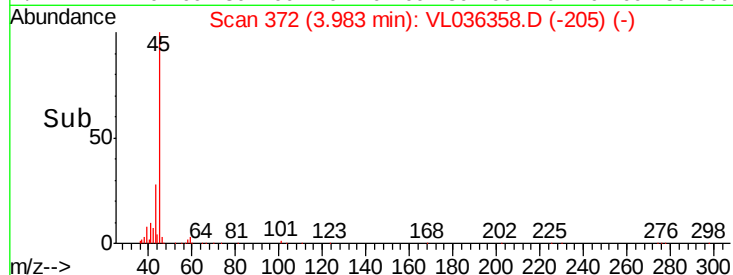
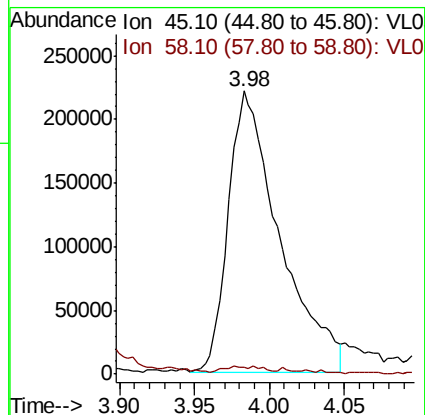
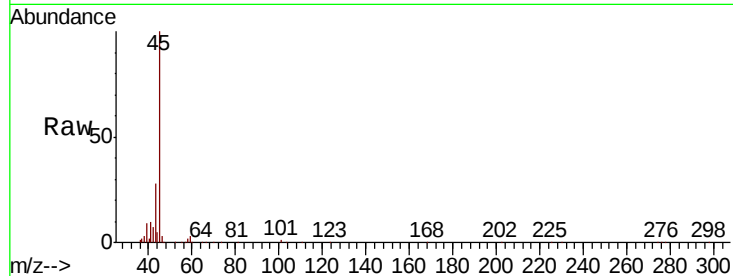
NS-14DL

Tot Ion: 45 Resp: 527767

Ion Ratio Lower Upper

45 100

58 3.3 1.9 2.9#



#20

Methylene Chloride

Concen: 6.695 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.03 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Tgt Ion: 84 Resp: 454615

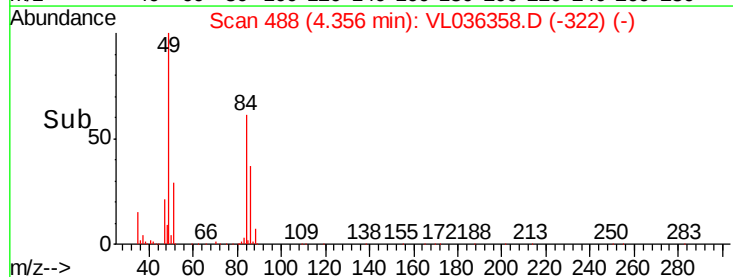
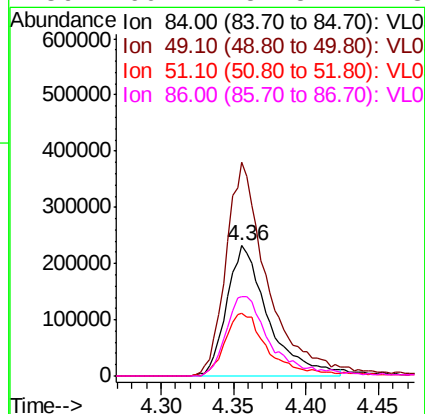
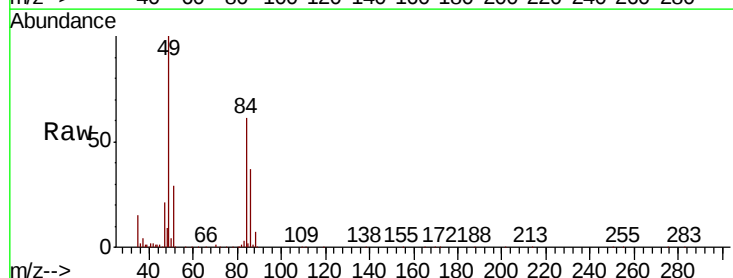
Ion Ratio Lower Upper

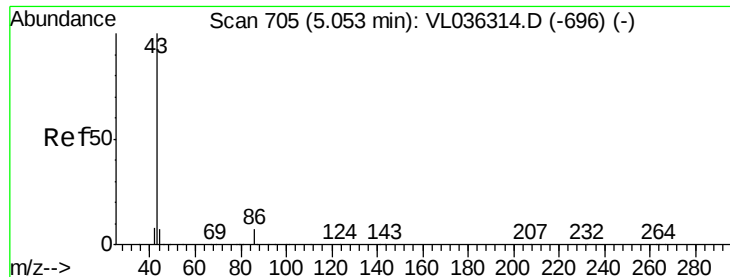
84 100

49 163.8 133.8 200.8

51 47.8 41.4 62.0

86 60.7 51.5 77.3





#23

Vinyl Acetate

Concen: 0.056 ppbv

RT: 5.08 min Scan# 712

Delta R.T. 0.02 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

NS-14DL

Tot Ion: 43 Resp: 13877

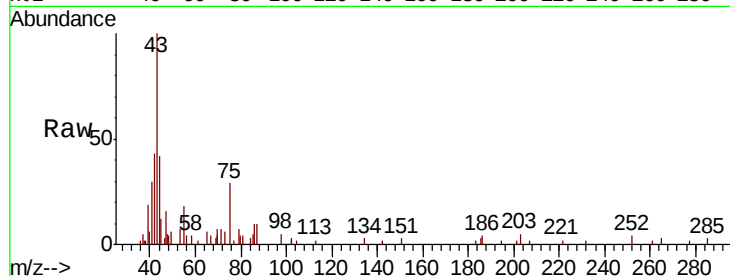
Ion Ratio Lower Upper

43 100

86 11.3 4.8 7.2#

42 21.9 7.4 11.0#

44 15.3 4.8 7.2#

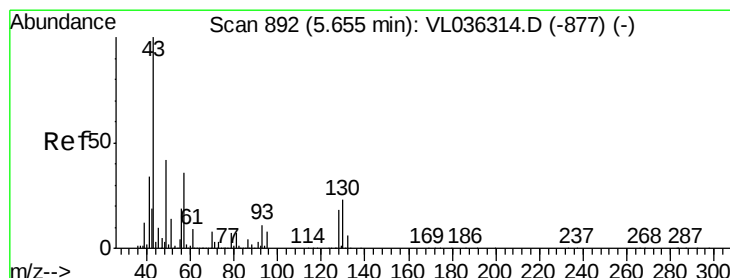
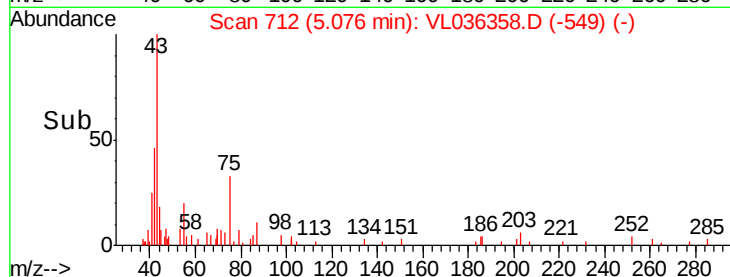
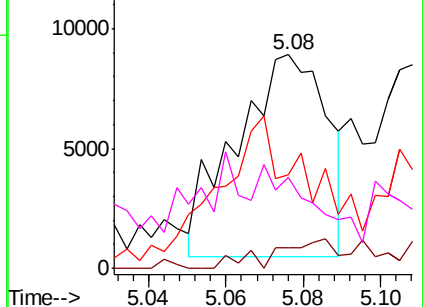


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.157 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.05 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Tgt Ion: 43 Resp: 63679

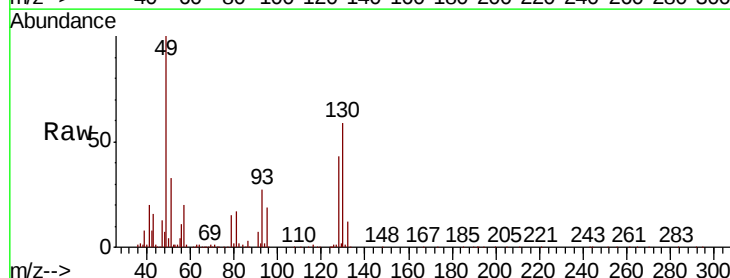
Ion Ratio Lower Upper

43 100

45 6.6 8.3 12.5#

61 0.0 7.3 10.9#

70 5.1 5.4 8.0#

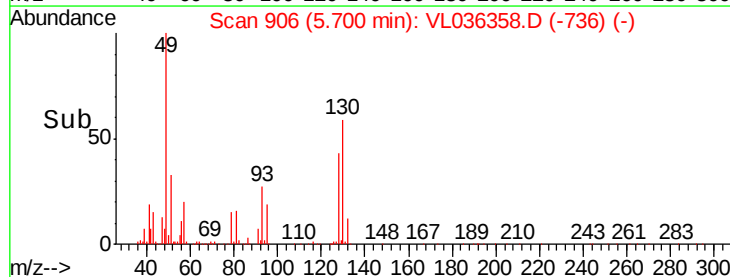
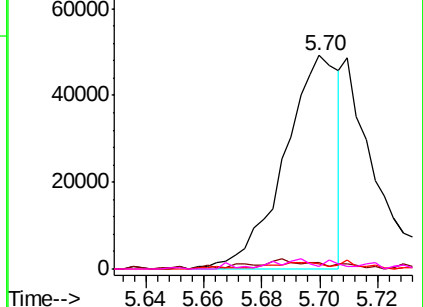


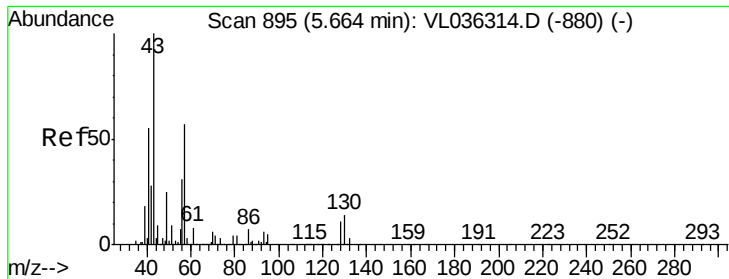
Abundance Ion 43.10 (42.80 to 43.80): VL0

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 min Scan# 906

Delta R.T. 0.04 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

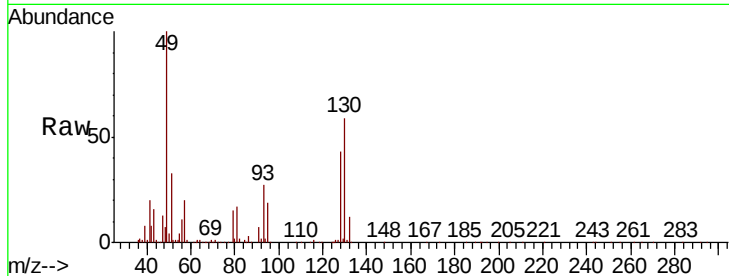
MSVOA_L

ClientSampleId :

NS-14DL

Tot Ion: 57 Resp: 117700

Ion	Ratio	Lower	Upper
57	100		
41	108.4	81.7	122.5
43	91.7	199.1	298.7#
56	60.7	44.0	66.0



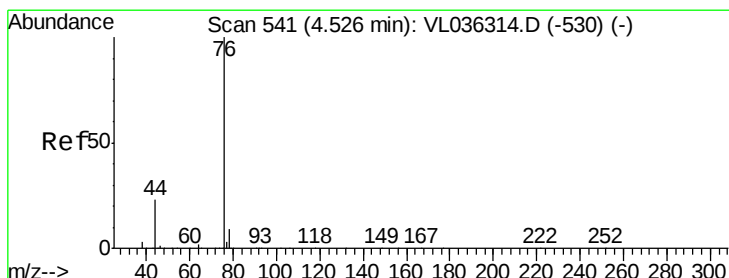
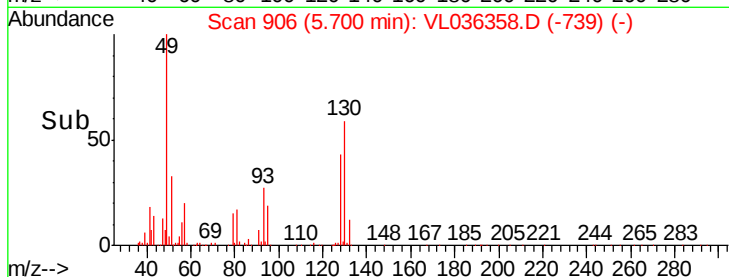
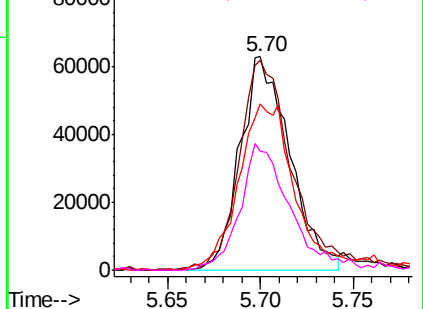
Abundance

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



#27

Carbon Disulfide

Concen: 0.031 ppbv

RT: 4.56 min Scan# 552

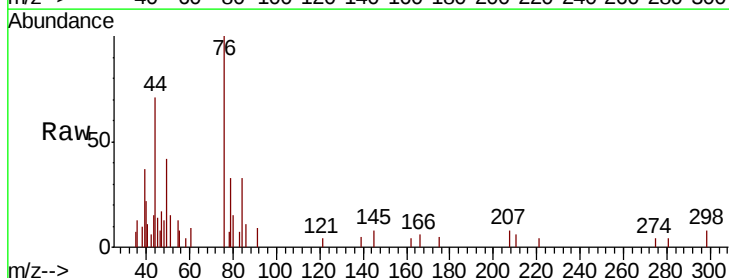
Delta R.T. 0.04 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Tgt Ion: 76 Resp: 4758

Ion	Ratio	Lower	Upper
76	100		
44	129.6	18.4	27.6#
78	0.0	8.0	12.0#

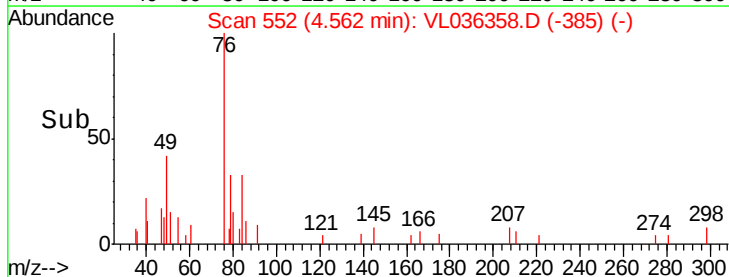
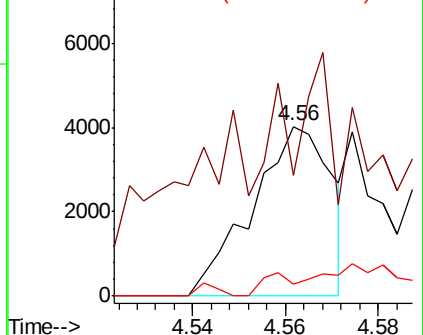


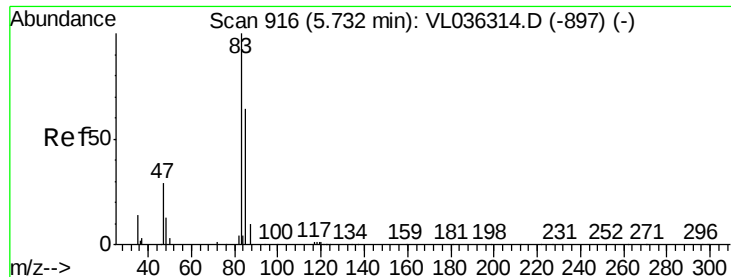
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.244 ppbv

RT: 5.76 min Scan# 925

Delta R.T. 0.03 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

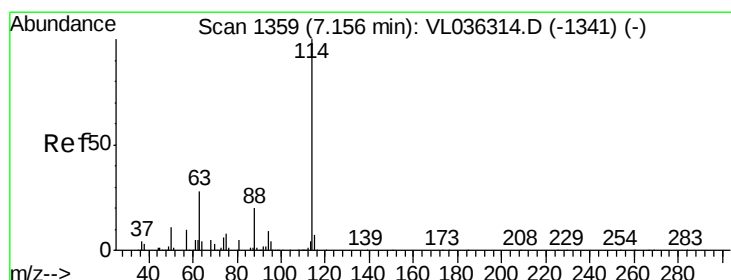
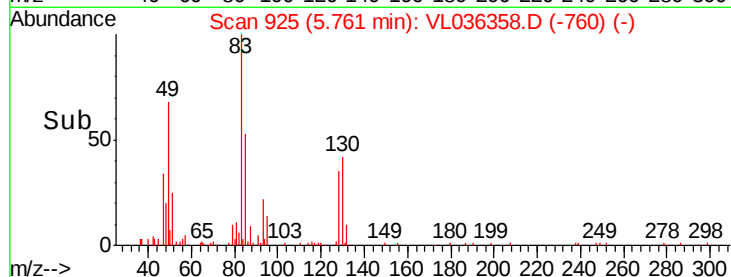
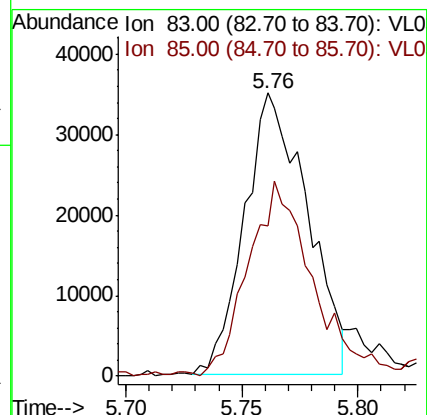
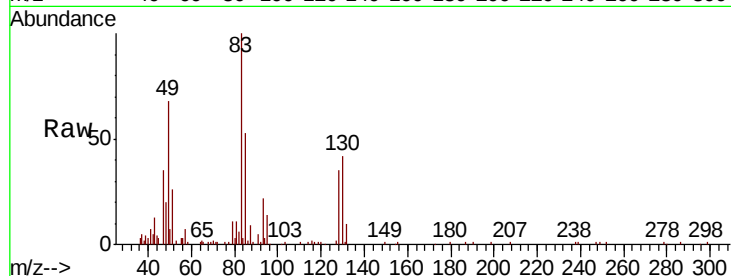
NS-14DL

Tot Ion: 83 Resp: 65748

Ion Ratio Lower Upper

83 100

85 52.5 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. 0.04 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

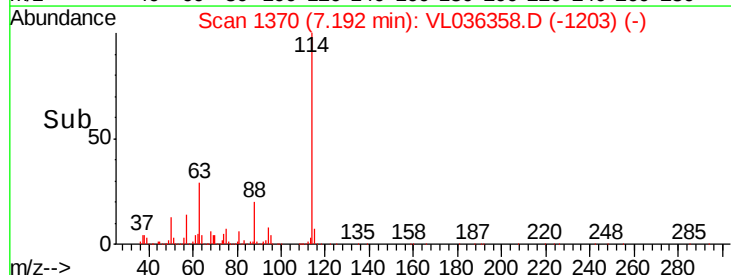
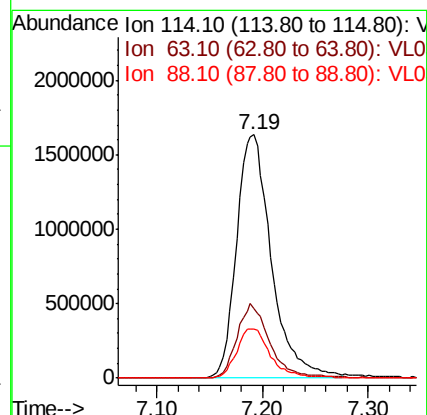
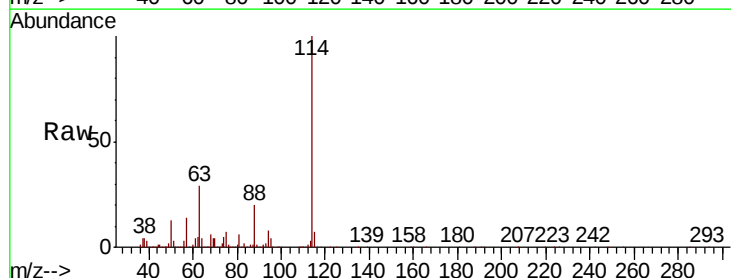
Tgt Ion: 114 Resp: 3740094

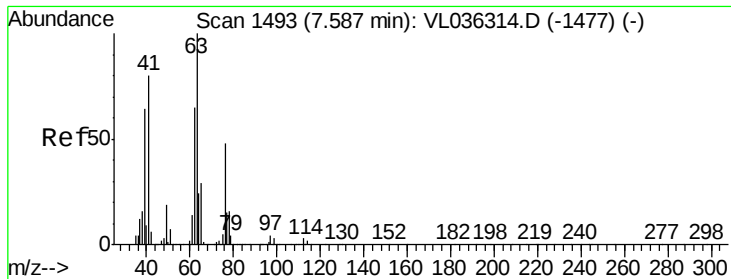
Ion Ratio Lower Upper

114 100

63 29.0 24.1 36.1

88 19.8 16.0 24.0





#39

1,2-Dichloropropane

Concen: 8.109 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.40 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

NS-14DL

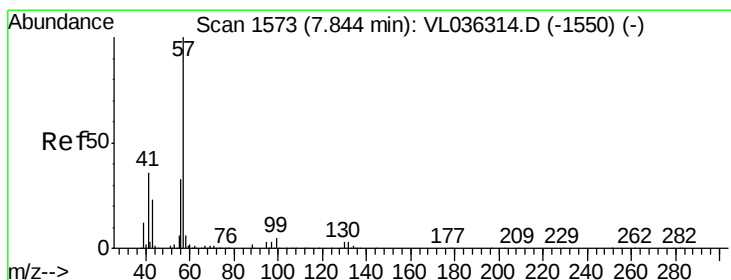
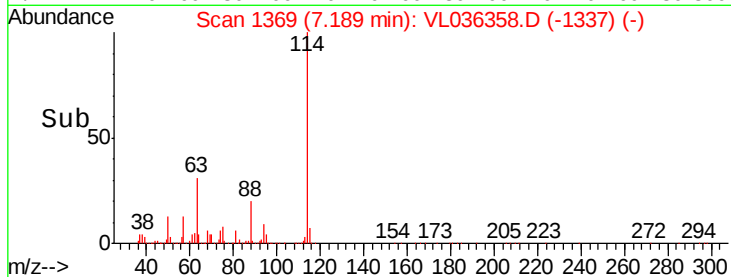
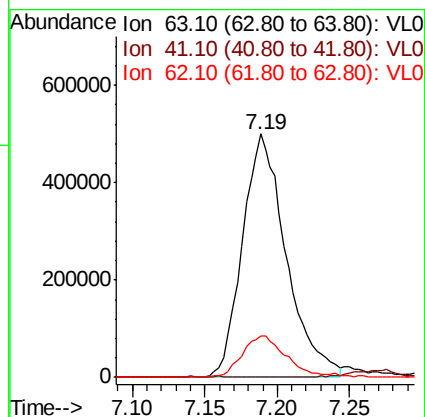
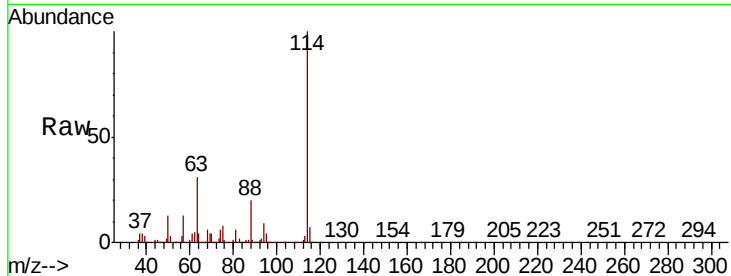
Tot Ion: 63 Resp: 1046569

Ion Ratio Lower Upper

63 100

41 0.0 63.8 95.6#

62 16.8 52.3 78.5#



#44

2,2,4-Trimethylpentane

Concen: 0.124 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.04 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

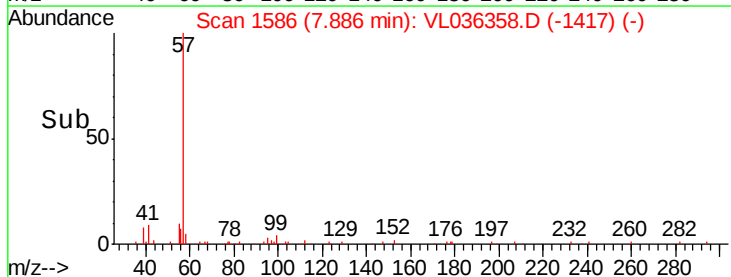
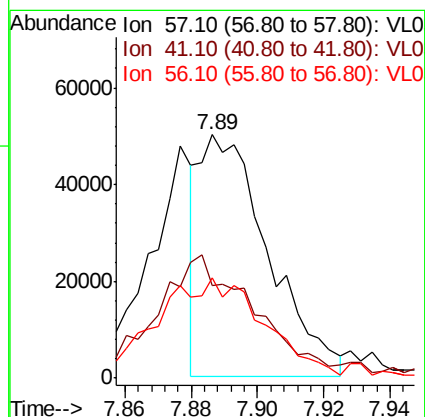
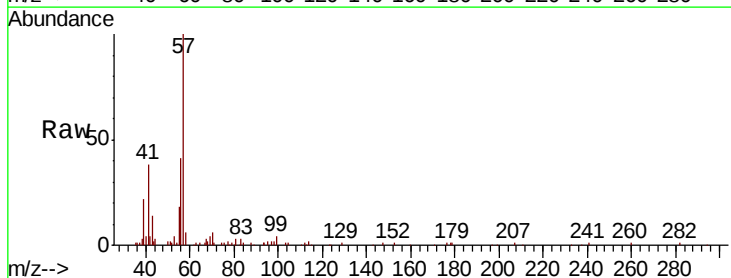
Tgt Ion: 57 Resp: 71610

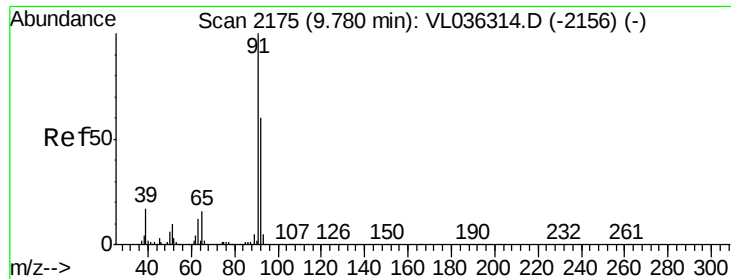
Ion Ratio Lower Upper

57 100

41 74.5 28.8 43.2#

56 70.9 25.8 38.6#





#53

Toluene

Concen: 0.621 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.05 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

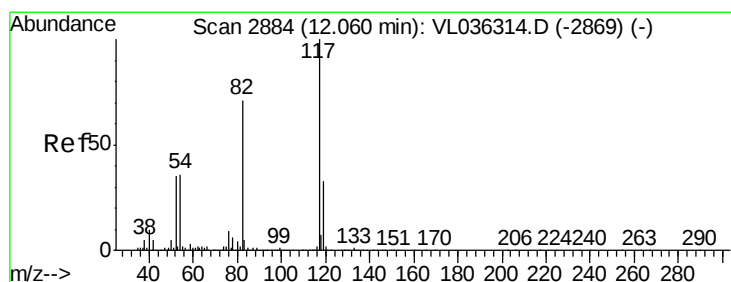
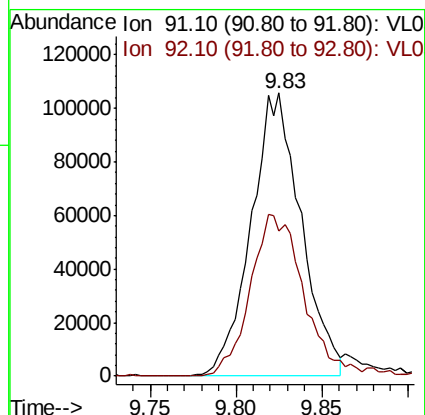
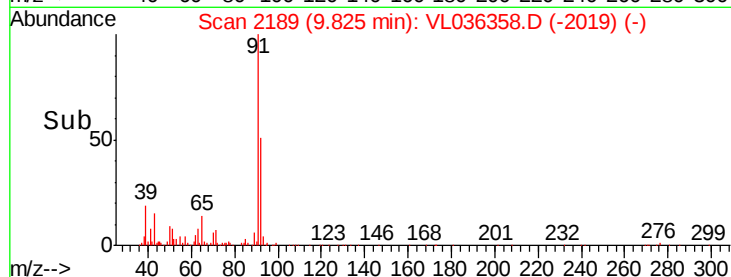
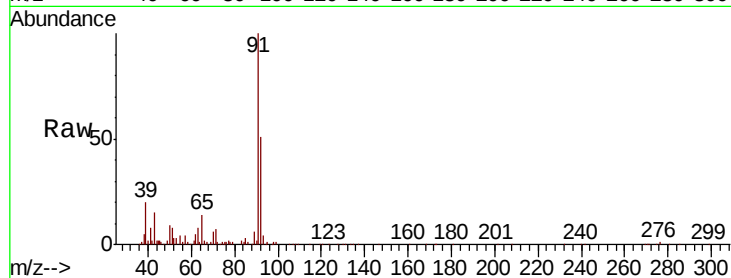
NS-14DL

Tot Ion: 91 Resp: 213795

Ion Ratio Lower Upper

91 100

92 62.0 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.04 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

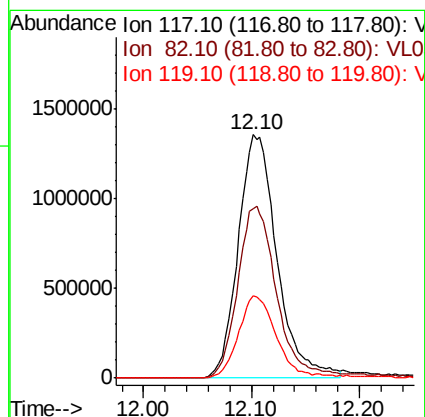
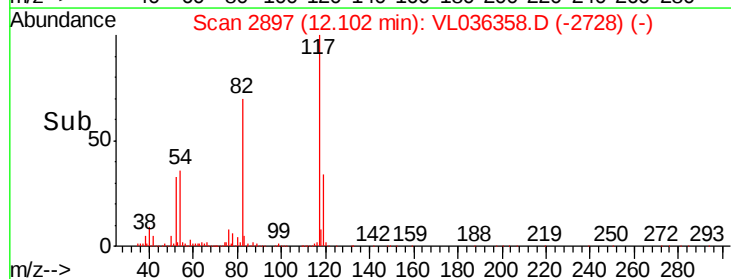
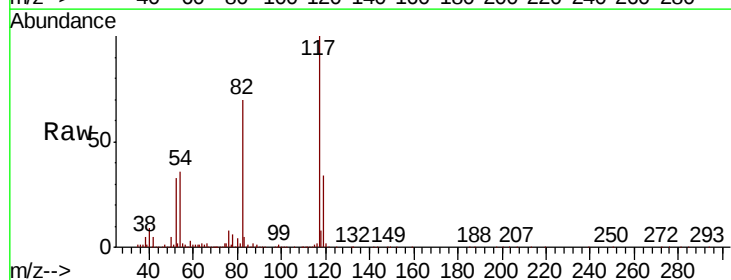
Tgt Ion: 117 Resp: 3388904

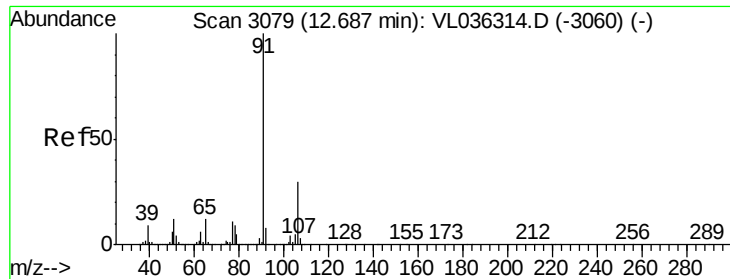
Ion Ratio Lower Upper

117 100

82 73.8 59.1 88.7

119 34.7 46.3 69.5#





#58

Ethyl Benzene

Concen: 0.060 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. 0.05 min

Lab File: VL036358.D

Acq: 24 Feb 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

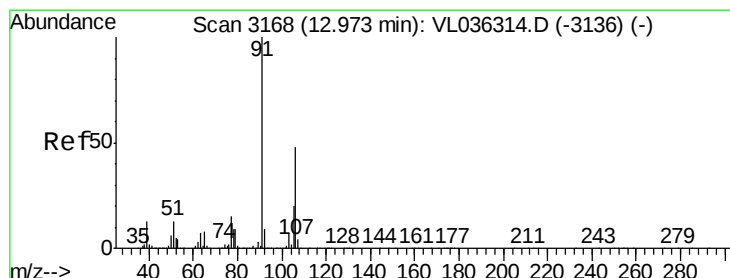
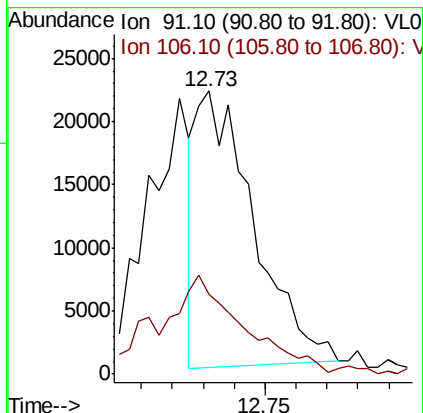
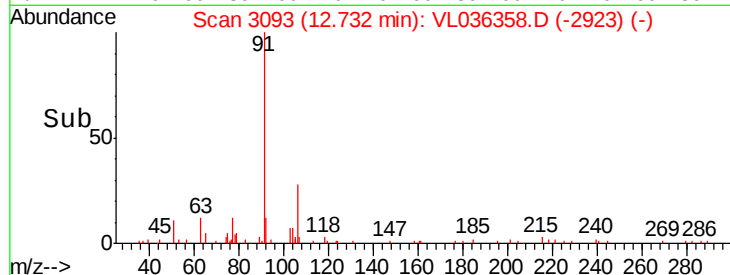
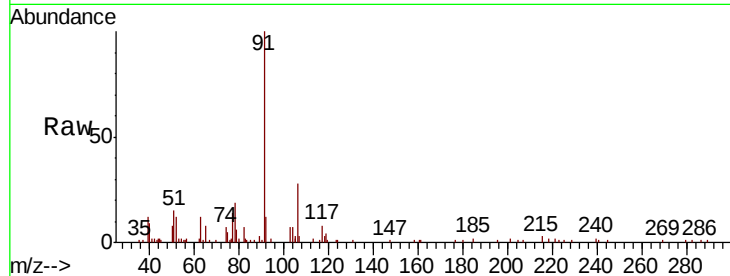
NS-14DL

Tot Ion: 91 Resp: 28074

Ion Ratio Lower Upper

91 100

106 27.8 23.8 35.6



#59

m/p-Xylene

Concen: 0.078 ppbv

RT: 13.01 min Scan# 3181

Delta R.T. 0.04 min

Lab File: VL036358.D

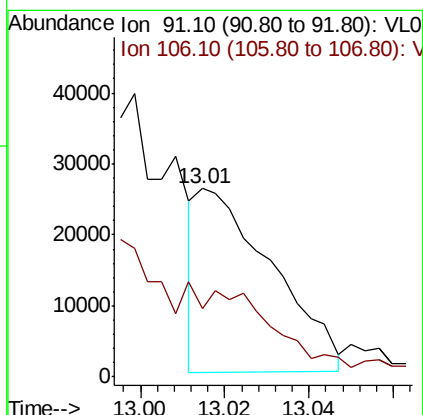
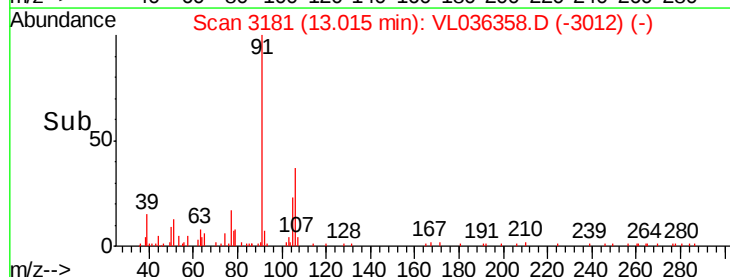
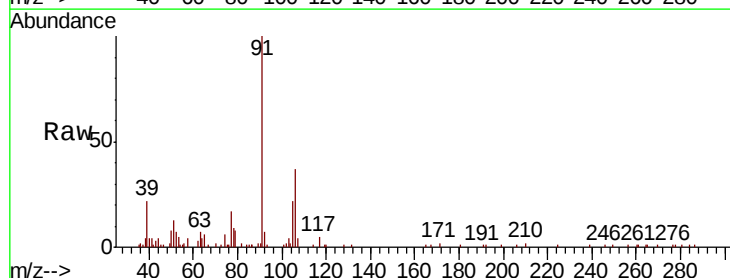
Acq: 24 Feb 2021 20:01

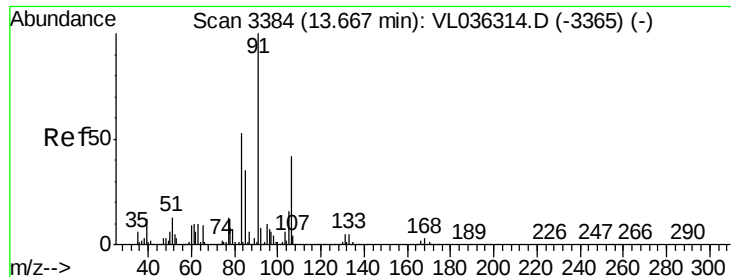
Tgt Ion: 91 Resp: 31874

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.2#

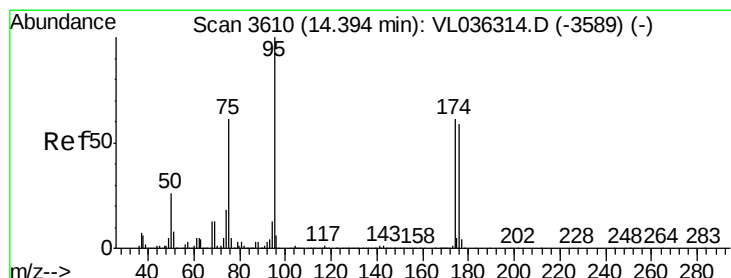
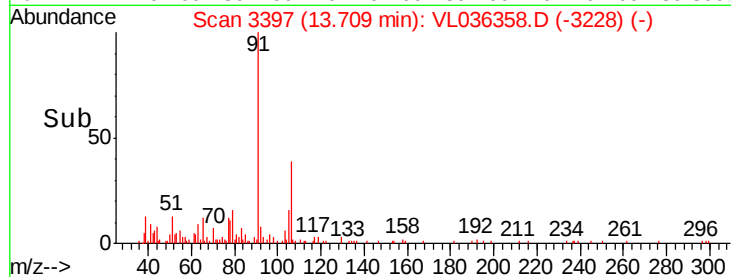
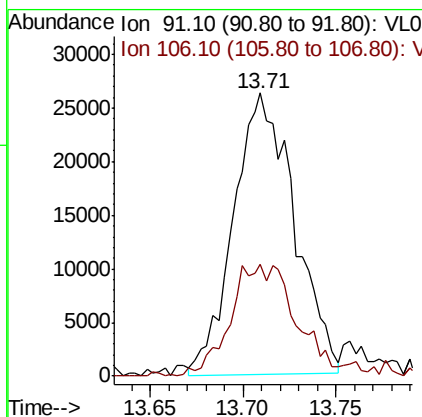
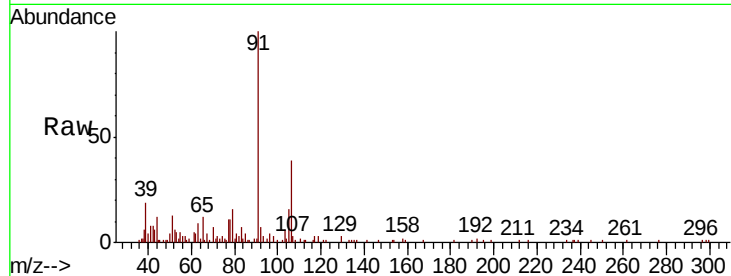




#60
o-Xylene
Concen: 0.153 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. 0.04 min
Lab File: VL036358.D
Acq: 24 Feb 2021 20:01

Instrument :
MSVOA_L
ClientSampleId :
NS-14DL

Tot Ion: 91 Resp: 59670
Ion Ratio Lower Upper
91 100
106 45.3 22.0 66.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.323 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. 0.04 min
Lab File: VL036358.D
Acq: 24 Feb 2021 20:01

Tgt Ion: 95 Resp: 2599460
Ion Ratio Lower Upper
95 100
174 67.9 49.8 74.6
175 5.0 3.7 5.5

