

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036084.D
 Acq On : 8 Dec 2020 3:44
 Operator : SY/AP
 Sample : L4948-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6BDL

Quant Time: Dec 08 08:41:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1278296	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2808399	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2502728	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2093803	10.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

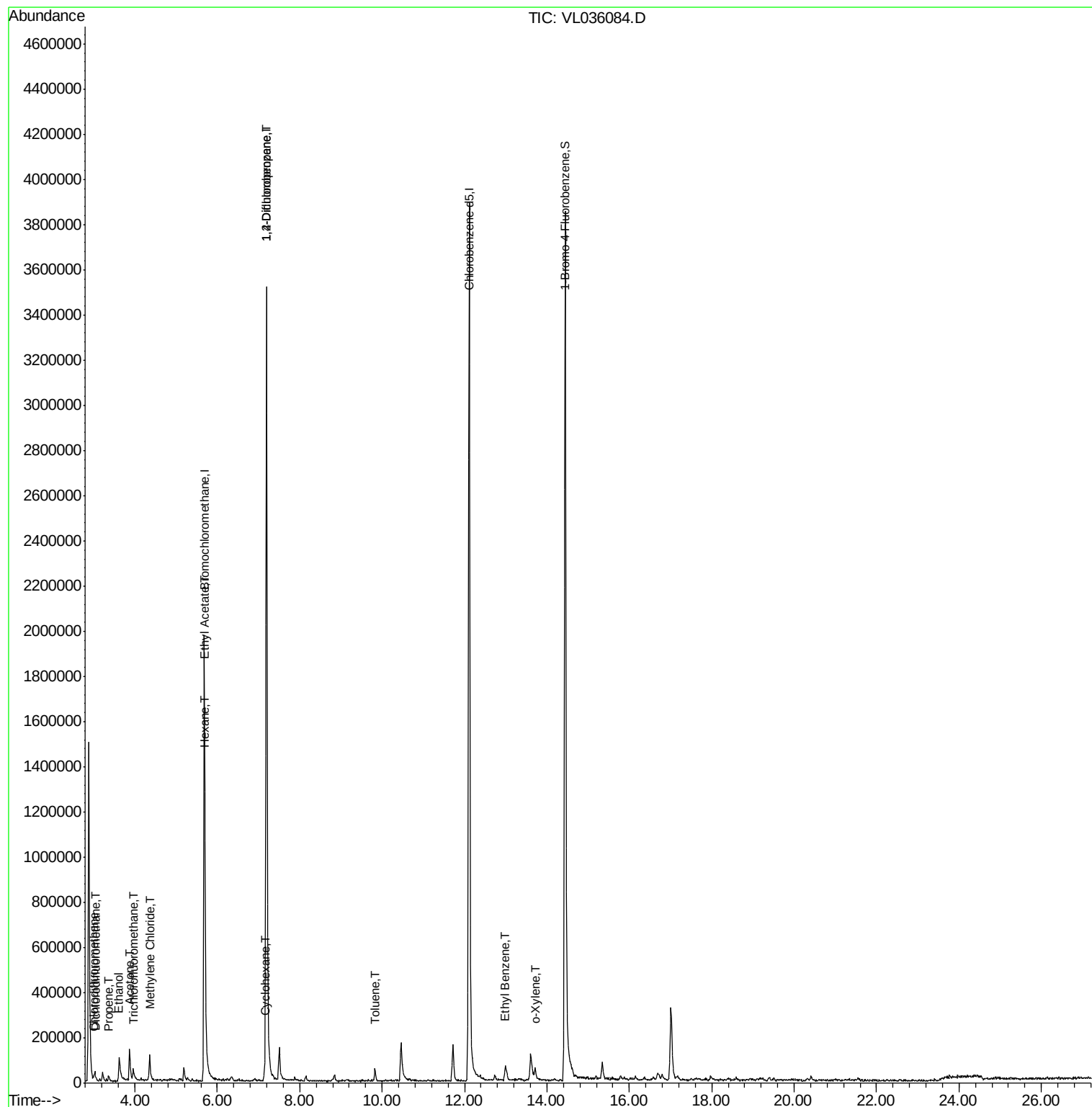
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	8397	0.056	ppbv #	68
3) Chlorodifluoromethane	3.00	51	20284	0.139	ppbv	92
9) Propene	3.36	41	5614	0.077	ppbv	95
11) Trichlorofluoromethane	3.96	101	24309	0.139	ppbv	87
13) Ethanol	3.61	45	93969	9.330	ppbv #	29
15) Acetone	3.87	43	161957	1.054	ppbv #	85
20) Methylene Chloride	4.36	84	25868	0.411	ppbv	90
25) Ethyl Acetate	5.70	43	25951	0.085	ppbv #	87
26) Hexane	5.71	57	26442	0.191	ppbv #	51
30) Cyclohexane	7.15	84	14893	0.147	ppbv #	15
39) 1,2-Dichloropropane	7.19	63	821372	8.739	ppbv #	23
53) Toluene	9.83	91	36429	0.136	ppbv	91
58) Ethyl Benzene	12.98	91	18104	0.053	ppbv	96
60) o-Xylene	13.72	91	15683	0.058	ppbv #	51

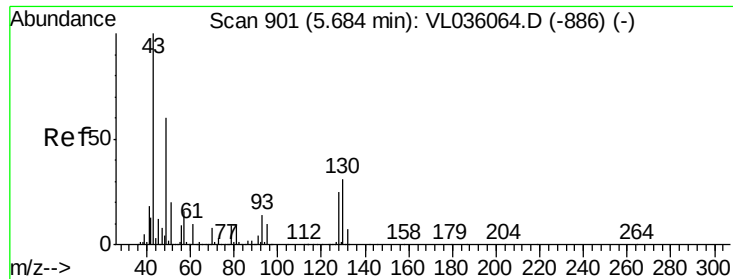
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 08 08:41:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL036084.D

Acq: 8 Dec 2020 3:44

Instrument :

MSVOA_L

ClientSampled :

IA-6BDL

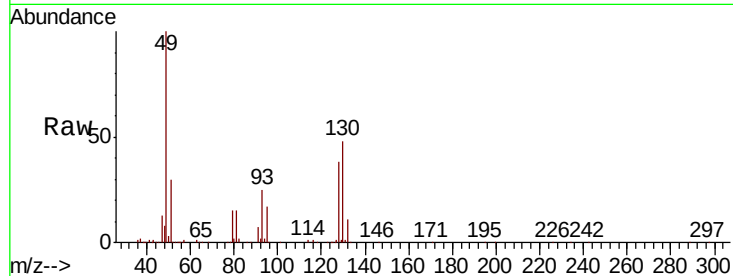
Tot Ion: 49 Resp: 1278296

Ion Ratio Lower Upper

49 100

128 39.2 21.1 63.1

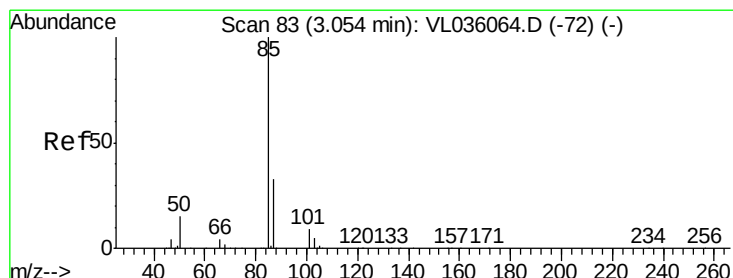
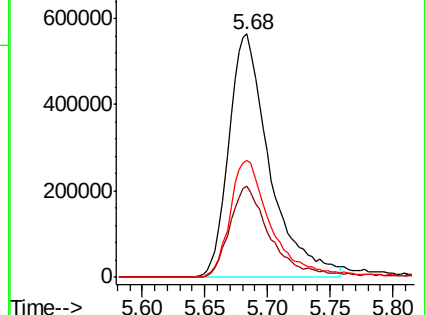
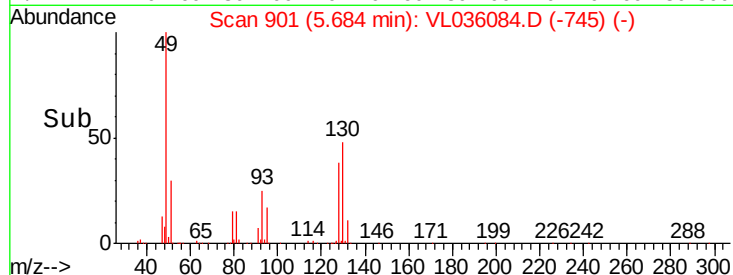
130 50.0 27.1 81.3



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: 0.056 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL036084.D

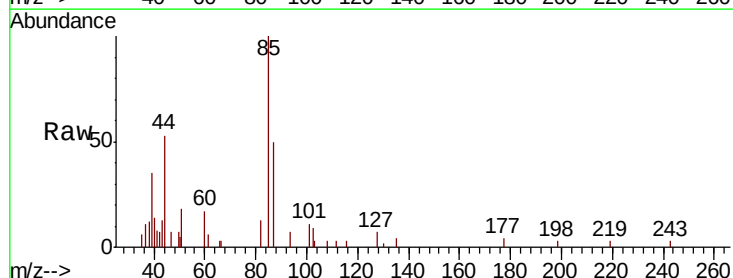
Acq: 8 Dec 2020 3:44

Tgt Ion: 85 Resp: 8397

Ion Ratio Lower Upper

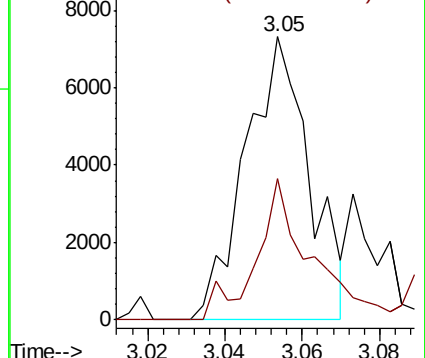
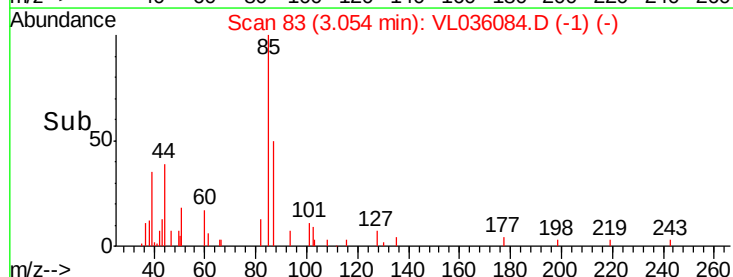
85 100

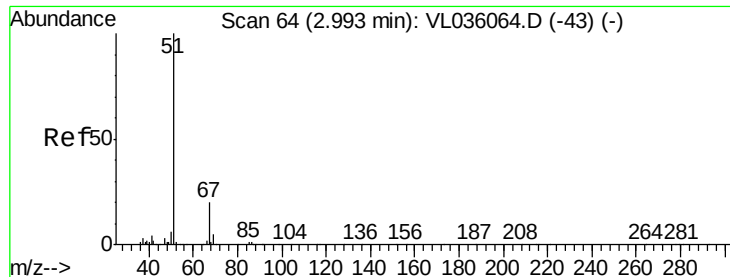
87 51.3 26.5 39.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

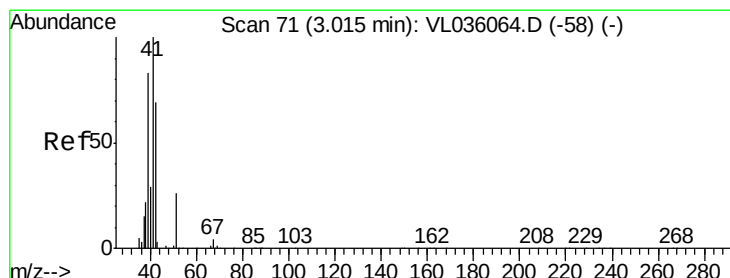
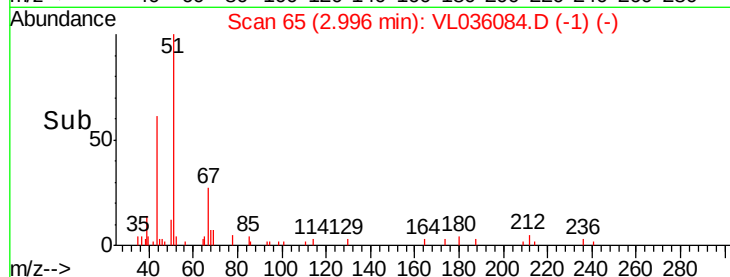
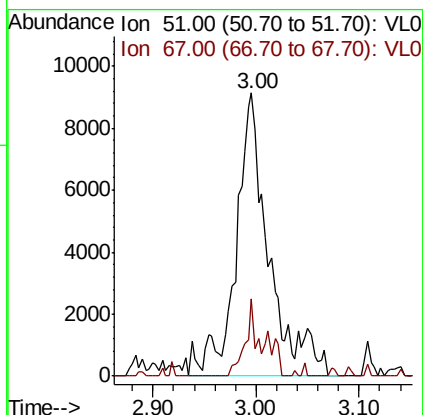
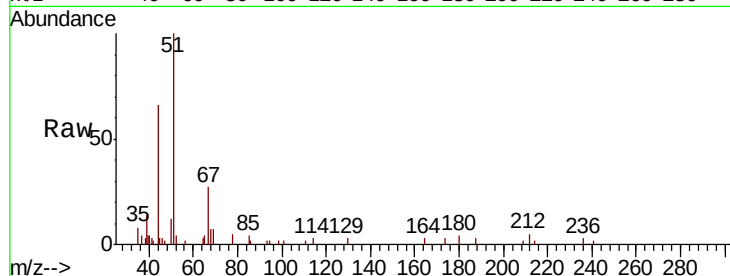




#3
 Chlorodifluoromethane
 Concen: 0.139 ppbv
 RT: 3.00 min Scan# 65
 Delta R.T. 0.00 min
 Lab File: VL036084.D
 Acq: 8 Dec 2020 3:44

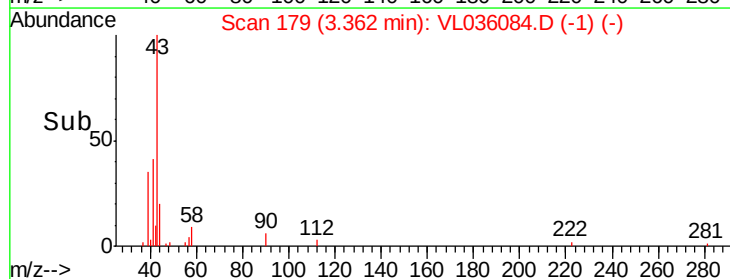
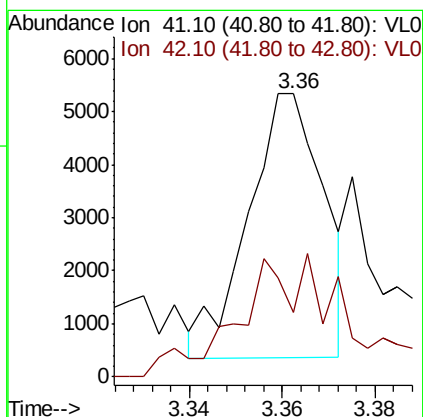
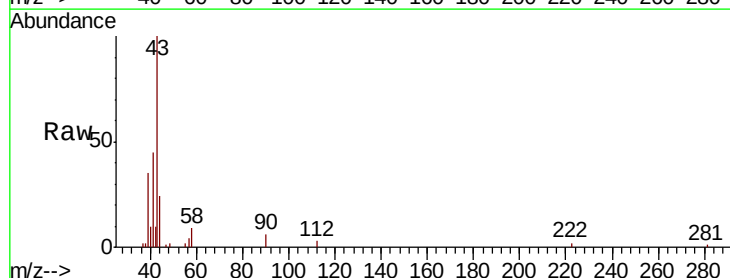
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6BDL

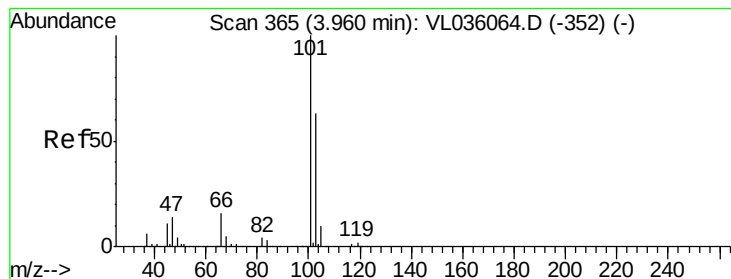
Tot Ion: 51 Resp: 20284
 Ion Ratio Lower Upper
 51 100
 67 14.5 14.3 21.5



#9
 Propene
 Concen: 0.077 ppbv
 RT: 3.36 min Scan# 179
 Delta R.T. 0.35 min
 Lab File: VL036084.D
 Acq: 8 Dec 2020 3:44

Tgt Ion: 41 Resp: 5614
 Ion Ratio Lower Upper
 41 100
 42 75.2 57.0 85.6





#11

Trichlorofluoromethane

Concen: 0.139 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL036084.D

Acq: 8 Dec 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

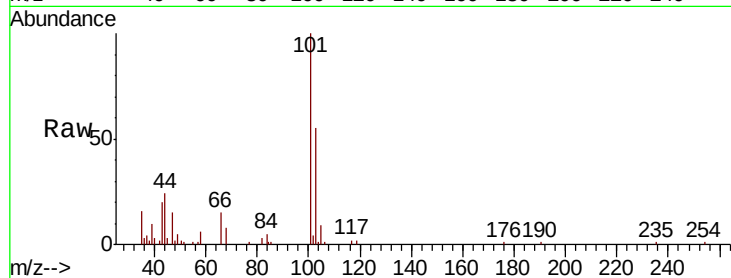
IA-6BDL

Tot Ion:101 Resp: 24309

Ion Ratio Lower Upper

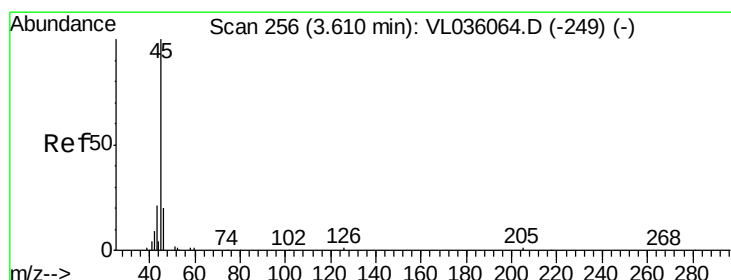
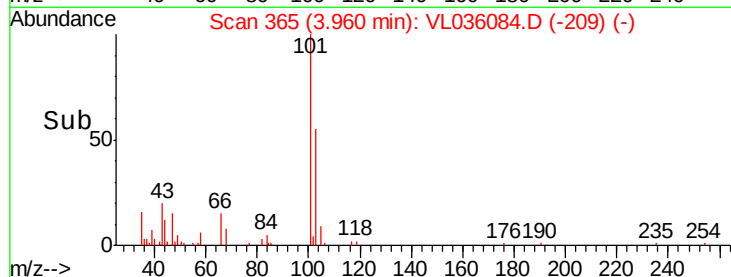
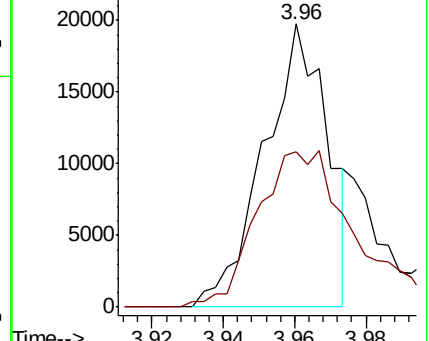
101 100

103 52.8 50.3 75.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 9.330 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL036084.D

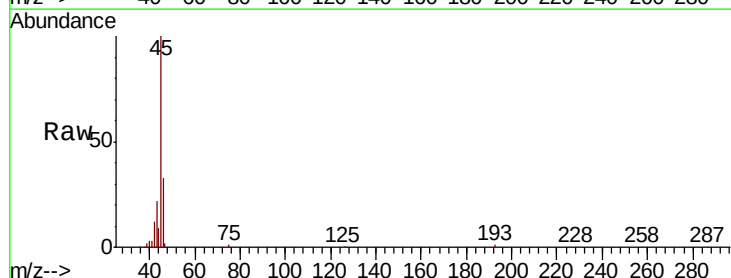
Acq: 8 Dec 2020 3:44

Tgt Ion: 45 Resp: 93969

Ion Ratio Lower Upper

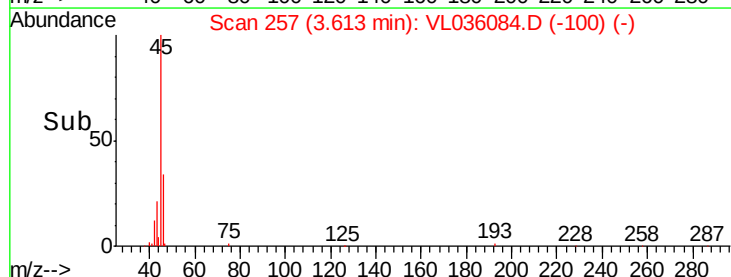
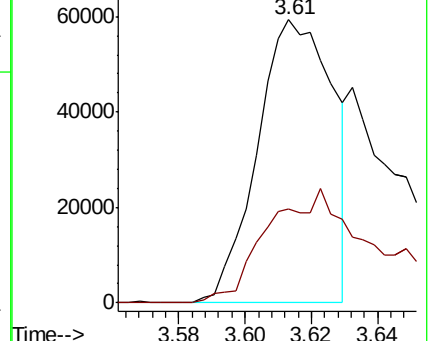
45 100

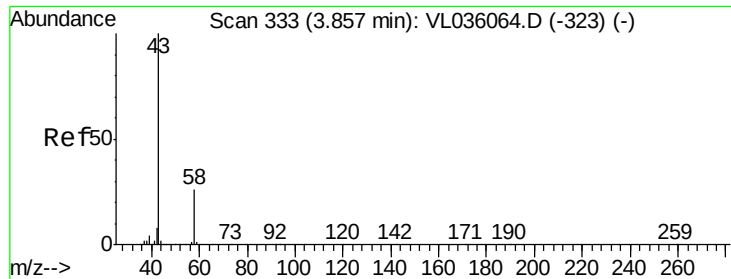
46 0.0 19.0 75.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.054 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL036084.D

Acq: 8 Dec 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

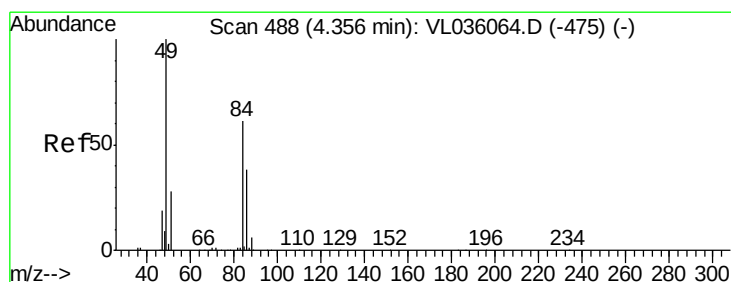
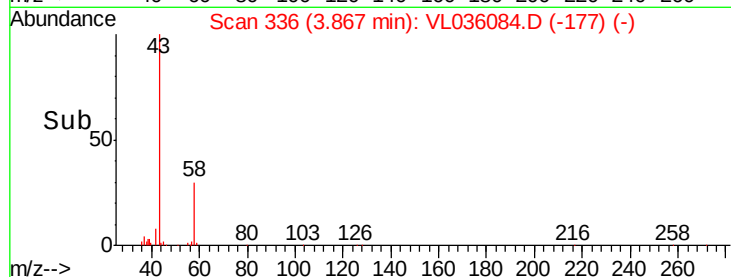
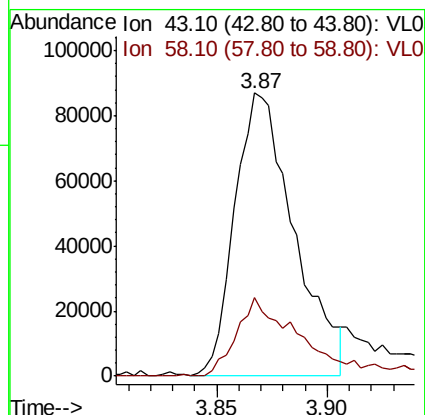
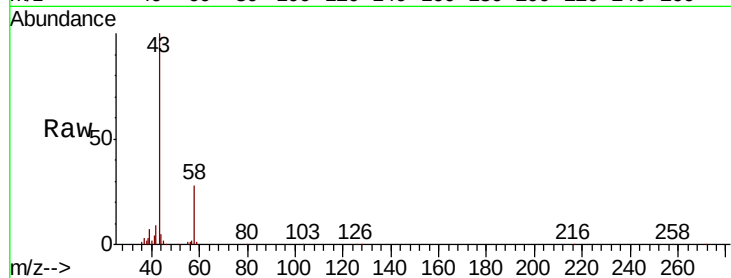
IA-6BDL

Tot Ion: 43 Resp: 161957

Ion Ratio Lower Upper

43 100

58 33.9 20.9 31.3#



#20

Methylene Chloride

Concen: 0.411 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.00 min

Lab File: VL036084.D

Acq: 8 Dec 2020 3:44

Tgt Ion: 84 Resp: 25868

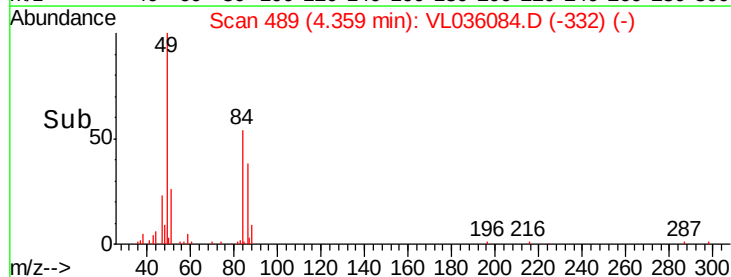
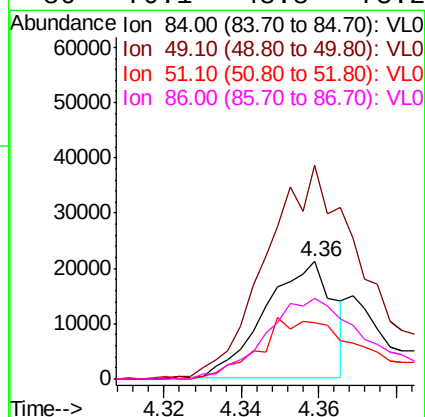
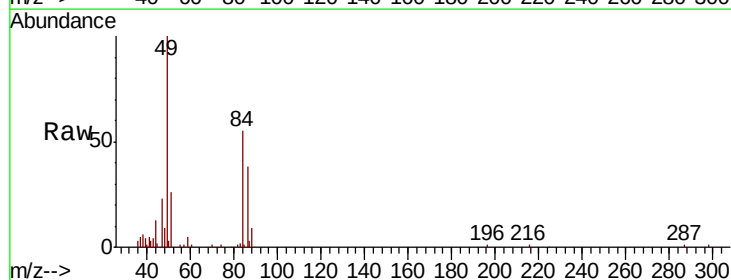
Ion Ratio Lower Upper

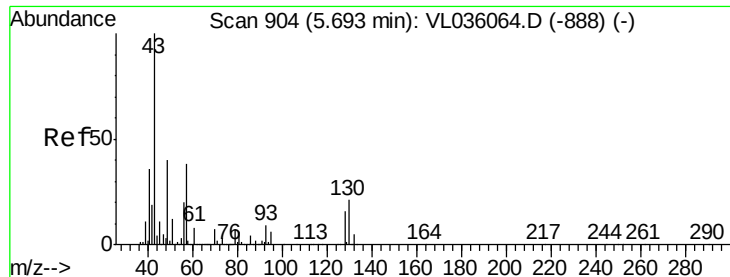
84 100

49 182.4 133.0 199.4

51 48.8 38.9 58.3

86 70.1 48.8 73.2

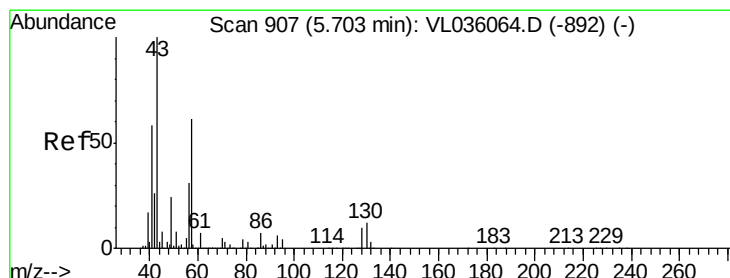
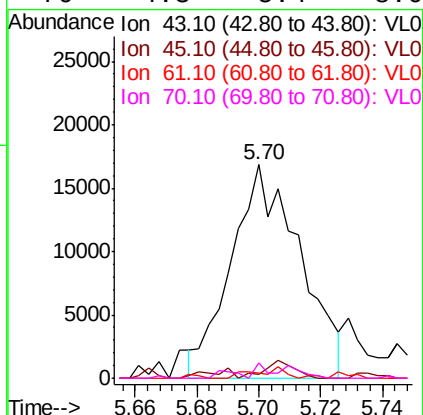
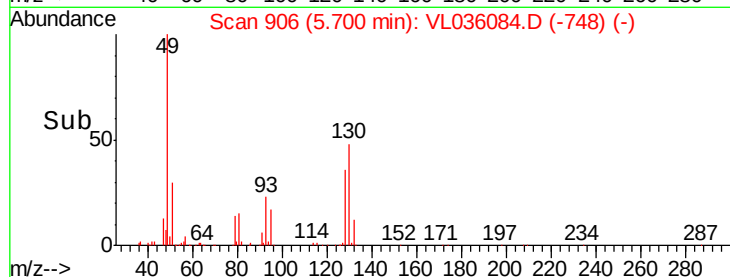
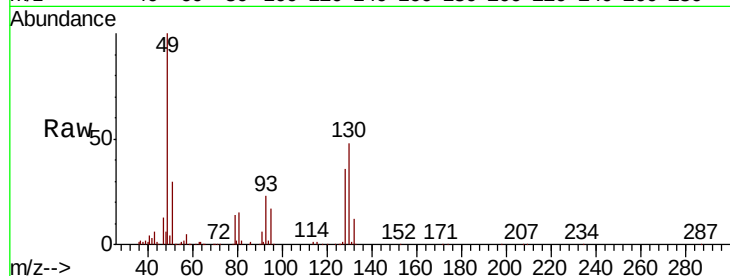




#25
Ethyl Acetate
Concen: 0.085 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL036084.D
Acq: 8 Dec 2020 3:44

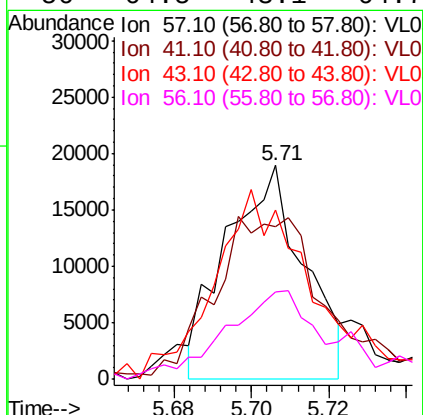
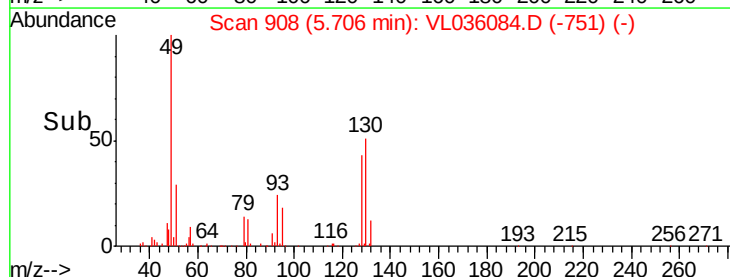
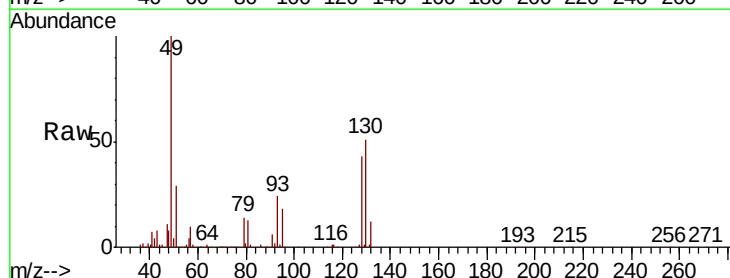
Instrument :
MSVOA_L
ClientSampled :
IA-6BDL

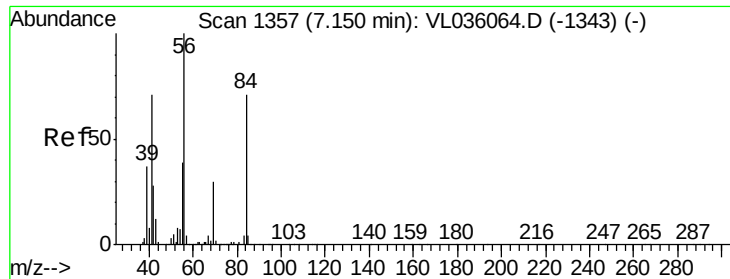
Tot Ion:	43	Resp:	25951
Ion	Ratio	Lower	Upper
43	100		
45	6.0	8.2	12.4#
61	2.9	7.4	11.2#
70	4.3	5.4	8.0#



#26
Hexane
Concen: 0.191 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL036084.D
Acq: 8 Dec 2020 3:44

Tgt Ion:	57	Resp:	26442
Ion	Ratio	Lower	Upper
57	100		
41	114.0	82.9	124.3
43	123.1	199.9	299.9#
56	64.5	43.1	64.7

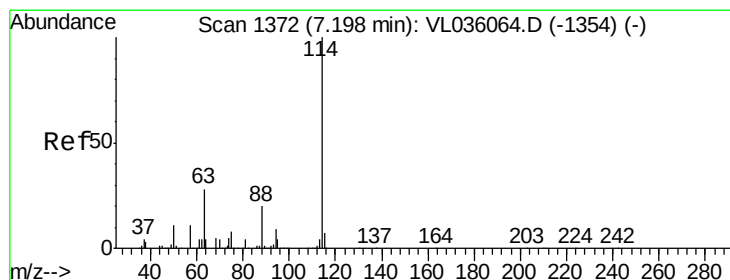
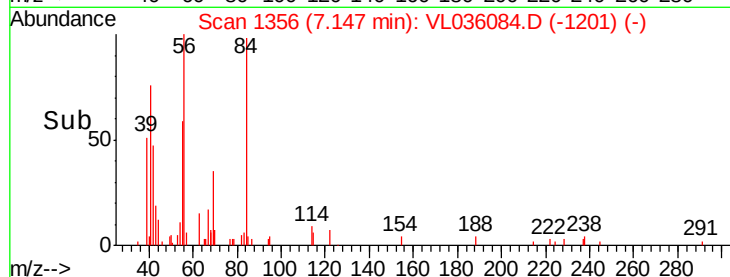
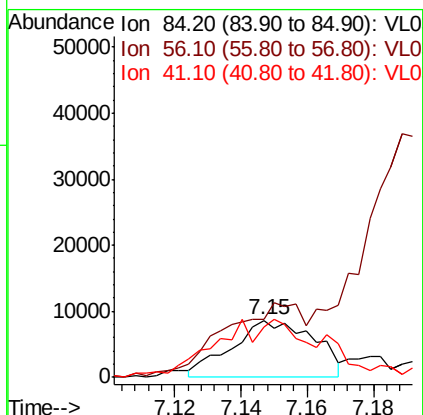
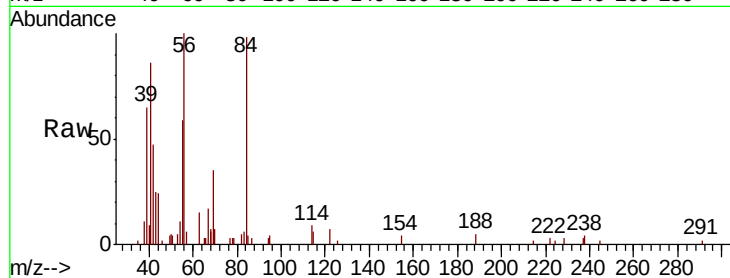




#30
Cyclohexane
Concen: 0.147 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL036084.D
Acq: 8 Dec 2020 3:44

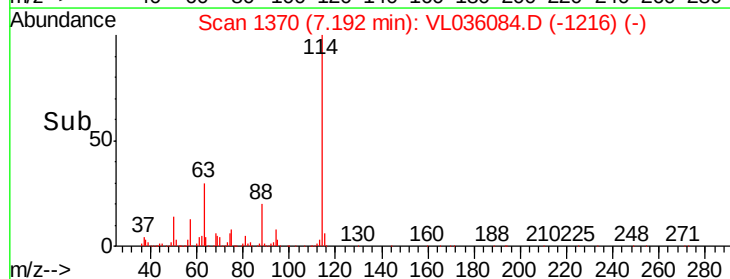
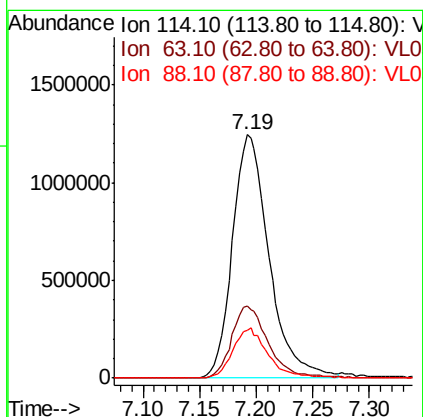
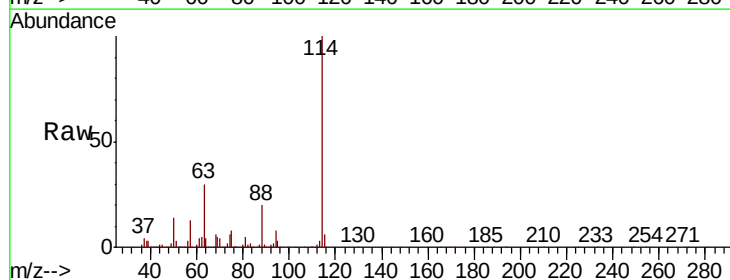
Instrument :
MSVOA_L
ClientSampleID :
IA-6BDL

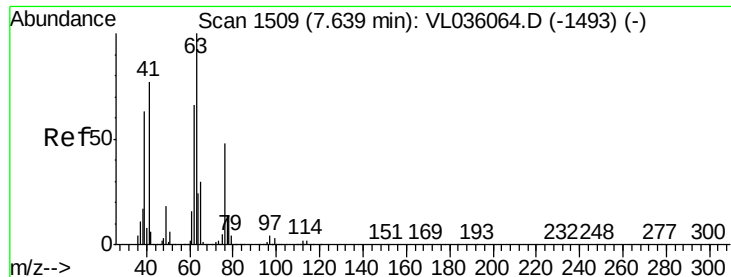
Tot Ion: 84 Resp: 14893
Ion Ratio Lower Upper
84 100
56 0.0 128.0 192.0#
41 129.3 81.3 121.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VL036084.D
Acq: 8 Dec 2020 3:44

Tgt Ion: 114 Resp: 2808399
Ion Ratio Lower Upper
114 100
63 30.0 23.6 35.4
88 20.1 15.8 23.6





#39

1,2-Dichloropropane

Concen: 8.739 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.45 min

Lab File: VL036084.D

Acq: 8 Dec 2020 3:44

Instrument :

MSVOA_L

ClientSampleId :

IA-6BDL

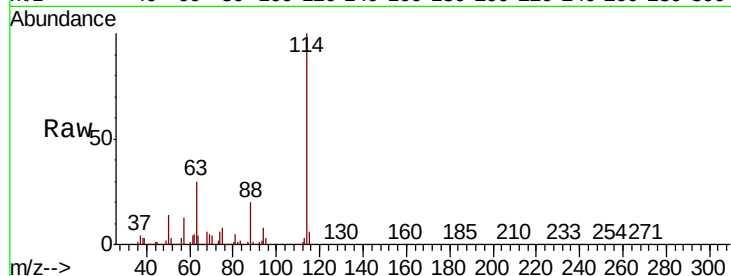
Tot Ion: 63 Resp: 821372

Ion Ratio Lower Upper

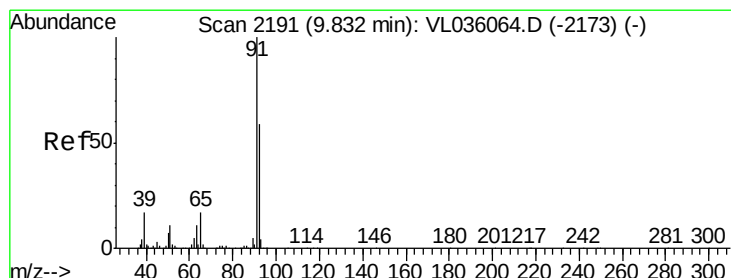
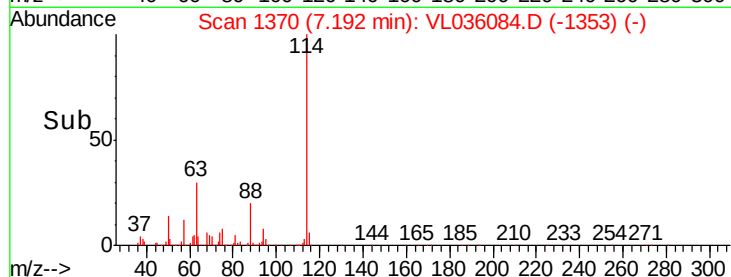
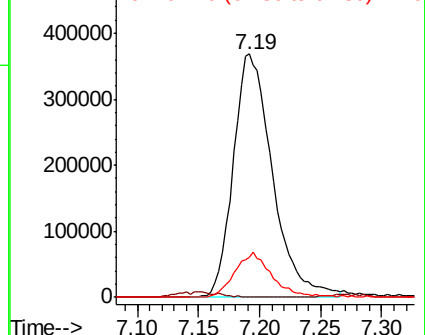
63 100

41 0.0 61.9 92.9#

62 16.3 52.5 78.7#



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



#53

Toluene

Concen: 0.136 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.01 min

Lab File: VL036084.D

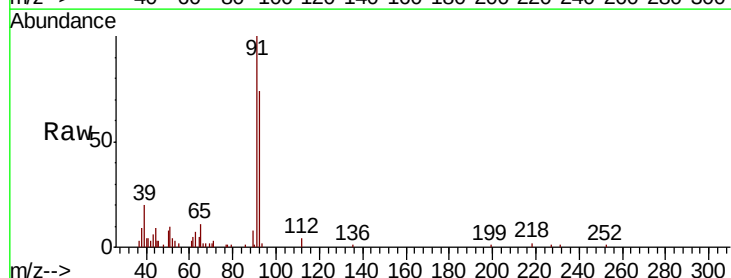
Acq: 8 Dec 2020 3:44

Tgt Ion: 91 Resp: 36429

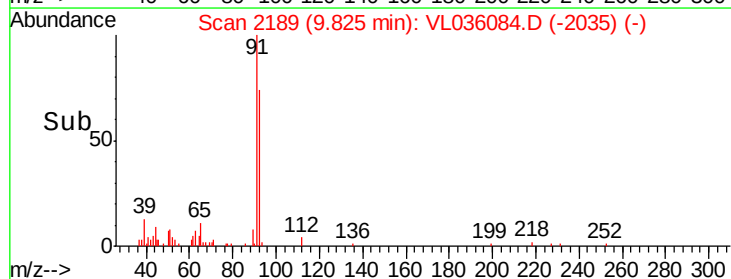
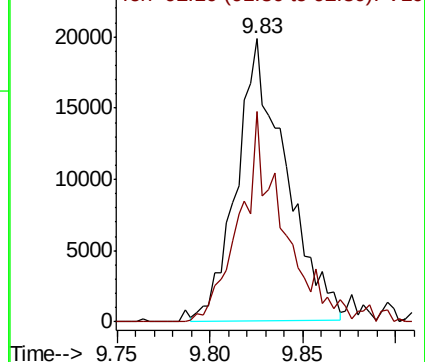
Ion Ratio Lower Upper

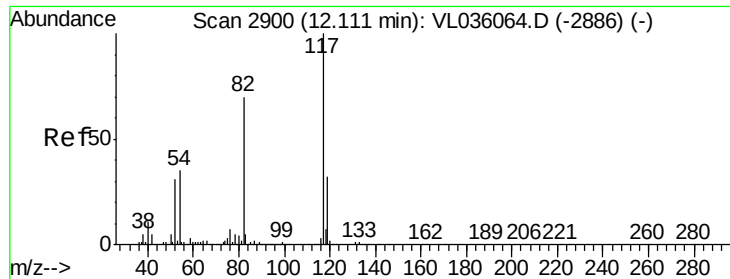
91 100

92 67.1 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

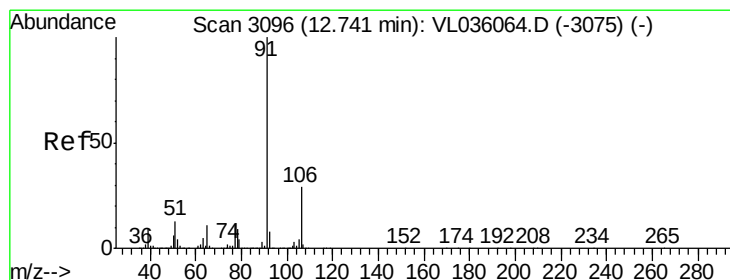
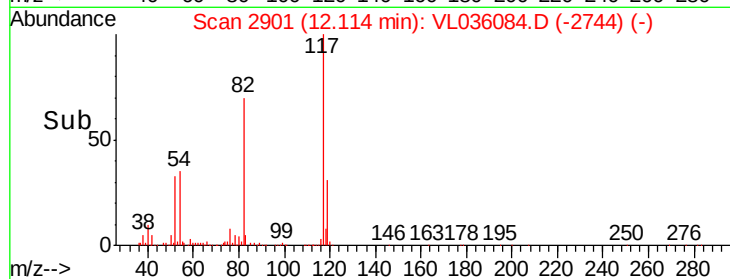
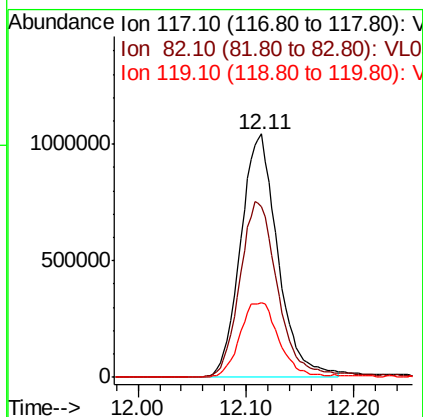
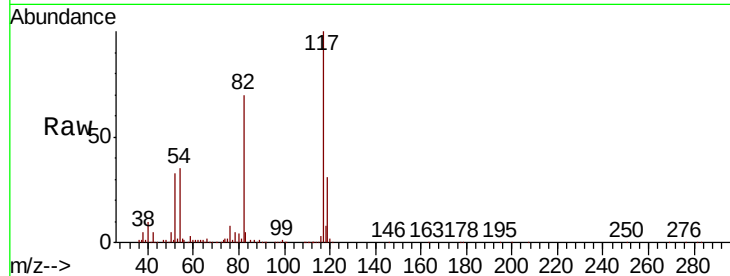




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.00 min
Lab File: VL036084.D
Acq: 8 Dec 2020 3:44

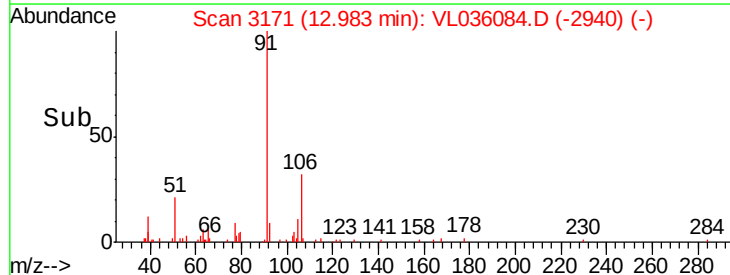
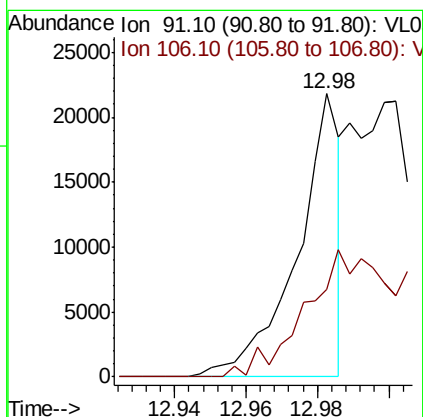
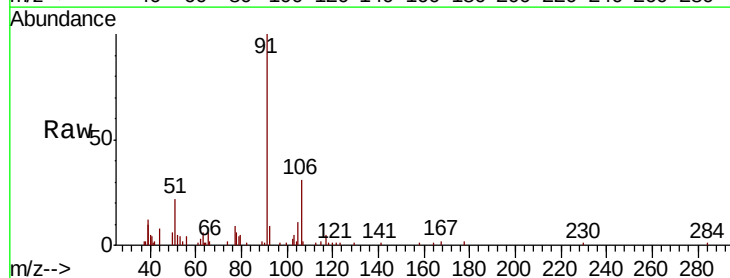
Instrument :
MSVOA_L
ClientSampled :
IA-6BDL

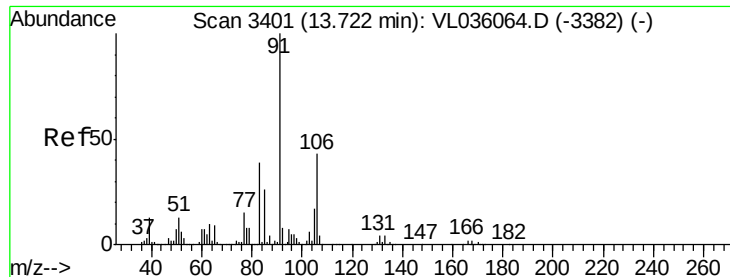
Tot Ion:117 Resp: 2502728
Ion Ratio Lower Upper
117 100
82 75.4 0.0 0.0#
119 33.6 0.0 0.0#



#58
Ethyl Benzene
Concen: 0.053 ppbv
RT: 12.98 min Scan# 3171
Delta R.T. 0.24 min
Lab File: VL036084.D
Acq: 8 Dec 2020 3:44

Tgt Ion: 91 Resp: 18104
Ion Ratio Lower Upper
91 100
106 30.9 23.0 34.4

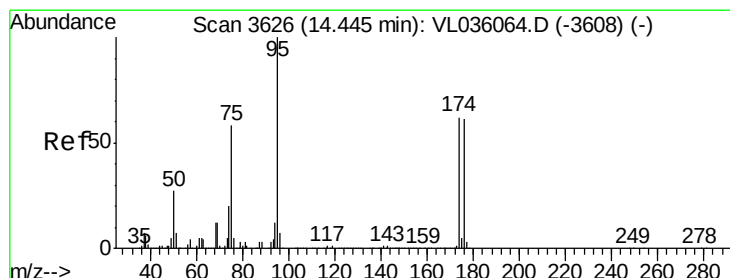
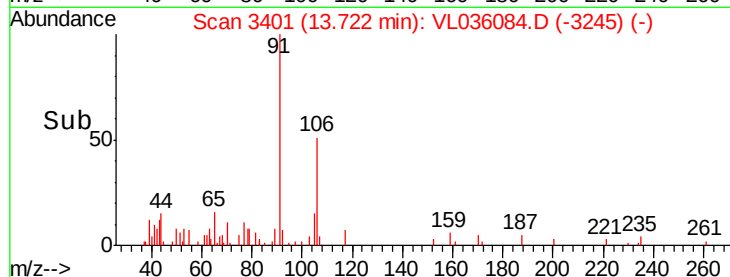
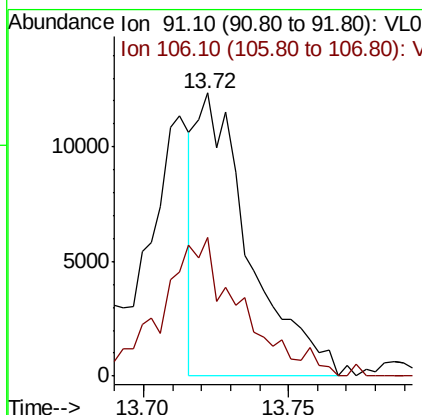
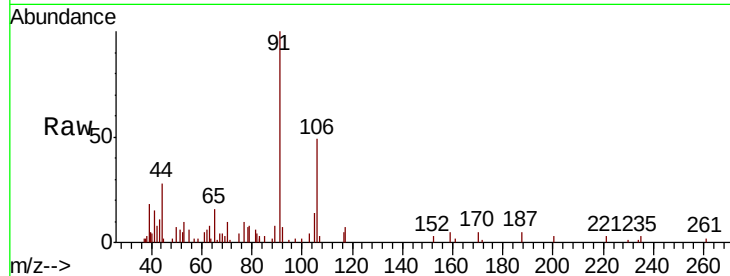




#60
o-Xylene
Concen: 0.058 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL036084.D
Acq: 8 Dec 2020 3:44

Instrument :
MSVOA_L
ClientSampleId :
IA-6BDL

Tot Ion: 91 Resp: 15683
Ion Ratio Lower Upper
91 100
106 74.2 21.6 64.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.536 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL036084.D
Acq: 8 Dec 2020 3:44

Tgt Ion: 95 Resp: 2093803
Ion Ratio Lower Upper
95 100
174 58.8 50.7 76.1
175 4.4 4.0 6.0

