

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035541.D
 Acq On : 3 Sep 2020 21:50
 Operator : SY/AP
 Sample : L3898-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DL

Quant Time: Sep 04 06:48:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1057565	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4453811	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4424175	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	3230578	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

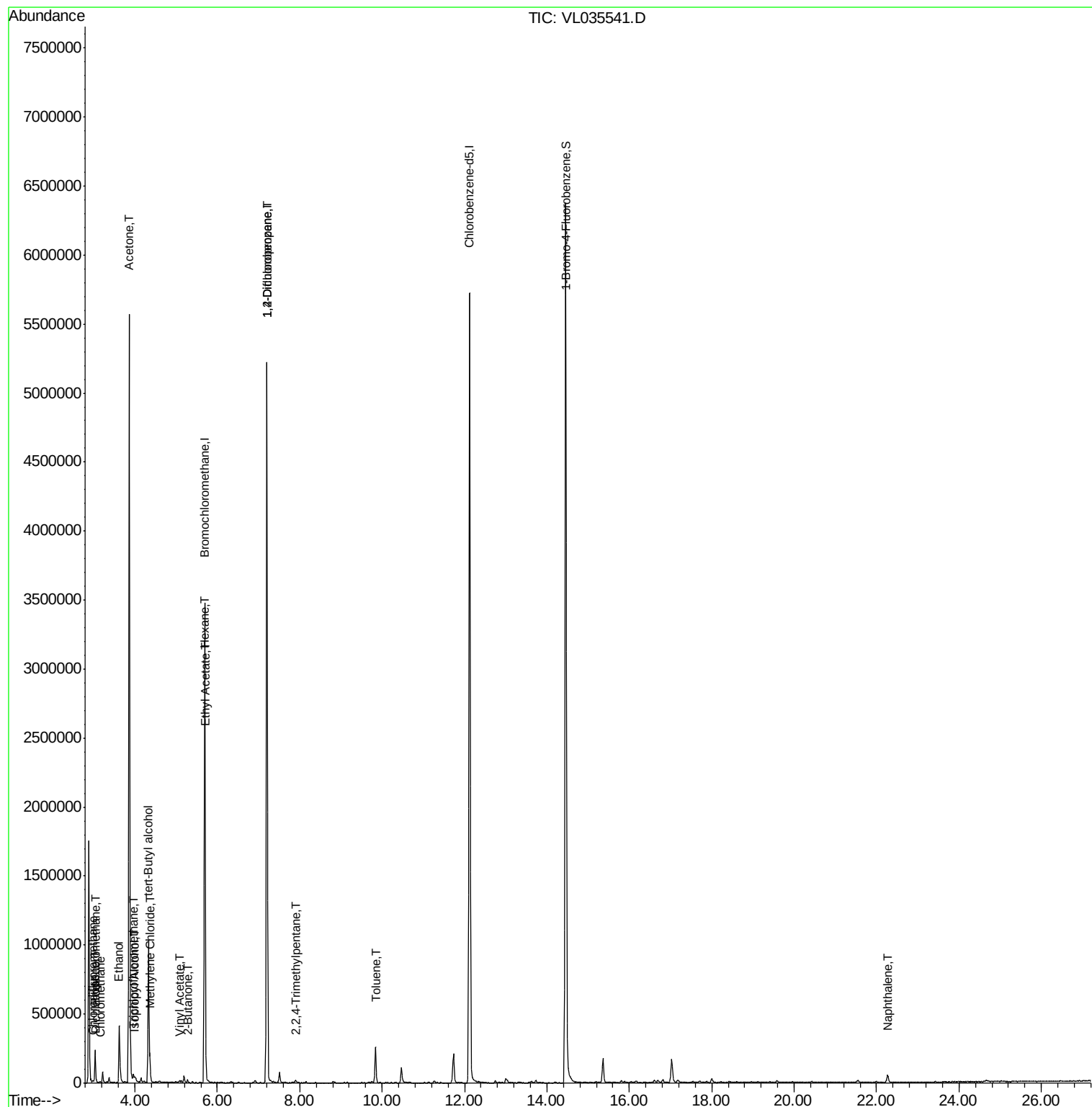
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	15645	0.085 ppbv	93
3) Chlorodifluoromethane	2.97	51	17315	0.148 ppbv #	76
4) Chloromethane	3.15	50	2915	0.047 ppbv	98
9) Propene	3.03	41	48343	1.072 ppbv #	69
11) Trichlorofluoromethane	3.97	101	31772	0.119 ppbv	94
13) Ethanol	3.62	45	453460	40.559 ppbv	96
15) Acetone	3.86	43	5435134	46.598 ppbv	91
17) tert-Butyl alcohol	4.33	59	110895	0.781 ppbv #	79
19) Isopropyl Alcohol	4.00	45	30781	0.442 ppbv #	93
20) Methylene Chloride	4.36	84	81782	0.941 ppbv	93
23) Vinyl Acetate	5.09	43	11655	0.078 ppbv #	56
25) Ethyl Acetate	5.71	43	30395	0.148 ppbv #	85
26) Hexane	5.71	57	40494	0.347 ppbv #	56
34) 2-Butanone	5.28	43	22338	0.169 ppbv	99
39) 1,2-Dichloropropane	7.20	63	812241	8.340 ppbv #	32
44) 2,2,4-Trimethylpentane	7.90	57	15740	0.041 ppbv #	69
53) Toluene	9.84	91	228592	0.631 ppbv	97
79) Naphthalene	22.27	128	81854	0.149 ppbv #	92

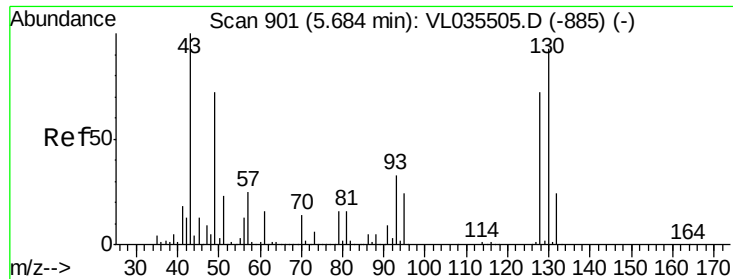
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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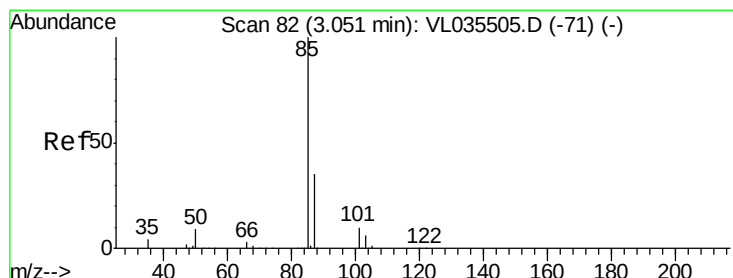
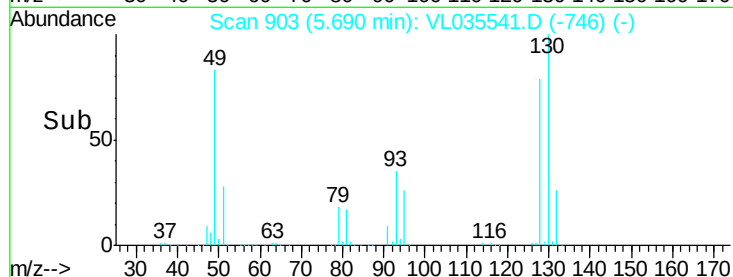
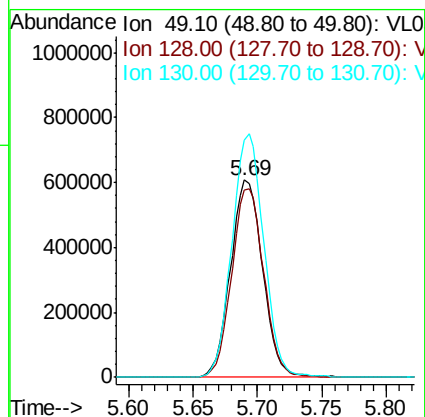
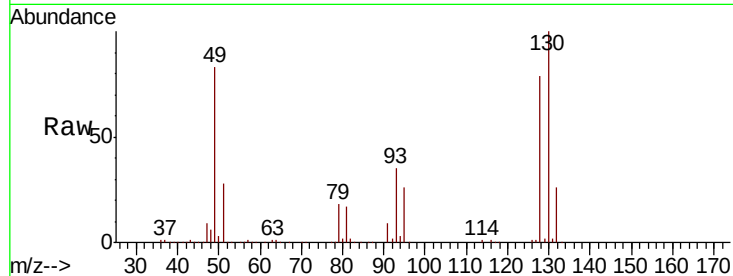




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL035541.D
Acq: 3 Sep 2020 21:50

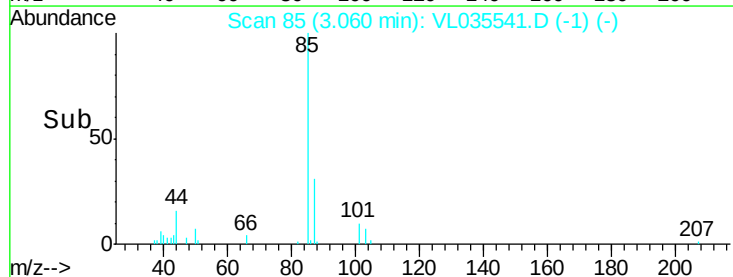
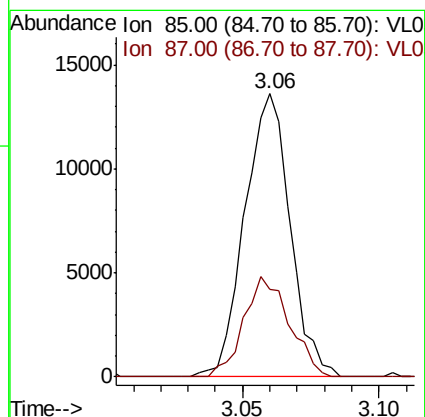
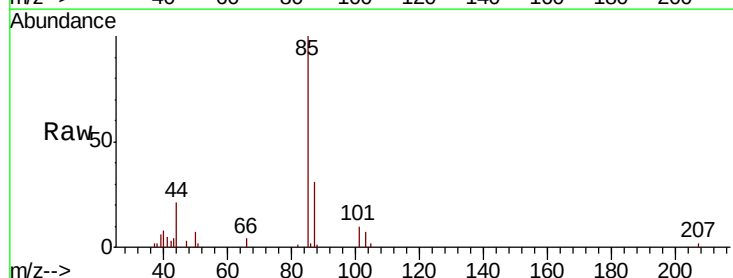
Instrument :
MSVOA_L
ClientSampleId :
IA-4DL

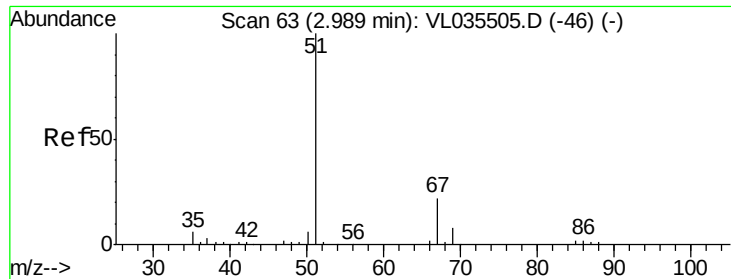
Tot Ion: 49 Resp: 1057565
Ion Ratio Lower Upper
49 100
128 95.5 50.0 150.1
130 122.4 64.4 193.2



#2
Dichlorodifluoromethane
Concen: 0.085 ppbv
RT: 3.06 min Scan# 85
Delta R.T. 0.01 min
Lab File: VL035541.D
Acq: 3 Sep 2020 21:50

Tgt Ion: 85 Resp: 15645
Ion Ratio Lower Upper
85 100
87 30.7 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.148 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035541.D

Acq: 3 Sep 2020 21:50

Instrument :

MSVOA_L

ClientSampleId :

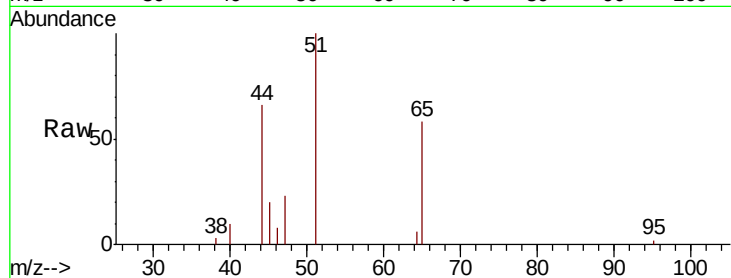
IA-4DL

Tot Ion: 51 Resp: 17315

Ion Ratio Lower Upper

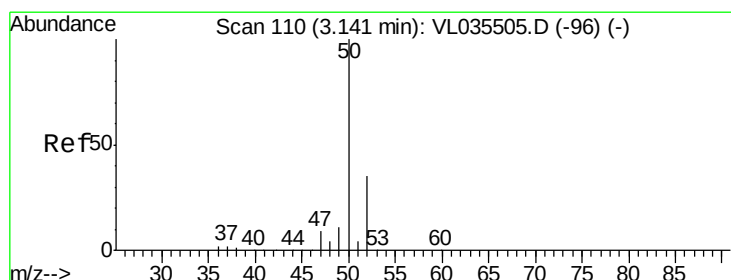
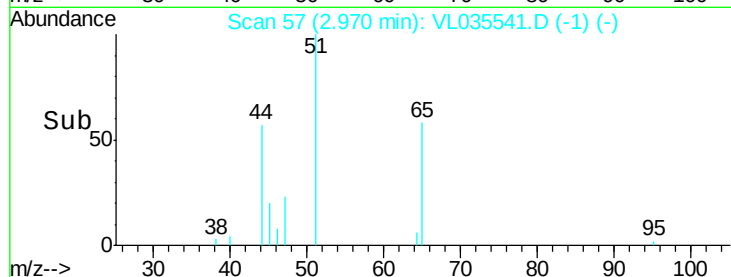
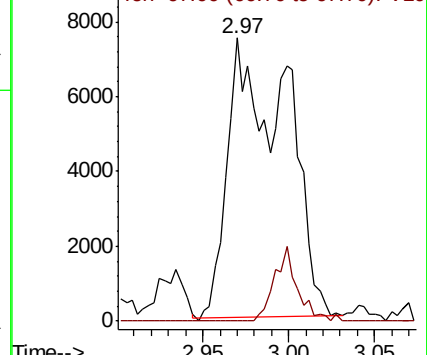
51 100

67 10.9 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.047 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL035541.D

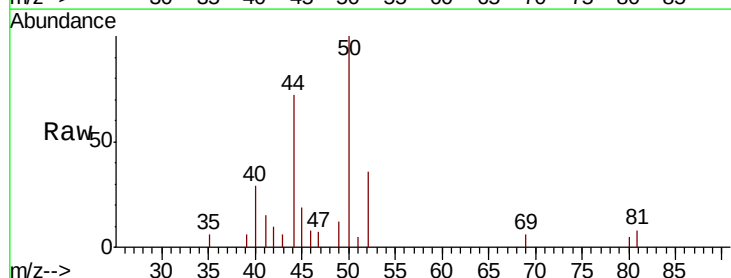
Acq: 3 Sep 2020 21:50

Tgt Ion: 50 Resp: 2915

Ion Ratio Lower Upper

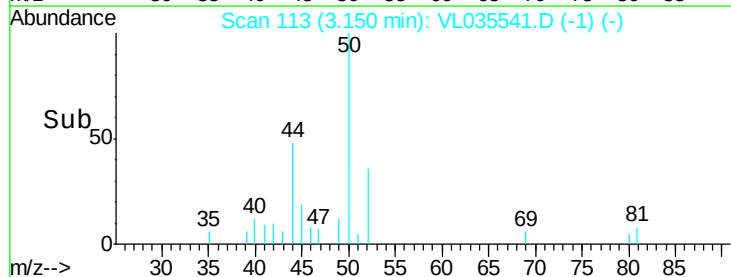
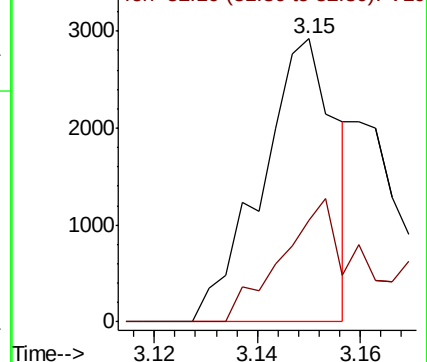
50 100

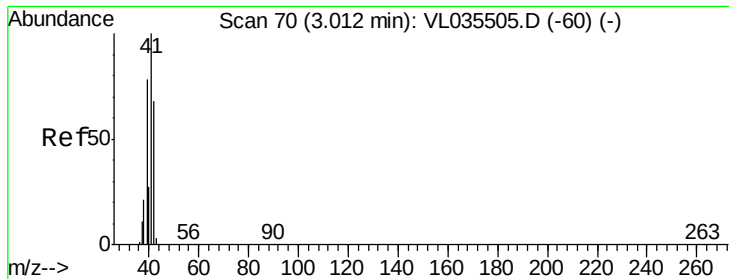
52 35.9 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.072 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL035541.D

Acq: 3 Sep 2020 21:50

Instrument :

MSVOA_L

ClientSampleId :

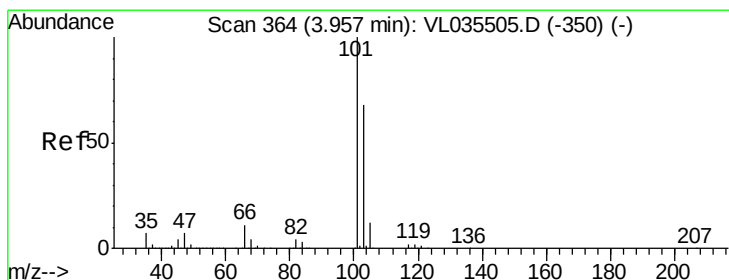
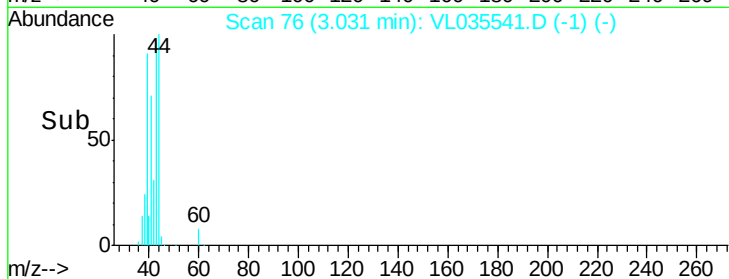
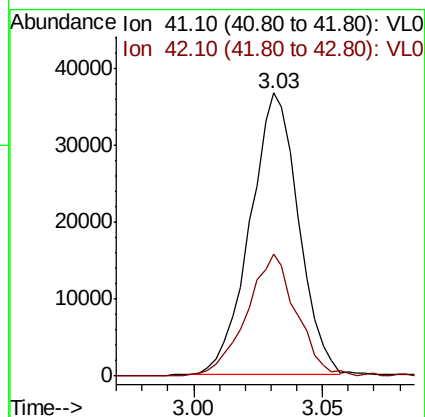
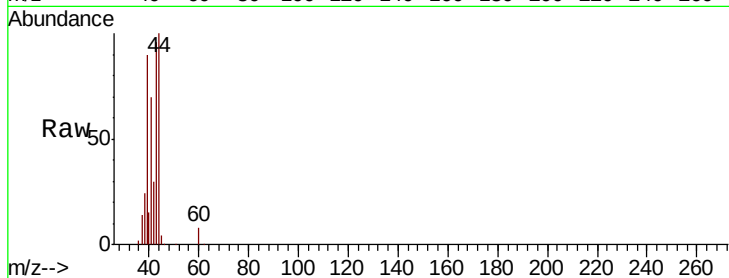
IA-4DL

Tot Ion: 41 Resp: 48343

Ion Ratio Lower Upper

41 100

42 44.8 56.3 84.5#



#11

Trichlorofluoromethane

Concen: 0.119 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL035541.D

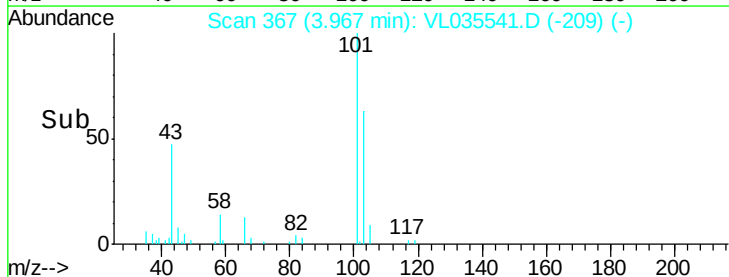
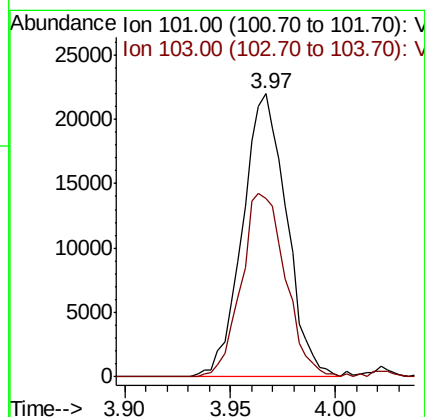
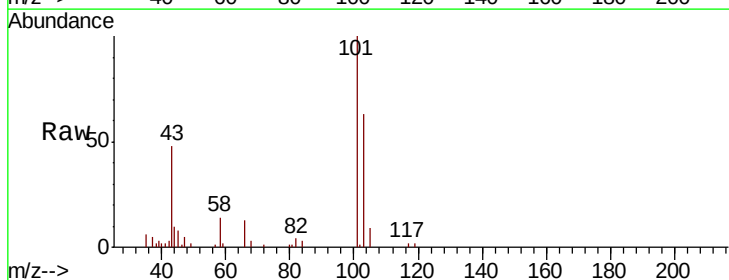
Acq: 3 Sep 2020 21:50

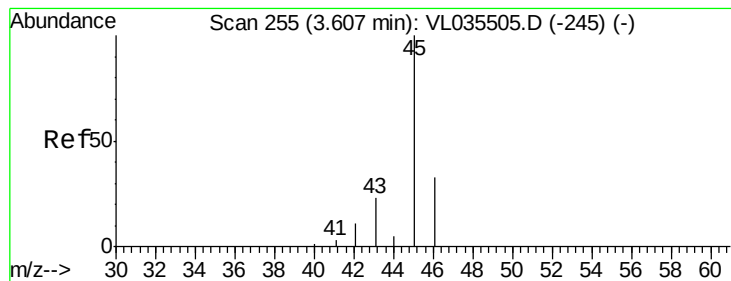
Tgt Ion: 101 Resp: 31772

Ion Ratio Lower Upper

101 100

103 63.0 54.5 81.7





#13

Ethanol

Concen: 40.559 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL035541.D

Acq: 3 Sep 2020 21:50

Instrument :

MSVOA_L

ClientSampled :

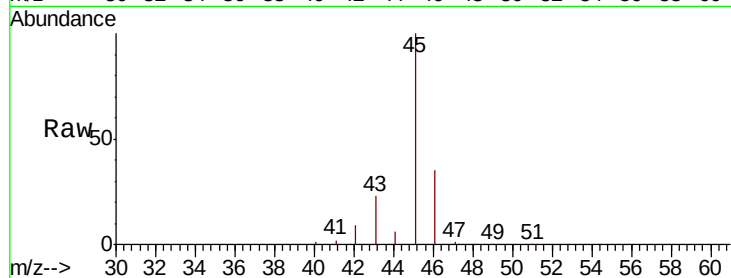
IA-4DL

Tot Ion: 45 Resp: 453460

Ion Ratio Lower Upper

45 100

46 35.6 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.62

250000

200000

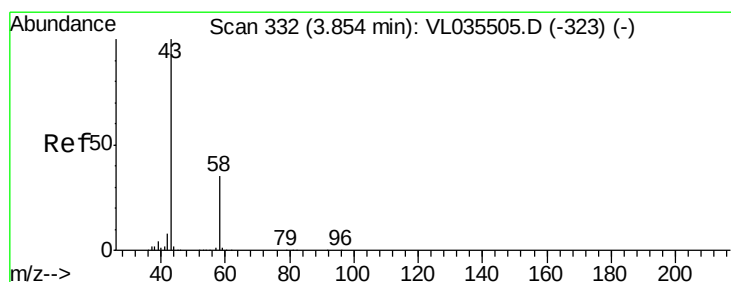
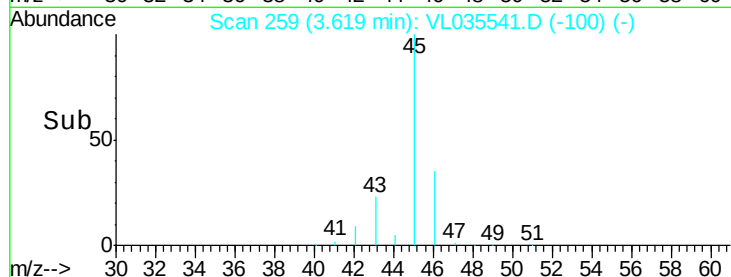
150000

100000

50000

0

Time-->



#15

Acetone

Concen: 46.598 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL035541.D

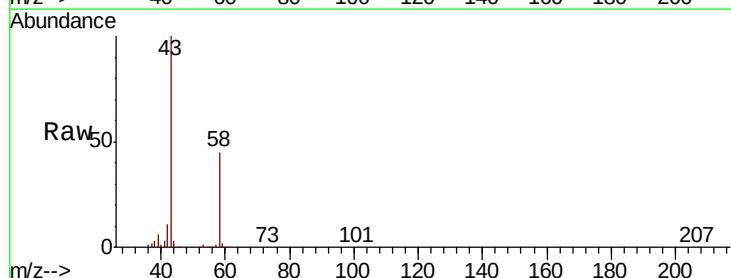
Acq: 3 Sep 2020 21:50

Tgt Ion: 43 Resp: 5435134

Ion Ratio Lower Upper

43 100

58 41.0 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.86

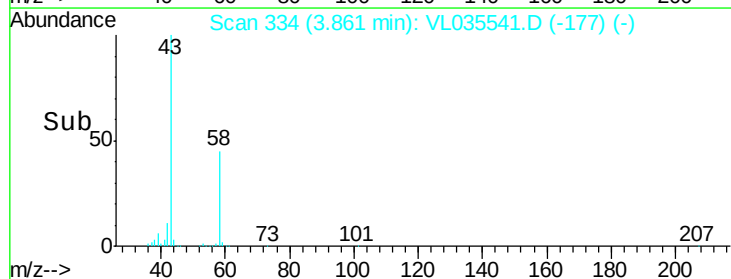
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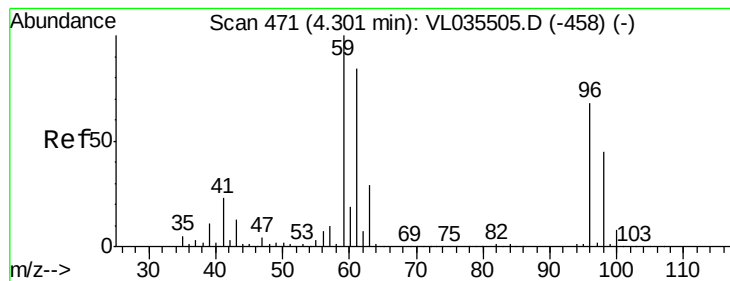
2000000

1000000

0

Time-->





#17

tert-Butyl alcohol

Concen: 0.781 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.03 min

Lab File: VL035541.D

Acq: 3 Sep 2020 21:50

Instrument :

MSVOA_L

ClientSampleId :

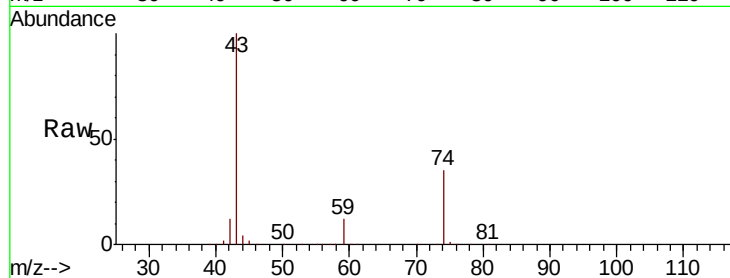
IA-4DL

Tot Ion: 59 Resp: 110895

Ion Ratio Lower Upper

59 100

57 2.7 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.33

80000

60000

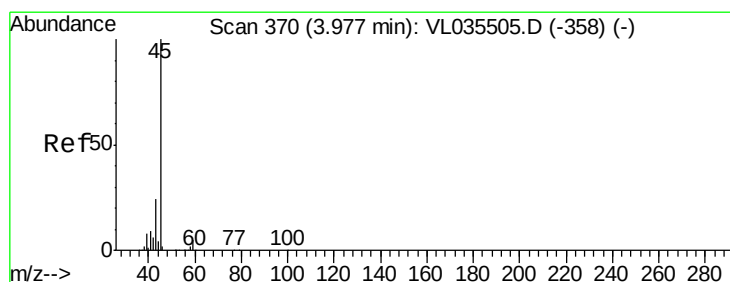
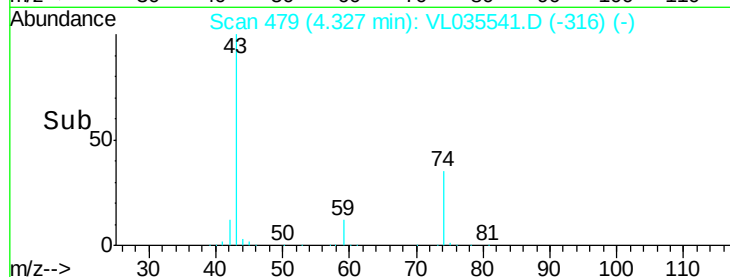
40000

20000

0

Time-->

4.30 4.35



#19

Isopropyl Alcohol

Concen: 0.442 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.02 min

Lab File: VL035541.D

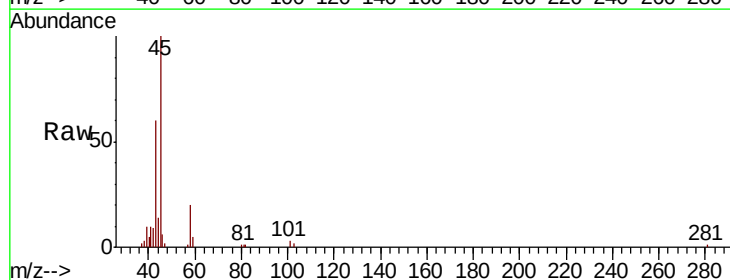
Acq: 3 Sep 2020 21:50

Tgt Ion: 45 Resp: 30781

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.00

20000

15000

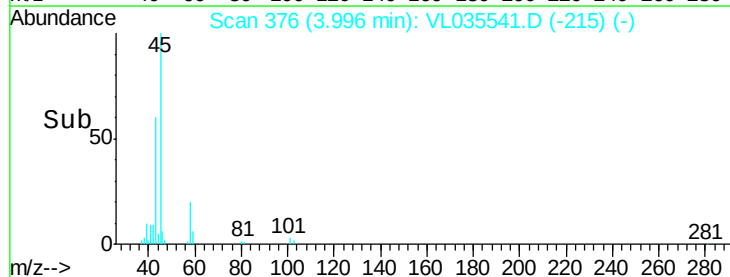
10000

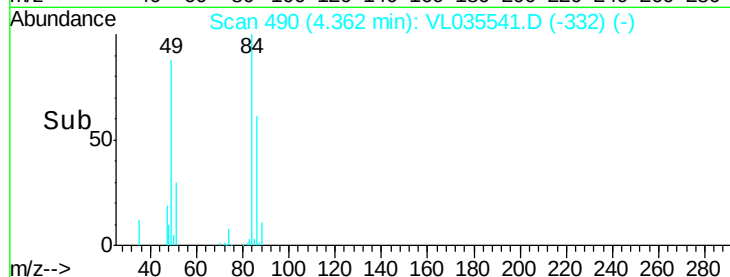
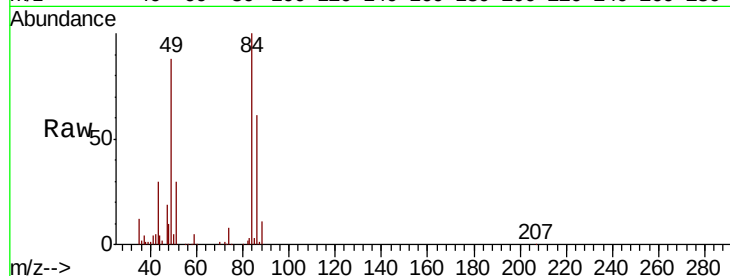
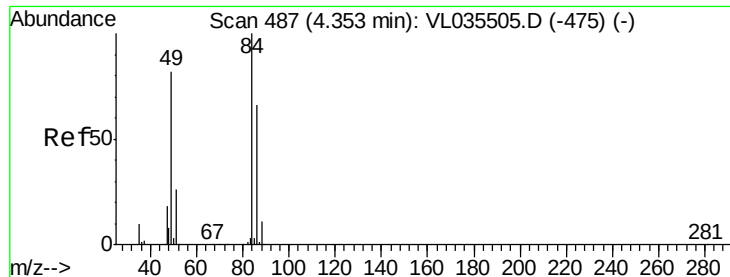
5000

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Time-->

3.94 3.96 3.98 4.00 4.02

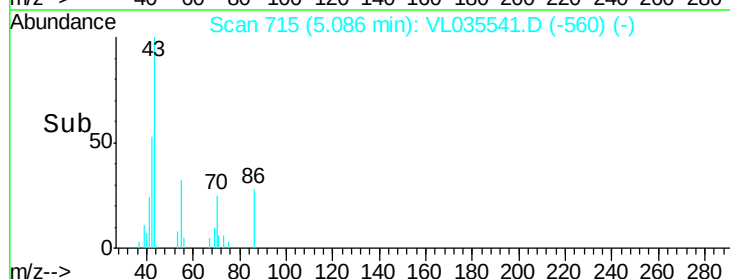
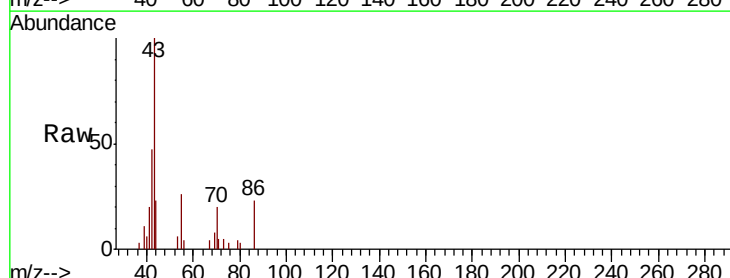
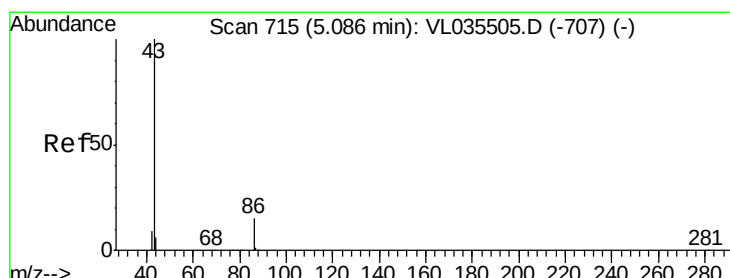
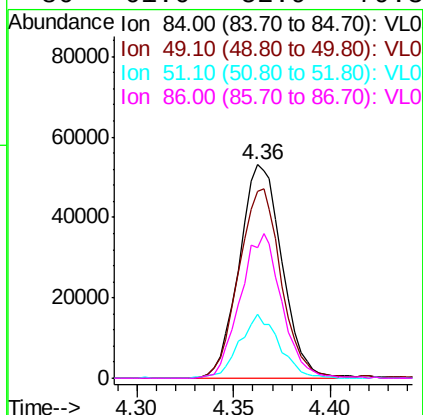




#20
Methylene Chloride
Concen: 0.941 ppbv
RT: 4.36 min Scan# 490
Delta R.T. 0.01 min
Lab File: VL035541.D
Acq: 3 Sep 2020 21:50

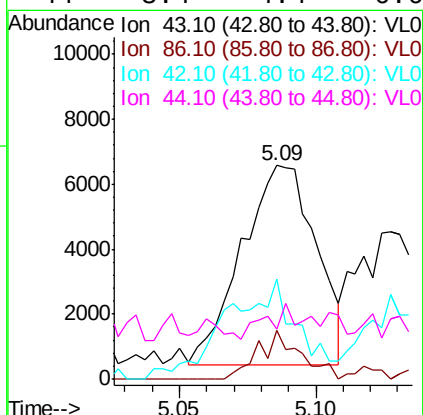
Instrument :
MSVOA_L
ClientSampleId :
IA-4DL

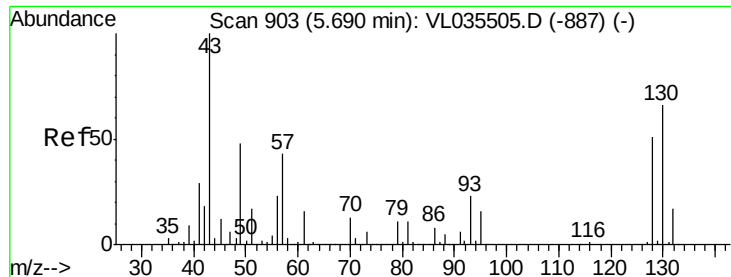
Tot Ion:	84	Resp:	81782
Ion	Ratio	Lower	Upper
84	100		
49	87.8	65.4	98.0
51	29.9	21.5	32.3
86	61.0	52.9	79.3



#23
Vinyl Acetate
Concen: 0.078 ppbv
RT: 5.09 min Scan# 715
Delta R.T. -0.00 min
Lab File: VL035541.D
Acq: 3 Sep 2020 21:50

Tgt Ion:	43	Resp:	11655
Ion	Ratio	Lower	Upper
43	100		
86	24.6	10.6	16.0#
42	41.9	7.5	11.3#
44	3.4	4.4	6.6#





#25

Ethyl Acetate

Concen: 0.148 ppbv

RT: 5.71 min Scan# 910

Delta R.T. 0.02 min

Lab File: VL035541.D

Acq: 3 Sep 2020 21:50

Instrument :

MSVOA_L

ClientSampleId :

IA-4DL

Tot Ion: 43 Resp: 30395

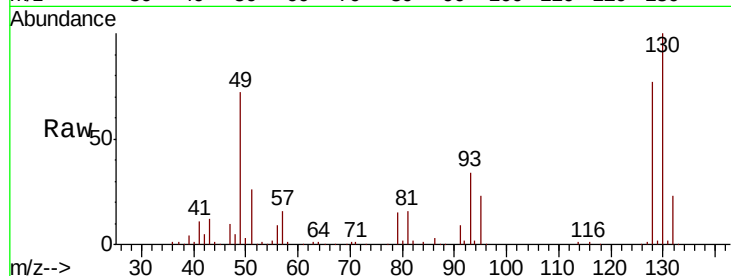
Ion Ratio Lower Upper

43 100

45 7.1 8.4 12.6#

61 5.7 10.6 16.0#

70 5.4 9.4 14.2#

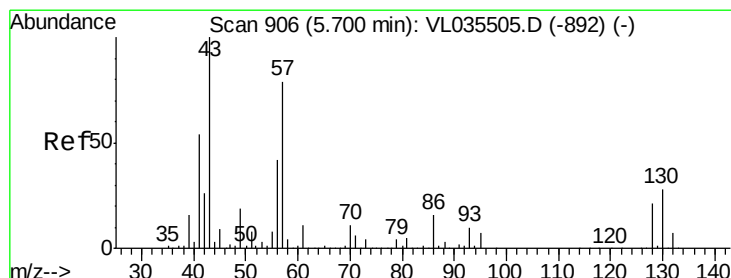
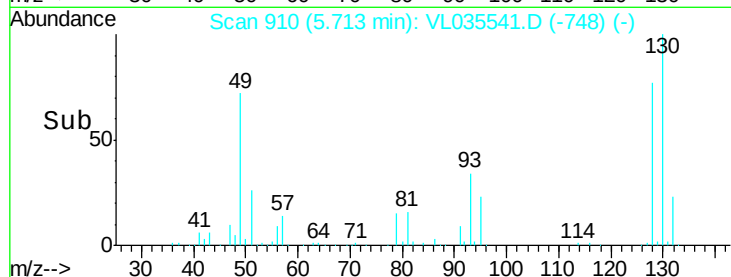
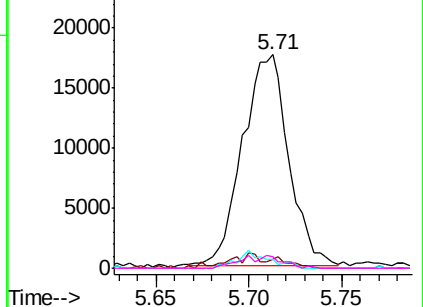


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.347 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.01 min

Lab File: VL035541.D

Acq: 3 Sep 2020 21:50

Tgt Ion: 57 Resp: 40494

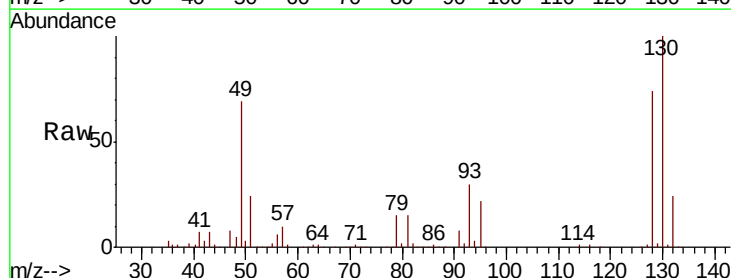
Ion Ratio Lower Upper

57 100

41 75.2 55.9 83.9

43 78.1 141.8 212.8#

56 56.7 41.8 62.8

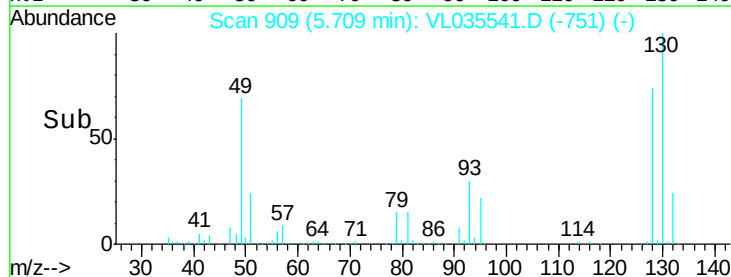
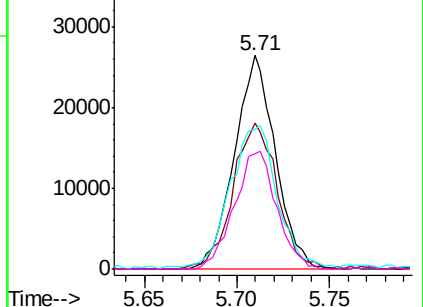


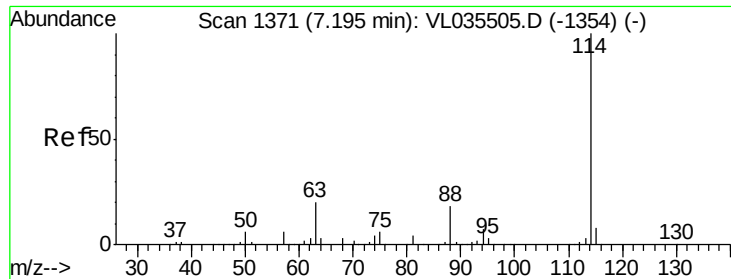
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

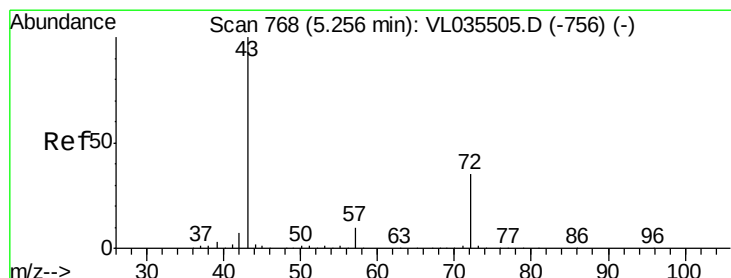
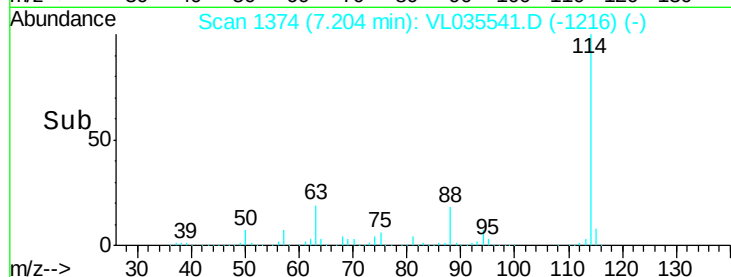
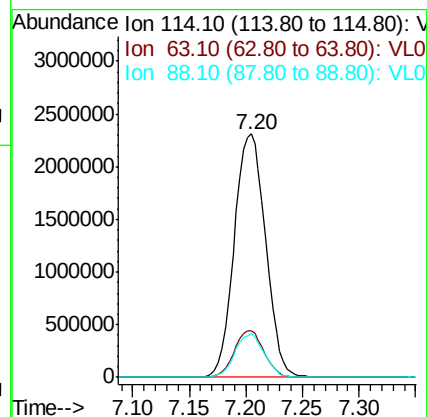
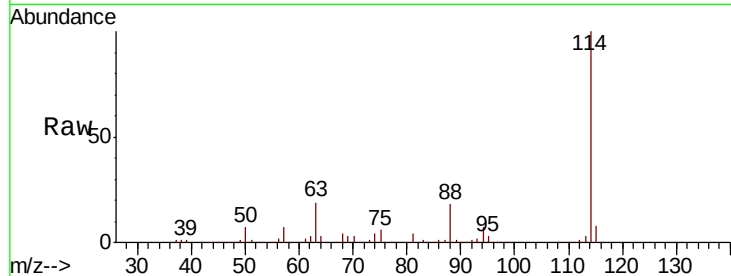




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. 0.01 min
 Lab File: VL035541.D
 Acq: 3 Sep 2020 21:50

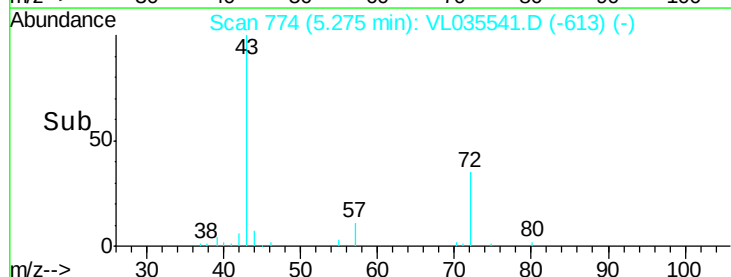
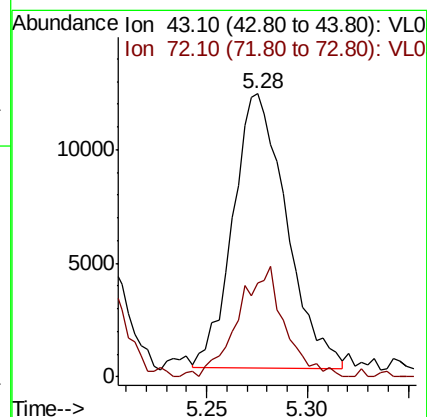
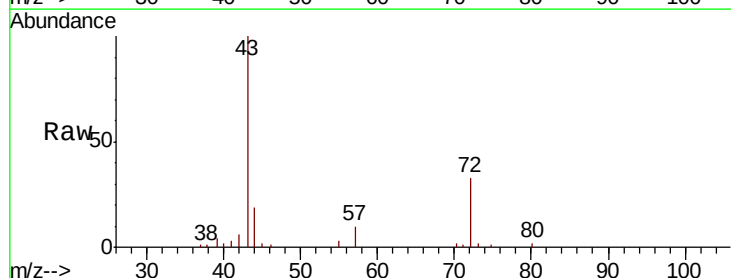
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DL

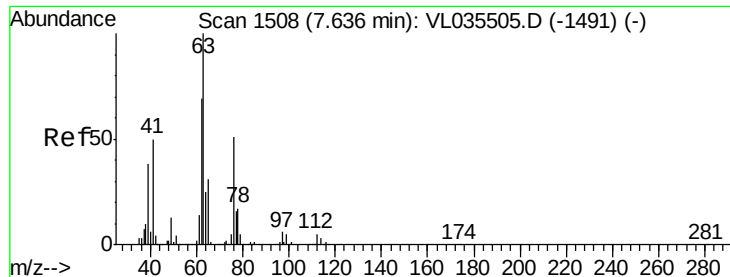
Tot Ion:114 Resp: 4453811
 Ion Ratio Lower Upper
 114 100
 63 18.3 14.7 22.1
 88 16.8 13.4 20.2



#34
 2-Butanone
 Concen: 0.169 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.02 min
 Lab File: VL035541.D
 Acq: 3 Sep 2020 21:50

Tgt Ion: 43 Resp: 22338
 Ion Ratio Lower Upper
 43 100
 72 34.9 27.7 41.5





#39

1,2-Dichloropropane

Concen: 8.340 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. -0.43 min

Lab File: VL035541.D

Acq: 3 Sep 2020 21:50

Instrument :

MSVOA_L

ClientSampled :

IA-4DL

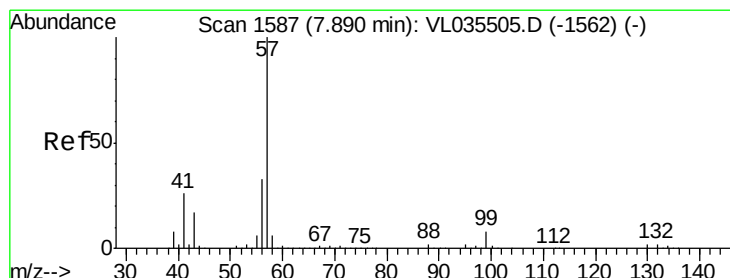
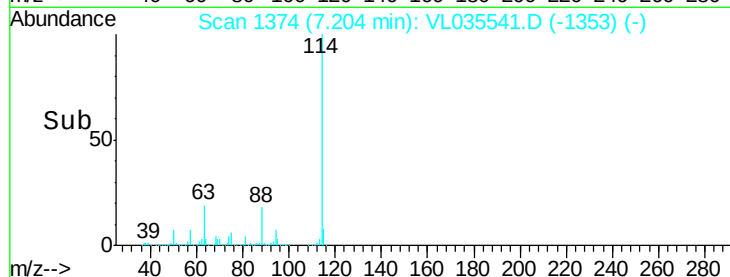
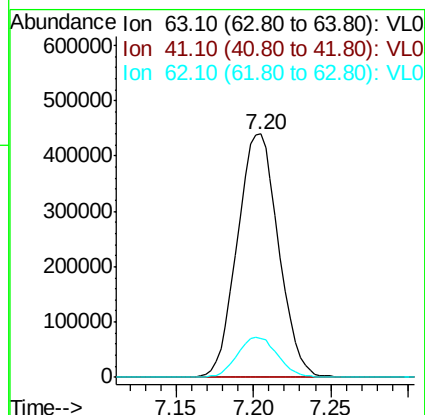
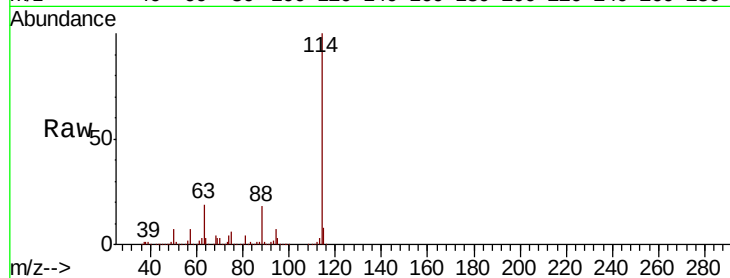
Tot Ion: 63 Resp: 812241

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

62 16.2 55.4 83.0#



#44

2,2,4-Trimethylpentane

Concen: 0.041 ppbv

RT: 7.90 min Scan# 1590

Delta R.T. 0.01 min

Lab File: VL035541.D

Acq: 3 Sep 2020 21:50

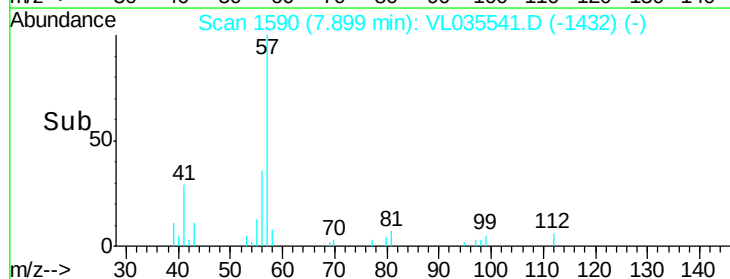
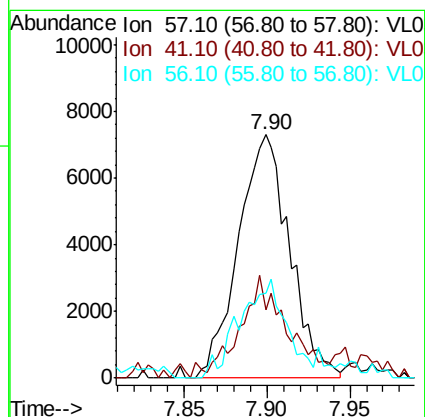
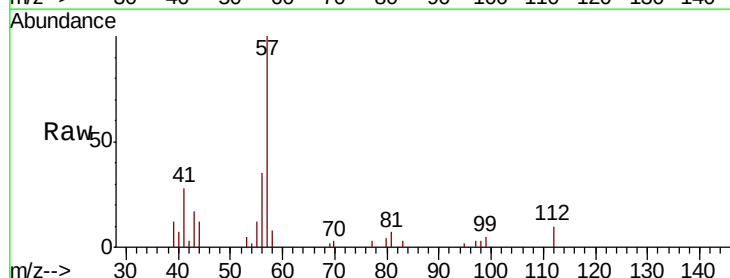
Tgt Ion: 57 Resp: 15740

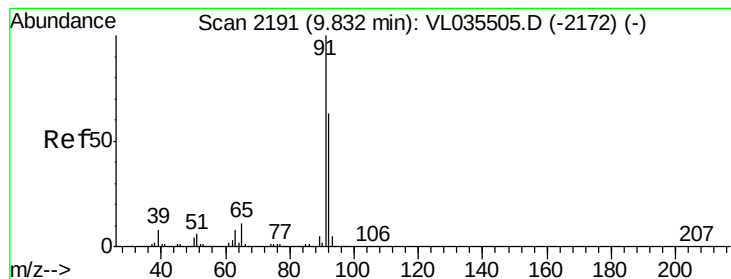
Ion Ratio Lower Upper

57 100

41 48.1 20.5 30.7#

56 43.3 25.3 37.9#





#53

Toluene

Concen: 0.631 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL035541.D

Acq: 3 Sep 2020 21:50

Instrument :

MSVOA_L

ClientSampleId :

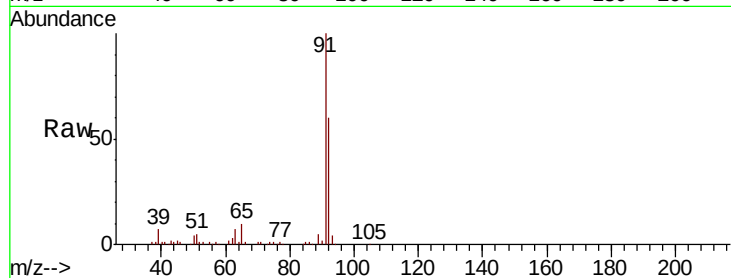
IA-4DL

Tot Ion: 91 Resp: 228592

Ion Ratio Lower Upper

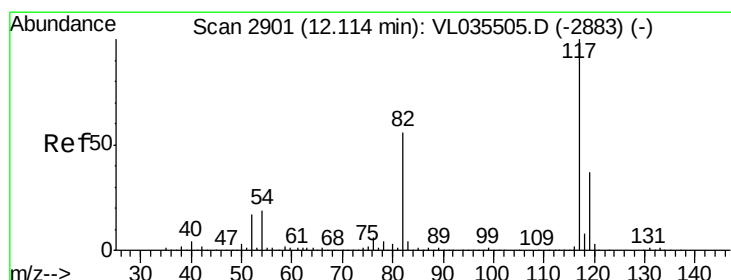
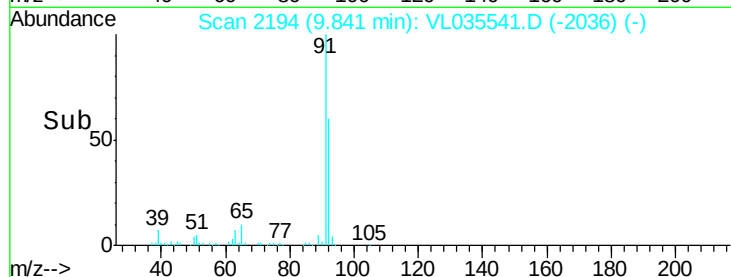
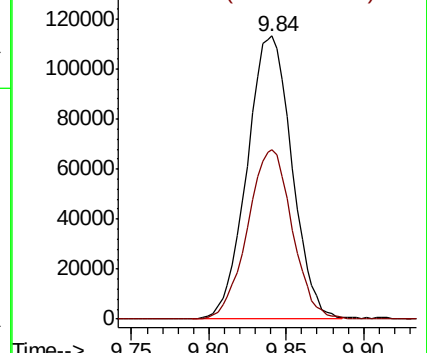
91 100

92 59.7 49.8 74.8



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: VL035541.D

Acq: 3 Sep 2020 21:50

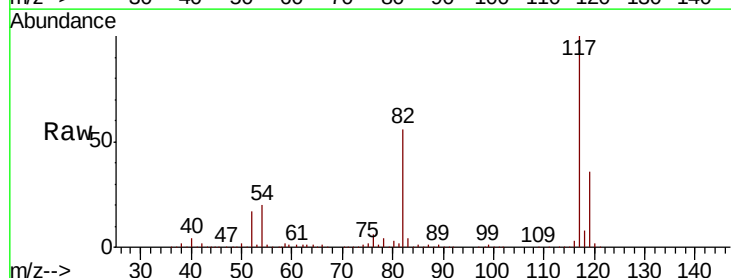
Tgt Ion: 117 Resp: 4424175

Ion Ratio Lower Upper

117 100

82 55.2 41.6 62.4

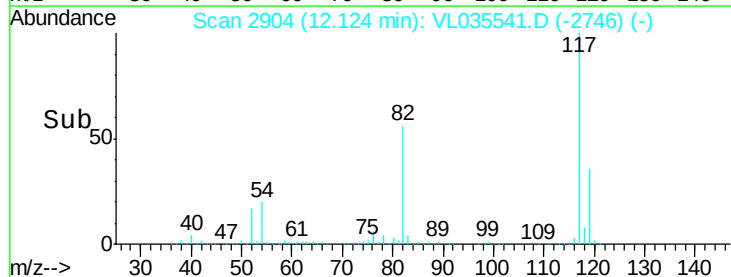
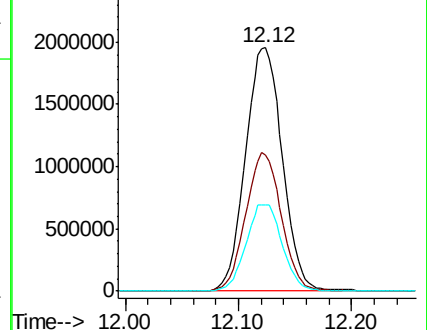
119 35.1 29.3 43.9

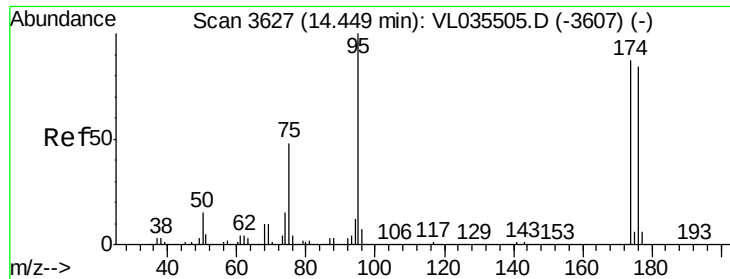


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

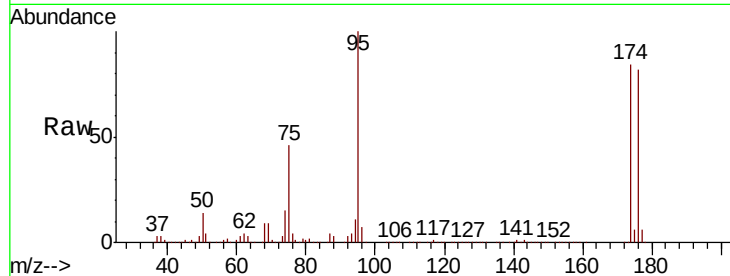




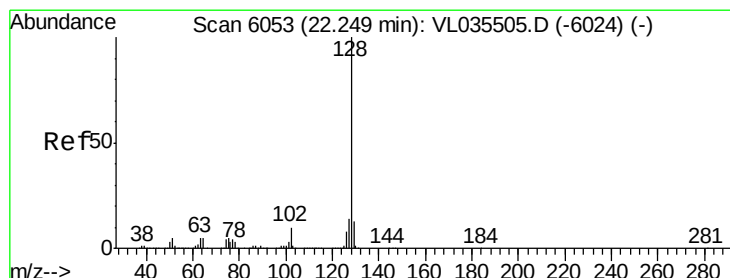
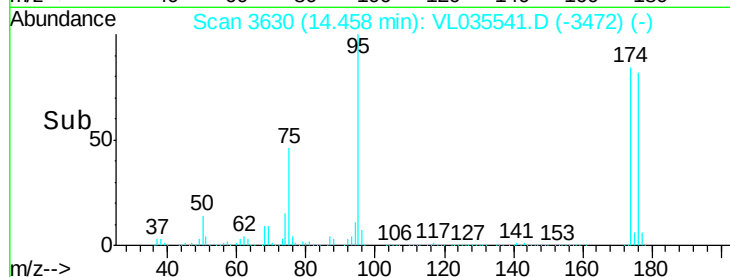
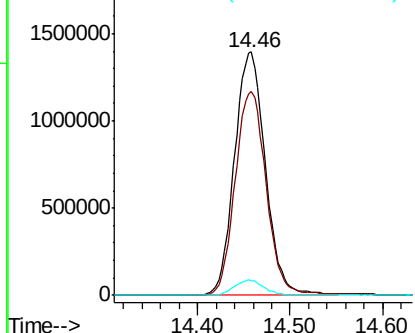
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.282 ppbv
 RT: 14.46 min Scan# 3630
 Delta R.T. 0.01 min
 Lab File: VL035541.D
 Acq: 3 Sep 2020 21:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DL

Tot Ion: 95 Resp: 3230578
 Ion Ratio Lower Upper
 95 100
 174 85.4 69.6 104.4
 175 6.2 5.1 7.7

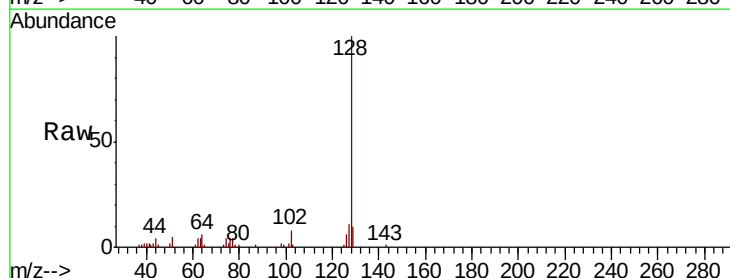


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#79
 Naphthalene
 Concen: 0.149 ppbv
 RT: 22.27 min Scan# 6060
 Delta R.T. 0.02 min
 Lab File: VL035541.D
 Acq: 3 Sep 2020 21:50

Tgt Ion: 128 Resp: 81854
 Ion Ratio Lower Upper
 128 100
 127 10.9 11.4 17.2#
 129 9.8 10.5 15.7#



Abundance Ion 128.10 (127.80 to 128.80): V
 Ion 127.10 (126.80 to 127.80): V
 Ion 129.10 (128.80 to 129.80): V

