

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035709.D
 Acq On : 23 Sep 2020 6:30
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Quant Time: Sep 23 07:05:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 05:25:46 2020
 QLast Update : Wed Sep 23 05:25:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1183930	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4309510	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4341510	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3255169	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

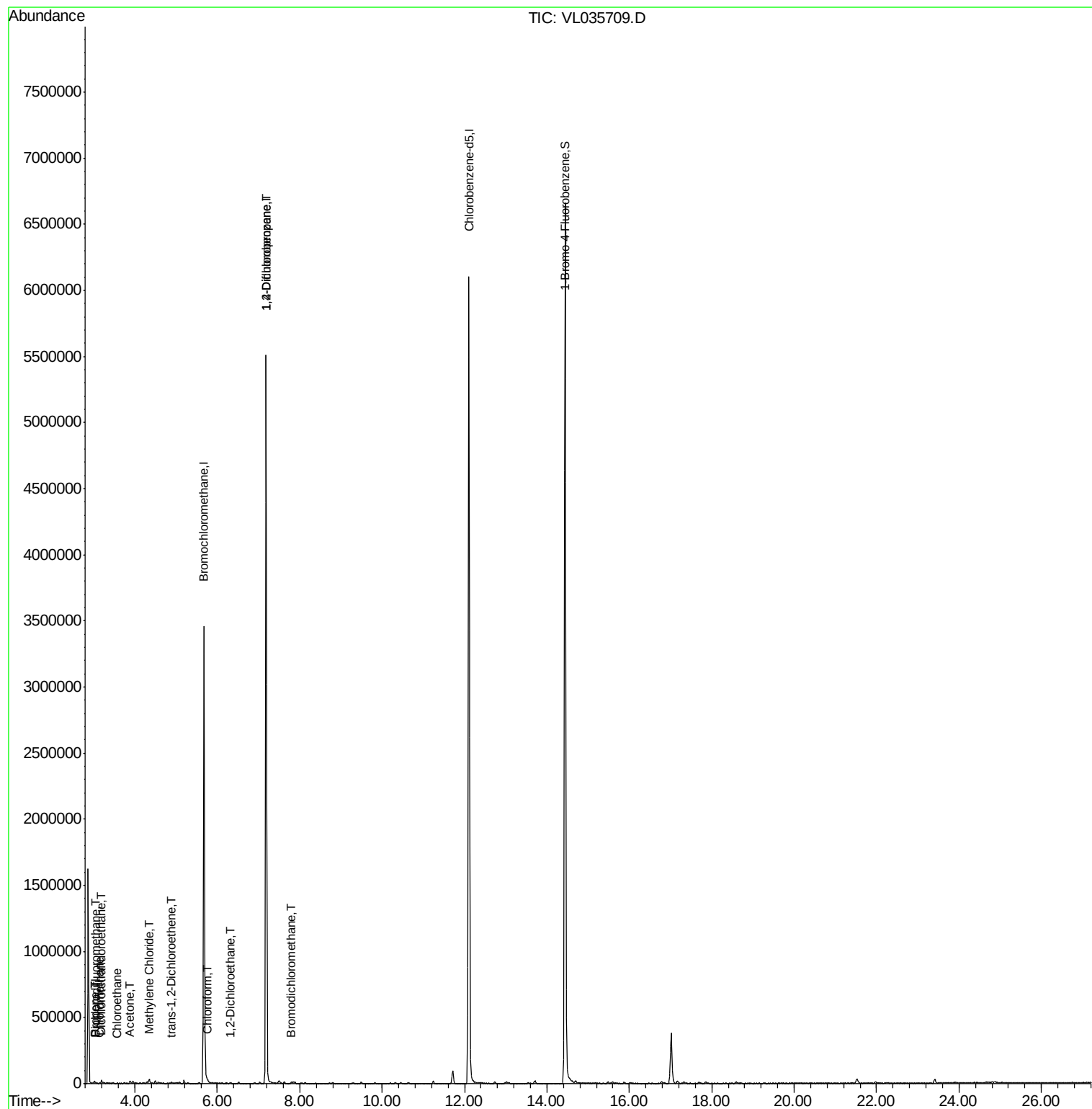
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	7623	0.037	ppbv	96
4) Chloromethane	3.14	50	2786	0.040	ppbv #	76
7) Chloroethane	3.56	64	989	0.033	ppbv #	82
8) Dichlorotetrafluoroethane	3.19	85	7739	0.032	ppbv	96
9) Propene	3.02	41	4665	0.094	ppbv	95
15) Acetone	3.87	43	15778	0.123	ppbv #	41
20) Methylene Chloride	4.35	84	12995	0.134	ppbv	94
22) trans-1,2-Dichloroethene	4.89	96	3601	0.035	ppbv #	80
29) Chloroform	5.75	83	9459	0.036	ppbv	90
37) 1,2-Dichloroethane	6.32	62	4862	0.036	ppbv #	90
39) 1,2-Dichloropropane	7.19	63	859943	8.970	ppbv #	31
42) Bromodichloromethane	7.80	83	6947	0.032	ppbv	93

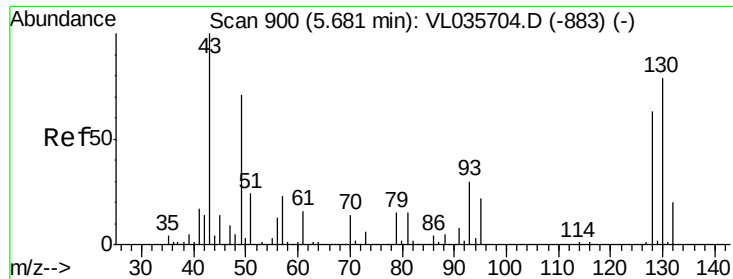
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092320\
Data File : VL035709.D
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Misc : 400ml/MSVOA L
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Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Sep 23 07:05:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 05:25:46 2020
QLast Update : Wed Sep 23 05:25:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL035709.D

Acq: 23 Sep 2020 6:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

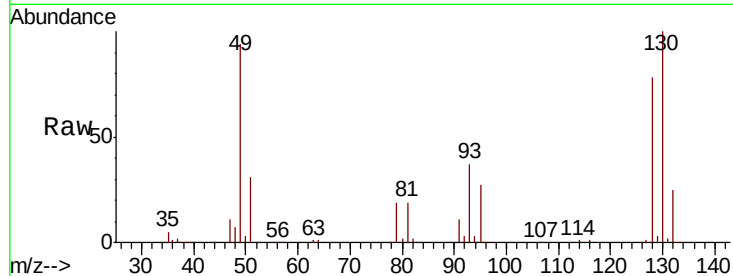
Tot Ion: 49 Resp: 1183930

Ion Ratio Lower Upper

49 100

128 84.2 43.1 129.4

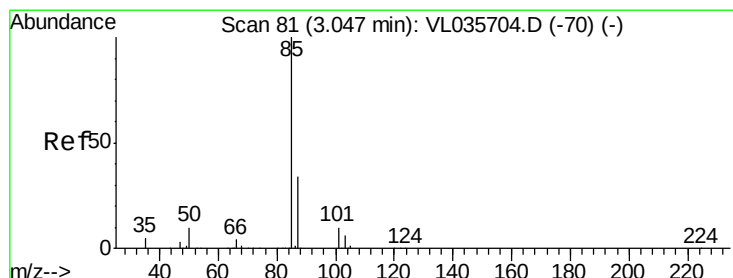
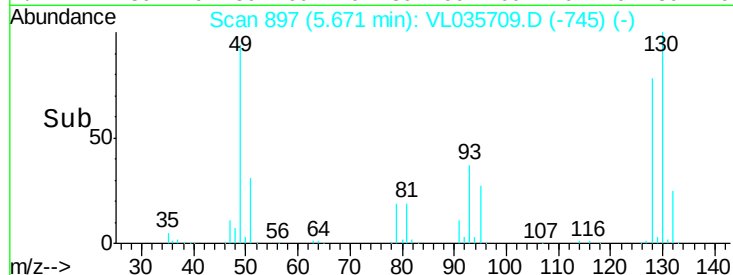
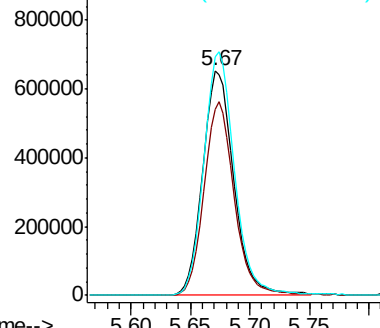
130 107.6 54.9 164.7



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



#2

Dichlorodifluoromethane

Concen: 0.037 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035709.D

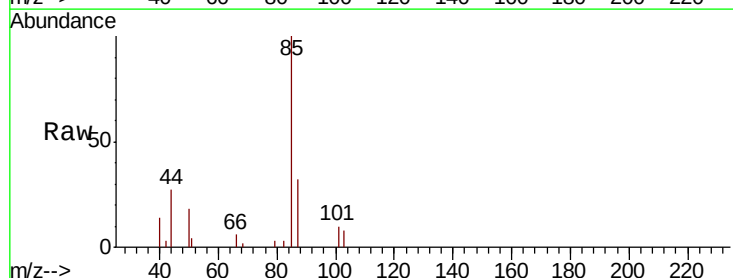
Acq: 23 Sep 2020 6:30

Tgt Ion: 85 Resp: 7623

Ion Ratio Lower Upper

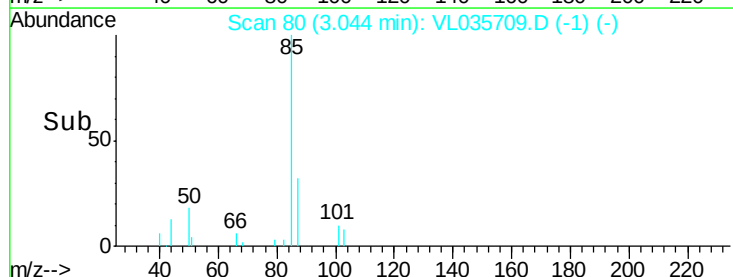
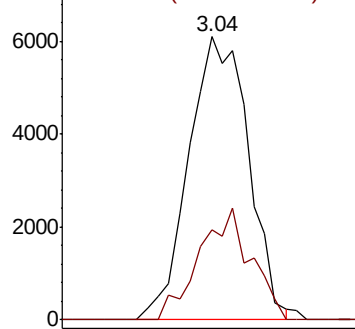
85 100

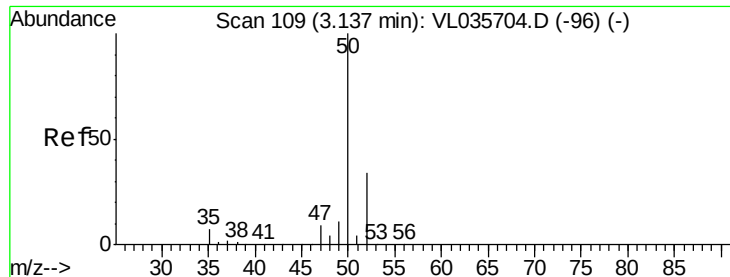
87 31.9 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.040 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL035709.D

Acq: 23 Sep 2020 6:30

Instrument :

MSVOA_L

ClientSampleId :

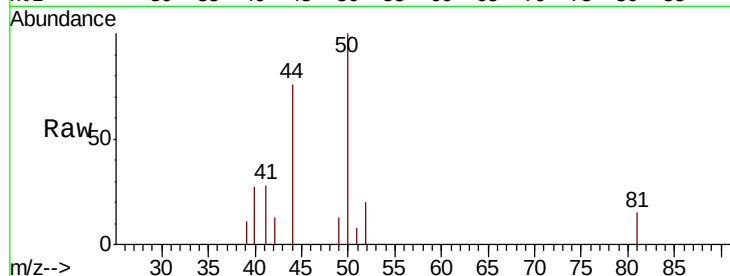
VSTDIC0.03

Tot Ion: 50 Resp: 2786

Ion Ratio Lower Upper

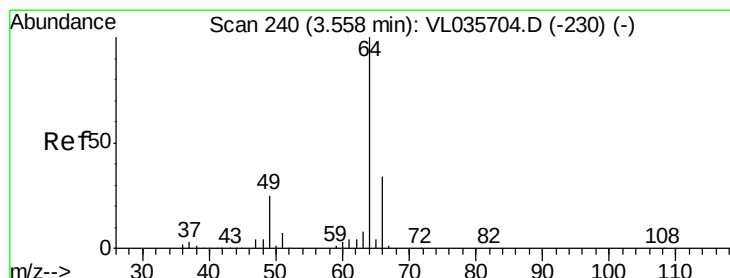
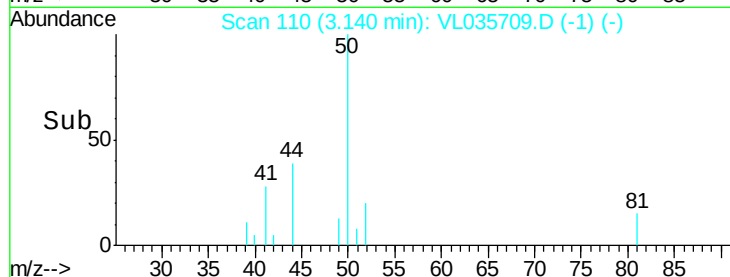
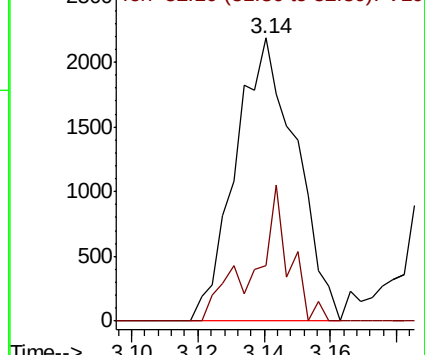
50 100

52 19.7 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#7

Chloroethane

Concen: 0.033 ppbv

RT: 3.56 min Scan# 240

Delta R.T. -0.00 min

Lab File: VL035709.D

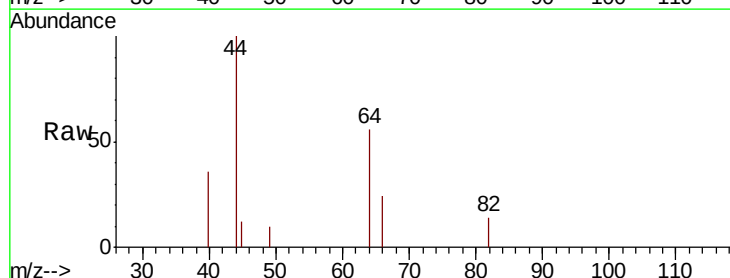
Acq: 23 Sep 2020 6:30

Tgt Ion: 64 Resp: 989

Ion Ratio Lower Upper

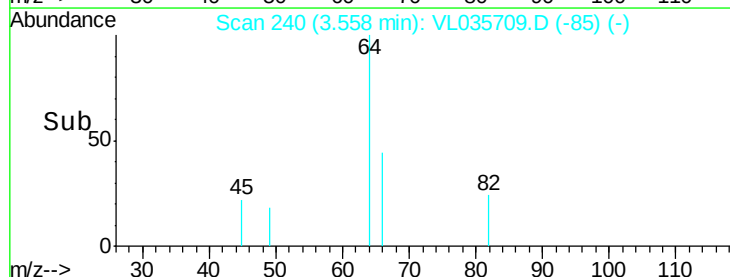
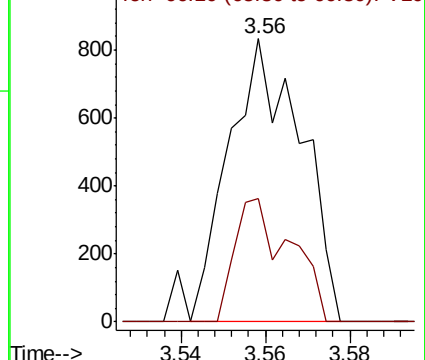
64 100

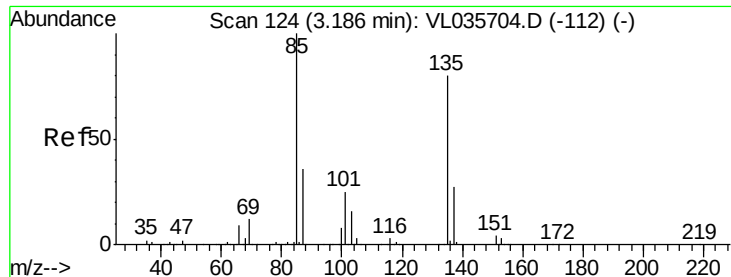
66 43.8 26.9 40.3#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

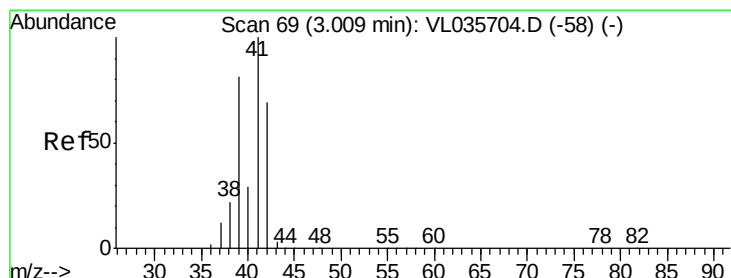
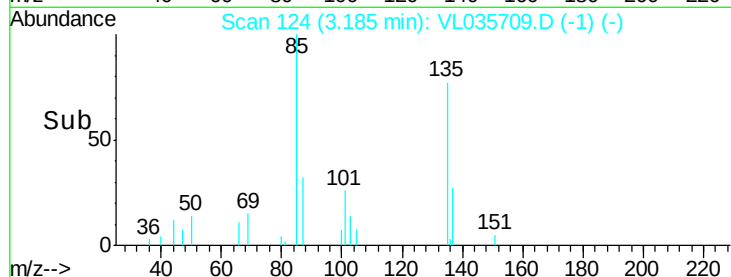
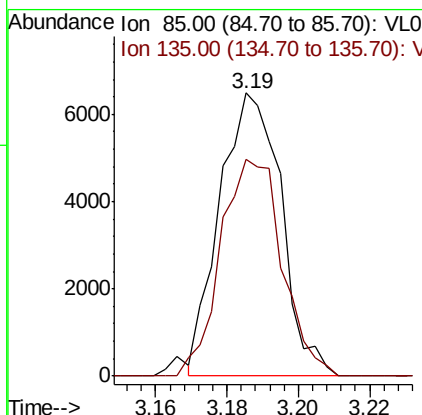
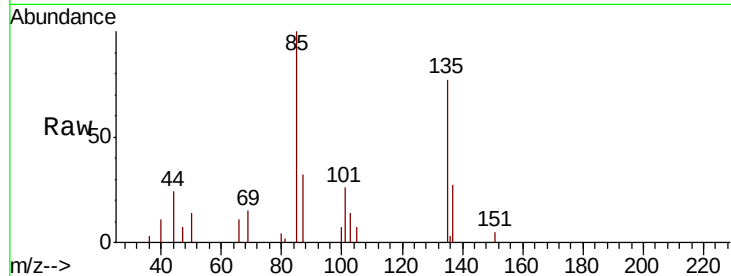




#8
 Dichlorotetrafluoroethane
 Concen: 0.032 ppbv
 RT: 3.19 min Scan# 124
 Delta R.T. -0.00 min
 Lab File: VL035709.D
 Acq: 23 Sep 2020 6:30

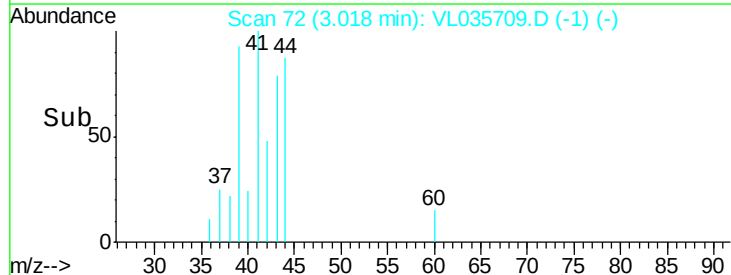
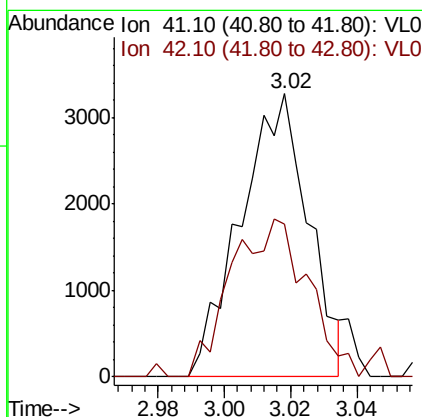
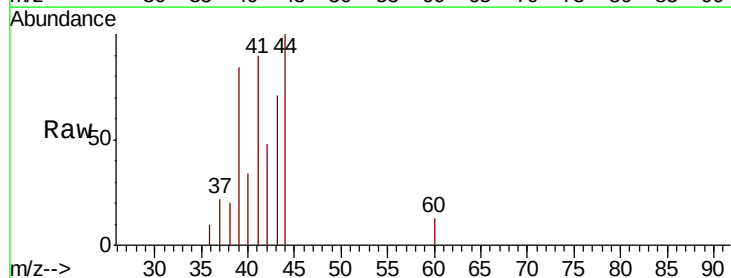
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

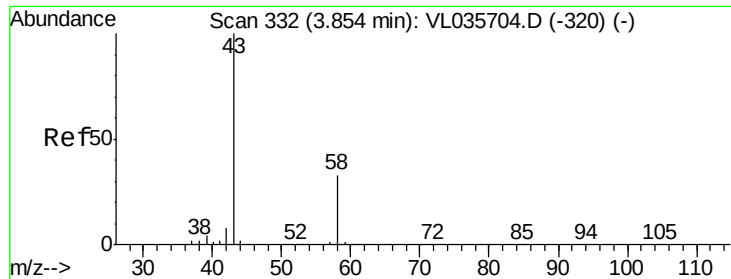
Tot Ion: 85 Resp: 7739
 Ion Ratio Lower Upper
 85 100
 135 76.5 64.3 96.5



#9
 Propene
 Concen: 0.094 ppbv
 RT: 3.02 min Scan# 72
 Delta R.T. 0.01 min
 Lab File: VL035709.D
 Acq: 23 Sep 2020 6:30

Tgt Ion: 41 Resp: 4665
 Ion Ratio Lower Upper
 41 100
 42 65.9 56.2 84.4





#15

Acetone

Concen: 0.123 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.02 min

Lab File: VL035709.D

Acq: 23 Sep 2020 6:30

Instrument :

MSVOA_L

ClientSampleId :

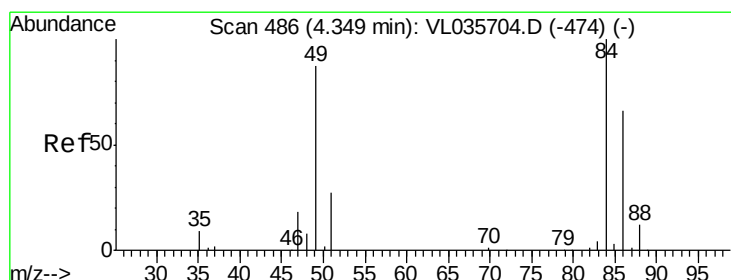
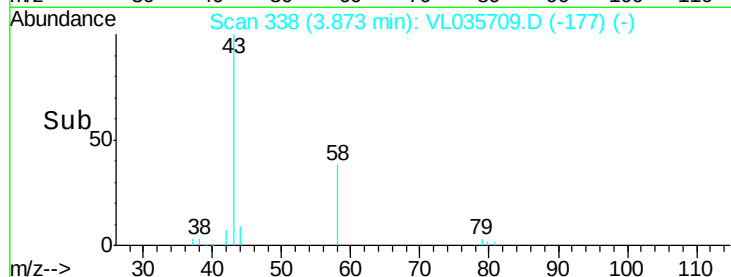
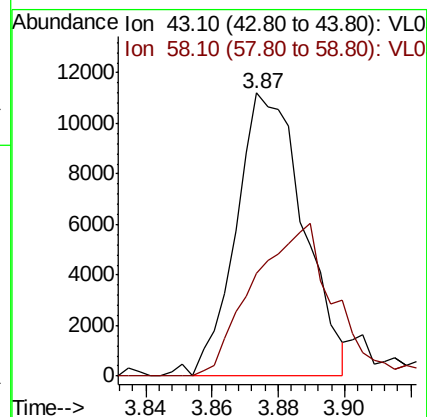
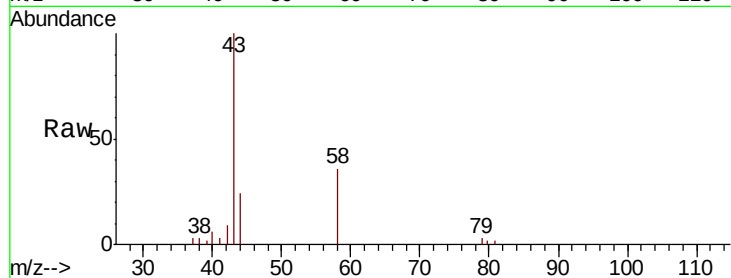
VSTDIC0.03

Tot Ion: 43 Resp: 15778

Ion Ratio Lower Upper

43 100

58 0.0 27.3 40.9#



#20

Methylene Chloride

Concen: 0.134 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.00 min

Lab File: VL035709.D

Acq: 23 Sep 2020 6:30

Tgt Ion: 84 Resp: 12995

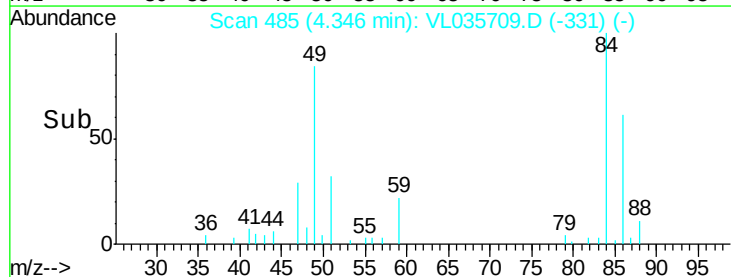
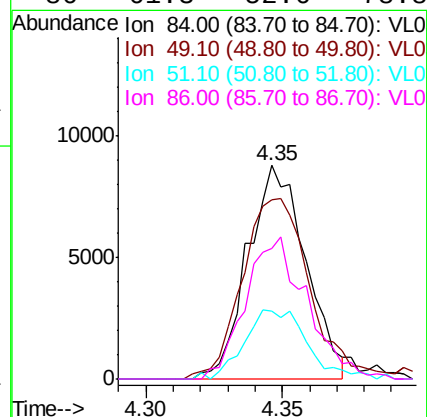
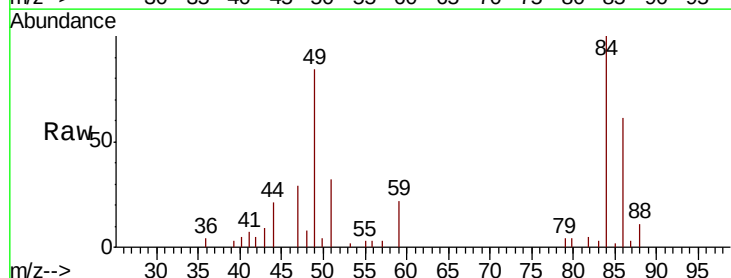
Ion Ratio Lower Upper

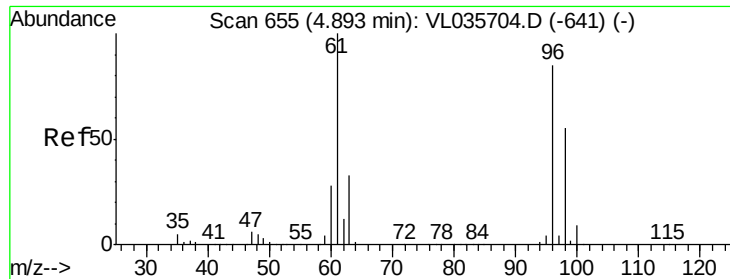
84 100

49 81.6 69.8 104.6

51 31.5 21.8 32.8

86 61.3 52.6 78.8





#22

trans-1,2-Dichloroethene

Concen: 0.035 ppbv

RT: 4.89 min Scan# 655

Delta R.T. -0.00 min

Lab File: VL035709.D

Acq: 23 Sep 2020 6:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

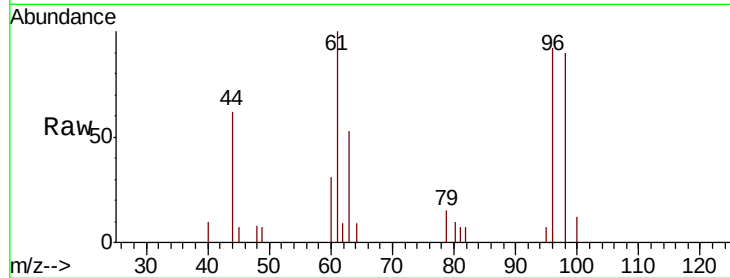
Tot Ion: 96 Resp: 3601

Ion Ratio Lower Upper

96 100

61 108.7 93.7 140.5

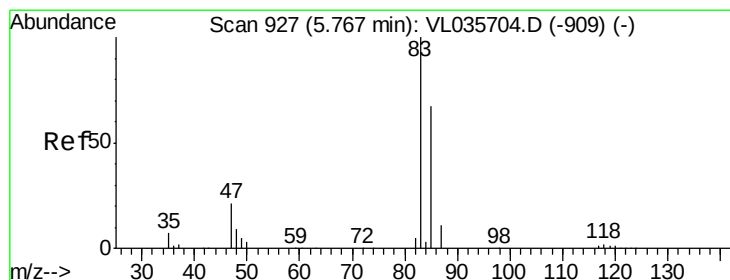
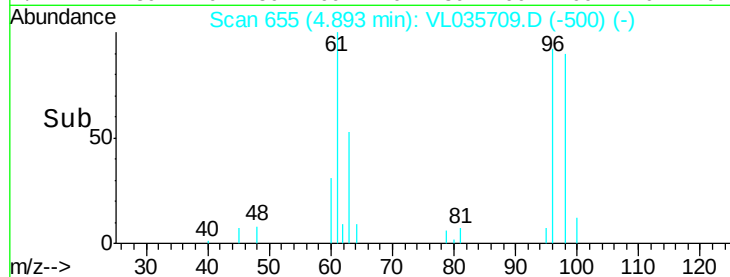
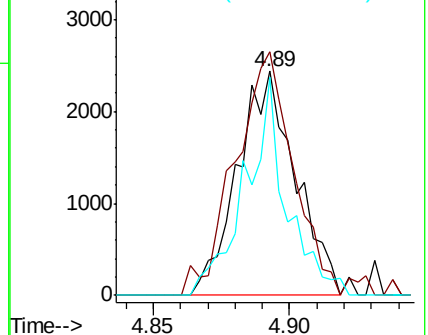
98 97.5 51.2 76.8#



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



#29

Chloroform

Concen: 0.036 ppbv

RT: 5.75 min Scan# 923

Delta R.T. -0.01 min

Lab File: VL035709.D

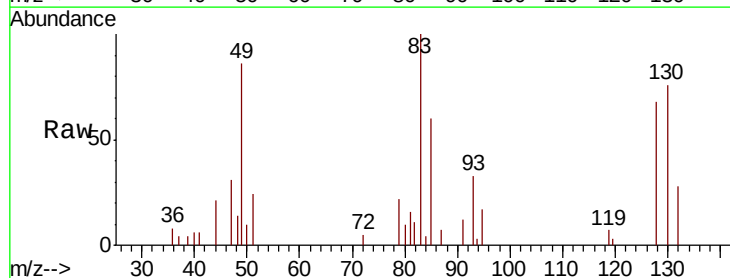
Acq: 23 Sep 2020 6:30

Tgt Ion: 83 Resp: 9459

Ion Ratio Lower Upper

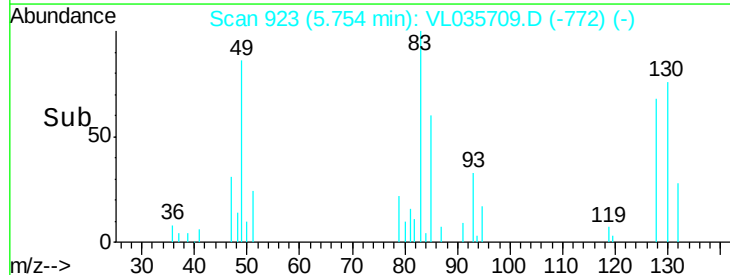
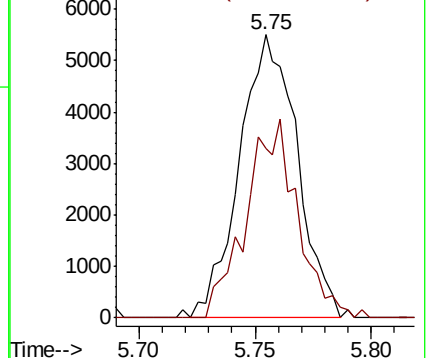
83 100

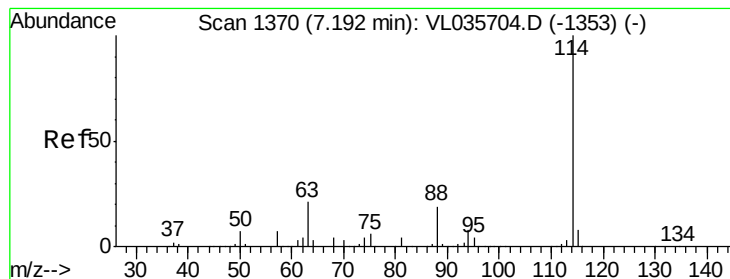
85 59.8 54.0 81.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VL035709.D

Acq: 23 Sep 2020 6:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

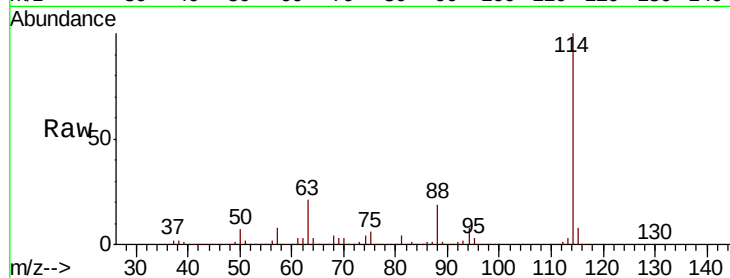
Tot Ion:114 Resp: 4309510

Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

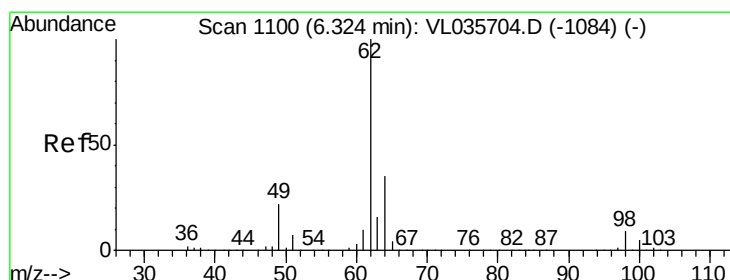
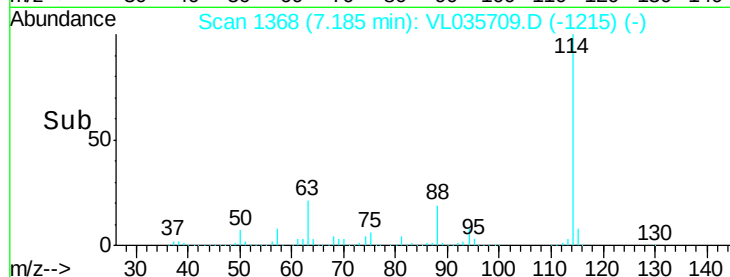
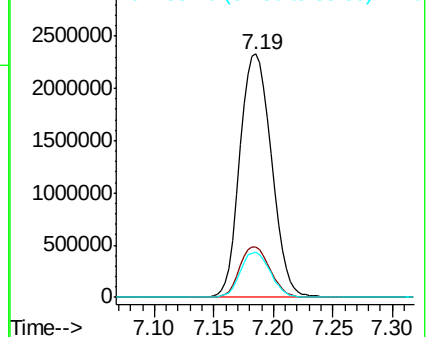
88 17.7 14.1 21.1



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#37

1,2-Dichloroethane

Concen: 0.036 ppbv

RT: 6.32 min Scan# 1099

Delta R.T. -0.00 min

Lab File: VL035709.D

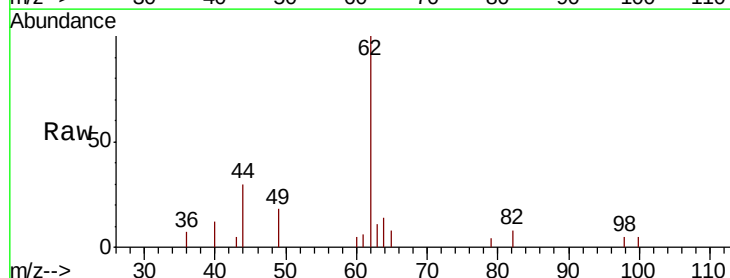
Acq: 23 Sep 2020 6:30

Tgt Ion: 62 Resp: 4862

Ion Ratio Lower Upper

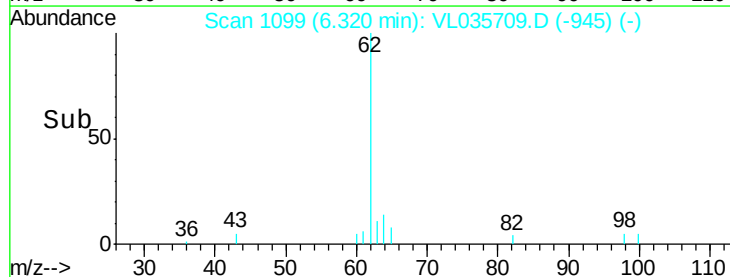
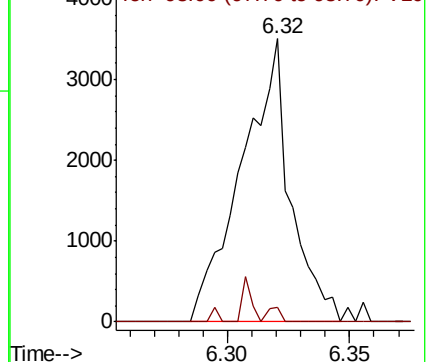
62 100

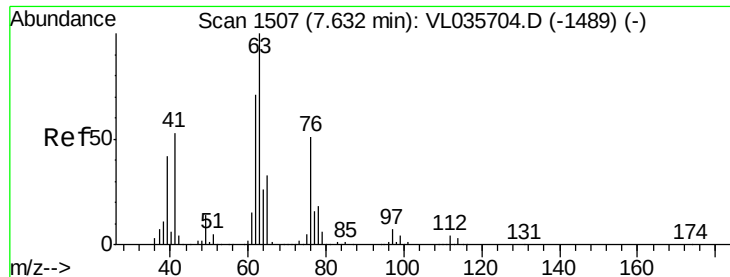
98 5.1 6.9 10.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 8.970 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.45 min

Lab File: VL035709.D

Acq: 23 Sep 2020 6:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

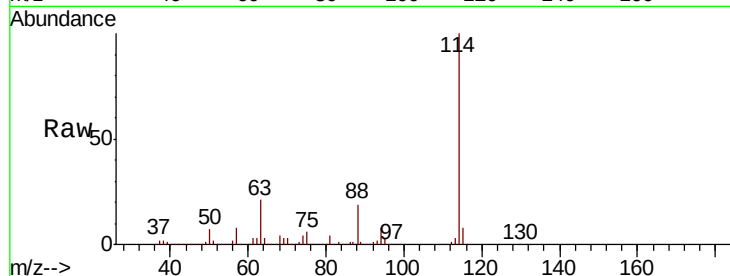
Tot Ion: 63 Resp: 859943

Ion Ratio Lower Upper

63 100

41 0.1 42.6 63.8#

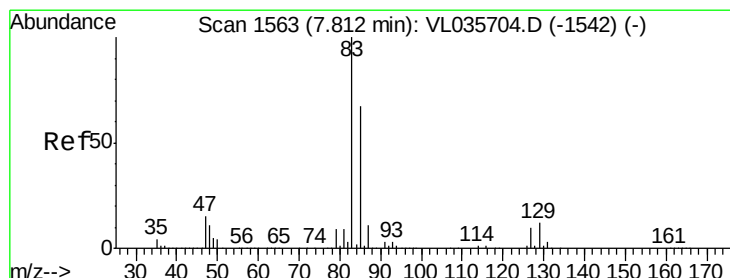
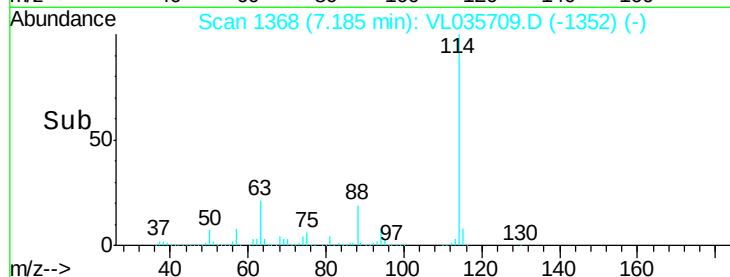
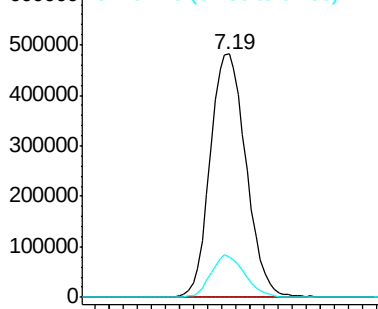
62 16.6 56.5 84.7#



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



#42

Bromodichloromethane

Concen: 0.032 ppbv

RT: 7.80 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL035709.D

Acq: 23 Sep 2020 6:30

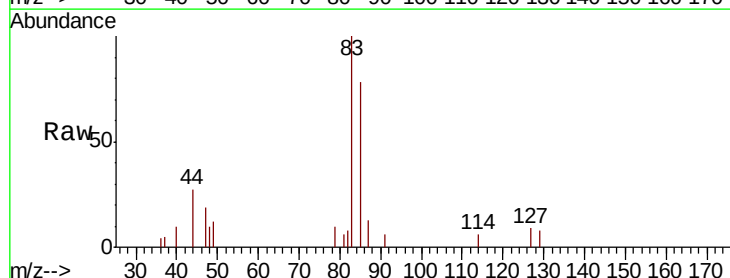
Tgt Ion: 83 Resp: 6947

Ion Ratio Lower Upper

83 100

85 73.1 53.4 80.0

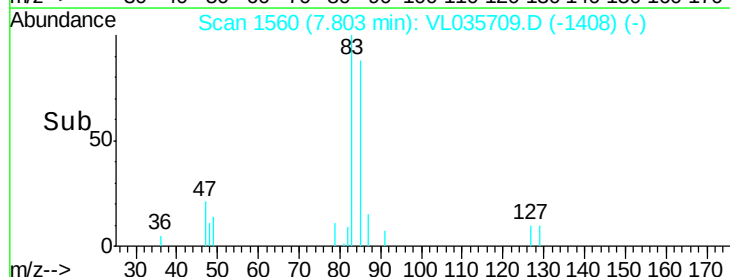
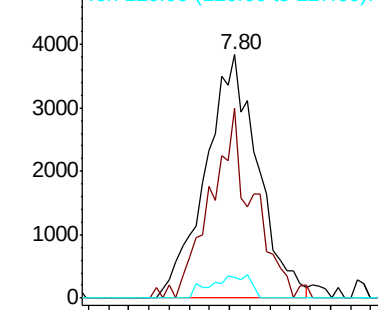
127 8.7 7.8 11.6

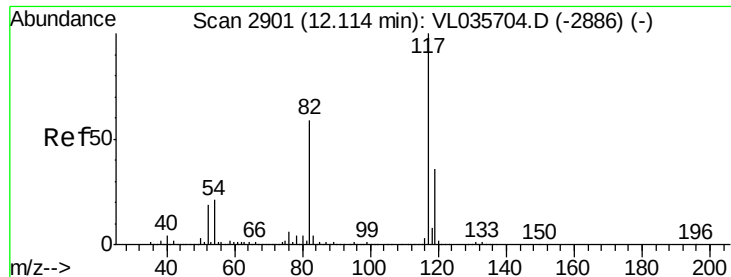


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

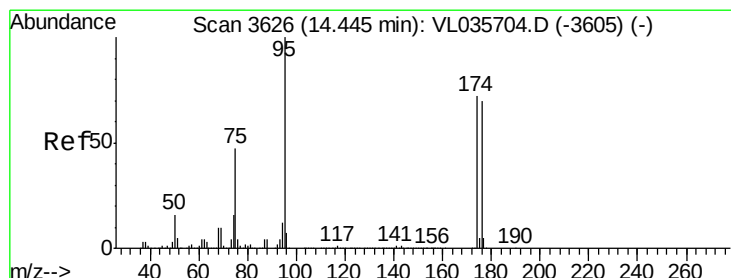
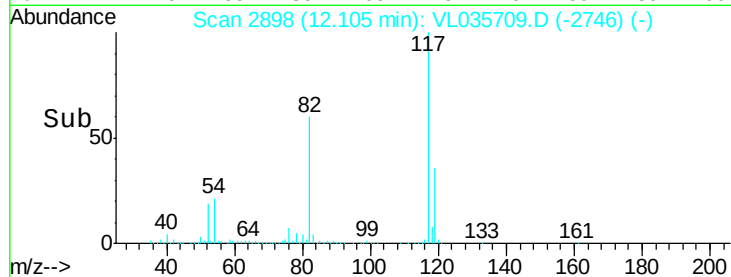
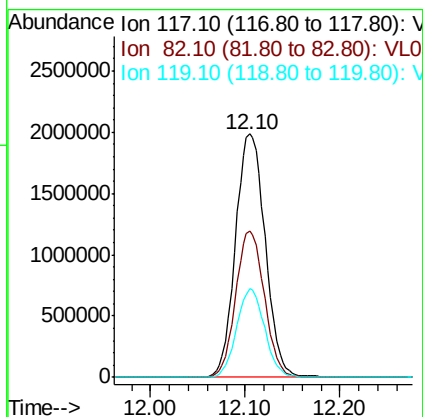
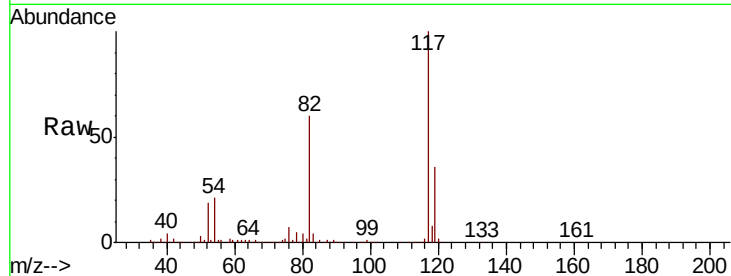




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035709.D
Acq: 23 Sep 2020 6:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tot Ion:117 Resp: 4341510
Ion Ratio Lower Upper
117 100
82 58.5 46.1 69.1
119 34.5 28.0 42.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.435 ppbv
RT: 14.44 min Scan# 3624
Delta R.T. -0.01 min
Lab File: VL035709.D
Acq: 23 Sep 2020 6:30

Tgt Ion: 95 Resp: 3255169
Ion Ratio Lower Upper
95 100
174 77.2 59.6 89.4
175 5.6 4.2 6.4

