

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035539.D
 Acq On : 3 Sep 2020 20:30
 Operator : SY/AP
 Sample : L3898-03DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

Quant Time: Sep 04 06:47:52 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	1027619	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4367403	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4363108	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3149656	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

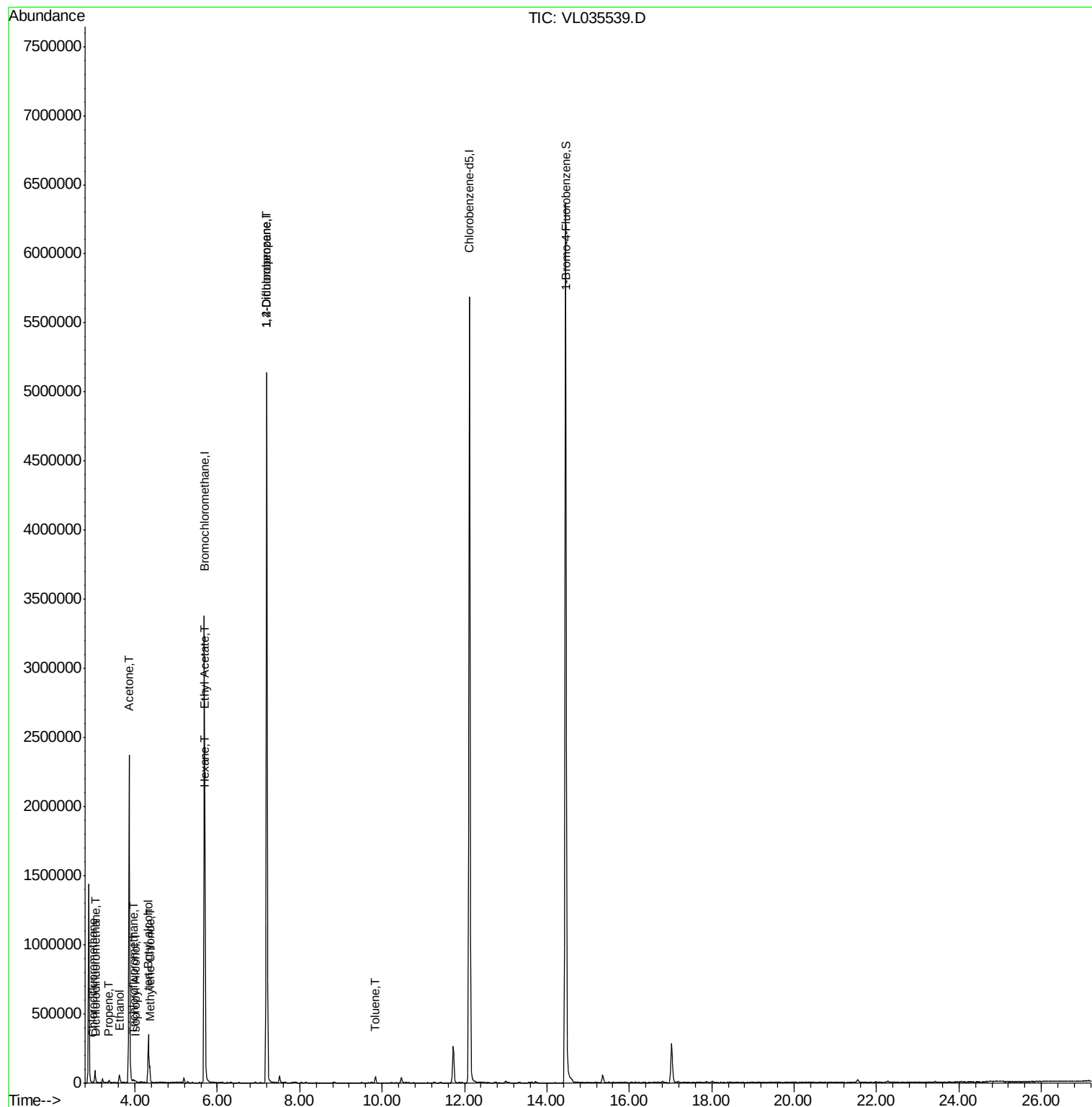
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	5891	0.033	ppbv #	76
3) Chlorodifluoromethane	2.97	51	5548	0.049	ppbv #	74
9) Propene	3.37	41	3438	0.078	ppbv	86
11) Trichlorofluoromethane	3.96	101	11178	0.043	ppbv	87
13) Ethanol	3.62	45	61472	5.659	ppbv	96
15) Acetone	3.86	43	2272372	20.050	ppbv	99
17) tert-Butyl alcohol	4.32	59	20127	0.146	ppbv #	72
19) Isopropyl Alcohol	4.00	45	10352	0.153	ppbv #	93
20) Methylene Chloride	4.36	84	47450	0.562	ppbv	96
25) Ethyl Acetate	5.71	43	14819	0.074	ppbv #	82
26) Hexane	5.71	57	18841	0.166	ppbv #	54
39) 1,2-Dichloropropane	7.20	63	787985	8.251	ppbv #	32
53) Toluene	9.84	91	16364	0.046	ppbv #	19

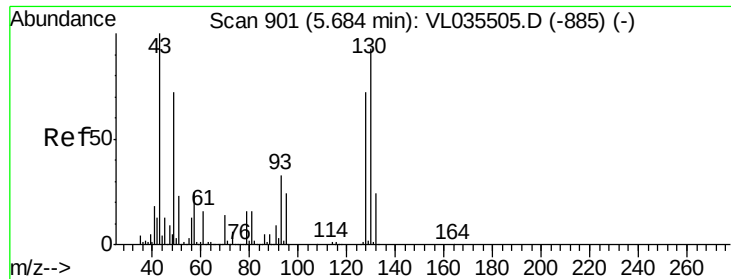
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
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QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL035539.D

Acq: 3 Sep 2020 20:30

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

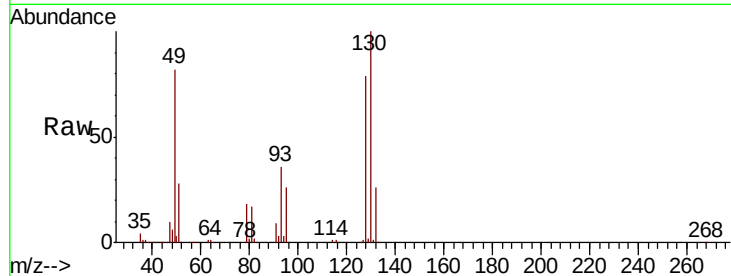
Tot Ion: 49 Resp: 1027619

Ion Ratio Lower Upper

49 100

128 97.0 50.0 150.1

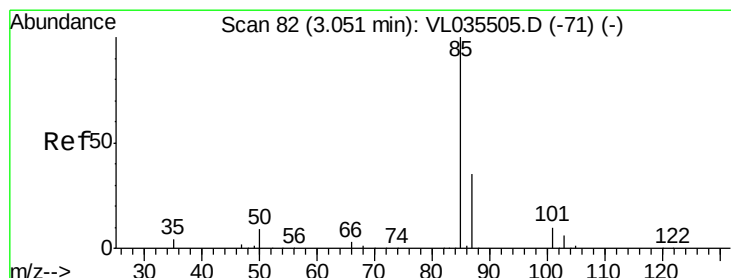
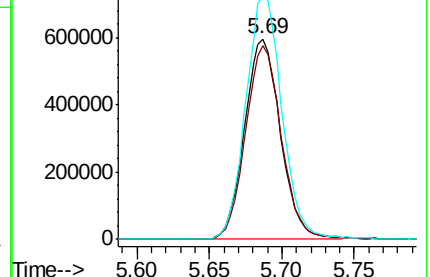
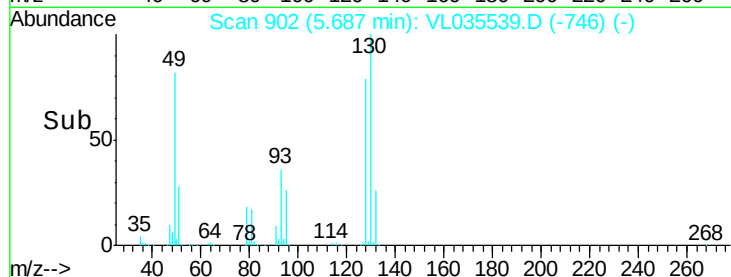
130 124.1 64.4 193.2



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: 0.033 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL035539.D

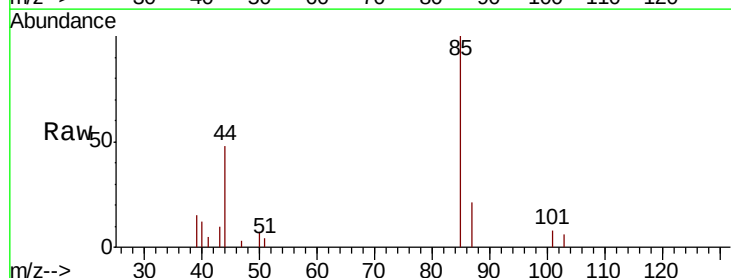
Acq: 3 Sep 2020 20:30

Tgt Ion: 85 Resp: 5891

Ion Ratio Lower Upper

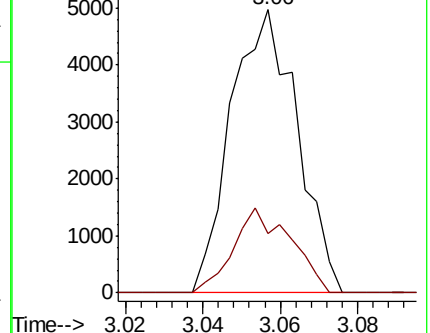
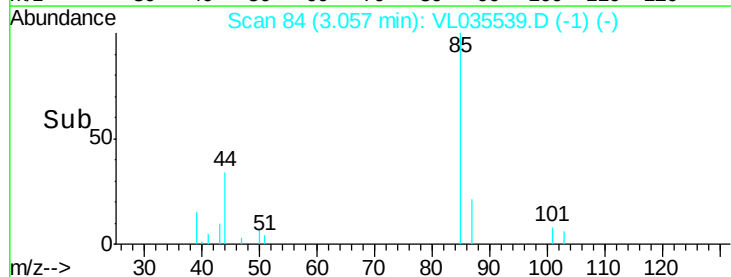
85 100

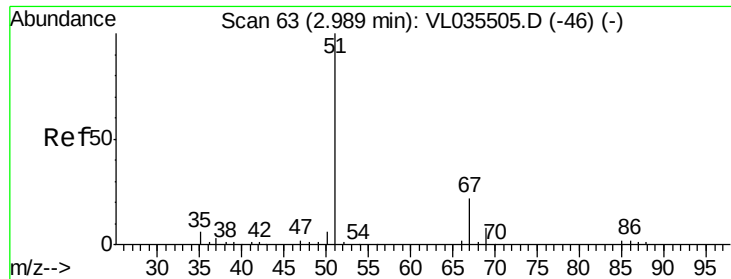
87 20.9 28.0 42.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.049 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL035539.D

Acq: 3 Sep 2020 20:30

Instrument :

MSVOA_L

ClientSampleId :

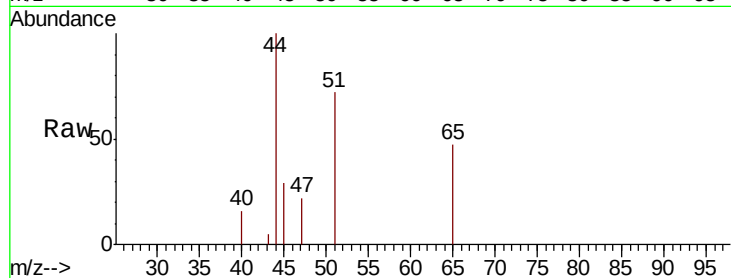
IA-3DL

Tot Ion: 51 Resp: 5548

Ion Ratio Lower Upper

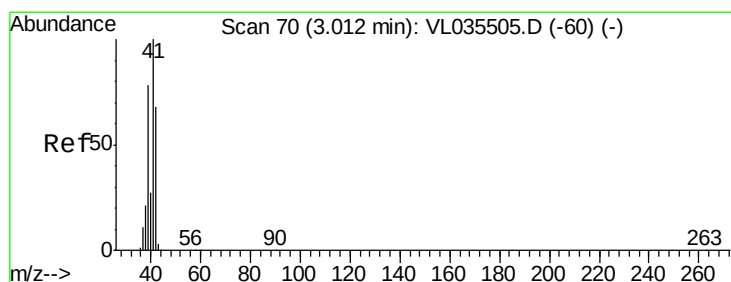
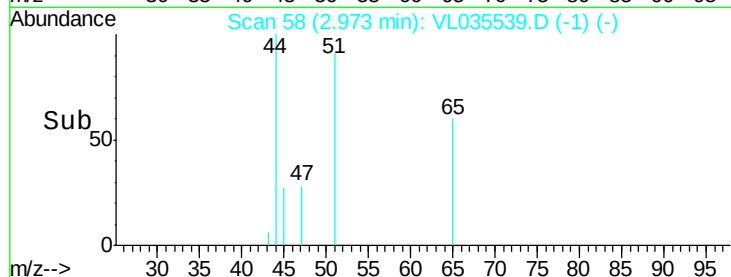
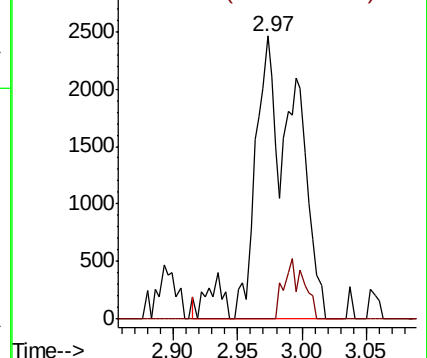
51 100

67 10.1 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.078 ppbv

RT: 3.37 min Scan# 180

Delta R.T. 0.35 min

Lab File: VL035539.D

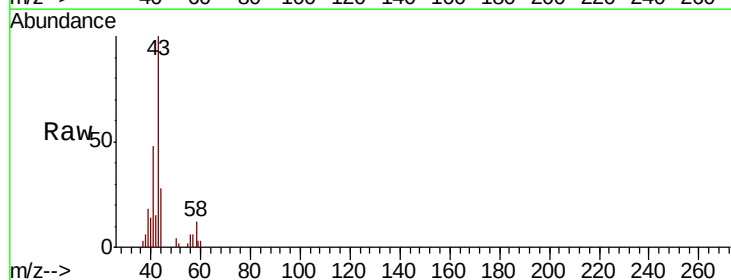
Acq: 3 Sep 2020 20:30

Tgt Ion: 41 Resp: 3438

Ion Ratio Lower Upper

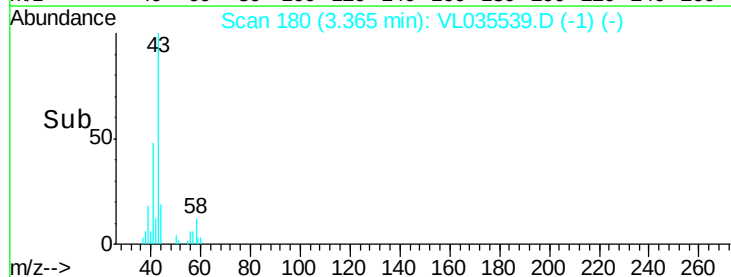
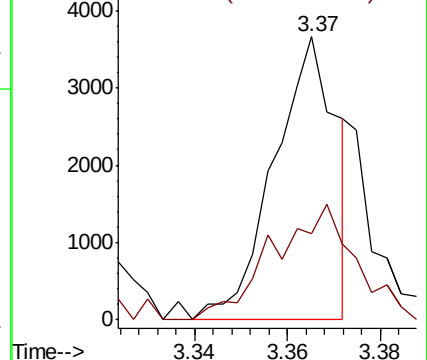
41 100

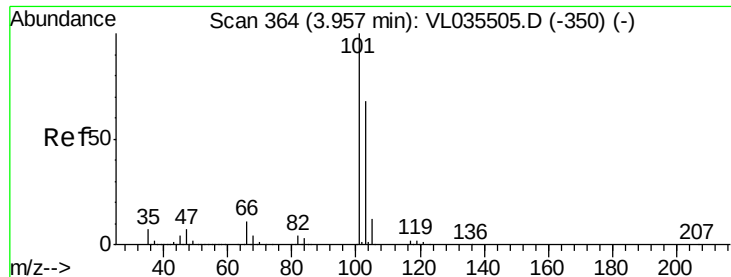
42 59.3 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.043 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL035539.D

Acq: 3 Sep 2020 20:30

Instrument :

MSVOA_L

ClientSampleId :

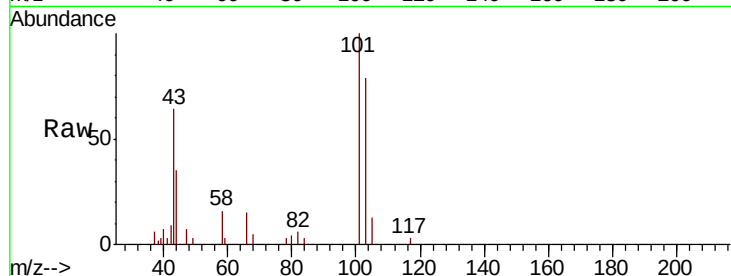
IA-3DL

Tot Ion:101 Resp: 11178

Ion Ratio Lower Upper

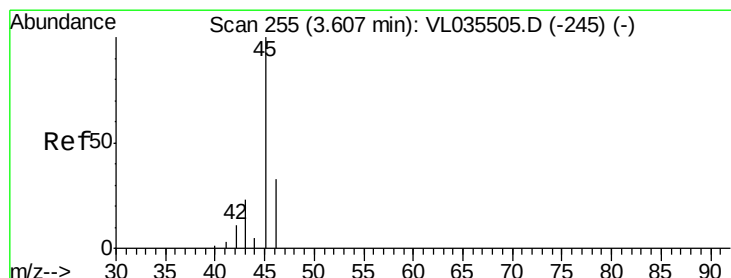
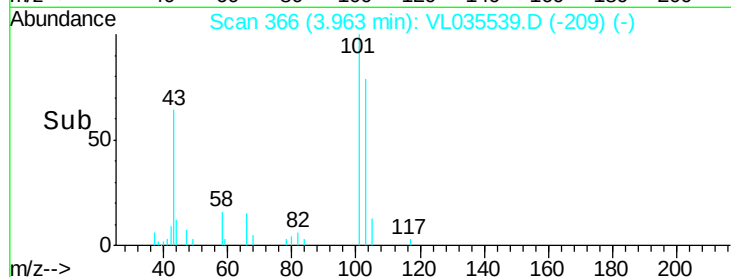
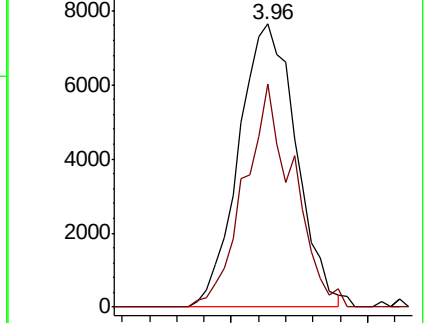
101 100

103 78.8 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 5.659 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL035539.D

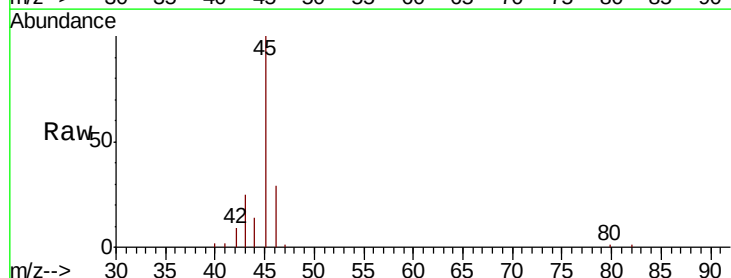
Acq: 3 Sep 2020 20:30

Tgt Ion: 45 Resp: 61472

Ion Ratio Lower Upper

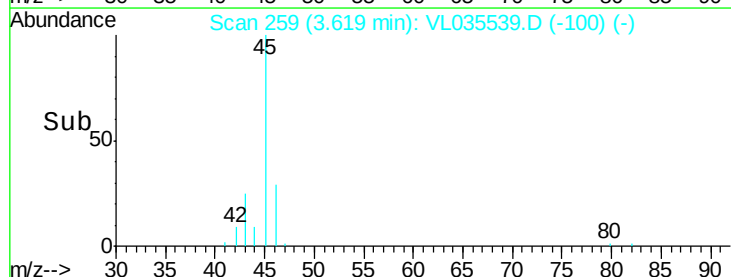
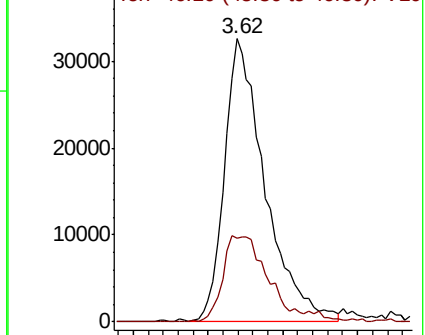
45 100

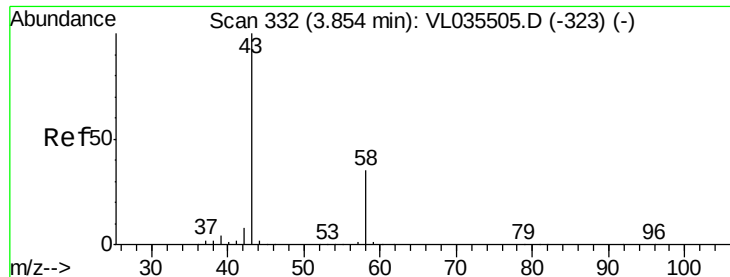
46 35.3 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 20.050 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL035539.D

Acq: 3 Sep 2020 20:30

Instrument :

MSVOA_L

ClientSampleId :

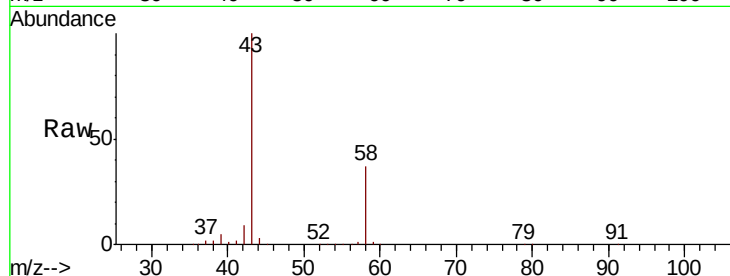
IA-3DL

Tot Ion: 43 Resp: 2272372

Ion Ratio Lower Upper

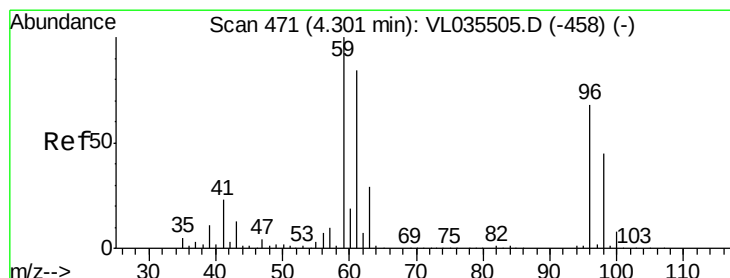
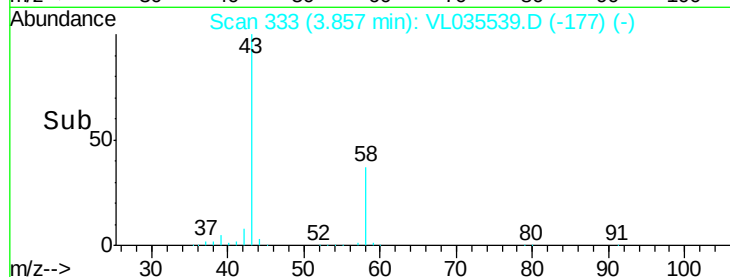
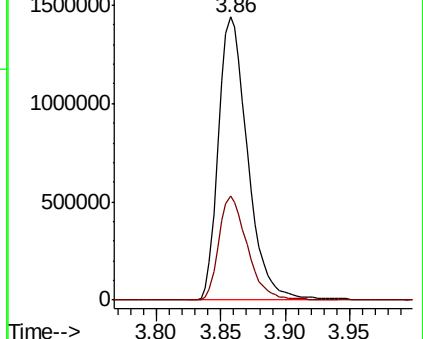
43 100

58 36.1 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.146 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.02 min

Lab File: VL035539.D

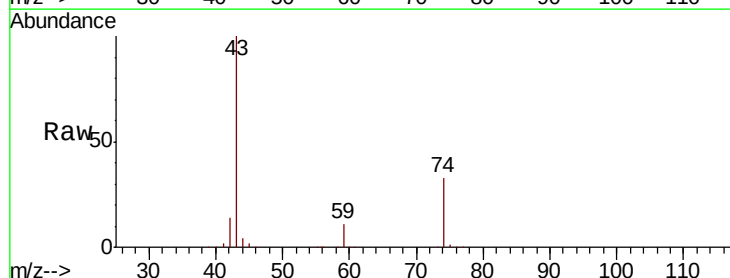
Acq: 3 Sep 2020 20:30

Tgt Ion: 59 Resp: 20127

Ion Ratio Lower Upper

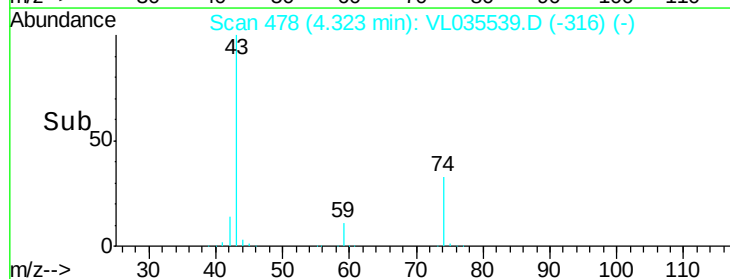
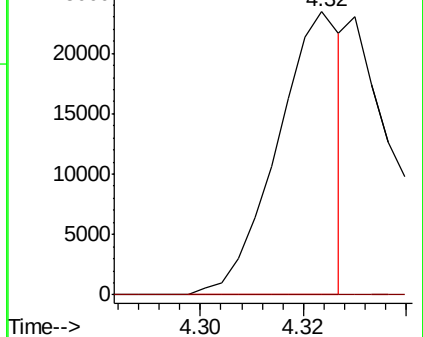
59 100

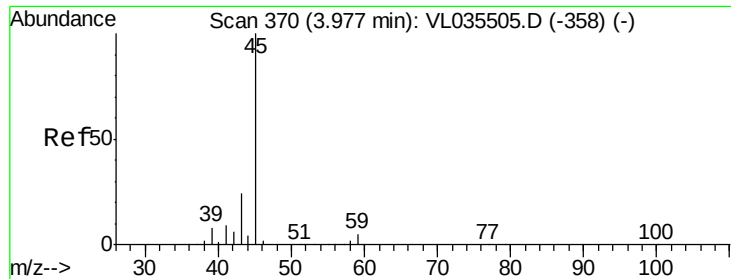
57 0.0 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

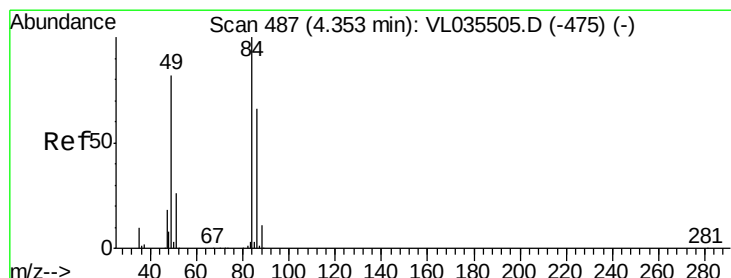
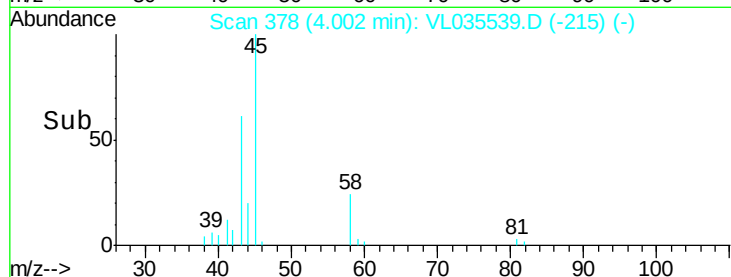
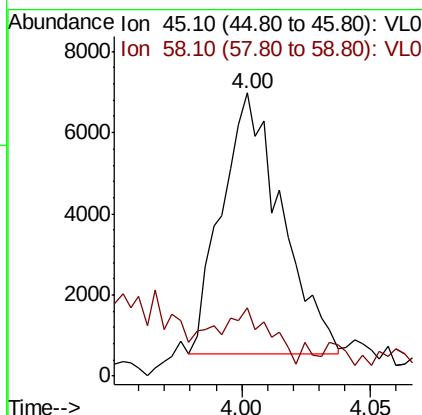
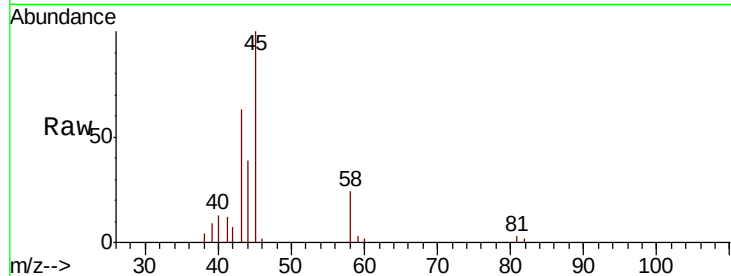




#19
Isopropyl Alcohol
Concen: 0.153 ppbv
RT: 4.00 min Scan# 378
Delta R.T. 0.03 min
Lab File: VL035539.D
Acq: 3 Sep 2020 20:30

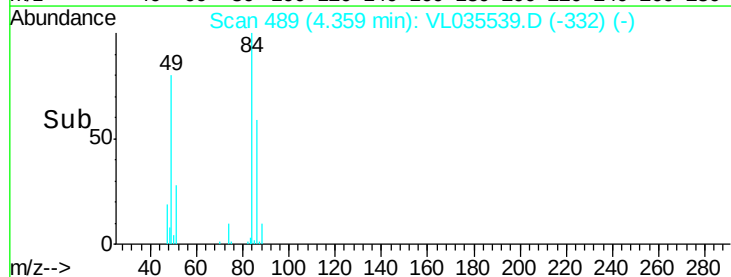
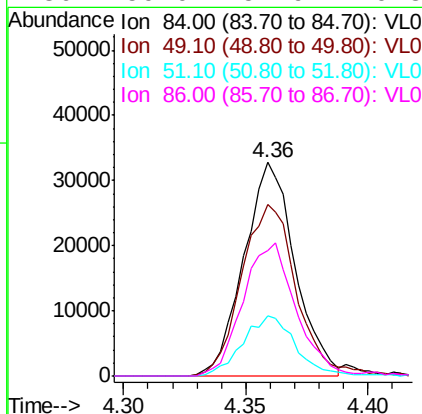
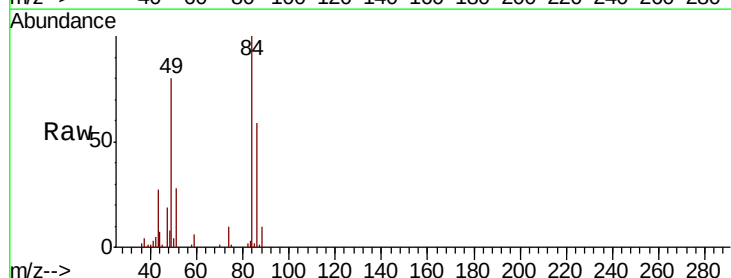
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

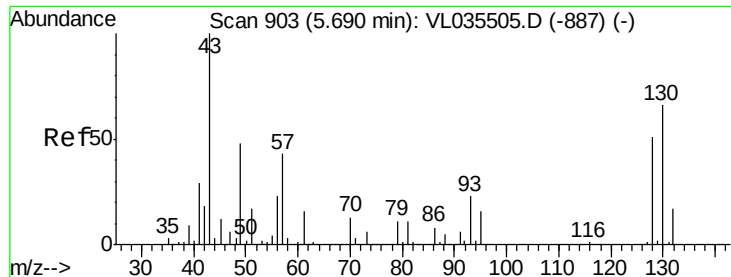
Tot Ion: 45 Resp: 10352
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#



#20
Methylene Chloride
Concen: 0.562 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.01 min
Lab File: VL035539.D
Acq: 3 Sep 2020 20:30

Tgt Ion: 84 Resp: 47450
Ion Ratio Lower Upper
84 100
49 80.5 65.4 98.0
51 27.9 21.5 32.3
86 59.0 52.9 79.3





#25

Ethyl Acetate

Concen: 0.074 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.02 min

Lab File: VL035539.D

Acq: 3 Sep 2020 20:30

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

Tot Ion: 43 Resp: 14819

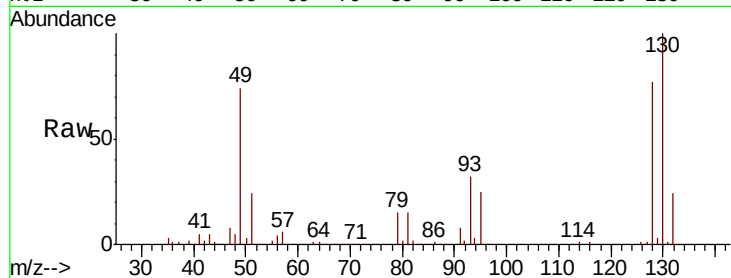
Ion Ratio Lower Upper

43 100

45 7.7 8.4 12.6#

61 3.3 10.6 16.0#

70 4.8 9.4 14.2#



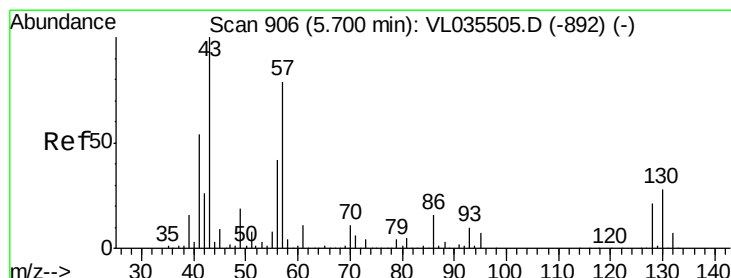
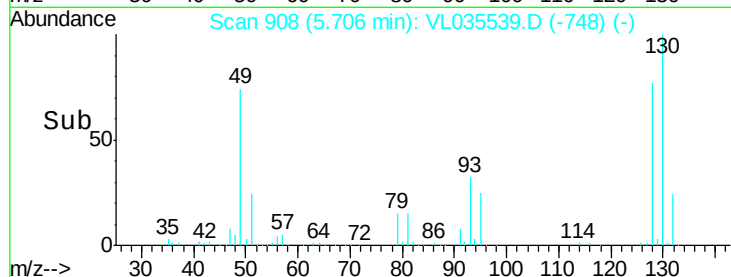
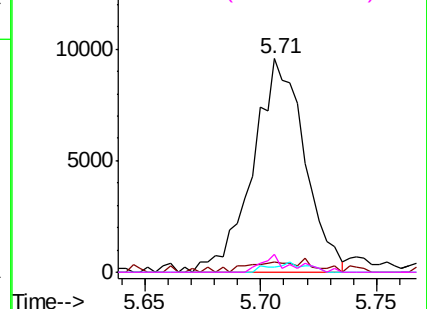
Abundance

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: 0.166 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.01 min

Lab File: VL035539.D

Acq: 3 Sep 2020 20:30

Tgt Ion: 57 Resp: 18841

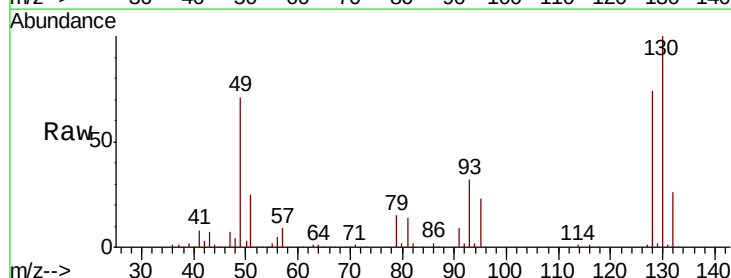
Ion Ratio Lower Upper

57 100

41 86.2 55.9 83.9#

43 84.0 141.8 212.8#

56 62.4 41.8 62.8



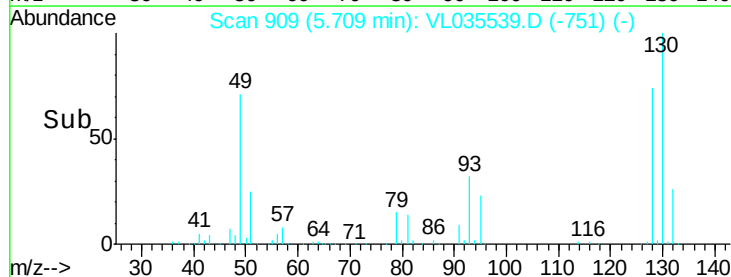
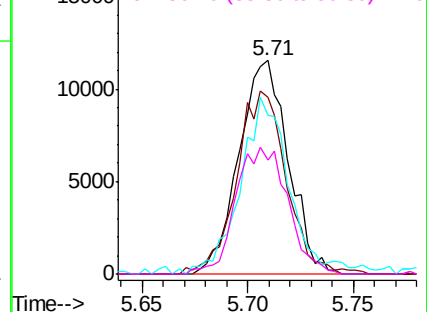
Abundance

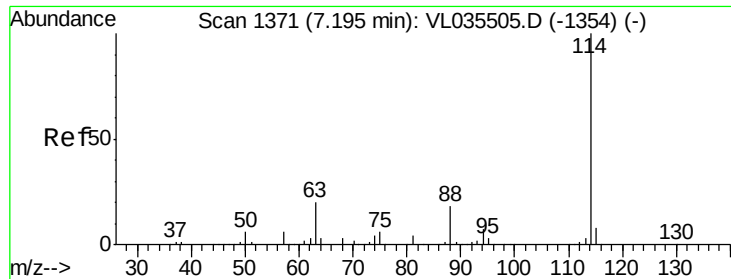
Ion 57.10 (56.80 to 57.80): VL0

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

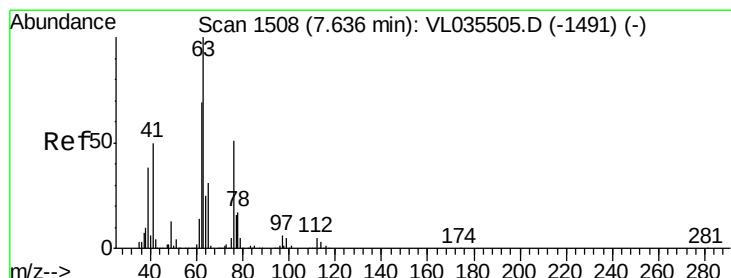
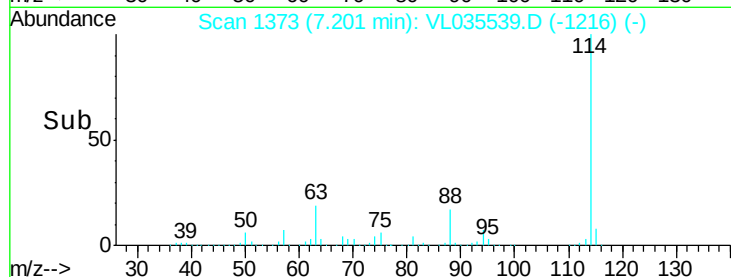
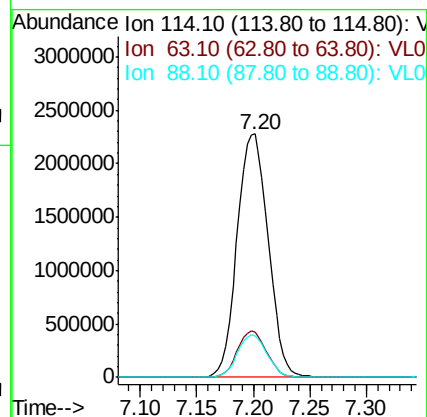
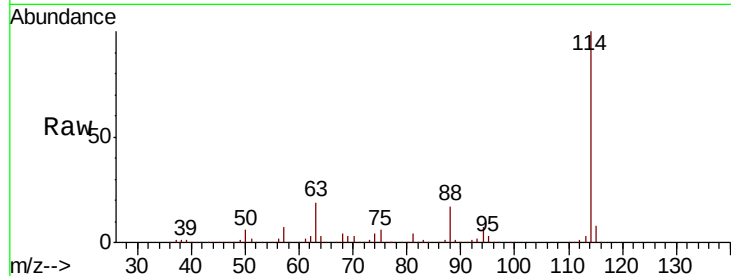




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.01 min
 Lab File: VL035539.D
 Acq: 3 Sep 2020 20:30

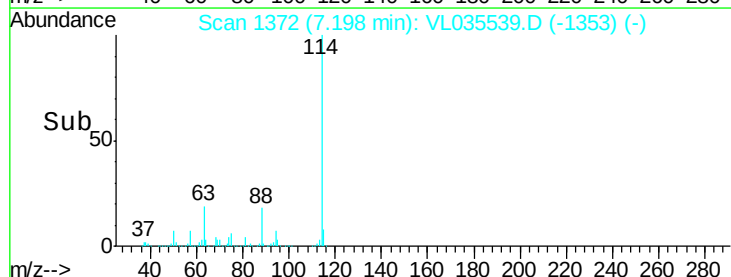
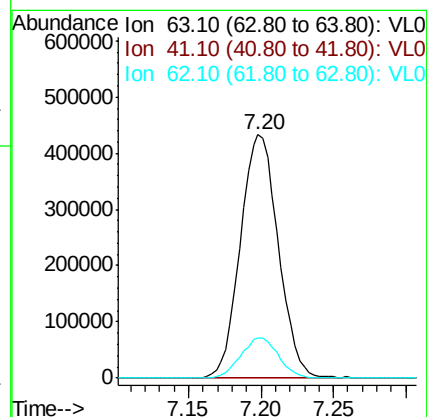
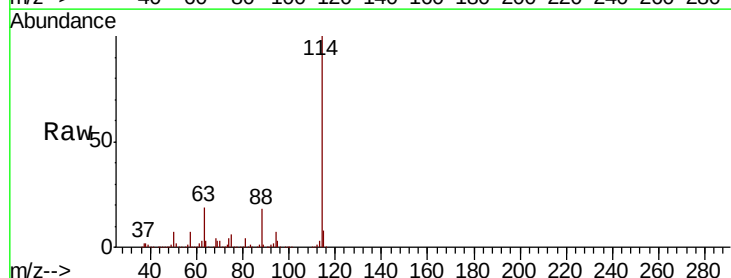
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

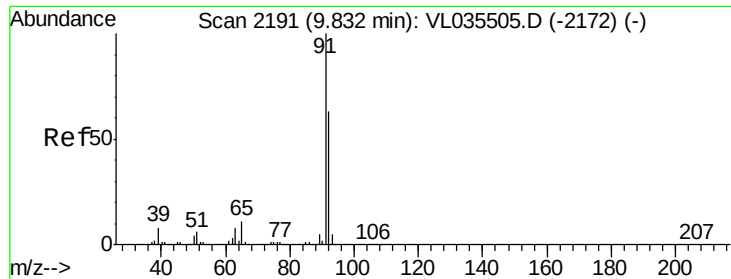
Tot Ion:114 Resp: 4367403
 Ion Ratio Lower Upper
 114 100
 63 18.1 14.7 22.1
 88 16.6 13.4 20.2



#39
 1,2-Dichloropropane
 Concen: 8.251 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.44 min
 Lab File: VL035539.D
 Acq: 3 Sep 2020 20:30

Tgt Ion: 63 Resp: 787985
 Ion Ratio Lower Upper
 63 100
 41 0.0 40.0 60.0#
 62 16.7 55.4 83.0#





#53

Toluene

Concen: 0.046 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL035539.D

Acq: 3 Sep 2020 20:30

Instrument :

MSVOA_L

ClientSampleId :

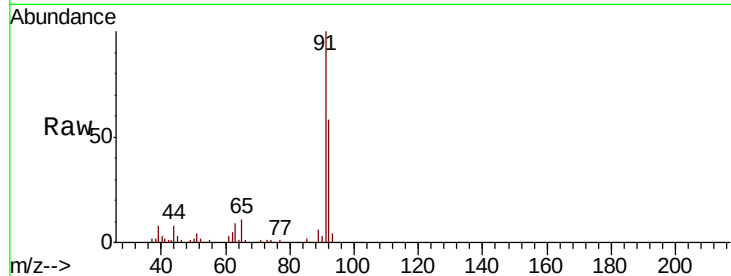
IA-3DL

Tot Ion: 91 Resp: 16364

Ion Ratio Lower Upper

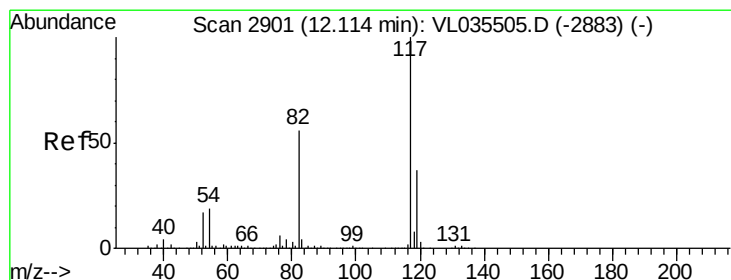
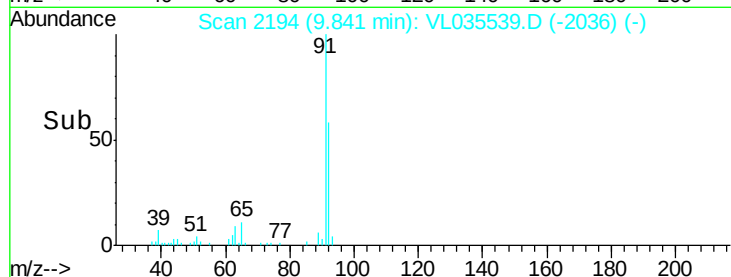
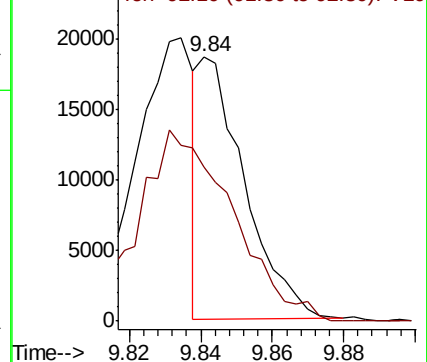
91 100

92 0.0 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# 2903

Delta R.T. 0.01 min

Lab File: VL035539.D

Acq: 3 Sep 2020 20:30

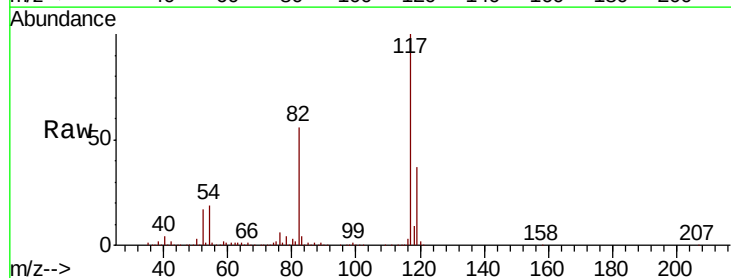
Tgt Ion: 117 Resp: 4363108

Ion Ratio Lower Upper

117 100

82 54.7 41.6 62.4

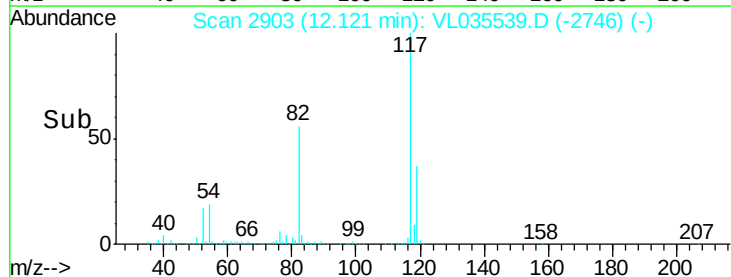
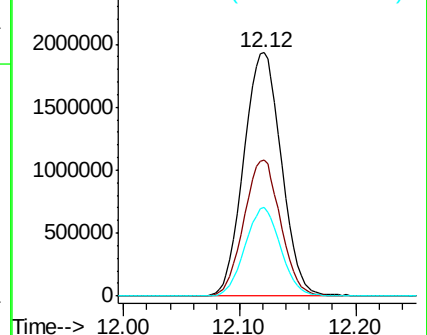
119 34.8 29.3 43.9

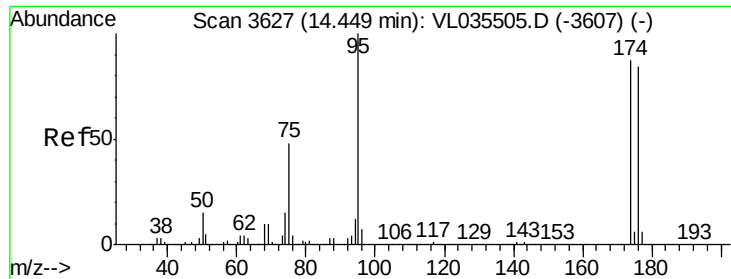


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

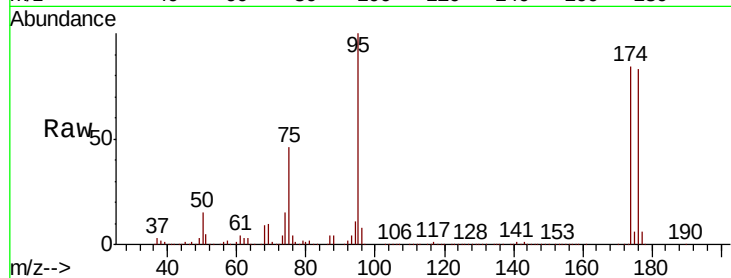




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.165 ppbv
 RT: 14.45 min Scan# 3628
 Delta R.T. 0.00 min
 Lab File: VL035539.D
 Acq: 3 Sep 2020 20:30

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

Tot Ion: 95 Resp: 3149656
 Ion Ratio Lower Upper
 95 100
 174 87.1 69.6 104.4
 175 6.3 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

