

Data File : VL034594.D
Acq On : 5 Feb 2020 00:29
Operator : SY/AP
Sample : L1359-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

Quant Time: Feb 05 05:46:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1016227	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2058734	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2092855	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.46 95 1805214 10.21 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.10%

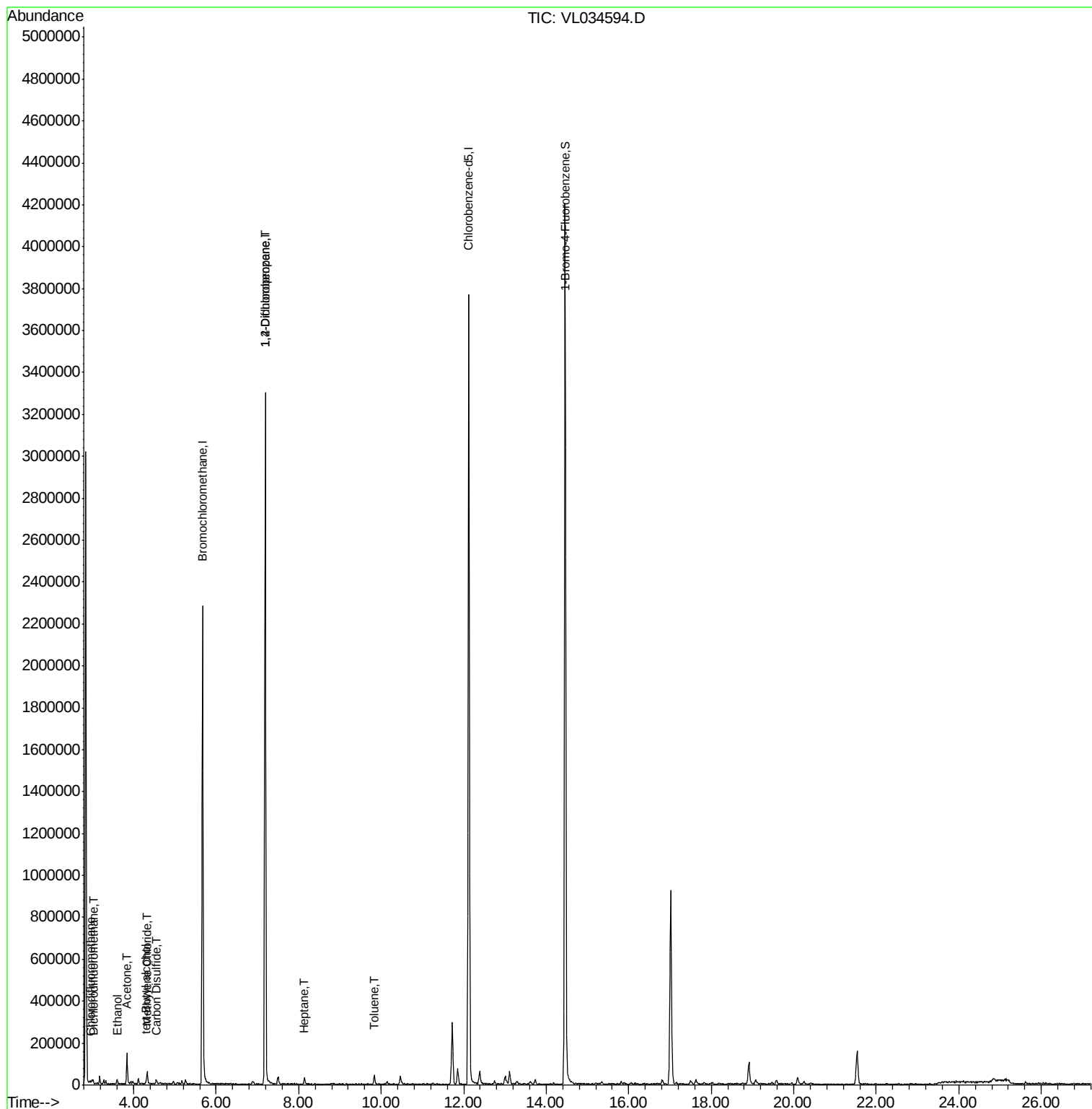
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	11256	0.050	ppbv	91
3) Chlorodifluoromethane	2.95	51	11572	0.094	ppbv #	83
10) Heptane	8.13	43	3783	0.031	ppbv #	1
13) Ethanol	3.59	45	10663	0.833	ppbv #	38
15) Acetone	3.83	43	146999	0.984	ppbv	97
17) tert-Butyl alcohol	4.30	59	3594	0.033	ppbv #	71
20) Methylene Chloride	4.33	84	5980	0.105	ppbv	83
27) Carbon Disulfide	4.54	76	4779	0.035	ppbv #	55
39) 1,2-Dichloropropane	7.19	63	606673	7.993	ppbv #	20
53) Toluene	9.83	91	29050	0.144	ppbv	96

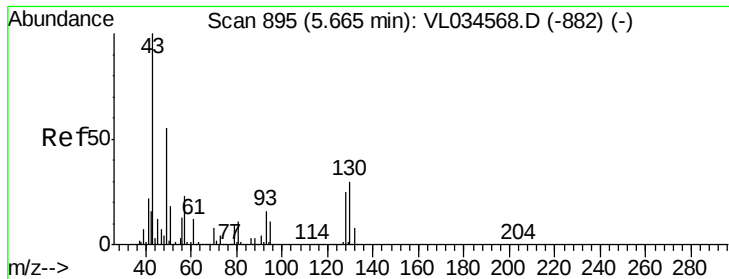
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL034594.D

Acq: 5 Feb 2020 00:29

Instrument :

MSVOA_L

ClientSampled :

SG-1DL

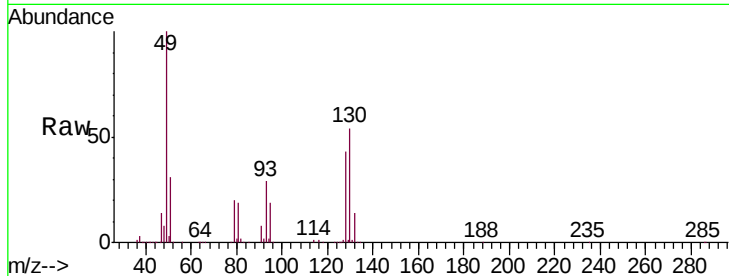
Tgt Ion: 49 Resp: 1016227

Ion Ratio Lower Upper

49 100

128 45.8 22.7 68.1

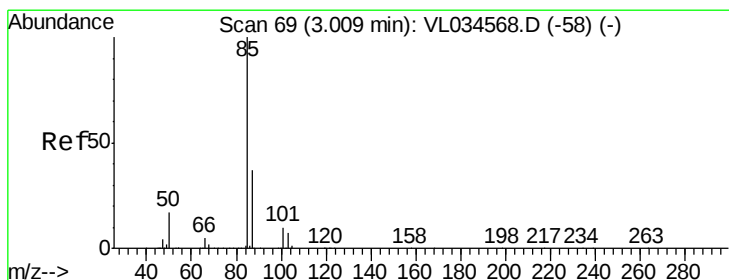
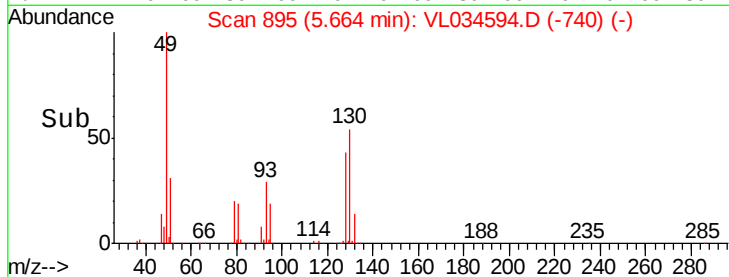
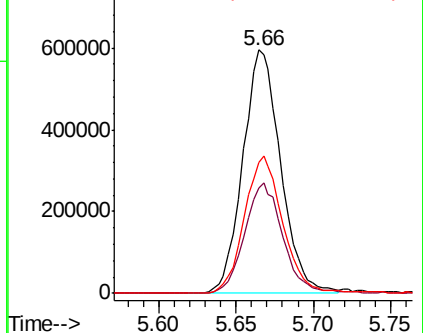
130 57.5 28.6 85.8



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: 0.050 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL034594.D

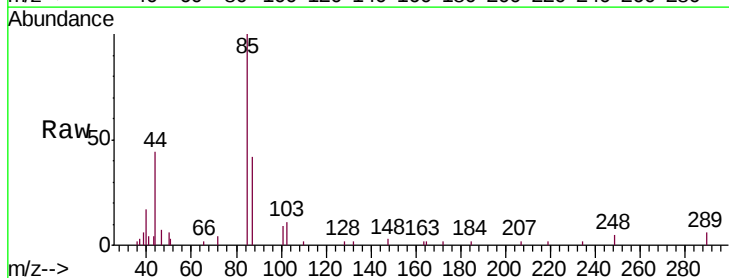
Acq: 5 Feb 2020 00:29

Tgt Ion: 85 Resp: 11256

Ion Ratio Lower Upper

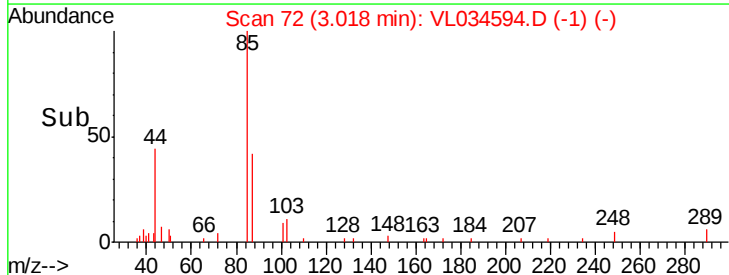
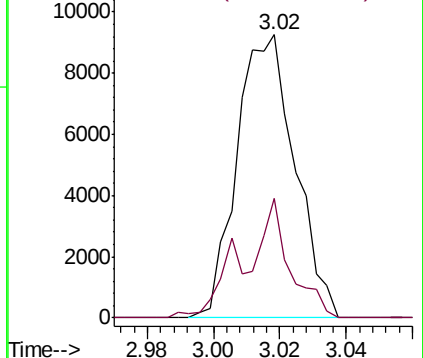
85 100

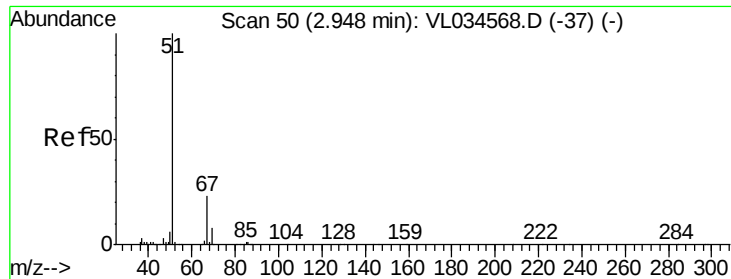
87 42.0 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

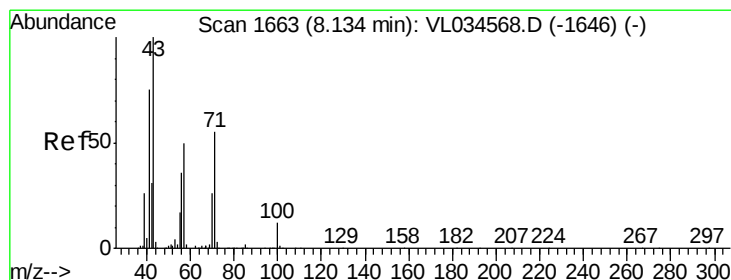
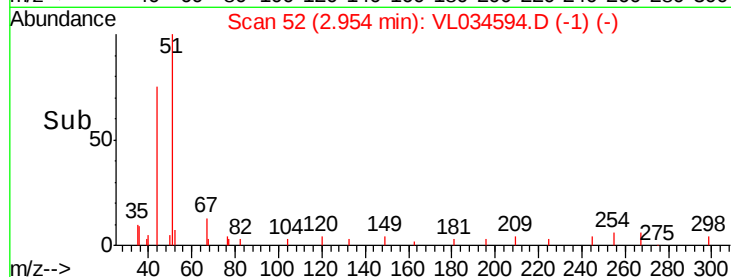
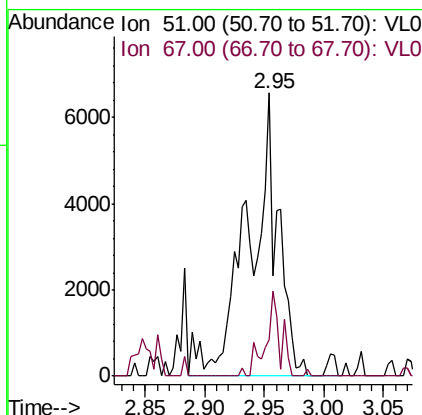
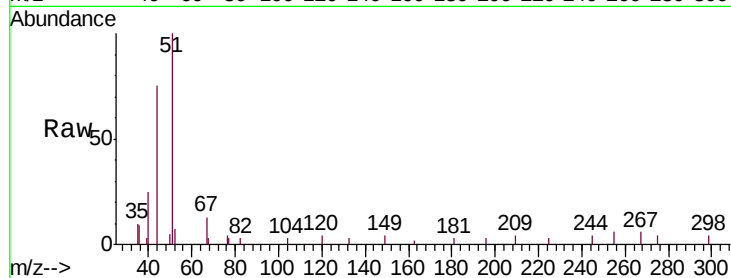




#3
 Chlorodifluoromethane
 Concen: 0.094 ppbv
 RT: 2.95 min Scan# 52
 Delta R.T. 0.01 min
 Lab File: VL034594.D
 Acq: 5 Feb 2020 00:29

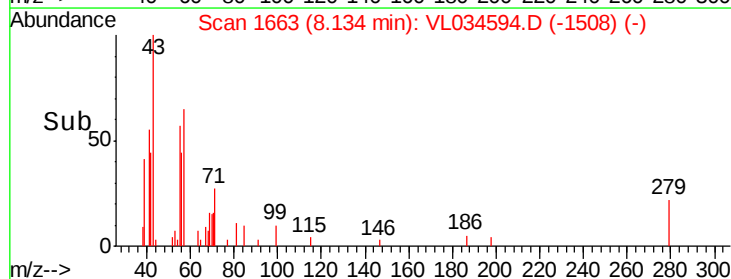
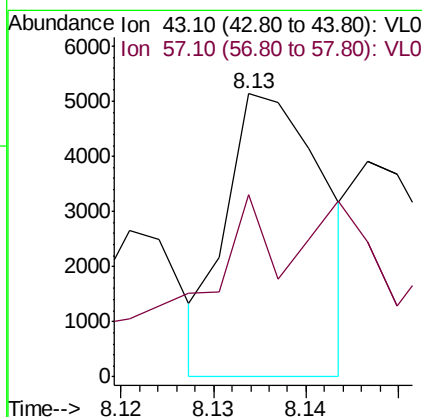
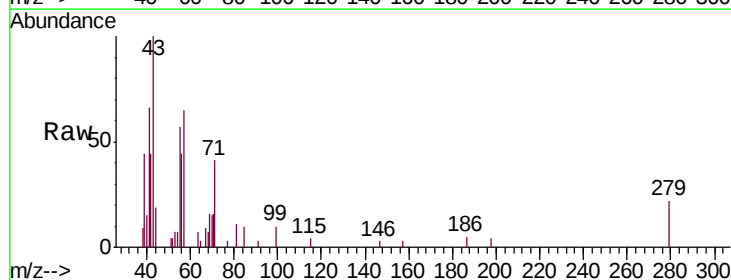
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

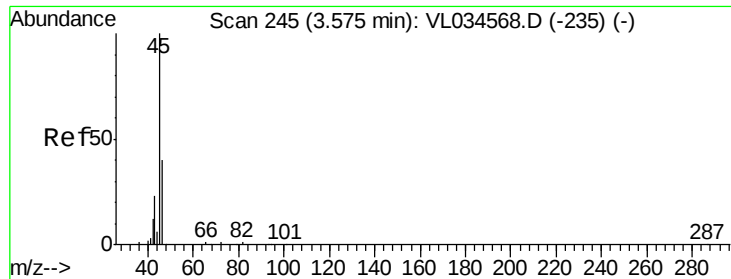
Tgt Ion: 51 Resp: 11572
 Ion Ratio Lower Upper
 51 100
 67 14.4 17.8 26.8#



#10
 Heptane
 Concen: 0.031 ppbv
 RT: 8.13 min Scan# 1663
 Delta R.T. -0.00 min
 Lab File: VL034594.D
 Acq: 5 Feb 2020 00:29

Tgt Ion: 43 Resp: 3783
 Ion Ratio Lower Upper
 43 100
 57 143.8 41.2 61.8#

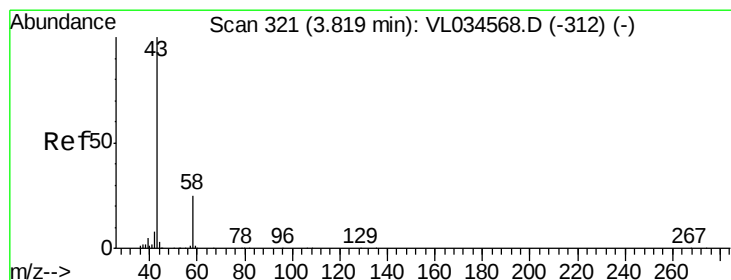
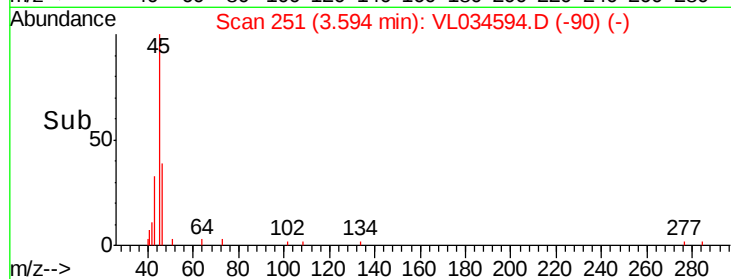
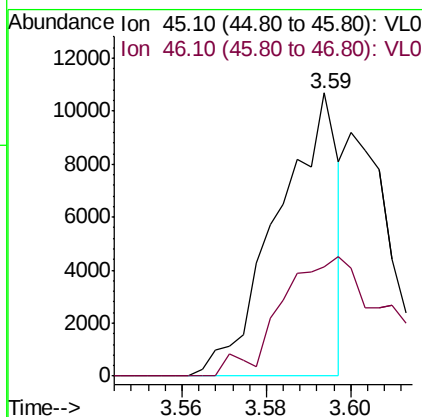
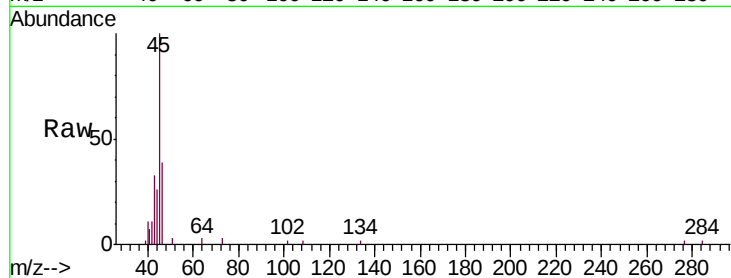




#13
Ethanol
Concen: 0.833 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.02 min
Lab File: VL034594.D
Acq: 5 Feb 2020 00:29

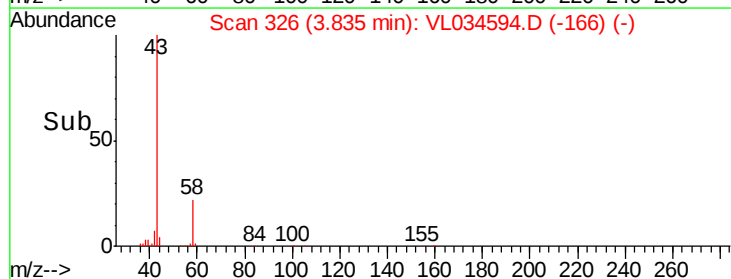
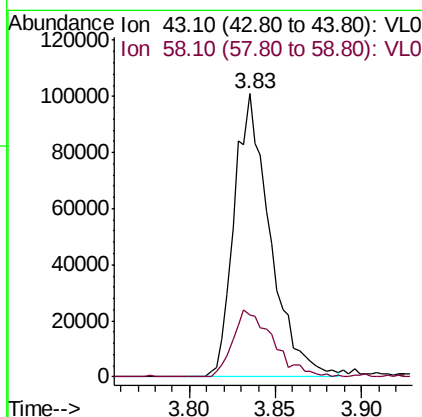
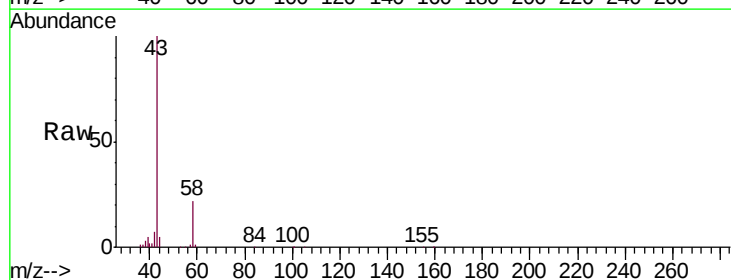
Instrument :
MSVOA_L
ClientSampled :
SG-1DL

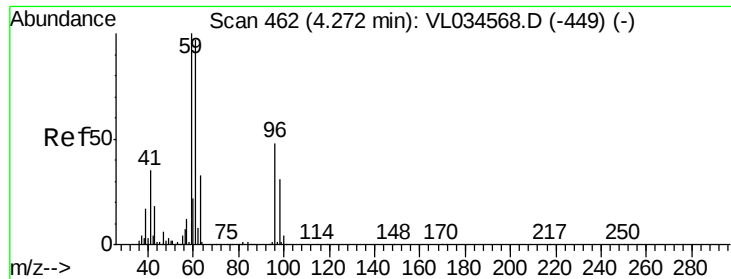
Tgt Ion: 45 Resp: 10663
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.2#



#15
Acetone
Concen: 0.984 ppbv
RT: 3.83 min Scan# 326
Delta R.T. 0.02 min
Lab File: VL034594.D
Acq: 5 Feb 2020 00:29

Tgt Ion: 43 Resp: 146999
Ion Ratio Lower Upper
43 100
58 26.9 20.3 30.5





#17

tert-Butyl alcohol

Concen: 0.033 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.03 min

Lab File: VL034594.D

Acq: 5 Feb 2020 00:29

Instrument :

MSVOA_L

ClientSampleId :

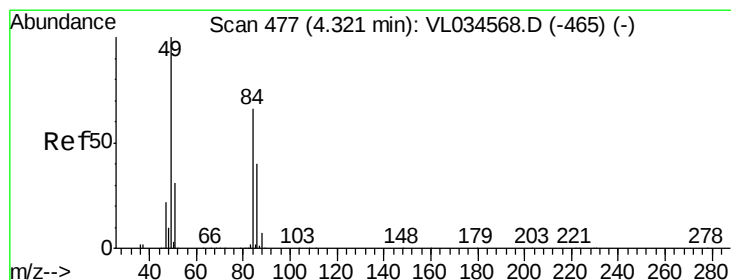
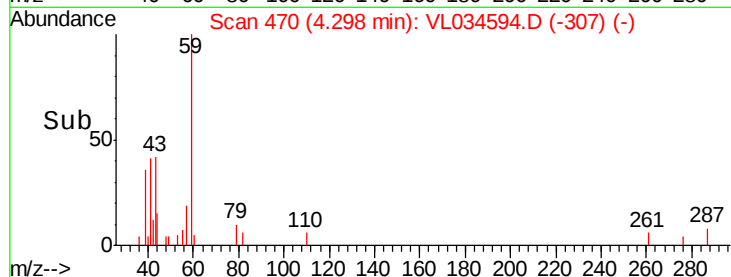
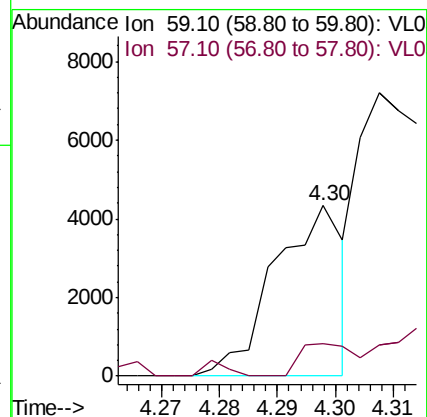
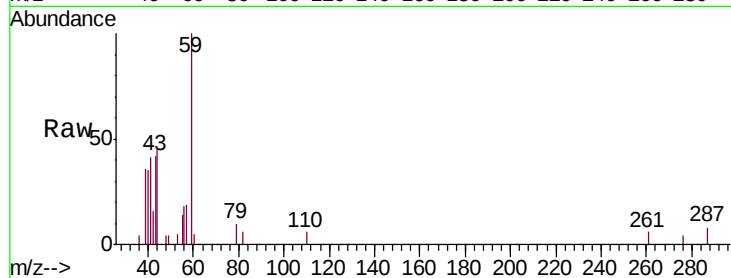
SG-1DL

Tgt Ion: 59 Resp: 3594

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#20

Methylene Chloride

Concen: 0.105 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.01 min

Lab File: VL034594.D

Acq: 5 Feb 2020 00:29

Tgt Ion: 84 Resp: 5980

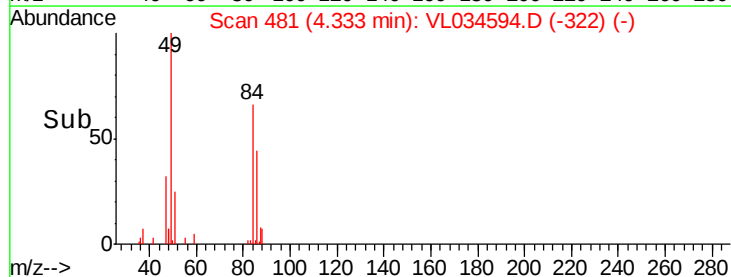
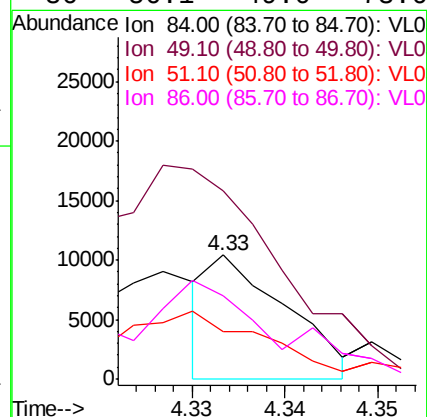
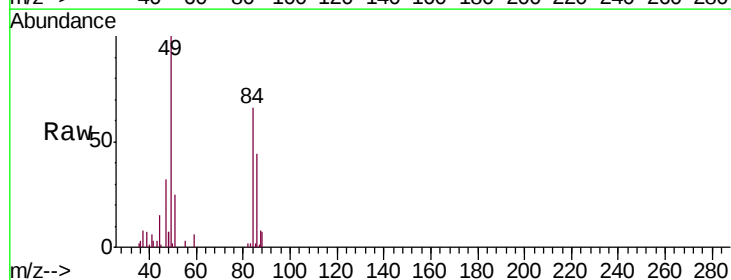
Ion Ratio Lower Upper

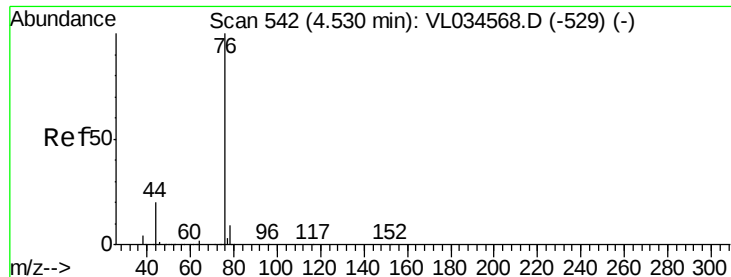
84 100

49 124.3 122.4 183.6

51 38.7 38.6 57.8

86 56.1 49.0 73.6





#27

Carbon Disulfide

Concen: 0.035 ppbv

RT: 4.54 min Scan# 545

Delta R.T. 0.01 min

Lab File: VL034594.D

Acq: 5 Feb 2020 00:29

Instrument :

MSVOA_L

ClientSampled :

SG-1DL

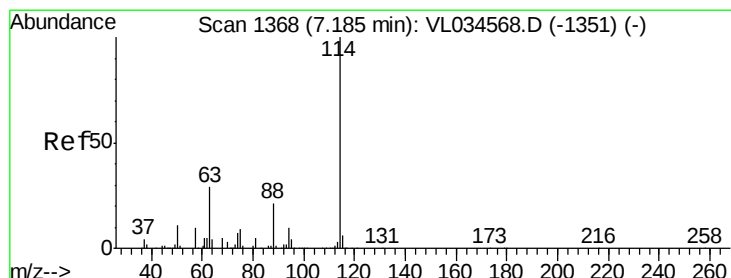
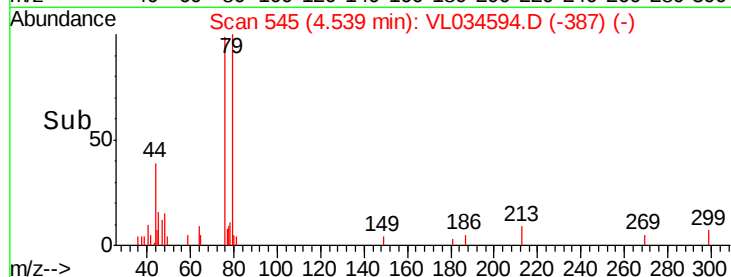
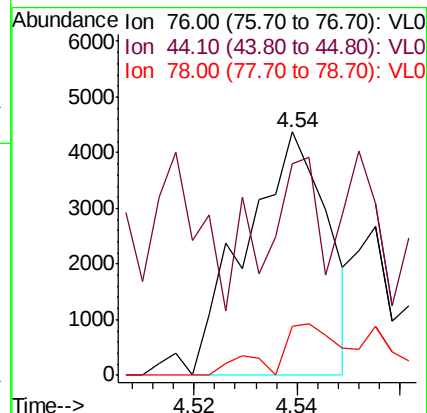
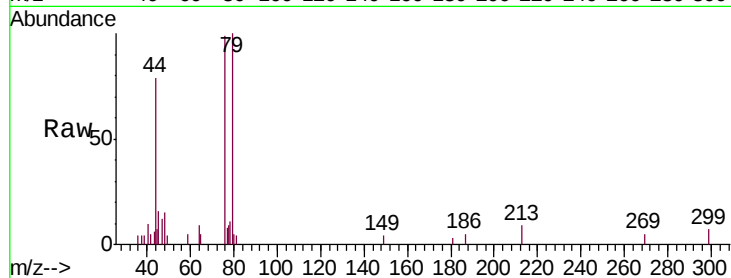
Tgt Ion: 76 Resp: 4779

Ion Ratio Lower Upper

76 100

44 0.0 16.3 24.5#

78 26.6 7.4 11.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VL034594.D

Acq: 5 Feb 2020 00:29

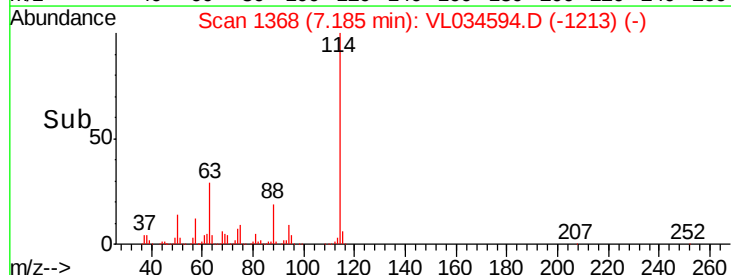
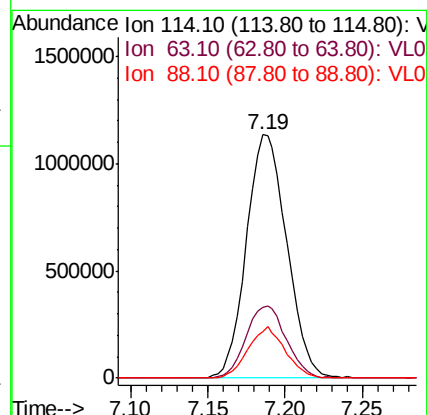
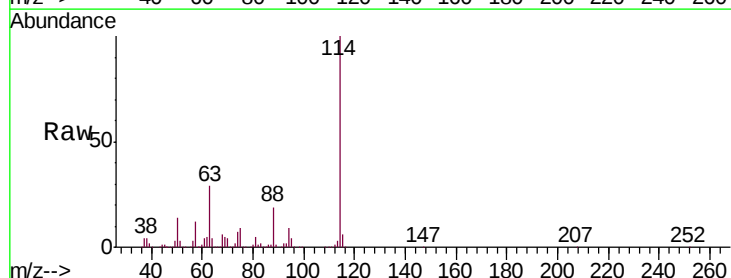
Tgt Ion: 114 Resp: 2058734

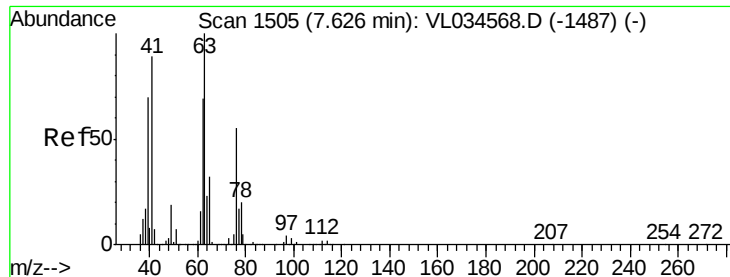
Ion Ratio Lower Upper

114 100

63 29.7 24.1 36.1

88 19.4 15.9 23.9





#39

1,2-Dichloropropane

Concen: 7.993 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.44 min

Lab File: VL034594.D

Acq: 5 Feb 2020 00:29

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

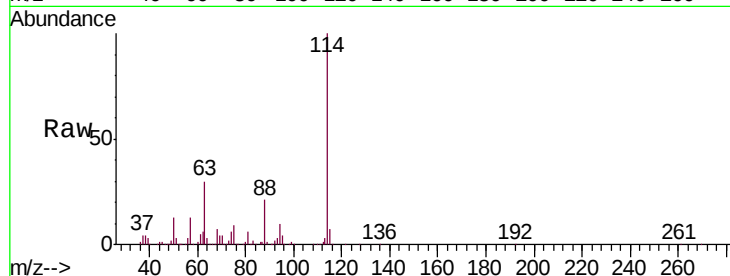
Tgt Ion: 63 Resp: 606673

Ion Ratio Lower Upper

63 100

41 0.0 71.0 106.4#

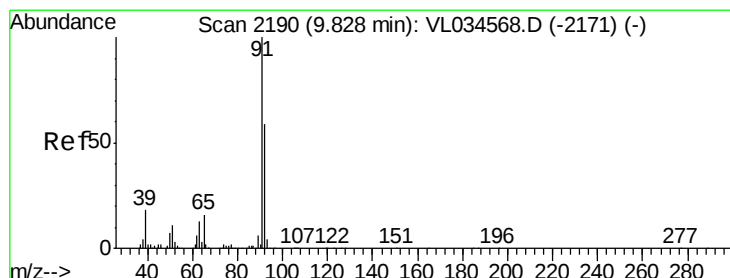
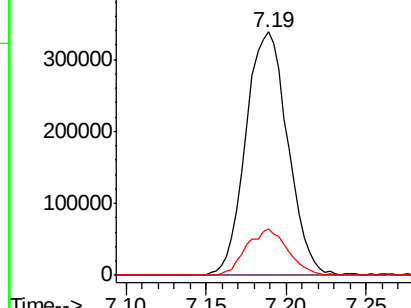
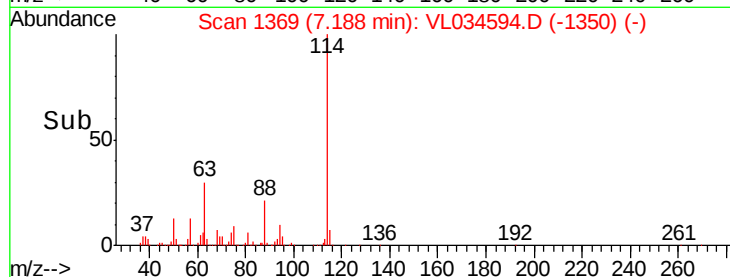
62 19.0 55.4 83.0#



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: 0.144 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.01 min

Lab File: VL034594.D

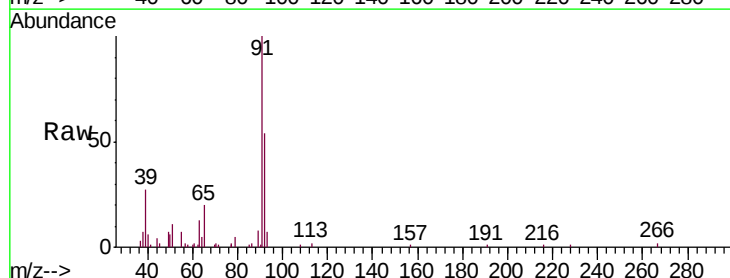
Acq: 5 Feb 2020 00:29

Tgt Ion: 91 Resp: 29050

Ion Ratio Lower Upper

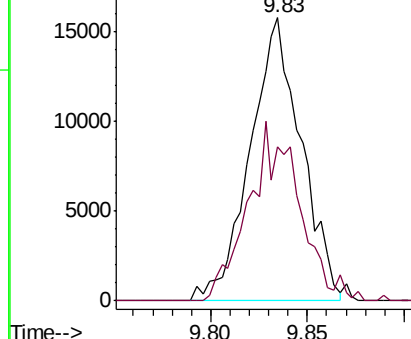
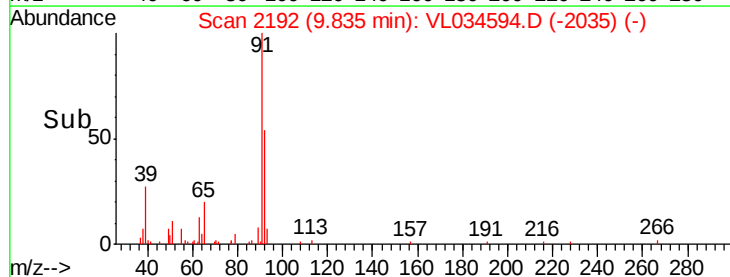
91 100

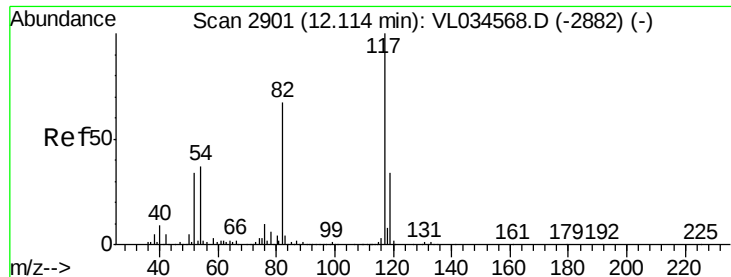
92 63.1 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

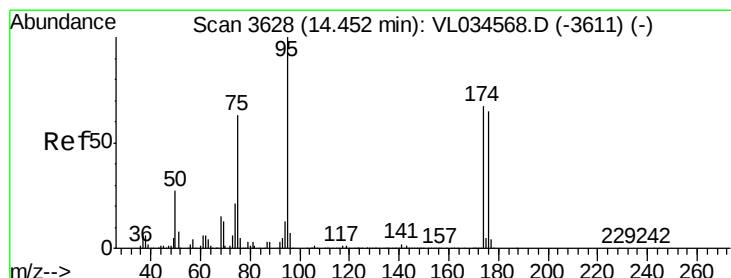
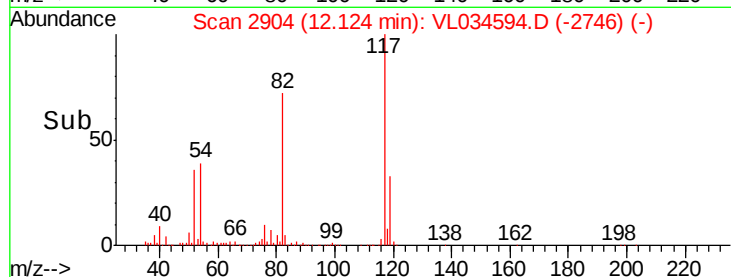
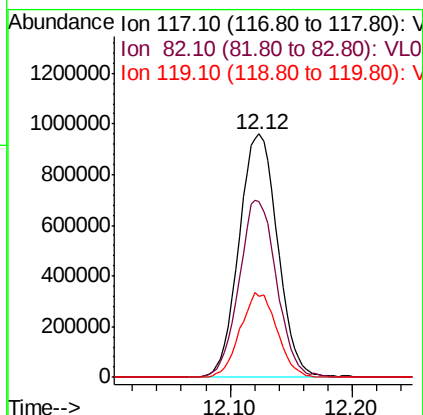
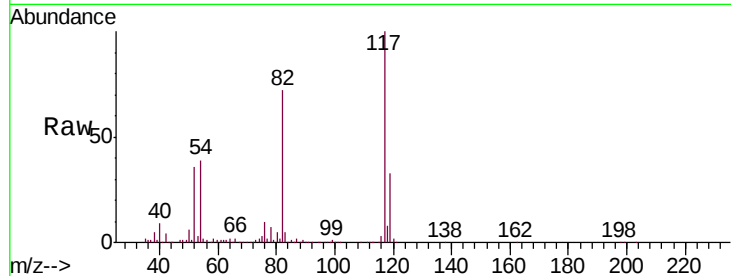




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.01 min
Lab File: VL034594.D
Acq: 5 Feb 2020 00:29

Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

Tgt Ion: 117 Resp: 2092855
Ion Ratio Lower Upper
117 100
82 71.4 54.2 81.4
119 33.3 26.1 39.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.206 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. 0.00 min
Lab File: VL034594.D
Acq: 5 Feb 2020 00:29

Tgt Ion: 95 Resp: 1805214
Ion Ratio Lower Upper
95 100
174 63.7 52.3 78.5
175 4.6 3.8 5.6

