

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034902.D
 Acq On : 16 Mar 2020 22:42
 Operator : SY/AP
 Sample : L1924-05DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01DL

Quant Time: Mar 17 04:28:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	845114	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1814154	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1748549	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1419824	10.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

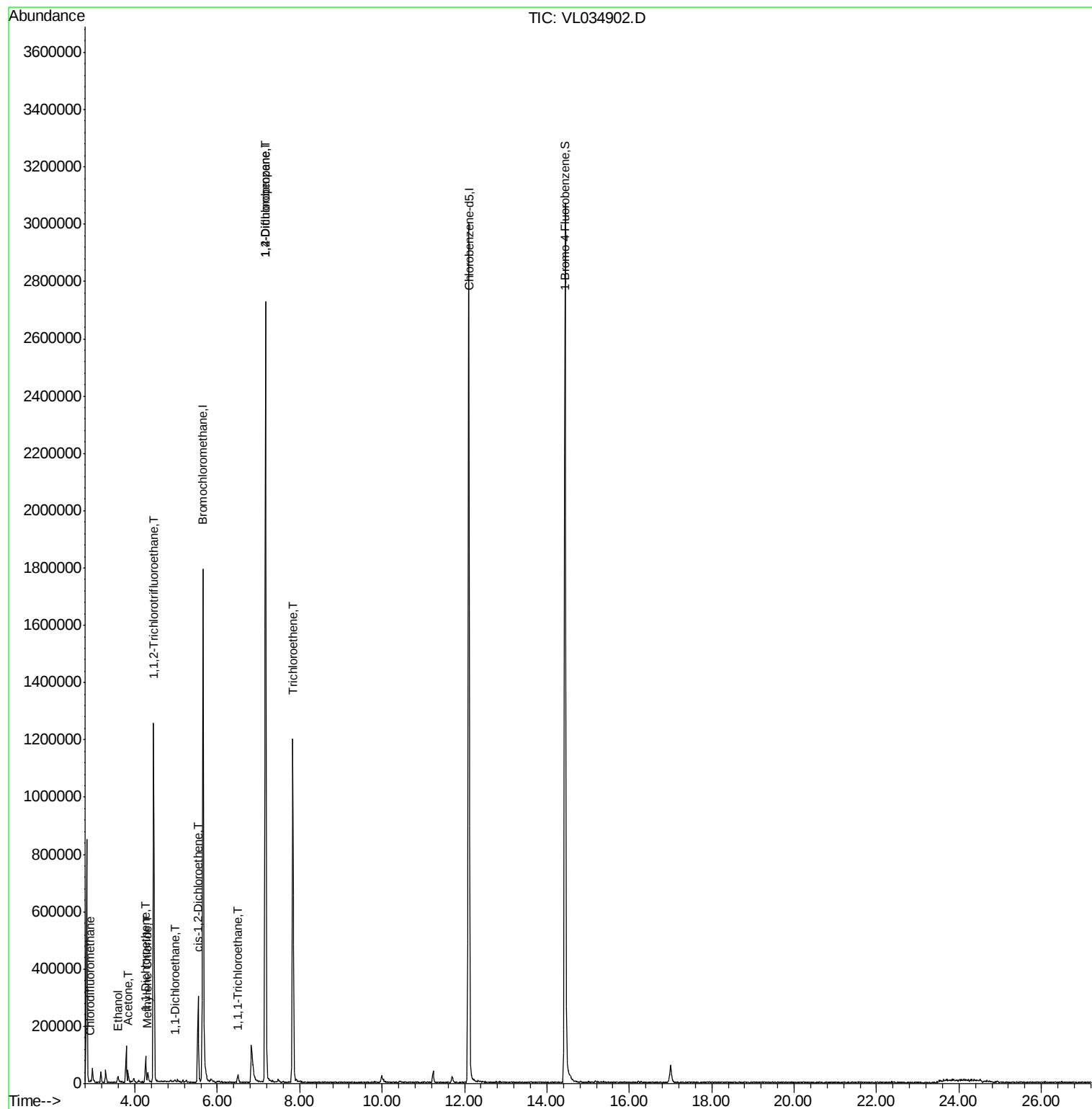
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.92	51	3867	0.041	ppbv #	59
12) 1,1,2-Trichlorotrifluoroet	4.46	101	427078	4.956	ppbv	94
13) Ethanol	3.59	45	14635	1.068	ppbv	91
15) Acetone	3.83	43	38156	0.348	ppbv	97
18) 1,1-Dichloroethene	4.26	96	23930	0.627	ppbv	91
20) Methylene Chloride	4.31	84	7656	0.221	ppbv	89
24) 1,1-Dichloroethane	4.98	63	3269	0.030	ppbv #	90
31) cis-1,2-Dichloroethene	5.53	61	156679	1.823	ppbv	94
32) 1,1,1-Trichloroethane	6.49	97	7250	0.058	ppbv #	11
38) Trichloroethene	7.83	130	339793	5.533	ppbv	95
39) 1,2-Dichloropropane	7.17	63	493383	7.701	ppbv #	25

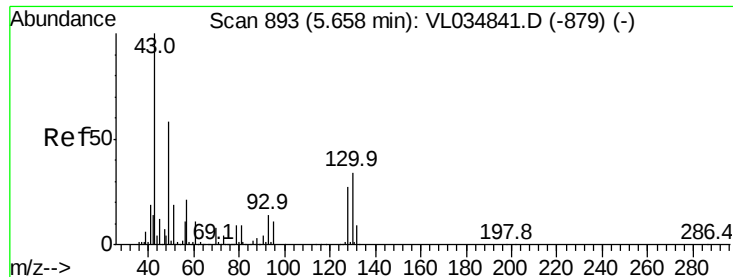
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 17 04:28:26 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
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QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL034902.D

Acq: 16 Mar 2020 22:42

Instrument :

MSVOA_L

ClientSampleId :

SV-01DL

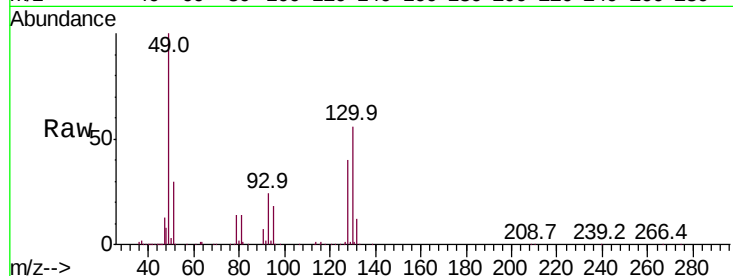
Tot Ion: 49 Resp: 845114

Ion Ratio Lower Upper

49 100

128 44.7 23.4 70.3

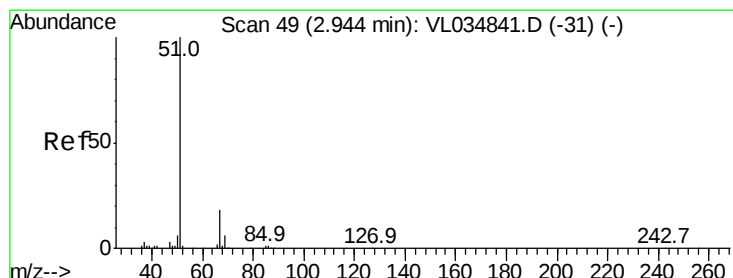
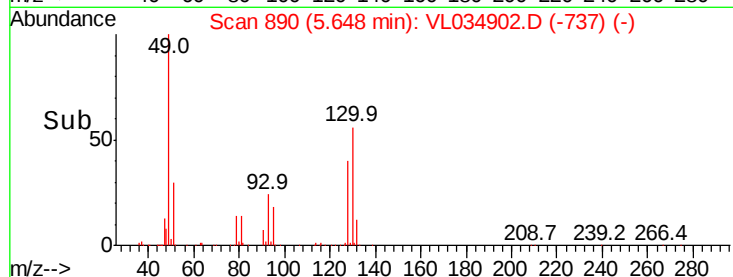
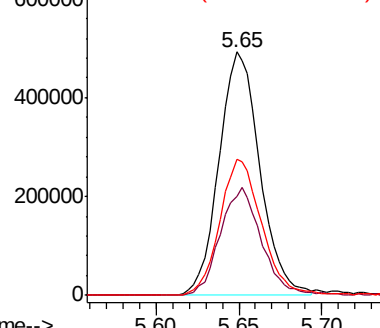
130 57.3 30.0 90.0



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



#3

Chlorodifluoromethane

Concen: 0.041 ppbv

RT: 2.92 min Scan# 40

Delta R.T. -0.03 min

Lab File: VL034902.D

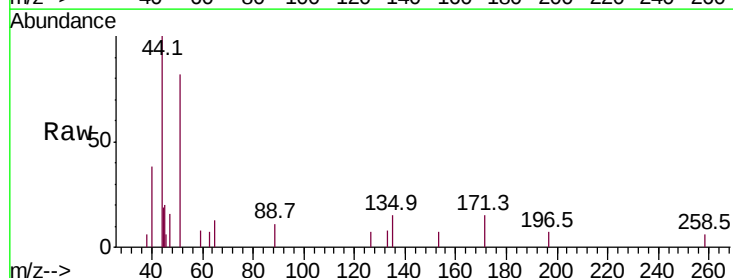
Acq: 16 Mar 2020 22:42

Tgt Ion: 51 Resp: 3867

Ion Ratio Lower Upper

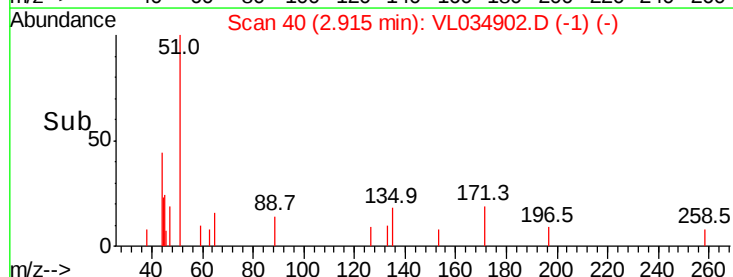
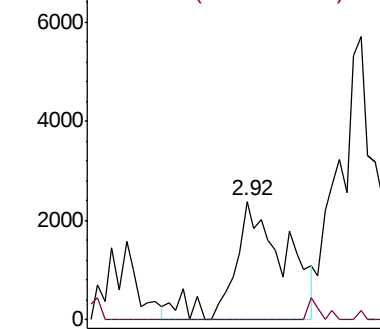
51 100

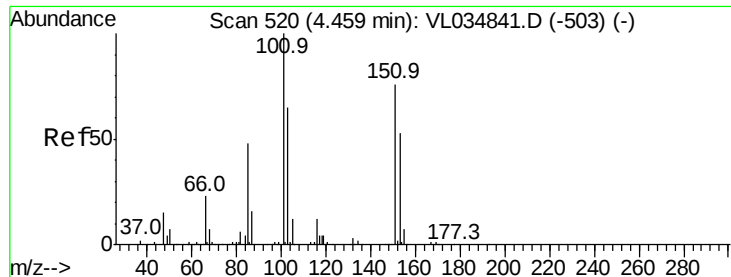
67 0.0 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 4.956 ppbv

RT: 4.46 min Scan# 519

Delta R.T. -0.00 min

Lab File: VL034902.D

Acq: 16 Mar 2020 22:42

Instrument :

MSVOA_L

ClientSampleId :

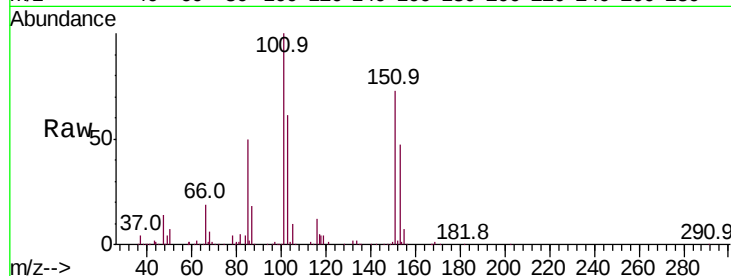
SV-01DL

Tot Ion:101 Resp: 427078

Ion Ratio Lower Upper

101 100

151 71.1 60.8 91.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

300000

250000

200000

150000

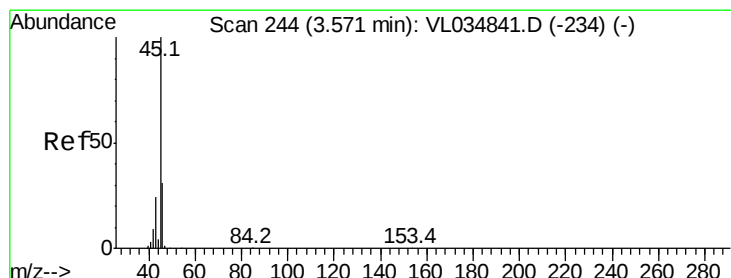
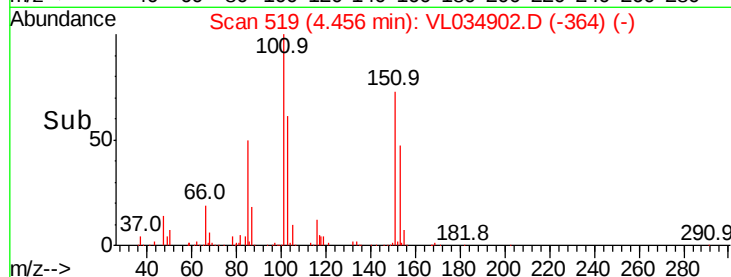
100000

50000

0

4.40 4.45 4.50

Time-->



#13

Ethanol

Concen: 1.068 ppbv

RT: 3.59 min Scan# 249

Delta R.T. 0.02 min

Lab File: VL034902.D

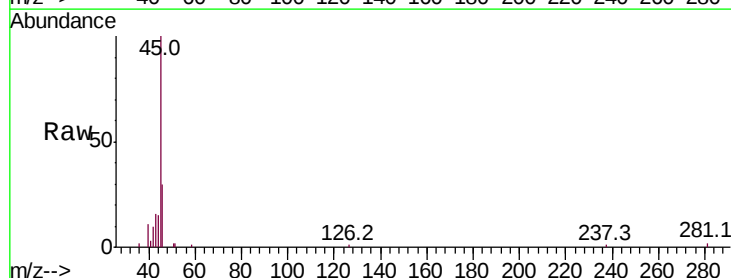
Acq: 16 Mar 2020 22:42

Tgt Ion: 45 Resp: 14635

Ion Ratio Lower Upper

45 100

46 45.5 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

15000

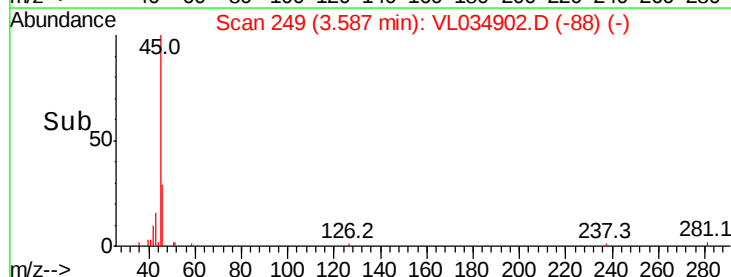
10000

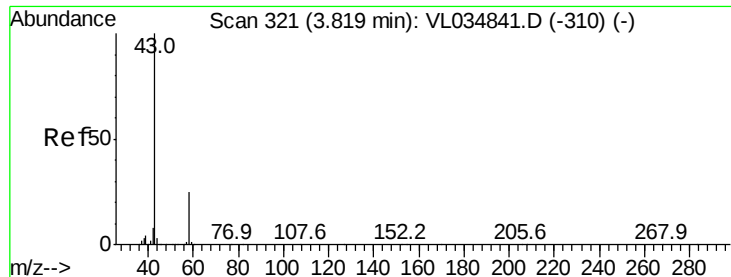
5000

0

3.54 3.56 3.58 3.60

Time-->





#15

Acetone

Concen: 0.348 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034902.D

Acq: 16 Mar 2020 22:42

Instrument :

MSVOA_L

ClientSampleId :

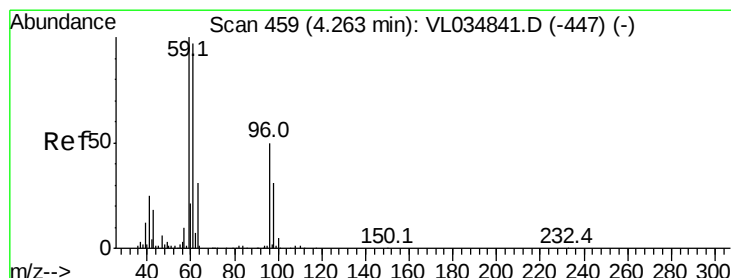
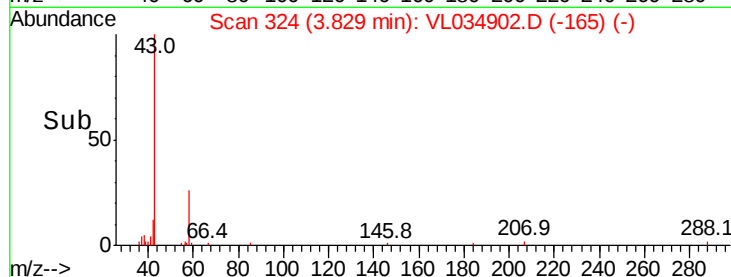
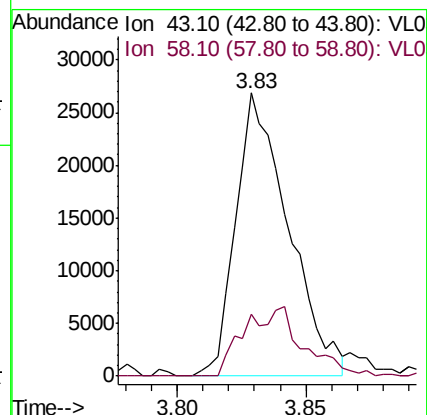
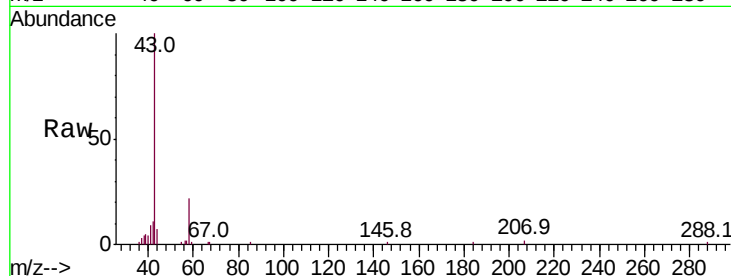
SV-01DL

Tot Ion: 43 Resp: 38156

Ion Ratio Lower Upper

43 100

58 27.8 21.0 31.6



#18

1,1-Dichloroethene

Concen: 0.627 ppbv

RT: 4.26 min Scan# 457

Delta R.T. -0.01 min

Lab File: VL034902.D

Acq: 16 Mar 2020 22:42

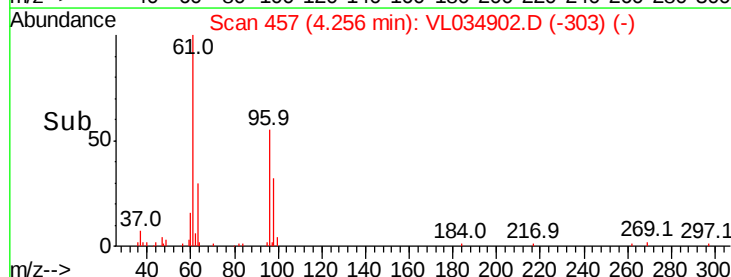
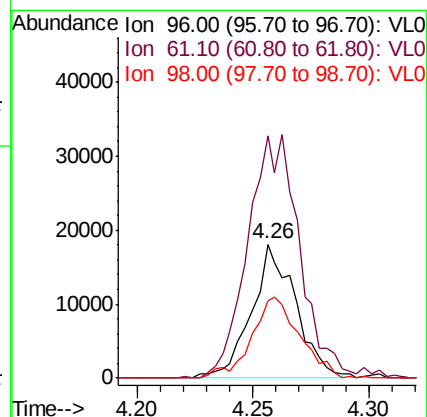
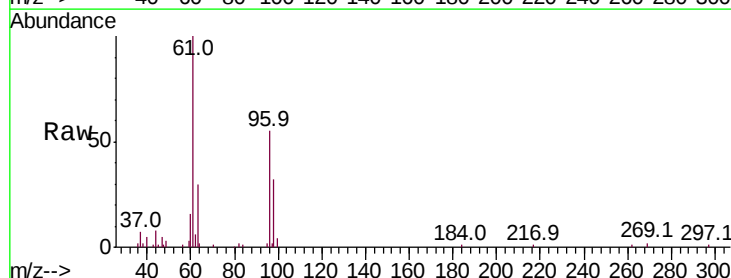
Tgt Ion: 96 Resp: 23930

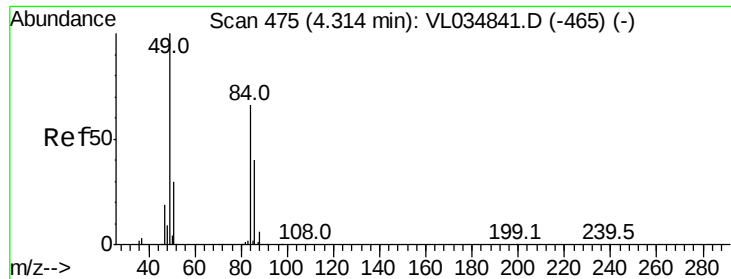
Ion Ratio Lower Upper

96 100

61 181.0 157.3 235.9

98 57.7 50.2 75.4

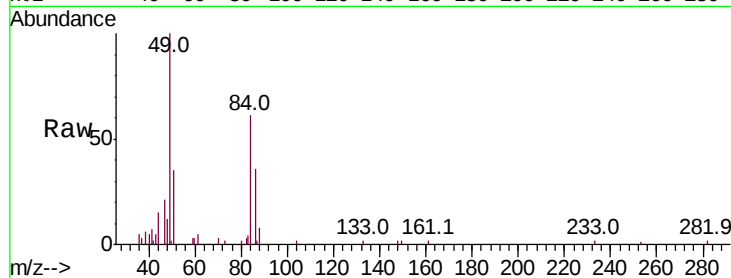




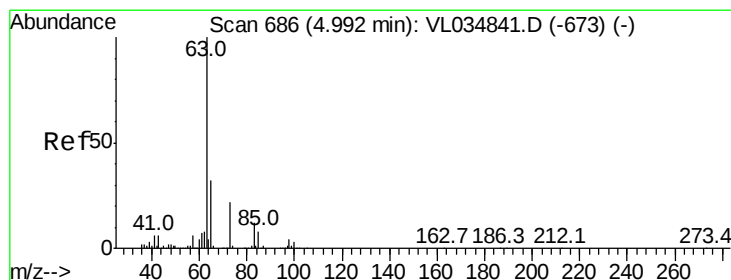
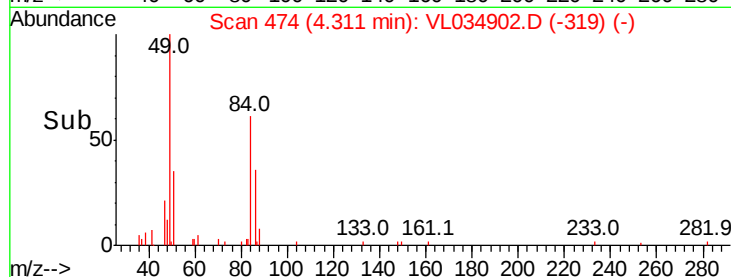
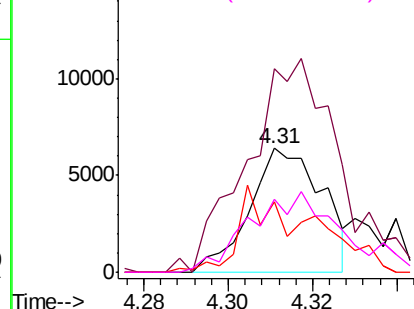
#20
Methvlene Chloride
Concen: 0.221 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.00 min
Lab File: VL034902.D
Acq: 16 Mar 2020 22:42

Instrument :
MSVOA_L
ClientSampleId :
SV-01DL

Tot Ion:	84	Resp:	7656
Ion	Ratio	Lower	Upper
84	100		
49	168.1	121.5	182.3
51	54.4	36.6	55.0
86	56.1	48.2	72.2

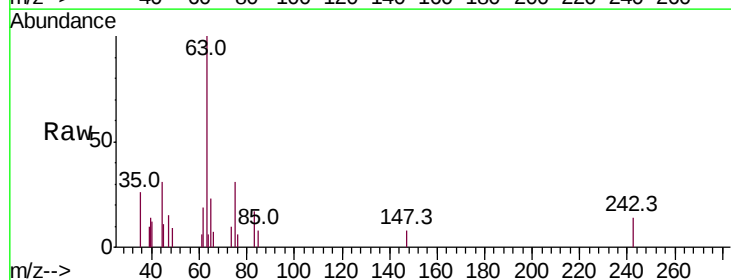


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

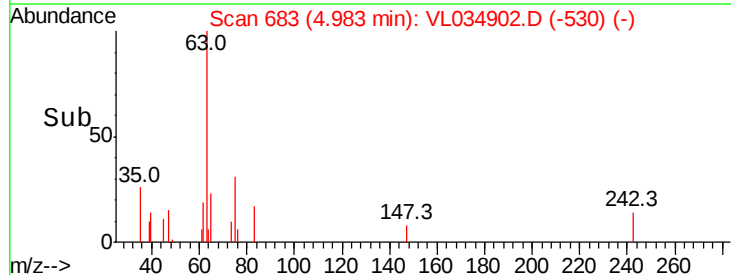
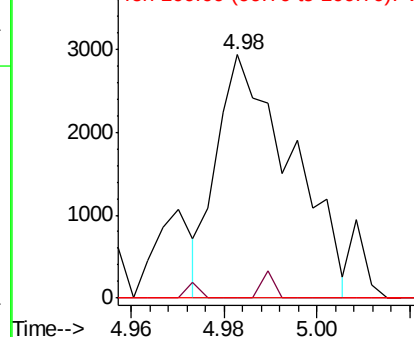


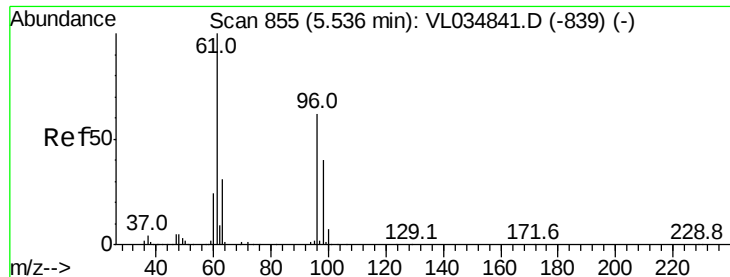
#24
1,1-Dichloroethane
Concen: 0.030 ppbv
RT: 4.98 min Scan# 683
Delta R.T. -0.01 min
Lab File: VL034902.D
Acq: 16 Mar 2020 22:42

Tgt Ion:	63	Resp:	3269
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.0	5.8#
100	0.0	1.4	4.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



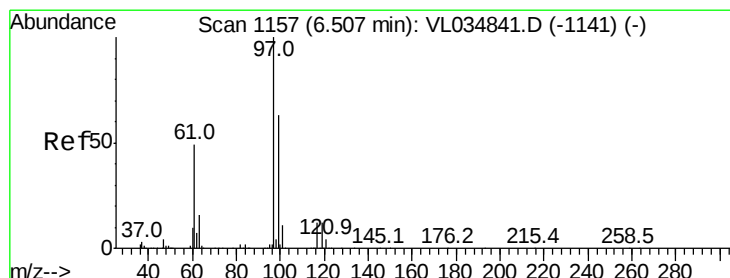
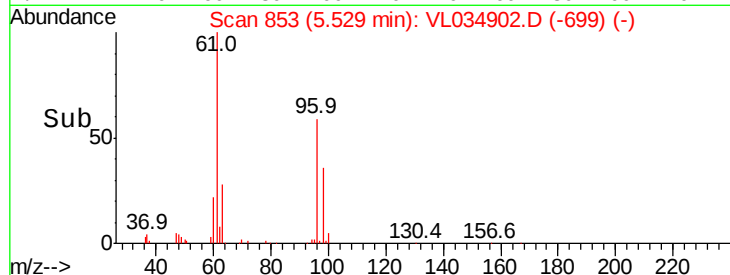
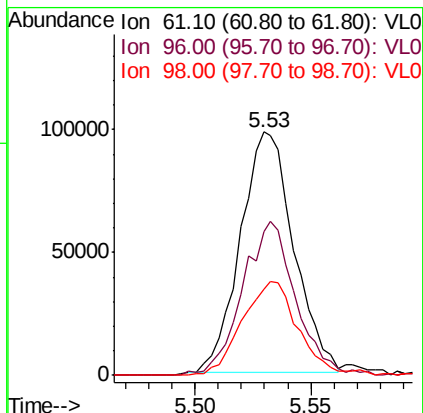
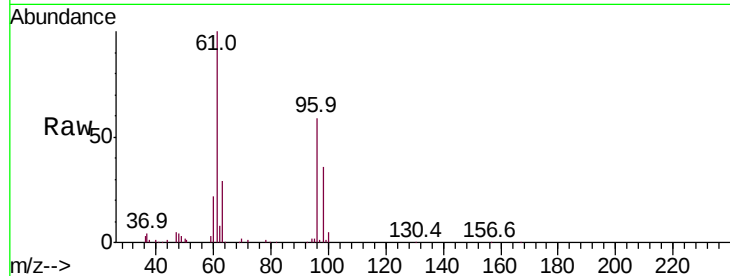


#31

cis-1,2-Dichloroethene
 Concen: 1.823 ppbv
 RT: 5.53 min Scan# 853
 Delta R.T. -0.01 min
 Lab File: VL034902.D
 Acq: 16 Mar 2020 22:42

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01DL

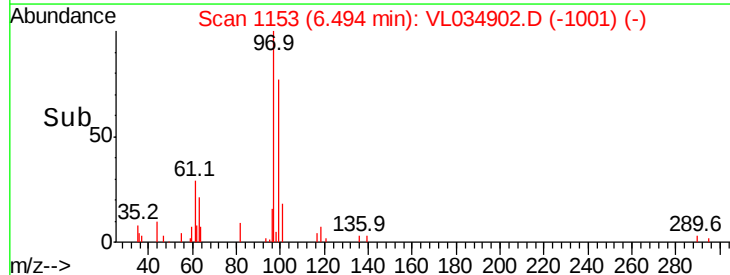
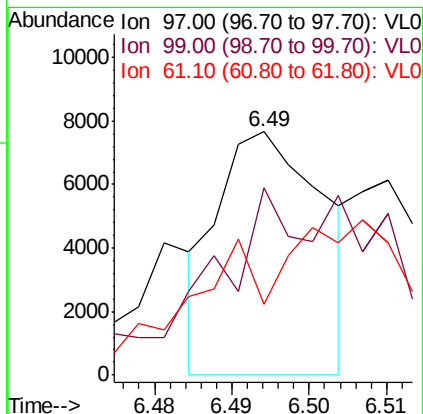
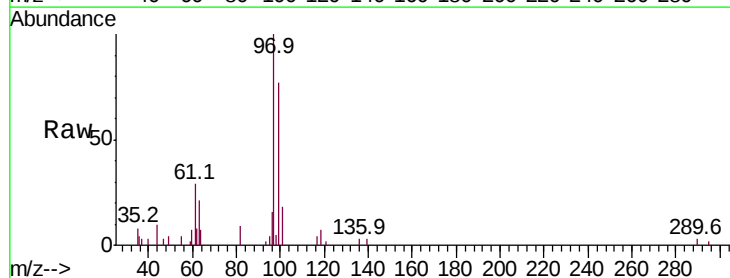
Tot Ion	61	Resp	156679
Ion Ratio	Lower	Upper	
61	100		
96	58.1	49.8	74.8
98	35.6	32.2	48.4

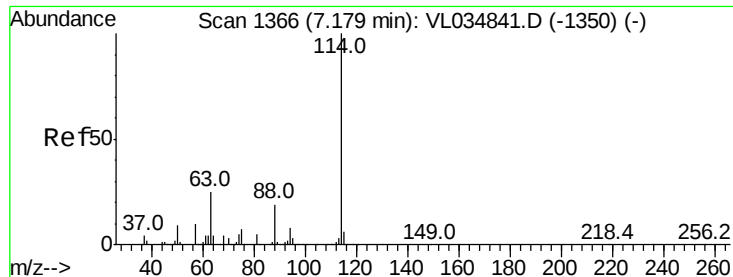


#32

1,1,1-Trichloroethane
 Concen: 0.058 ppbv
 RT: 6.49 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: VL034902.D
 Acq: 16 Mar 2020 22:42

Tgt Ion	97	Resp	7250
Ion Ratio	Lower	Upper	
97	100		
99	143.7	51.1	76.7#
61	0.0	39.7	59.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VL034902.D

Acq: 16 Mar 2020 22:42

Instrument :

MSVOA_L

ClientSampleId :

SV-01DL

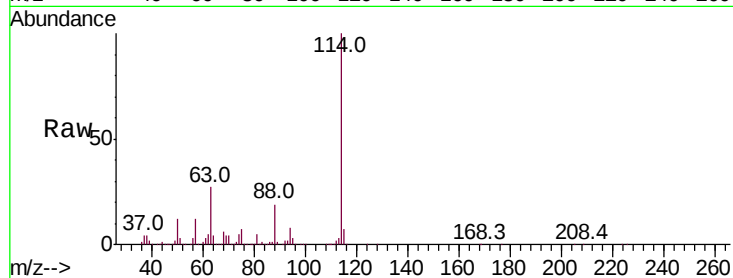
Tot Ion:114 Resp: 1814154

Ion Ratio Lower Upper

114 100

63 27.4 20.6 31.0

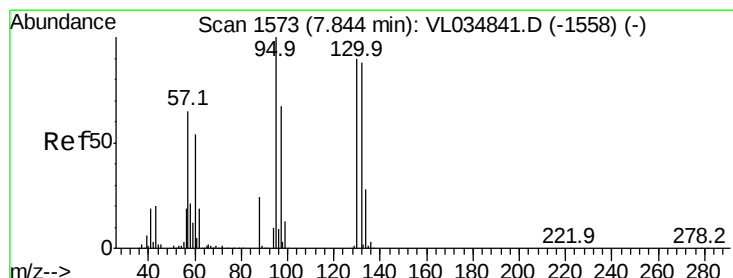
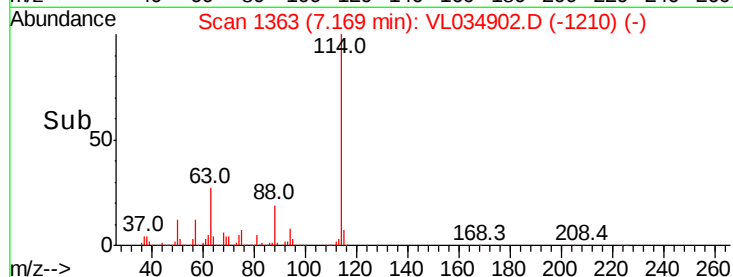
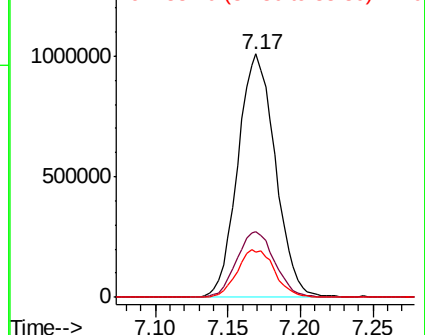
88 19.5 15.0 22.6



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



#38

Trichloroethene

Concen: 5.533 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL034902.D

Acq: 16 Mar 2020 22:42

Tgt Ion:130 Resp: 339793

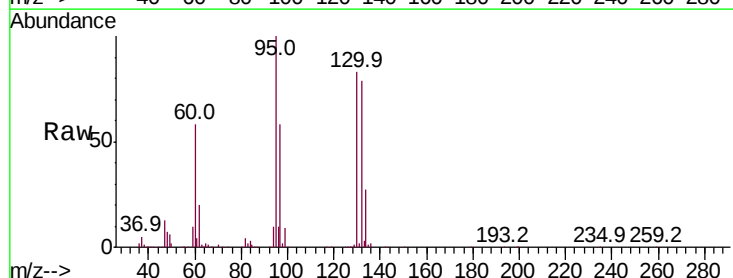
Ion Ratio Lower Upper

130 100

95 120.8 88.5 132.7

132 96.0 78.0 117.0

97 70.4 59.3 88.9

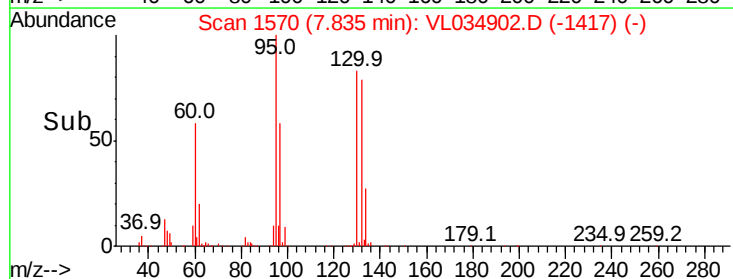
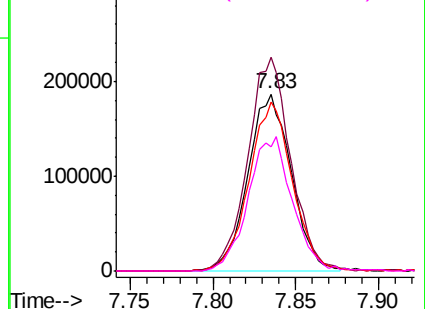


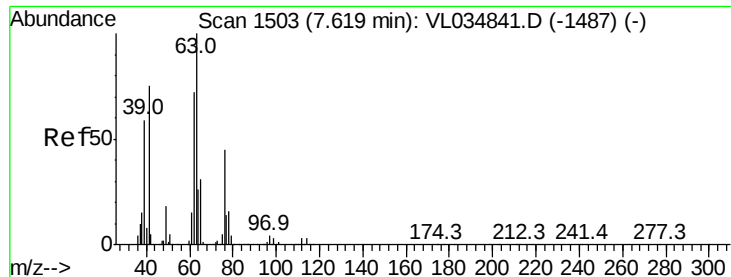
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.701 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL034902.D

Acq: 16 Mar 2020 22:42

Instrument :

MSVOA_L

ClientSampleId :

SV-01DL

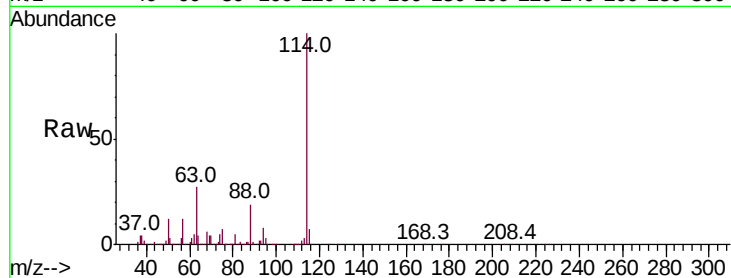
Tot Ion: 63 Resp: 493383

Ion Ratio Lower Upper

63 100

41 0.0 59.8 89.8#

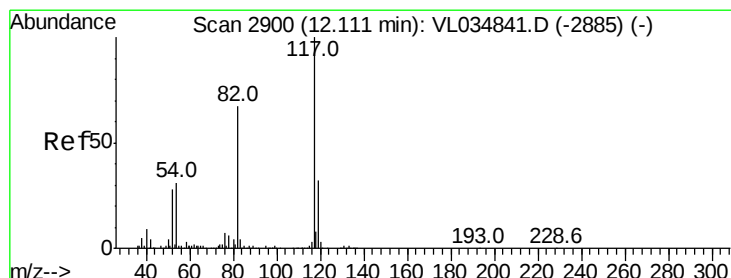
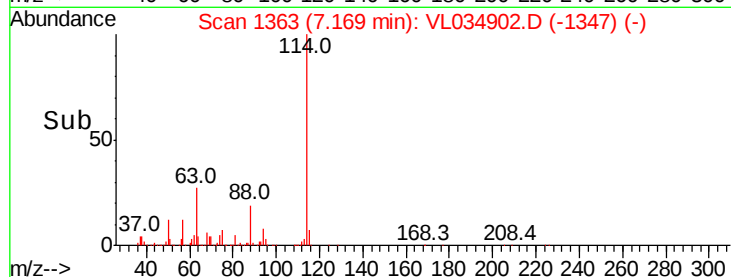
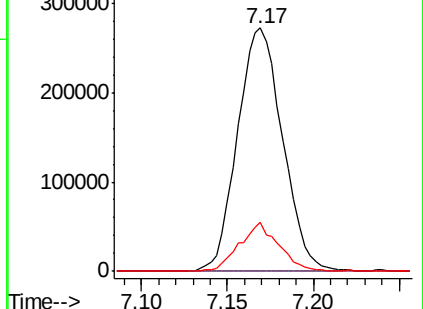
62 19.9 57.6 86.4#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034902.D

Acq: 16 Mar 2020 22:42

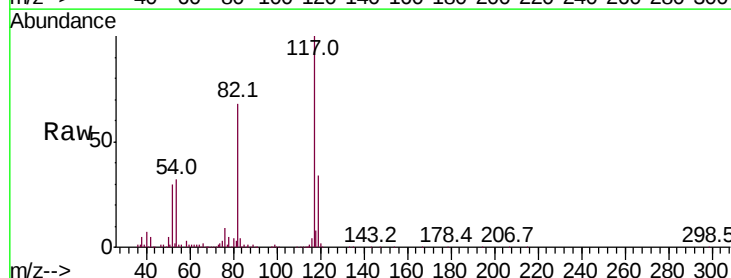
Tgt Ion: 117 Resp: 1748549

Ion Ratio Lower Upper

117 100

82 70.4 51.1 76.7

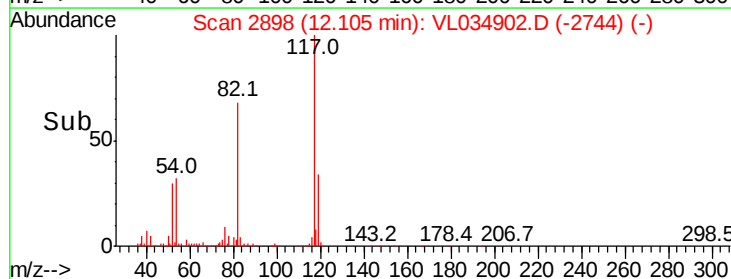
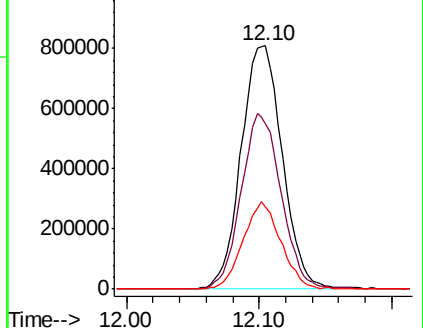
119 33.4 27.3 40.9

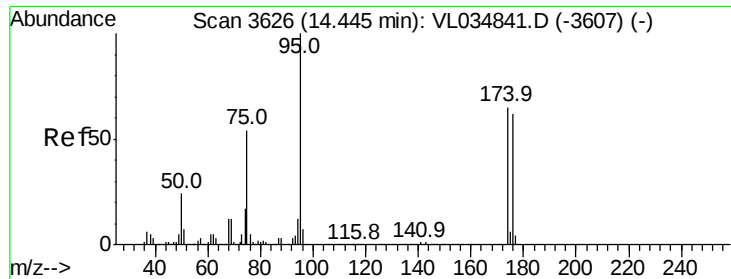


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.412 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL034902.D

Acq: 16 Mar 2020 22:42

Instrument :

MSVOA_L

ClientSampleId :

SV-01DL

Tot Ion: 95 Resp: 1419824

Ion Ratio Lower Upper

95 100

174 65.4 55.2 82.8

175 4.8 4.3 6.5

